



**Performance Data Reference
for Nokia GSM/GPRS**

Note

Before using this information and the product it supports, read the information in [Notices](#) on page 2645.

This edition applies to version 8.0, modification 12.2 of IBM Prospect for Nokia GSM/GPRS and to all subsequent releases and modifications until otherwise indicated in new editions.

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AMR_UL_HR_MODE_2	1900
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TOTAL_DL_QUAL	1906
TOTAL_UL_QUAL	1906
TOTAL_USAGE_DL	1906
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AMR_FR_MODE_1_DL_RXQUAL_4	1909
AMR_FR_MODE_1_DL_RXQUAL_5	1910
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AMR_FR_MODE_1_UL_RXQUAL_0	1911
AMR_FR_MODE_1_UL_RXQUAL_1	1911
AMR_FR_MODE_1_UL_RXQUAL_2	1911
AMR_FR_MODE_1_UL_RXQUAL_3	1912
AMR_FR_MODE_1_UL_RXQUAL_4	1912
AMR_FR_MODE_1_UL_RXQUAL_5	1912
AMR_FR_MODE_1_UL_RXQUAL_6	1912
AMR_FR_MODE_1_UL_RXQUAL_7	1913
AMR_FR_MODE_2_DL_RXQUAL_0	1913
AMR_FR_MODE_2_DL_RXQUAL_1	1913
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AMR_FR_MODE_2_DL_RXQUAL_3	1914
AMR_FR_MODE_2_DL_RXQUAL_4	1914
AMR_FR_MODE_2_DL_RXQUAL_5	1915
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AMR_FR_MODE_2_UL_RXQUAL_3	1916
AMR_FR_MODE_2_UL_RXQUAL_4	1917
AMR_FR_MODE_2_UL_RXQUAL_5	1917
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AMR_FR_MODE_3_DL_RXQUAL_4	1919
AMR_FR_MODE_3_DL_RXQUAL_5	1920
AMR_FR_MODE_3_DL_RXQUAL_6	1920
AMR_FR_MODE_3_DL_RXQUAL_7	1920
AMR_FR_MODE_3_UL_RXQUAL_0	1920
AMR_FR_MODE_3_UL_RXQUAL_1	1921
AMR_FR_MODE_3_UL_RXQUAL_2	1921
AMR_FR_MODE_3_UL_RXQUAL_3	1921
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AMR_FR_MODE_3_UL_RXQUAL_6	1922
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AMR_FR_MODE_4_DL_RXQUAL_3	1924
AMR_FR_MODE_4_DL_RXQUAL_4	1924
AMR_FR_MODE_4_DL_RXQUAL_5	1924
AMR_FR_MODE_4_DL_RXQUAL_6	1925
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AMR_FR_MODE_4_UL_RXQUAL_3	1926
AMR_FR_MODE_4_UL_RXQUAL_4	1927
AMR_FR_MODE_4_UL_RXQUAL_5	1927
AMR_FR_MODE_4_UL_RXQUAL_6	1927
AMR_FR_MODE_4_UL_RXQUAL_7	1928
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AMR_HR_MODE_1_DL_RXQUAL_1	1928
AMR_HR_MODE_1_DL_RXQUAL_2	1929
AMR_HR_MODE_1_DL_RXQUAL_3	1929
AMR_HR_MODE_1_DL_RXQUAL_4	1929
AMR_HR_MODE_1_DL_RXQUAL_5	1930
AMR_HR_MODE_1_DL_RXQUAL_6	1930
AMR_HR_MODE_1_DL_RXQUAL_7	1930
AMR_HR_MODE_1_UL_RXQUAL_0	1931
AMR_HR_MODE_1_UL_RXQUAL_1	1931
AMR_HR_MODE_1_UL_RXQUAL_2	1931
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AMR_HR_MODE_1_UL_RXQUAL_5	1932
AMR_HR_MODE_1_UL_RXQUAL_6	1932
AMR_HR_MODE_1_UL_RXQUAL_7	1933
AMR_HR_MODE_2_DL_RXQUAL_0	1933
AMR_HR_MODE_2_DL_RXQUAL_1	1933

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AMR_HR_MODE_2_DL_RXQUAL_2	1934
AMR_HR_MODE_2_DL_RXQUAL_3	1934
AMR_HR_MODE_2_DL_RXQUAL_4	1934
AMR_HR_MODE_2_DL_RXQUAL_5	1935
AMR_HR_MODE_2_DL_RXQUAL_6	1935
AMR_HR_MODE_2_DL_RXQUAL_7	1935
AMR_HR_MODE_2_UL_RXQUAL_0	1936
AMR_HR_MODE_2_UL_RXQUAL_1	1936
AMR_HR_MODE_2_UL_RXQUAL_2	1936
AMR_HR_MODE_2_UL_RXQUAL_3	1936
AMR_HR_MODE_2_UL_RXQUAL_4	1937
AMR_HR_MODE_2_UL_RXQUAL_5	1937
AMR_HR_MODE_2_UL_RXQUAL_6	1937
AMR_HR_MODE_2_UL_RXQUAL_7	1938
AMR_HR_MODE_3_DL_RXQUAL_0	1938
AMR_HR_MODE_3_DL_RXQUAL_1	1938
AMR_HR_MODE_3_DL_RXQUAL_2	1939
AMR_HR_MODE_3_DL_RXQUAL_3	1939
AMR_HR_MODE_3_DL_RXQUAL_4	1939
AMR_HR_MODE_3_DL_RXQUAL_5	1940
AMR_HR_MODE_3_DL_RXQUAL_6	1940
AMR_HR_MODE_3_DL_RXQUAL_7	1940
AMR_HR_MODE_3_UL_RXQUAL_0	1940
AMR_HR_MODE_3_UL_RXQUAL_1	1941
AMR_HR_MODE_3_UL_RXQUAL_2	1941
AMR_HR_MODE_3_UL_RXQUAL_3	1941
AMR_HR_MODE_3_UL_RXQUAL_4	1942
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AMR_HR_MODE_3_UL_RXQUAL_7	1943
AMR_HR_MODE_4_DL_RXQUAL_0	1943
AMR_HR_MODE_4_DL_RXQUAL_1	1943
AMR_HR_MODE_4_DL_RXQUAL_2	1944
AMR_HR_MODE_4_DL_RXQUAL_3	1944
AMR_HR_MODE_4_DL_RXQUAL_4	1944
AMR_HR_MODE_4_DL_RXQUAL_5	1944
AMR_HR_MODE_4_DL_RXQUAL_6	1945
AMR_HR_MODE_4_DL_RXQUAL_7	1945
AMR_HR_MODE_4_UL_RXQUAL_0	1945
AMR_HR_MODE_4_UL_RXQUAL_1	1946
AMR_HR_MODE_4_UL_RXQUAL_2	1946
AMR_HR_MODE_4_UL_RXQUAL_3	1946
AMR_HR_MODE_4_UL_RXQUAL_4	1947
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AMR_HR_MODE_4_UL_RXQUAL_6	1947
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ATT_FROM_SUPER_DL_IF	1948
ATT_FROM_SUPER_DL_QUAL	1948
ATT_FROM_SUPER_UL_IF	1949
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AVE_BUSY_TCH_TRX	1949
AVE_DL_SIG_QUAL	1950
AVE_DL_SIG_STR_TRX	1950
AVE_FULL_TCH_IF1	1950
AVE_FULL_TCH_IF2	1951
AVE_FULL_TCH_IF3	1951
AVE_FULL_TCH_IF4	1951
AVE_FULL_TCH_IF5	1952
AVE_HALF_TCH_IF1	1952
AVE_HALF_TCH_IF2	1952
AVE_HALF_TCH_IF3	1952
AVE_HALF_TCH_IF4	1953
AVE_HALF_TCH_IF5	1953
AVE_MS_BS_DIST	1953
AVE_MS_POWER	1954
AVE_SAIC_BS_POWER_DENOM	1954
AVE_SUM_IDLE_CH_INTERF	1954
AVE_SUM_IDLE_TCH_PER_TRX	1955
AVE_UL_SIG_QUAL	1955
AVE_UL_SIG_STR	1955
AVERAGE_SAIC_BS_POWER	1956
BS_PWR_DEC_CMD	1956
BS_PWR_DEC_QUAL	1956
BS_PWR_INC_CMD	1957
BS_PWR_INC_QUAL	1957
BS_PWR_INC_QUAL_14400	1957
BSSRelease	1958
BTS_ID_RX_QUAL	1958
BTS_ID_UNDERLAY	1958
CELL_ID	1959
CELL_IF_TOO_HIGH	1959
CELL_QUAL_TOO_LOW	1959
CELL1_ID	1959
CELL1_IF_TOO_HIGH	1960
CELL1_LAC	1960
CELL1_MCC	1960
CELL1_MNC	1961
CELL10_ID	1961
CELL10_LAC	1961
CELL10_MCC	1962
CELL10_MNC	1962
CELL10_TOO_HIGH	1962
CELL2_ID	1962
CELL2_IF_TOO_HIGH	1963
CELL2_LAC	1963
CELL2_MCC	1963
CELL2_MNC	1964
CELL3_ID	1964
CELL3_IF_TOO_HIGH	1964
CELL3_LAC	1965
CELL3_MCC	1965

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CELL3_MNC	1965
CELL4_ID	1966
CELL4_IF_TOO_HIGH	1966
CELL4_LAC	1966
CELL4_MCC	1966
CELL4_MNC	1967
CELL5_ID	1967
CELL5_IF_TOO_HIGH	1967
CELL5_LAC	1968
CELL5_MCC	1968
CELL5_MNC	1968
CELL6_ID	1969
CELL6_LAC	1969
CELL6_MCC	1969
CELL6_MNC	1970
CELL6_TOO_HIGH	1970
CELL7_ID	1970
CELL7_LAC	1970
CELL7_MCC	1971
CELL7_MNC	1971
CELL7_TOO_HIGH	1971
CELL8_ID	1972
CELL8_LAC	1972
CELL8_MCC	1972
CELL8_MNC	1973
CELL8_TOO_HIGH	1973
CELL9_ID	1973
CELL9_LAC	1974
CELL9_MCC	1974
CELL9_MNC	1974
CELL9_TOO_HIGH	1974
CLASSMARK_1_TIME_POWER	1975
CLASSMARK_2_TIME_POWER	1975
CLASSMARK_3_TIME_POWER	1975
CLASSMARK_4_TIME_POWER	1975
CLASSMARK_5_TIME_POWER	1976
CLASSMARK_GEN_TIME_POWER	1976
DIR_ACC_HO_ATT_SUPER	1976
DIR_ACC_HO_FAIL_SUPER_DROP_C	1976
DIR_ACC_HO_FAIL_SUPER_LACK_R	1977
DIR_ACC_HO_FAIL_SUPER_RET_OLD	1977
DIR_ACC_HO_FAIL_SUPER_TR	1977
DIR_ACC_HO_SUCC_SUPER	1978
DL_RLC_MAC_BLOCKS	1978
DL_RX_QUAL_POWER_CL_0	1978
DL_RX_QUAL_POWER_CL_0_DENOM	1979
DL_RX_QUAL_POWER_CL_1	1979
DL_RX_QUAL_POWER_CL_1_DENOM	1979
DL_RX_QUAL_POWER_CL_10	1980
DL_RX_QUAL_POWER_CL_10_DENOM	1980
DL_RX_QUAL_POWER_CL_11	1980

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DL_RX_QUAL_POWER_CL_11_DENOM	1981
DL_RX_QUAL_POWER_CL_12	1981
DL_RX_QUAL_POWER_CL_12_DENOM	1982
DL_RX_QUAL_POWER_CL_13	1982
DL_RX_QUAL_POWER_CL_13_DENOM	1982
DL_RX_QUAL_POWER_CL_14	1983
DL_RX_QUAL_POWER_CL_14_DENOM	1983
DL_RX_QUAL_POWER_CL_15	1983
DL_RX_QUAL_POWER_CL_15_DENOM	1984
DL_RX_QUAL_POWER_CL_2	1984
DL_RX_QUAL_POWER_CL_2_DENOM	1984
DL_RX_QUAL_POWER_CL_3	1985
DL_RX_QUAL_POWER_CL_3_DENOM	1985
DL_RX_QUAL_POWER_CL_4	1985
DL_RX_QUAL_POWER_CL_4_DENOM	1986
DL_RX_QUAL_POWER_CL_5	1986
DL_RX_QUAL_POWER_CL_5_DENOM	1986
DL_RX_QUAL_POWER_CL_6	1987
DL_RX_QUAL_POWER_CL_6_DENOM	1987
DL_RX_QUAL_POWER_CL_7	1987
DL_RX_QUAL_POWER_CL_7_DENOM	1988
DL_RX_QUAL_POWER_CL_8	1988
DL_RX_QUAL_POWER_CL_8_DENOM	1989
DL_RX_QUAL_POWER_CL_9	1989
DL_RX_QUAL_POWER_CL_9_DENOM	1989
FR_102_DL_RXQ_0	1990
FR_102_DL_RXQ_1	1990
FR_102_DL_RXQ_2	1990
FR_102_DL_RXQ_3	1991
FR_102_DL_RXQ_4	1991
FR_102_DL_RXQ_5	1991
FR_102_DL_RXQ_6	1992
FR_102_DL_RXQ_7	1992
FR_102_UL_RXQ_0	1992
FR_102_UL_RXQ_1	1993
FR_102_UL_RXQ_2	1993
FR_102_UL_RXQ_3	1993
FR_102_UL_RXQ_4	1994
FR_102_UL_RXQ_5	1994
FR_102_UL_RXQ_6	1994
FR_102_UL_RXQ_7	1995
FR_122_DL_RXQ_0	1995
FR_122_DL_RXQ_1	1995
FR_122_DL_RXQ_2	1996
FR_122_DL_RXQ_3	1996
FR_122_DL_RXQ_4	1996
FR_122_DL_RXQ_5	1997
FR_122_DL_RXQ_6	1997
FR_122_DL_RXQ_7	1997
FR_122_UL_RXQ_0	1998
FR_122_UL_RXQ_1	1998

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FR_122_UL_RXQ_2	1998
FR_122_UL_RXQ_3	1999
FR_122_UL_RXQ_4	1999
FR_122_UL_RXQ_5	1999
FR_122_UL_RXQ_6	2000
FR_122_UL_RXQ_7	2000
FR_475_DL_RXQ_0	2000
FR_475_DL_RXQ_1	2001
FR_475_DL_RXQ_2	2001
FR_475_DL_RXQ_3	2001
FR_475_DL_RXQ_4	2002
FR_475_DL_RXQ_5	2002
FR_475_DL_RXQ_6	2002
FR_475_DL_RXQ_7	2003
FR_475_UL_RXQ_0	2003
FR_475_UL_RXQ_1	2003
FR_475_UL_RXQ_2	2004
FR_475_UL_RXQ_3	2004
FR_475_UL_RXQ_4	2004
FR_475_UL_RXQ_5	2005
FR_475_UL_RXQ_6	2005
FR_475_UL_RXQ_7	2005
FR_515_DL_RXQ_0	2006
FR_515_DL_RXQ_1	2006
FR_515_DL_RXQ_2	2006
FR_515_DL_RXQ_3	2007
FR_515_DL_RXQ_4	2007
FR_515_DL_RXQ_5	2007
FR_515_DL_RXQ_6	2008
FR_515_DL_RXQ_7	2008
FR_515_UL_RXQ_0	2008
FR_515_UL_RXQ_1	2009
FR_515_UL_RXQ_2	2009
FR_515_UL_RXQ_3	2009
FR_515_UL_RXQ_4	2010
FR_515_UL_RXQ_5	2010
FR_515_UL_RXQ_6	2010
FR_515_UL_RXQ_7	2011
FR_590_DL_RXQ_0	2011
FR_590_DL_RXQ_1	2011
FR_590_DL_RXQ_2	2012
FR_590_DL_RXQ_3	2012
FR_590_DL_RXQ_4	2012
FR_590_DL_RXQ_5	2013
FR_590_DL_RXQ_6	2013
FR_590_DL_RXQ_7	2013
FR_590_UL_RXQ_0	2014
FR_590_UL_RXQ_1	2014
FR_590_UL_RXQ_2	2014
FR_590_UL_RXQ_3	2015
FR_590_UL_RXQ_4	2015

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FR_590_UL_RXQ_5	2015
FR_590_UL_RXQ_6	2016
FR_590_UL_RXQ_7	2016
FR_670_DL_RXQ_0	2016
FR_670_DL_RXQ_1	2017
FR_670_DL_RXQ_2	2017
FR_670_DL_RXQ_3	2017
FR_670_DL_RXQ_4	2018
FR_670_DL_RXQ_5	2018
FR_670_DL_RXQ_6	2018
FR_670_DL_RXQ_7	2019
FR_670_UL_RXQ_0	2019
FR_670_UL_RXQ_1	2019
FR_670_UL_RXQ_2	2020
FR_670_UL_RXQ_3	2020
FR_670_UL_RXQ_4	2020
FR_670_UL_RXQ_5	2021
FR_670_UL_RXQ_6	2021
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FR_740_DL_RXQ_0	2022
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SAIC_FR_795_DL_RXQ_5	2097
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SAIC_HR_475_DL_RXQ_6	2103
SAIC_HR_475_DL_RXQ_7	2103
SAIC_HR_515_DL_RXQ_0	2104
SAIC_HR_515_DL_RXQ_1	2104
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SAIC_HR_515_DL_RXQ_4	2105
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SAIC_HR_515_DL_RXQ_6	2106
SAIC_HR_515_DL_RXQ_7	2106
SAIC_HR_590_DL_RXQ_0	2106
SAIC_HR_590_DL_RXQ_1	2107
SAIC_HR_590_DL_RXQ_2	2107
SAIC_HR_590_DL_RXQ_3	2107
SAIC_HR_590_DL_RXQ_4	2108
SAIC_HR_590_DL_RXQ_5	2108
SAIC_HR_590_DL_RXQ_6	2108
SAIC_HR_590_DL_RXQ_7	2109
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SAIC_HR_670_DL_RXQ_4	2110
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SAIC_HR_670_DL_RXQ_7	2111
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1 About This Documentation

The *Performance Data Reference* provides a reference of performance data and fields to use in IBM Prospect® software to create reports. This guide is customized to support IBM Prospect 8.0 for Nokia GSM/GPRS (Release Point 12.2).

This guide was last updated on 02 August 2010.

Please see the current release notes on this product for a list of revision dates for all IBM Prospect publications.

Audience

This guide is intended for technicians and engineers who use the IBM Prospect software to manage and analyze the performance of a telecommunication network.

Required Skills and Knowledge

This guide is intended for users who have knowledge and skills in the following:

- Basics of Windows
- Features and functions of Microsoft Excel
- High school level mathematics
- Basic statistics
- The network from which IBM Prospect software receives data

Document Conventions

This document uses the typographical conventions shown in the following table:

Table 1: General document conventions

Format	Examples	Description
ALL UPPERCASE	<ul style="list-style-type: none"> • GPS • NULL • MYWEBSEVER 	Acronyms, device names, logical operators, registry keys, and some data structures.
<u>Underscore</u>	See Document Conventions	For links within a document or to the Internet. Note that TOC and index links are not underscored. Color of text is determined by browser settings.
Bold	<ul style="list-style-type: none"> • Note: The busy hour determiner is... 	Heading text for Notes, Tips, and Warnings.
SMALL CAPS	<ul style="list-style-type: none"> • The STORED SQL dialog box... • ...click VIEW... • In the main GUI window, select the FILE menu, point to NEW, and then select TRAFFIC TEMPLATE. 	Any text that appears on the GUI.
<i>Italic</i>	<ul style="list-style-type: none"> • A <i>busy hour</i> is... • A web server <i>must</i> be installed... • See the <i>User Guide</i> 	New terms, emphasis, and book titles.
Monospace	<ul style="list-style-type: none"> • <code>./wminstall</code> • <code>\$ cd /cdrom/cdrom0</code> • <code>/xml/dict</code> • <code>http://java.sun.com/products/</code> • <code>addmsc.sh</code> • <code>core.spec</code> • Type OK to continue. 	Code text, command line text, paths, scripts, and file names. Text written in the body of a paragraph that the user is expected to enter.
Monospace Bold	<pre>[root] # pkginfo grep -i perl system Perl5 On-Line Manual Pages system Perl 5.6.1 (POD Documenta- tion) system Perl 5.6.1</pre>	For contrast in a code example to show lines the user is expected to enter.
<Mono- space italics>	<pre># cd <oracle_setup></pre>	Used in code examples: command-line variables that you replace with a real name or value. These are always marked with arrow brackets.
[square brackets]	<pre>log-archiver.sh [-i] [-w] [-t]</pre>	Used in code examples: indicates options.

User Publications

IBM Prospect software provides the following user publications in HTML or Adobe Portable Document Format (PDF) formats.

Table 2: IBM Prospect User Documentation

Document	Description
<i>Administration Guide</i>	Helps an administrator configure and support IBM Prospect core server software to analyze network performance and perform other network or database management tasks.
<i>Administrator's Quick Reference Card</i>	Presents the principal tasks of a IBM Prospect core server administrator in an easy-to-use format.
<i>Expressions Technical Reference</i>	Provides detailed information about expressions used in special calculations for reports.
<i>Installation Guide</i>	Instructions for installing and configuring the IBM Prospect software.
<i>Open Interface API Guide</i>	Describes how the Open Interface tool enhances your access to information about database peg counts and scenarios.
<i>Performance Data Reference</i>	Provides detailed information including entity hierarchies, peg counts, primitive calculations, and forecast expressions specific to your organization.
<i>Release Notes</i>	Provides technology-specific and late-breaking information about a given IBM Prospect release and important details about installation and operation.
<i>Server Preparation Guide</i>	Provides instructions for installing and setting up Solaris and Oracle software before you install IBM Prospect software.
<i>Server Sizing Tool Guide</i>	Helps an administrator use the sizing tool to calculate the system space needed for the IBM Prospect software and database.
<i>User Guide</i>	Provides conceptual information and procedures for using IBM Prospect software for performance and trending analysis.

Viewing the Desktop Client Help Publications

To view the desktop client Help publications, select a guide from the HELP menu of the IBM Prospect graphical user interface or press F1 for context-sensitive Help. To update the Help files, click the HELP menu on the IBM Prospect Explorer, and select UPDATE ALL HELP FILES.

When Help files are updated, they are downloaded automatically from the IBM Prospect server to the IBM Prospect client. A message box notifies you when this download occurs.

Viewing the Publications in PDF

All of the user publications are available in Adobe Portable Document Format (PDF). To open a PDF, you need the Adobe Acrobat Reader. You can download Adobe Acrobat Reader free of charge from the Adobe Web site. For more details about the Acrobat Reader, see the Adobe Web site <http://www.adobe.com/>.

Viewing the Publications in IBM Information Center

All of the IBM Prospect publications, including Release Notes, are available online from the IBM Information Center website as follows:

http://publib.boulder.ibm.com/infocenter/tivihelp/v8r1/index.jsp?topic=/com.ibm.netcool_pm.doc/IBM_Prospect_060308.htm

2 Introduction

This reference contains detailed technical information about IBM Prospect®. The information included in this document includes the following:

- Entity descriptions and reporting hierarchy
- System-defined fields
- Reference of possible IBM Prospect Expressions in primitive calculations

This reference lists most fields that you can include in reports. The fields listed in this reference are system-defined fields and do not reflect the complete list of available fields. Additional fields, such as User-Defined Calculations (UDCs) or External fields, may also be available.

The following table describes the field types in this reference.

Table 3: Field Types

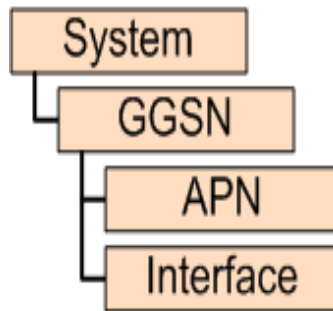
Field Type	Description
Data availability	Data availability fields are automatically created for each data file type that is loaded.
Peg count	A performance metric gathered from the wireless network.
Primitive calculation	A performance metric whose value is determined by a set calculation. Some primitive calculations use IBM Prospect expressions. For more information on IBM Prospect expressions, see the <i>Expressions Technical Reference</i> .
Roll-up field	Roll-up fields provide aggregated information about a field defined at a child entity level.

PERFORMANCE DATA REFERENCE
IBM Prospect 8.0 for Nokia GSM/GPRS

3 GGSN Traffic Entities

The following figure shows the Prospect reporting hierarchy for GGSN traffic entities.

Figure 1: Reporting Hierarchy



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IBM Prospect 8.0 for Nokia GSM/GPRS

4 GGSN Traffic Fields

The following is a list of available GGSN Traffic performance data fields.

APN Primitive Calculations

The following is a list of primitive calculations for the APN entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

pgtpAveragePacketSizeReceived

Average packet size is the ratio between bytes received and number of packets received

Calculation

(gtpStatInBytes / gtpStatIn)

pgtpAveragePacketSizeSent

Average packet size is the ratio between bytes sent and number of packets sent

Calculation

$(\text{gtpStatOutBytes} / \text{gtpStatOut})$

pgtpTotalGGSNSuccRate

Total GGSN Packet Success is the ratio of Number of Packets received per access point by GGSN and Number of packets sent per access point by GGSN

Calculation

$(\text{gtpStatReceived} * 100) / \text{gtpStatSent}$

pPDPAcctFailpAPNRate

PDP Activation Failure Rate is the ratio between number of PDP context activation failures per access point and number of created PDP contexts per access point

Calculation

$(\text{pdpContextFailures} * 100) / \text{pdpContextsCreated}$

APN Peg Counts

The following is a list of peg counts for the APN entity.

GGSN_Release

GGSN Release

gtpStatIn

Number of received GTP packets per access point.

Data Source

GGSN

Source Field

GTP002

Source Section

GGSN_AP

gtpStatInBytes

Number of bytes received in GTP packets per access point.

Data Source

GGSN

Source Field

GTP004

Source Section

GGSN_AP

gtpStatOut

Number of GTP packets sent per access point.

Data Source

GGSN

Source Field

GTP003

Source Section

GGSN_AP

gtpStatOutBytes

Number of bytes sent in GTP packets per access point.

Data Source

GGSN

Source Field

GTP005

Source Section

GGSN_AP

gtpStatReceived

Number of GTP packets received per access point by GGSN.

Data Source

GGSN

Source Field

GTP006

Source Section

GGSN_AP

gtpStatSent

Number of GTP packets sent per access point by GGSN.

Data Source

GGSN

Source Field

GTP007

Source Section

GGSN_AP

ipaddDynamic

Current number of reserved dynamic IP addresses per access point.

Data Source

GGSN

Source Field

IPAD002

Source Section

GGSN_AP

ipaddDynUsed

Average usage percentage of dynamic IP addresses per access point.

Data Source

GGSN

Source Field

IPAD004

Source Section

GGSN_AP

ipaddStatic

Current number of static IP addresses per access point.

Data Source

GGSN

Source Field

IPAD003

Source Section

GGSN_AP

pdpAverageContextsDuration

Average duration of active PDP contexts per access point.

Data Source

GGSN

Source Field

PDP012

Source Section

GGSN_AP

pdpContextFailures

Number of PDP context activation failures per access point.

Data Source

GGSN

Source Field

PDP008

Source Section

GGSN_AP

pdpContextsActive

Number of active PDP contexts per access point.

Data Source

GGSN

Source Field

PDP005

Source Section

GGSN_AP

pdpContextsCount

Number of past PDP contexts per access point.

Data Source

GGSN

Source Field

PDP007

Source Section

GGSN_AP

pdpContextsCreated

Number of created PDP contexts per access point.

Data Source

GGSN

Source Field

PDP010

Source Section

GGSN_AP

pdpContextsDuration

Cumulative duration of past PDP contexts per access point.

Data Source

GGSN

Source Field

PDP006

Source Section

GGSN_AP

pdpContextsUsed

Average percentage of active PDP context per access point.

Data Source

GGSN

Source Field

PDP009

Source Section

GGSN_AP

pdpCreateMsgs

Number of Create PDP context messages for this access point that the GGSN has received after reinitialisation.

Data Source

GGSN

Source Field

PDP002

Source Section

GGSN_AP

pdpDeleteMsgs

Number of deleted PDP context messages per access point.

Data Source

GGSN

Source Field

PDP004

Source Section

GGSN_AP

pdpUpdateMsgs

Number of updated PDP context messages per access point.

Data Source

GGSN

Source Field

PDP003

Source Section

GGSN_AP

PERLENSEC

Measurement collection interval (in seconds)

SmPdpStatActv

GCN2 Number of PDP activation attempts.

Data Source

GGSN

Source Field

SMPDP02

Source Section

GGSN_AP

SmPdpStatDeact

Number of PDP deactivation.

Data Source

GGSN

Source Field

SMPDP04

Source Section

GGSN_AP

SmPdpStatUpd

Number of PDP modification attempts.

Data Source

GGSN

Source Field

SMPDP03

Source Section

GGSN_AP

GGSN Primitive Calculations

The following is a list of primitive calculations for the GGSN entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

GGSN Peg Counts

The following is a list of peg counts for the GGSN entity.

backgroundActiveContexts

Number of active Background Class PDP contexts.

Data Source

GGSN

Source Field

QOSG056

Source Section

NE_Specific

backgroundDeclinedContexts

Number of declined Background Class PDP contexts.

Data Source

GGSN

Source Field

QOSG066

Source Section

NE_Specific

backgroundDIKBytes

Amount of downlink Background Class traffic.

Data Source

GGSN

Source Field

QOSG026

Source Section

NE_Specific

backgroundDroppedDIKBytes

Amount of dropped downlink Background Class traffic.

Data Source

GGSN

Source Field

QOSG046

Source Section

NE_Specific

backgroundUIKBytes

Amount of uplink Background Class traffic.

Data Source

GGSN

Source Field

QOSG036

Source Section

NE_Specific

convActiveContexts

Number of active Conversational Class PDP contexts.

Data Source

GGSN

Source Field

QOSG051

Source Section

NE_Specific

convDeclinedContexts

Number of declined Conversational Class PDP contexts.

Data Source

GGSN

Source Field

QOSG061

Source Section

NE_Specific

convDIKBytes

Amount of downlink Conversational Class traffic.

Data Source

GGSN

Source Field

QOSG021

Source Section

NE_Specific

convDroppedDIKBytes

Amount of dropped downlink Conversational Class traffic.

Data Source

GGSN

Source Field

QOSG041

Source Section

NE_Specific

convUIKBytes

Amount of uplink Conversational Class traffic.

Data Source

GGSN

Source Field

QOSG031

Source Section

NE_Specific

freeResForRealTimeTraffic

Free bandwidth capacity available for real time traffic of the GGSN.

Data Source

GGSN

Source Field

QOSG011

Source Section

NE_Specific

fwAccepted

Number of packets sent from Net Act to the GGSN that have been accepted.

Data Source

GGSN

Source Field

FW004

Source Section

NE_Specific

fwDropped

Number of packets sent from Net Act to the GGSN that have been dropped.

Data Source

GGSN

Source Field

FW006

Source Section

NE_Specific

fwRejected

Number of packets sent from Net Act to the GGSN that have been rejected.

Data Source

GGSN

Source Field

FW005

Source Section

NE_Specific

GGSN_Release

GGSN Release

intrThp1ActiveContexts

Contexts Number of active Interactive Class (Traffic Handling Priority 1) PDP contexts.

Data Source

GGSN

Source Field

QOSG053

Source Section

NE_Specific

intrThp1DeclinedContexts

Number of declined Interactive Class (Traffic Handling Priority 1) PDP contexts.

Data Source

GGSN

Source Field

QOSG063

Source Section

NE_Specific

intrThp1DIKBytes

Amount of downlink Interactive Class (Traffic Handling Priority 1) traffic.

Data Source

GGSN

Source Field

QOSG023

Source Section

NE_Specific

intrThp1DroppedDIKBytes

Amount of dropped downlink Interactive Class (Traffic Handling Priority 1) traffic.

Data Source

GGSN

Source Field

QOSG043

Source Section

NE_Specific

intrThp1UIKBytes

Amount of uplink Interactive Class (Traffic Handling Priority 1) traffic.

Data Source

GGSN

Source Field

QOSG033

Source Section

NE_Specific

intrThp2ActiveContexts

Number of active Interactive Class (Traffic Handling Priority 2) PDP contexts.

Data Source

GGSN

Source Field

QOSG054

Source Section

NE_Specific

intrThp2DeclinedContexts

Number of declined Interactive Class (Traffic Handling Priority 2) PDP contexts.

Data Source

GGSN

Source Field

QOSG064

Source Section

NE_Specific

intrThp2DIKBytes

Amount of downlink Interactive Class (Traffic Handling Priority 2) traffic.

Data Source

GGSN

Source Field

QOSG024

Source Section

NE_Specific

intrThp2DroppedDIKBytes

Amount of dropped downlink Interactive Class (Traffic Handling Priority 2) traffic.

Data Source

GGSN

Source Field

QOSG044

Source Section

NE_Specific

intrThp2UIKBytes

Amount of uplink Interactive Class (Traffic Handling Priority 2) traffic.

Data Source

GGSN

Source Field

QOSG034

Source Section

NE_Specific

intrThp3ActiveContexts

Number of active Interactive Class (Traffic Handling Priority 3) PDP contexts.

Data Source

GGSN

Source Field

QOSG055

Source Section

NE_Specific

intrThp3DeclinedContexts

Number of declined Interactive Class (Traffic Handling Priority 3) PDP contexts.

Data Source

GGSN

Source Field

QOSG065

Source Section

NE_Specific

intrThp3DIKBytes

GCN46 Amount of downlink Interactive Class (Traffic Handling Priority 3) traffic.

Data Source

GGSN

Source Field

QOSG025

Source Section

NE_Specific

intrThp3DroppedDIKBytes

Amount of dropped downlink Interactive Class (Traffic Handling Priority 3) traffic.

Data Source

GGSN

Source Field

QOSG045

Source Section

NE_Specific

intrThp3UIKBytes

Amount of uplink Interactive Class (Traffic Handling Priority 3) traffic.

Data Source

GGSN

Source Field

QOSG035

Source Section

NE_Specific

ipInDiscards

Number of input IP data grams for which no problems were encountered that prevented their further processing, but which were discarded nevertheless.

Data Source

GGSN

Source Field

IP008

Source Section

NE_Specific

ipInReceives

Total number of received IP packets for all GGSNs.

Data Source

GGSN

Source Field

IP003

Source Section

NE_Specific

ipOutDiscards

Number of output IP data grams for which no problems were encountered that prevented their transmission to destination, but which were discarded nevertheless.

Data Source

GGSN

Source Field

IP011

Source Section

NE_Specific

PERLENSEC

Measurement collection interval (in seconds)

statCdrCreated

Total number of CDRs created by the GGSN.

Data Source

GGSN

Source Field

CDRG004

Source Section

NE_Specific

statCdrCreatedHotbilling

The total number of created hot billing CDRs by GGSN.

Data Source

GGSN

Source Field

CDRG012

Source Section

NE_Specific

statCdrCreatedPrepaid

Number of prepaid CDRs created for the GGSN.

Data Source

GGSN

Source Field

CDRG010

Source Section

NE_Specific

statCdrDiscarded

Total number of CDRs discarded by the GGSN.

Data Source

GGSN

Source Field

CDRG005

Source Section

NE_Specific

statCdrDiscardedAverage

Average percentage of discarded CDRs for the created CDRs for the GGSN.

Data Source

GGSN

Source Field

CDRG008

Source Section

NE_Specific

statCdrOutLen

Current length of the CDR output queue per GGSN.

Data Source

GGSN

Source Field

CDRG003

Source Section

NE_Specific

statCdrOutLenUsed

Average percentage of the CDR output queue length for the GGSN.

Data Source

GGSN

Source Field

CDRG007

Source Section

NE_Specific

statCdrResendings

Total number of CDRs resent by the GGSN.

Data Source

GGSN

Source Field

CDRG006

Source Section

NE_Specific

statCdrResendingsAverage

Average percentage of CDRs resent of the created CDRs for the GGSN.

Data Source

GGSN

Source Field

CDRG009

Source Section

NE_Specific

statCPULoad

Current CPU load of the GGSN.

Data Source

GGSN

Source Field

STAT001

Source Section

NE_Specific

statGtpDroppedPackets

Number of dropped GTP data packets per GGSN.

Data Source

GGSN

Source Field

STAT011

Source Section

NE_Specific

statInGtpErrors

Total number of erroneous GTP data packets per GGSN.

Data Source

GGSN

Source Field

STAT002

Source Section

NE_Specific

streamActiveContexts

Number of active Streaming Class PDP contexts.

Data Source

GGSN

Source Field

QOSG052

Source Section

NE_Specific

streamDeclinedContexts

Number of declined Streaming Class PDP contexts.

Data Source

GGSN

Source Field

QOSG062

Source Section

NE_Specific

streamDIKBytes

Amount of downlink Streaming Class traffic.

Data Source

GGSN

Source Field

QOSG022

Source Section

NE_Specific

streamDroppedDIKBytes

Amount of dropped downlink Streaming Class traffic.

Data Source

GGSN

Source Field

QOSG042

Source Section

NE_Specific

streamUIKBytes

Amount of uplink Streaming Class traffic.

Data Source

GGSN

Source Field

QOSG032

Source Section

NE_Specific

Interface Primitive Calculations

The following is a list of primitive calculations for the Interface entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

IfAccuracy

Interface accuracy can be expressed by the ratio of the packets that does not result in an error to the total packets

Calculation

```
(vsum(100,-1 * ifInErrors,0) * 100.0) / (1.0 * vsum(ifInUcastPkts,ifInNU-  
castPkts,0))
```

IfInDiscardRate

Rate of incoming packets discarded on an interface

Calculation

```
(ifInDiscards * 100.0) / (1.0 * vsum(ifInUcastPkts,ifInMulticastPkts,ifIn-  
BroadcastPkts,ifInDiscards,ifInErrors,0))
```

IfInErrorsRate

Ratio of incoming erroneous packets to total packets

Calculation

```
(ifInErrors * 100.0) / (1.0 * vsum(ifInUcastPkts,ifInMulticastPkts,ifIn-  
BroadcastPkts,ifInDiscards,ifInErrors,0))
```

IfOutDiscardRate

Rate of outgoing packets discarded on an interface

Calculation

```
(ifOutDiscards * 100.0) / (1.0 * vsum(ifOutUcastPkts,ifOutMulticastP-  
kts,ifOutBroadcastPkts,ifOutDiscards,ifOutErrors,0))
```

IfOutErrorsRate

Rate of outgoing erroneous packets

Calculation

```
(ifOutErrors * 100.0) / (1.0 * vsum(ifOutUcastPkts,ifOutMulticastP-  
kts,ifOutBroadcastPkts,ifOutDiscards,ifOutErrors,0))
```

InterfaceGOS

Dimensioned Grade of Service

Calculation

NUMDAYS

of days in Report

Calculation

```
DAYSINREPORT()
```

NUMHOURS

of hours in Summation Data

Calculation

Interface Peg Counts

The following is a list of peg counts for the Interface entity.

GGSN_Release

GGSN Release

ifAdminStatus

The desired state of the interface.

ifInBroadcastPkts

The number of packets, delivered by this sub-layer to a higher (sub) layer, which were addressed to a broadcast address at this sub-layer.

Data Source

GGSN

Source Field

IPX03

Source Section

Interface

ifInDiscards

Number of inbound packets that were chosen to be discarded.

Data Source

GGSN

Source Field

IF013

Source Section

Interface

ifInErrors

Number of inbound packets with errors found.

Data Source

GGSN

Source Field

IF014

Source Section

Interface

iflnMulticastPkts

The number of packets, delivered by this sub-layer to a higher (sub) layer, which were addressed to a multicast address at this sub-layer.

Data Source

GGSN

Source Field

IPX02

Source Section

Interface

iflnNUcastPkts

Number of non-unicast (sub network broadcast or sub network multicast) packets delivered to a higher-layer protocol.

Data Source

GGSN

Source Field

IF012

Source Section

Interface

iflnOctets

Total number of octets traffic received per interface.

Data Source

GGSN

Source Field

IF010

Source Section

Interface

ifInUcastPkts

Number of sub network uni cast packets delivered to a higher-layer protocol.

Data Source

GGSN

Source Field

IF011

Source Section

Interface

ifOperStatus

Current operational state of the interface.

ifOutBroadcastPkts

The total number of packets that higher-level protocols requested be transmitted, and which were addressed to a broadcast address at this sub-layer, including those that were discarded or not sent.

Data Source

GGSN

Source Field

IPX05

Source Section

Interface

ifOutDiscards

Number of outbound packets that were chosen to be discarded.

Data Source

GGSN

Source Field

IF019

Source Section

Interface

ifOutErrors

Number of outbound packets that have not been transmitted due to errors.

Data Source

GGSN

Source Field

IF020

Source Section

Interface

ifOutMulticastPkts

The total number of packets that higher-level protocols requested be transmitted, and which were addressed to a multicast address at this sub-layer, including those that were discarded or not sent.

Data Source

GGSN

Source Field

IPX04

Source Section

Interface

ifOutNUcastPkts

Total number of packets that higher-level protocols requested to be transmitted to a non-unicast (sub network broadcast or sub network multicast) address, including those that were discarded or not sent.

Data Source

GGSN

Source Field

IF018

Source Section

Interface

ifOutOctets

Total number of octets traffic sent per interface.

Data Source

GGSN

Source Field

IF016

Source Section

Interface

ifOutUcastPkts

Number of packets that higher-level protocols requested to be transmitted to a sub network unicast address, including those that were discarded or not sent.

Data Source

GGSN

Source Field

IF017

Source Section

Interface

ifSpeed

An estimate of the interfaces current bandwidth in bits per second.

PERLENSEC

Measurement collection interval (in seconds)

System Primitive Calculations

The following is a list of primitive calculations for the System entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

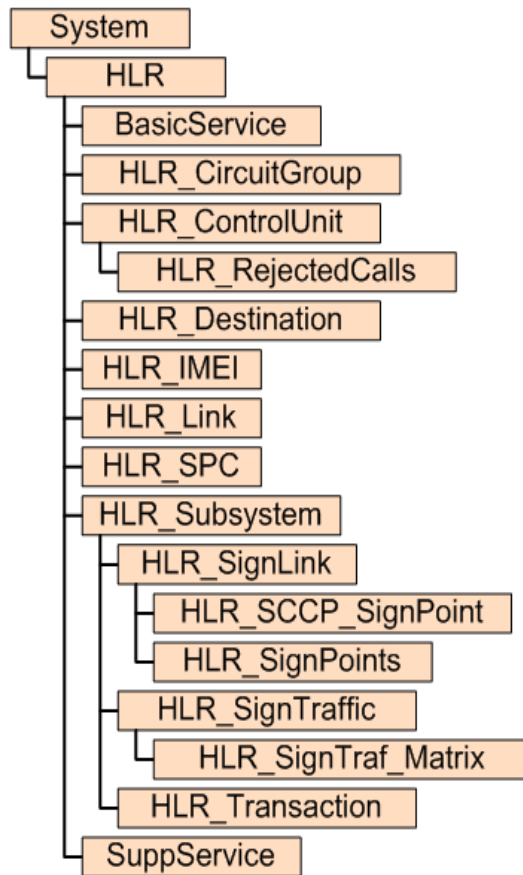
NUMHOURS

of hours in Summation Data

5 HLR Traffic Entities

The following figure shows the Prospect reporting hierarchy for HLR traffic entities.

Figure 2: Reporting Hierarchy



PERFORMANCE DATA REFERENCE
IBM Prospect 8.0 for Nokia GSM/GPRS

6 HLR Traffic Fields

The following is a list of available HLR Traffic performance data fields.

BasicService Primitive Calculations

The following is a list of primitive calculations for the BasicService entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

BasicService Peg Counts

The following is a list of peg counts for the BasicService entity.

HLR_COUNT

Number of basic services activated. This counter is not used when the basic service is unknown.

Data Source

HLR

HLR_SRIATTEMPT

Number of received SRI for a specific basic service in the HLR during the measurement period. This counter is updated when the user exists in the database and the basic service is provisioned.

Data Source

HLR

HLR_SRISUCC

Number of successfully answered SRI for a specific basic service in HLR during the measurement period. This counter is not used when the basic service is unknown.

Data Source

HLR

HLRRelease

HLR Release

Data Source

HLR

PERLENSEC

Measurement collection interval (in seconds)

Data Source

HLR

HLR Primitive Calculations

The following is a list of primitive calculations for the HLR entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

" "

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR Peg Counts

The following is a list of peg counts for the HLR entity.

ABORT_RXED_BADLY_FORMATTED_TAP

Protocol error in transaction portion (abort received) - badly formatted transaction portion (14.1c in ITU-T Q.752)

Data Source

HLR

ABORT_RXED_INCOR_TRANSACT_PORT

Protocol error in transaction portion (abort received) - incorrect transaction portion (14.1b in ITU-T Q.752)

Data Source

HLR

ABORT_RXED_RESOURCE_LIMITATION

Protocol error in transaction portion - (abort received) - resource limitation (14.1e in ITU-T Q.752)

Data Source

HLR

ABORT_RXED_UNREC_MESSAGE_TYPE

Protocol error in transaction portion (abort received) - unrecognized message type (14.1a in ITU-T Q.752)

Data Source

HLR

ABORT_RXED_UNREC_TRANSACTION_ID

Protocol error in transaction portion (abort received) - unrecognized transaction identifier(14.1d in ITU-T Q.752)

Data Source

HLR

ABORT_SENT_BADLY_FORMATTED_TAP

Protocol error in transaction portion (abort sent) - badly formatted transaction portion (14.4c in ITU-T Q.752)

Data Source

HLR

ABORT_SENT_INCOR_TRANSACTION_PORT

Protocol error in transaction portion (abort sent) - incorrect transaction portion (14.4b in ITU-T Q.752)

Data Source

HLR

ABORT_SENT_RESOURCE_LIMITATION

Protocol error in transaction portion (abort sent) - resource limitation (14.4e in ITU-T Q.752)

Data Source

HLR

ABORT_SENT_UNREC_MESSAGE_TYPE

Protocol error in transaction portion (abort sent) - unrecognized message type (14.4a in ITU-T Q.752)

Data Source

HLR

ABORT_SENT_UNREC_TRANSACT_ID

Protocol error in transaction portion (abort sent) - unrecognized transaction identifier (14.4d in ITU-T Q.752)

Data Source

HLR

ERRORS_IN_TRANSACTION_PORTION

Number of errors detected in transaction portion (14.12 in ITU-T Q.752)

Data Source

HLR

HLR_CALLHANDLING

Database transaction related to incoming call handling, such as fetching and updating the subscriber data. In mobile-terminating call, the counter is increased by one.

Data Source

HLR

HLR_CSIACTIVESUBSCRIBERCOUNT

Number of subscribers having at least one CAMEL Subscription Information active.

Data Source

HLR

HLR_GENHLRSS_NUMBEROFANSWHLRUS

Number of HLRUs which responded to inquiry. This number can be different from the NUMBEROF HLRUS in the case when some of the HLRUs are temporarily out of order or they are overloaded. The field has effect on the rest of the report

Data Source

HLR

HLR_GENHLRSS_NUMBEROFHLRUS

Total number of HLRU pairs in HLR.

Data Source

HLR

HLR_GPRSSUBSCRIBERCOUNT

Number of GPRS subscribers, who have at least one PDP context defined in the HLR.

Data Source

HLR

HLR_HOMENORMALSUBSLUTOTALFAIL

Total number of failed location updates by home subscribers during the measurement period.
The number does not include location updates within the same VLR.

Data Source

HLR

HLR_HOMENORMALSUBSLUTOTALSUCC

Total number of successful location updates by home subscribers during the measurement period. The number does not include location updates within the same VLR.

Data Source

HLR

HLR_HOMESUBSCRIBERSRETURNSUCC

Number of successful location updates by home subscribers returning from other PLMNs during the measurement period.

Data Source

HLR

HLR_HOMESUBSCRIBERSVISITESUCC

Number of successful location updates of home subscribers going to other PLMNs during the measurement period.

Data Source

HLR

HLR_LCSSUBSCRIBERCOUNT

Number of subscribers that have at least one location service class provisioned.

Data Source

HLR

HLR_MISSINGDATAHLRU0VALUEIS1

If a message (data) from some HLRUs is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

HLR_MISSINGDATAHLRU10VALUEIS1

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

HLR_MISSINGDATAHLRU11VALUEIS1

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

HLR_MISSINGDATAHLRU12VALUEIS1

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

HLR_MISSINGDATAHLRU13VALUEIS1

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

HLR_MISSINGDATAHLRU14VALUEIS1

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

HLR_MISSINGDATAHLRU15VALUEIS1

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

HLR_MISSINGDATAHLRU1VALUEIS1

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

HLR_MISSINGDATAHLRU2VALUEIS1

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

HLR_MISSINGDATAHLRU3VALUEIS1

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

HLR_MISSINGDATAHLRU4VALUEIS1

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

HLR_MISSINGDATAHLRU5VALUEIS1

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

HLR_MISSINGDATAHLRU6VALUEIS1

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

HLR_MISSINGDATAHLRU7VALUEIS1

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

HLR_MISSINGDATAHLRU8VALUEIS1

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

HLR_MISSINGDATAHLRU9VALUEIS1

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

HLR_MOBILITYMANAGEMENT

Database transactions related to subscriber mobility. In a subscriber location update the counter is increased by one.

Data Source

HLR

HLR_NORMALGPRSLUATTEMPT

Number of requested Location Registrations (UpdateLocationForGPRS MAP operation) sent by SGSNs during the measurement period. These events are not included in the former normal LU counters. Only those location registrations are shown here which can be seen in the HLR.

Data Source

HLR

HLR_NORMALGPRSLUSUCC

Number of successful Location Registration (UpdateLocationForGPRS_ACK MAP operation) responses sent to SGSNs during the measurement period. These events are not included in the former normal LU counters. Only those location registrations are shown here which can be seen in the HLR.

Data Source

HLR

HLR_NUMBEROFANSWHLRUS

Number of HLRUs which responded to inquiry. This number can be different from the NUMBER OF HLRUS in the case when some of the HLRUs are temporarily out of order or they are overloaded. The field has effect on the rest of the report

Data Source

HLR

HLR_NUMBEROFHLRUS

Total number of HLRU pairs in the HLR.

Data Source

HLR

HLR_OCCBSACTIVATEDBYUSER

When subscriber A encounters a Network Determined User Busy (NDUB) destination B, subscriber A requests the CCBS supplementary service. The network will then monitor the wanted destination B for becoming idle.

Data Source

HLR

HLR_OCCBSCOUNT

Number of OCCBS services provisioned.

Data Source

HLR

HLR_OCCBSDEACTIVATEDBYMML

Number of originating CCBS services deactivated by MML

Data Source

HLR

HLR_OCCBSDEACTIVATEDBYRECALL

Subscriber A accepts the CCBS recall before the CCBS recall timer expires.

Data Source

HLR

HLR_OCCBSDEACTIVATEDBYSYSTEM

Number of originating CCBS services deactivated by SYSTEM

Data Source

HLR

HLR_OCCBSDEACTIVATEDBYUSER

After CCBS-Request is running in the HLR, it is possible to deactivate it. CCBS Mobiles support functional supplementary service procedures to deactivate CCBS. With non- CCBS Mobiles deactivation is not possible.

Data Source

HLR

HLR_OCCBSINQUIRYBYUSER

After CCBS-Request is running in the HLR, it is possible to interrogate it. CCBS Mobiles support functional supplementary service procedures to interrogate CCBS. With non- CCBS Mobiles inquiry is not possible.

Data Source

HLR

HLR_RESTARTINHLRUIFVALUEIS1

This field indicates that duplex restart occurred in HLRU(s) during the measurement. The counters are unreliable. The field has effect on all report parts.

Data Source

HLR

HLR_RESTARTINSTUIFVALUEIS1

This field indicates that duplex restart occurred in STU(s) during the measurement. The counters are unreliable. The field has effect on all report part.

Data Source

HLR

HLR_TCCBSACTIVATEDBYSYSTEM

When subscriber A encounters a Network Determined User Busy (NDUB) destination B, system requests the CCBS supplementary service for subscriber B.

Data Source

HLR

HLR_TCCBSCOUNT

Number of TCCBS services provisioned

Data Source

HLR

HLR_TCCBSDEACTIVATEDBYMML

Number of terminating CCBS services deactivated by MML

Data Source

HLR

HLR_TCCBSDEACTIVATEDBYRECALL

Subscriber B answers to the generated CCBS recall before the CCBS recall timer expires.

Data Source

HLR

HLR_TCCBSDEACTIVATEDBYSYSTEM

Number of terminating CCBS services deactivated by SYSTEM

Data Source

HLR

HLR_UNKNOWNSRIATTEMPT

Number of SRI attempts when there is no provisioned basic service for the MSISDN (received in SRI) or the database reading has failed (in these cases the Basic Service code is not known). These are always unsuccessful SRI operations. (Note: this counter doesnt covers those SRI attempts when the subscriber is unknown in the HLR database)

Data Source

HLR

HLR_USEDSPACE

The filling rate of the HLR database is calculated as the average of the operative HLRU pairs. For each HLRU, the essential file with the highest filling rate is included in the calculation.

Data Source

HLR

HLRRelease

HLR Release

Data Source

HLR

HOP_COUNTER_VIOLATIONS

Hop counter violation (7.13 in ITU-T Q.752)

Data Source

HLR

MESSAGES_DISCARDED

Number of messages discarded (14.8 in ITU-T Q.752)

Data Source

HLR

MISSINGDATAFROMACU0IFVALIS_1

Data is missing from the ACU with identity 0.

Data Source

HLR

MISSINGDATAFROMACU10IFVALIS_1

Data is missing from the ACU with identity 10

Data Source

HLR

MISSINGDATAFROMACU11IFVALIS_1

Data is missing from the ACU with identity 11

Data Source

HLR

MISSINGDATAFROMACU12IFVALIS_1

Data is missing from the ACU with identity 12

Data Source

HLR

MISSINGDATAFROMACU13IFVALIS_1

Data is missing from the ACU with identity 13

Data Source

HLR

MISSINGDATAFROMACU14IFVALIS_1

Data is missing from the ACU with identity 14

Data Source

HLR

MISSINGDATAFROMACU15IFVALIS_1

Data is missing from the ACU with identity 15

Data Source

HLR

MISSINGDATAFROMACU1IFVALIS_1

Data is missing from the ACU with identity 1.

Data Source

HLR

MISSINGDATAFROMACU2IFVALIS_1

Data is missing from the ACU with identity 2.

Data Source

HLR

MISSINGDATAFROMACU3IFVALIS_1

Data is missing from the ACU with identity 3.

Data Source

HLR

MISSINGDATAFROMACU4IFVALIS_1

Data is missing from the ACU with identity 4.

Data Source

HLR

MISSINGDATAFROMACU5IFVALIS_1

Data is missing from the ACU with identity 5.

Data Source

HLR

MISSINGDATAFROMACU6IFVALIS_1

Data is missing from the ACU with identity 6.

Data Source

HLR

MISSINGDATAFROMACU7IFVALIS_1

Data is missing from the ACU with identity 7.

Data Source

HLR

MISSINGDATAFROMACU8IFVALIS_1

Data is missing from the ACU with identity 8.

Data Source

HLR

MISSINGDATAFROMACU9IFVALIS_1

Data is missing from the ACU with identity 9

Data Source

HLR

MISSINGDATAFROMHLR0IFVALUEIS1_HLRSS

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR0IFVALUEIS1_HLRVLR

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR0IFVALUEIS1_SGSNH

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR10IFVALUEIS1_HLRSS

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR10IFVALUEIS1_HLRVLR

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR10IFVALUEIS1_SGSNH

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR11IFVALUEIS1_HLRSS

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR11IFVALUEIS1_HLRVLR

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR11IFVALUEIS1_SGSNH

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR12IFVALUEIS1_HLRSS

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR12IFVALUEIS1_HLRVLR

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR12IFVALUEIS1_SGSNH

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR13IFVALUEIS1_HLRSS

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR13IFVALUEIS1_HLRVLR

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR13IFVALUEIS1_SGSNH

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR14IFVALUEIS1_HLRSS

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR14IFVALUEIS1_HLRVLR

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR14IFVALUEIS1_SGSNH

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR15IFVALUEIS1_HLRSS

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR15IFVALUEIS1_HLRVLR

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR15IFVALUEIS1_SGSNH

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR1IFVALUEIS1_HLRSS

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR1IFVALUEIS1_HLRVLR

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR1IFVALUEIS1_SGSNH

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR2IFVALUEIS1_HLRSS

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR2IFVALUEIS1_HLRVLR

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR2IFVALUEIS1_SGSNH

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR3IFVALUEIS1_HLRSS

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR3IFVALUEIS1_HLRVLR

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR3IFVALUEIS1_SGSNH

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR4IFVALUEIS1_HLRSS

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR4IFVALUEIS1_HLRVLR

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR4IFVALUEIS1_SGSNH

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR5IFVALUEIS1_HLRSS

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR5IFVALUEIS1_HLRVLR

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR5IFVALUEIS1_SGSNH

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR6IFVALUEIS1_HLRSS

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR6IFVALUEIS1_HLRVLR

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR6IFVALUEIS1_SGSNH

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR7IFVALUEIS1_HLRSS

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR7IFVALUEIS1_HLRVLR

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR7IFVALUEIS1_SGSNH

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR8IFVALUEIS1_HLRSS

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR8IFVALUEIS1_HLRVLR

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR8IFVALUEIS1_SGSNH

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR9IFVALUEIS1_HLRSS

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR9IFVALUEIS1_HLRVLR

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MISSINGDATAFROMHLR9IFVALUEIS1_SGSNH

If a message (data) from some HLRU is missing, the identity of the HLRU is shown in the list. It is possible that the NUMBER OF ANSWERED HLRUS equals with the NUMBER OF HLRUS but this field shows some missing data. The field has effect on the rest of the report.

Data Source

HLR

MSGSG_REQ_GTT_FROM_LOCAL_SUBSYS

Messages requiring GT translation from local subsystem

Data Source

HLR

MSGSG_REQ_GTT_TO_LOCAL_SUBSYS

Messages requiring GT translation to local subsystem

Data Source

HLR

NUMBEROFACUS

Number of installed ACUs in HLR.

Data Source

HLR

NUMBEROFANSWACUS

Number of ACUs, which responded to inquiry. This number can be different from the NUMBER OF ACUS in the case when some of the ACUs are temporarily out of order or they are overloaded.

Data Source

HLR

NUMBEROFANSWEREDHLRUS_HLRVLR

Number of HLRUs which responded to inquiry. This number can be different from the NUMBEROF HLRUS in the case when some of the HLRUs are temporarily out of order or they are overloaded. The field has effect on the rest of the report

Data Source

HLR

NUMBEROFANSWEREDHLRUS_SGSNH

Number of HLRUs which responded to inquiry. This number can be different from the NUMBER OF HLRUS in the case when some of the HLRUs are temporarily out of order or they are overloaded. The field has effect on the rest of the report

Data Source

HLR

NUMBEROFHLRUS_HLRVLR

Total number of HLRU pairs in HLR.

Data Source

HLR

NUMBEROFHLRUS_SGSNH

Total number of HLRU pairs in HLR.

Data Source

HLR

OVERFLOW_REQUESTS

The number of device requests in case of overflow. This field is displayed only if, during the measurement, requests of more than 200 devices have been made. The measurement

Data Source

HLR

PERLENSEC

Measurement collection interval (in seconds)

Data Source

HLR

PROVIDER_ABORTS_RECEIVED

Number of provider aborts received (14.10 in ITU-T Q.752)

Data Source

HLR

REASS_ERRORS_NO_REASS_SPACE

Reassembly error - No reassembly space (7.12 in ITU-T Q.752)

Data Source

HLR

REASS_ERRORS_REASSEMBLY_FAILED

Reassembly error - Reassembly failed (7.21 in ITU-T Q.752)

Data Source

HLR

REASS_ERRORS_SEGM_OUT_OF_SEQ

Reassembly error - Segment received out of sequence (7.11 in ITU-T Q.752)

Data Source

HLR

REASS_ERRORS_TIMER_EXPIRES

Reassembly error - Timer T(reass) expiry (7.10 in ITU-T Q.752)

Data Source

HLR

REJ_ERROR_FOUND

Tag appears at the end of the given counter group with field value 244 if an unexpected error situation has occurred.

Data Source

HLR

REJ_EXCHG_INC

The total sum of rejected incoming service requests (0...999999999) at the ticket service of all the signalling units of the exchange regardless of the computer units that have been under observation.

Data Source

HLR

REJ_EXCHG_INC_PERCENTX10

The ticket service rejection percentage (0.0...100.0) of all the signalling units of the exchange regardless of the computer units that have been under observation.

Data Source

HLR

REJ_EXCHG_OUTGOING

The number of rejected service requests (0...999999999) that have exceeded the higher rejection limit of the message buffer on the outgoing side. The number of rejected service requests that have exceeded the higher rejection limit of the CPU load on the incoming side.

Data Source

HLR

REJ_NO_RESP_FROM_LRMPRO

Tag appears at the end of the given counter group with field value 242 if the signalling unit has not sent the required information for the following exchange-related counters:
REJ_EXCHG_INC, REJ_EXCHG_INC_PERCENT*10, REJ_EXCHG_OUTGOING.

Data Source

HLR

REJ_NO_RESP_FROM_SIGNPRB

Tag appears at the end of the given counter group with field value 243 if the required information has not been received from the signalling process family that provides counters of the measured object.

Data Source

HLR

REJ_OBSERV_RESTARTED

Tag appears at the end of the given counter group with field value 16 if the signalling unit has not responded during the previous results accumulation period. Therefore, the observation has been restarted during the current results accumulation period. The counters is printed out during the following period.

Data Source

HLR

REJ_REPORT_INQUIRY_FAIL

Tag appears at the end of the given counter group with field value 241 if only part of the required information is received from the signalling process family that provides the counters of the measured object.

Data Source

HLR

REJECT_RXED_BADLY_STRUCT_COMP

Protocol error in comp. portion (reject rec.)- problem code: badly structured component (14.2c in ITU-T Q.752)

Data Source

HLR

REJECT_RXED_DUPLIC_INVOKE_ID

TC user generated problem (Reject received) - duplicate invoke id. (14.3a in ITU-T Q.752)

Data Source

HLR

REJECT_RXED_INITIATING_RELEASE

TC user generated problem (Reject received) - initiating release (14.3e in ITU-T Q.752)

Data Source

HLR

REJECT_RXED_LINKED_RESP_UNEXP

TC user generated problem (Reject received) - linked response unexpected (14.3f in ITU-T Q.752)

Data Source

HLR

REJECT_RXED_MISTYPED_COMPONENT

Protocol error in comp. portion (reject rec.)- problem code: mistyped component (14.2b in ITU-T Q.752)

Data Source

HLR

REJECT_RXED_MISTYPED_PARAM_RE

TC user generated problem (Reject received) - mistyped parameter (RE) (14.3k in ITU-T Q.752)

Data Source

HLR

REJECT_RXED_MISTYPED_PARAM_RR

TC user generated problem (Reject received) - mistyped parameter (RR) (14.3j in ITU-T Q.752)

Data Source

HLR

REJECT_RXED_MISTYPED_PARAMETER

TC user generated problem (Reject received) - mistyped parameter (14.3c in ITU-T Q.752)

Data Source

HLR

REJECT_RXED_RESOURCE_LIMITAT

TC user generated problem (Reject received) - resource limitation (14.3d in ITUT Q.752)

Data Source

HLR

REJECT_RXED_RETURN_ERROR_UNEXP

Protocol error in comp. portion (reject rec.)-problem code: return error unexpected (14.2h in ITU-T Q.752)

Data Source

HLR

REJECT_RXED_RETURN_RESULT_UNEX

Protocol error in comp. portion (reject rec.)-problem code: return result unexpected (14.2f in ITU-T Q.752)

Data Source

HLR

REJECT_RXED_UNEXP_LINKED_OPER

TC user generated problem (Reject received) - unexpected linked operation (14.3g in ITU-T Q.752)

Data Source

HLR

REJECT_RXED_UNEXPECTED_ERROR

TC user generated problem (Reject received) - unexpected error (14.3i in ITU-T Q.752)

Data Source

HLR

REJECT_RXED_UNREC_COMPONENT

Protocol error in comp. portion (reject rec.)- problem code: unrecognized component (14.2a in ITU-T Q.752)

Data Source

HLR

REJECT_RXED_UNREC_INVOKE_ID_RE

Protocol error in comp. portion (reject rec.)-problem code: unrecognized invoke id. (RE) (14.2g in ITU-T Q.752)

Data Source

HLR

REJECT_RXED_UNREC_INVOKE_ID_RR

Protocol error in comp. portion (reject rec.)-problem code: unrecognized invoke id. (RR) (14.2e in ITU-T Q.752)

Data Source

HLR

REJECT_RXED_UNREC_LINKED_ID

Protocol error in comp. portion (reject rec.)- problem code: unrecognized linked id. (14.2d in ITU-T Q.752)

Data Source

HLR

REJECT_RXED_UNREC_OPERATION

TC user generated problem (Reject received) - unrecognized operation (14.3b in ITU-T Q.752)

Data Source

HLR

REJECT_RXED_UNRECOGNIZED_ERROR

TC user generated problem (Reject received) - unrecognized error (14.3h in ITU-T Q.752)

Data Source

HLR

REJECT_SENT_BADLY_STRUCT_COMP

Protocol error in comp. portion (reject sent)- problem code: badly structured component (14.5c in ITU-T Q.752)

Data Source

HLR

REJECT_SENT_DUPLIC_INVOKE_ID

TC user generated problem (Reject sent) - duplicate invoke id. (14.6a in ITU-T Q.752)

Data Source

HLR

REJECT_SENT_INITIATING_RELEASE

TC user generated problem (Reject sent) - initiating release (14.6e in ITU-T Q.752)

Data Source

HLR

REJECT_SENT_LINKED_RESP_UNEXP

TC user generated problem (Reject sent) - linked response unexpected (14.6f in ITU-T Q.752)

Data Source

HLR

REJECT_SENT_MISTYPED_COMPONENT

Protocol error in comp. portion (reject sent)- problem code: mistyped component (14.5b in ITU-T Q.752)

Data Source

HLR

REJECT_SENT_MISTYPED_PARAM_RE

TC user generated problem (Reject sent) - mistyped parameter (RE) (14.6k in ITU-T Q.752)

Data Source

HLR

REJECT_SENT_MISTYPED_PARAM_RR

TC user generated problem (Reject sent) - mistyped parameter (RR) (14.6j in ITU-T Q.752)

Data Source

HLR

REJECT_SENT_MISTYPED_PARAMETER

TC user generated problem (Reject sent) - mistyped parameter (14.6c in ITU-T Q.752)

Data Source

HLR

REJECT_SENT_RESOURCE_LIMITAT

TC user generated problem (Reject sent) - resource limitation (14.6d in ITU-T Q.752)

Data Source

HLR

REJECT_SENT_RETURN_ERROR_UNEXP

Protocol error in comp. portion (reject sent)-problem code: return error unexpected (14.5h in ITU-T Q.752)

Data Source

HLR

REJECT_SENT_RETURN_RESULT_UNEX

Protocol error in comp. portion (reject sent)-problem code: return result unexpected (14.5f in ITU-T Q.752)

Data Source

HLR

REJECT_SENT_UNEXP_LINKED_OPER

TC user generated problem (Reject sent) - unexpected linked operation (14.6g in ITU-T Q.752)

Data Source

HLR

REJECT_SENT_UNEXPECTED_ERROR

TC user generated problem (Reject sent) - unexpected error (14.6i in ITU-T Q.752)

Data Source

HLR

REJECT_SENT_UNREC_COMPONENT

Protocol error in comp. portion (reject sent)- problem code: unrecognized component (14.5a in ITU-T Q.752)

Data Source

HLR

REJECT_SENT_UNREC_INVOKE_ID_RE

Protocol error in comp. portion (reject sent)-problem code: unrecognized invoke id. (RE) (14.5g in ITU-T Q.752)

Data Source

HLR

REJECT_SENT_UNREC_INVOKE_ID_RR

Protocol error in comp. portion (reject sent)-problem code: unrecognized invoke id. (RR) (14.5e in ITU-T Q.752)

Data Source

HLR

REJECT_SENT_UNREC_LINKED_ID

Protocol error in comp. portion (reject sent)-problem code: unrecognized linked id. (14.5d in ITU-T Q.752)

Data Source

HLR

REJECT_SENT_UNREC_OPERATION

TC user generated problem (Reject sent) - unrecognized operation (14.6b in ITU-T Q.752)

Data Source

HLR

REJECT_SENT_UNRECOGNIZED_ERROR

TC user generated problem (Reject sent) - unrecognized error (14.6h in ITU-T Q.752)

Data Source

HLR

REJECTS_RECEIVED

Number of rejects received (14.11 in ITU-T Q.752)

Data Source

HLR

RESTARTINACUIFVALUEIS_1

This field indicates that duplex restart occurred in ACU(s) during the measurement. The counters are unreliable. The field has effect on all report parts. This counter has value 1 in XML report only in case of missing data and it is not sent at all if no restart occurred in ACU(s) during the measurement. The text appears in ASCII report only in case of missing data.

Data Source

HLR

RESTARTINHLRU_HLRVLR

This field indicates that duplex restart occurred in HLRU(s) during the measurement. The counters are unreliable. The field has effect on all report parts.

Data Source

HLR

RESTARTINHLRU_SGSNH

This field indicates that duplex restart occurred in HLRU(s) during the measurement. The counters are unreliable. The field has effect on all report parts.

Data Source

HLR

RESTARTINHLRUIFVALUEIS1

This field indicates that duplex restart occurred in HLRU(s) during the measurement. The counters are unreliable. The field has effect on all report parts.

Data Source

HLR

RESTARTINSTU_HLRVLR

This field indicates that duplex restart occurred in STU(s) during the measurement. The counters are unreliable. The field has effect on all report part.

Data Source

HLR

RESTARTINSTU_SGSNH

This field indicates that duplex restart occurred in STU(s) during the measurement. The counters are unreliable. The field has effect on all report part.

Data Source

HLR

RESTARTINSTUIFVALUEIS_1

This field indicates that duplex restart occurred in STU(s) during the measurement. The counters are unreliable. The field has effect on all report parts. This counter has value 1 in XML report only in case of missing data and it is not sent at all if no restart occurred in STU(s) during the measurement. The text appears in ASCII report only in case of missing data.

Data Source

HLR

RESTARTINSTUIFVALUEIS1

This field indicates that duplex restart occurred in STU(s) during the measurement. The counters are unreliable. The field has effect on all report part.

Data Source

HLR

RXED_TC_ABORT_MESSAGES

Number of received ABORT messages (13.2 in ITU-T Q.752)

Data Source

HLR

RXED_TC_BEGIN_MESSAGES

Number of received BEGIN messages (13.2 in ITU-T Q.752)

Data Source

HLR

RXED_TC_COMPONENTS

Number of received TC components (13.4 in ITU-T Q.752)

Data Source

HLR

RXED_TC_CONTINUE_MESSAGES

Number of received CONTINUE messages (13.2 in ITU-T Q.752)

Data Source

HLR

RXED_TC_END_MESSAGES

Number of received END messages (13.2 in ITU-T Q.752)

Data Source

HLR

RXED_TC_UNIDIRECTIONAL_MSGS

Number of received UNIDIRECTIONAL messages (13.2 in ITU-T Q.752)

Data Source

HLR

SCCP_MSGS_FROM_LOCAL_SUBSYSTEM

Processed SCCP messages from local subsystem

Data Source

HLR

SCCP_MSGS_TO_LOCAL_SUBSYSTEM

Processed SCCP messages to local subsystem

Data Source

HLR

SCCP_STP_MESSAGES_HANDLED

Processed STP messages

Data Source

HLR

SCCP_STP_MSGS_REQUIRING_GTT

STP messages requiring GT translation

Data Source

HLR

SEGM_ERRORS_SEGM_NOT_SUPPORTED

Segmentation error - Segmenting not supported (7.19 in ITU-T Q.752)

Data Source

HLR

SEGM_ERRORS_SEGMENTATION_FAIL

Segmentation error - Segmentation failed (7.20 in ITU-T Q.752)

Data Source

HLR

SENT_TC_ABORT_MESSAGES

Number of transmitted ABORT messages (13.1 in ITU-T Q.752)

Data Source

HLR

SENT_TC_BEGIN_MESSAGES

Number of transmitted BEGIN messages (13.1 in ITU-T Q.752)

Data Source

HLR

SENT_TC_COMPONENTS

Number of transmitted TC components (13.3 in ITU-T Q.752)

Data Source

HLR

SENT_TC_CONTINUE_MESSAGES

Number of transmitted CONTINUE messages (13.1 in ITU-T Q.752)

Data Source

HLR

SENT_TC_END_MESSAGES

Number of transmitted END messages (13.1 in ITU-T Q.752)

Data Source

HLR

SENT_TC_UNIDIRECTIONAL_MSGS

Number of transmitted UNIDIRECTIONAL messages (13.1 in ITU-T Q.752)

Data Source

HLR

TC_L_CANCEL_IND_FOR_CL_1_OPER

Number of TC_L_CANCEL indications for class 1 operations (14.7 in ITU-T Q.752)

Data Source

HLR

TOT_ENTRIES_ON_BLACK_LIST

The total number of individual devices and series of devices on the black list. The devices can be defined as series on the black list, in case of which more devices are displayed as one in the field.

Data Source

HLR

TOT_ENTRIES_ON_GREY_LIST

The total number of individual devices and series of devices on the black list. The devices can be defined as series on the black list, in case of which more devices are displayed as one in the field.

Data Source

HLR

TOT_REQUESTS_ON_BLACK_LIST

The total number of IMEI requests on black list made during the measurement.

Data Source

HLR

TOT_REQUESTS_ON_GREY_LIST

The total number of IMEI requests on grey list made during the measurement.

Data Source

HLR

TOTAL_MESSAGES_REQUIRING_GTT

Messages requiring GT translation, total (9.5 in ITU-T Q.752)

Data Source

HLR

TOTAL_RXED_TC_MESSAGES

Total number of TC messages received (13.2bis in ITU-T Q.752)

Data Source

HLR

TOTAL_SCCP_MESSAGES_HANDLED

Processed SCCP messages, total (9.3 in ITU-T Q.752)

Data Source

HLR

TOTAL_SENT_TC_MESSAGES

Total number of TC messages sent (13.1bis in ITU-T Q.752)

Data Source

HLR

TOTALAVERAGENBROFHOMESUBSCR

Average number of subscribers in one VLR during the measurement period. In the ASCII report the value can be marked with hashmark (#) if the counter is unreliable.

Data Source

HLR

TOTALCURRENTNBROFHOMESUBSCR

Total number of subscribers at the reporting moment

Data Source

HLR

TOTNUMBEROFANSWERED

The total number of answers received to the VLR/SGSN authentication vector requests.

Data Source

HLR

TOTNUMBEROFQUINTETS

The total number of transferred authentication quintets.

Data Source

HLR

TOTNUMBEROFREQ

The total number of authentication vector (triplets and quintets) requests. This field also contains the total number of synchronization requests.

Data Source

HLR

TOTNUMBEROFSYNCREQ

The total number of synchronization requests which can be sent when the mobile rejects the authentication because the sequence number is out of range

Data Source

HLR

TOTNUMBEROFTRIPLETS

The total number of transferred authentication triplets.

Data Source

HLR

TOTNUMBEROFUNKSUBS

The total number of unknown subscribers whose data was not found in the AC.

Data Source

HLR

UNK_EQUIP_REQUESTS

The number of IMEI requests made during the measurement of devices that cannot be found on any lists

Data Source

HLR

UNRELIABLETOTALAVERAGESUBSCR_HLRVLR

This counter can appear in the XML report with value 1 when any of the Average Number of Subscribers counters was unreliable (there were a VLR address cleaning in the HLR database during the measurement which causes a special problem in the procedure of the gathering average counters, however this is a rare situation) In the ASCII report it is marked with hashmark (#).

Data Source

HLR

USED_SPACE_IN_BLACK_DATABASE

The amount of space used by the BLACKLIST is the amount of space used by the object

Data Source

HLR

USED_SPACE_IN_GREY_DATABASE

The amount of space used by the GREYLIST is the amount of space used by the object

Data Source

HLR

USED_SPACE_IN_WHITE_DATABASE

The amount of space used by the WHITELIST is the amount of space used by the object

Data Source

HLR

USEDSPACEINDATABASE

The percentage of space used is the amount of space used in object database. NO RESPONSE is displayed in the ASCII report if no answer is received from the database.

Data Source

HLR

USER_INDEPENDENT_MESSAGES

Processed users independent SCCP messages

Data Source

HLR

WHITE_LIST_REQUESTS

The number of IMEI requests made of devices on the white list during the measurement

Data Source

HLR

HLR_CircuitGroup Primitive Calculations

The following is a list of primitive calculations for the HLR_CircuitGroup entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR_CircuitGroup Peg Counts

The following is a list of peg counts for the HLR_CircuitGroup entity.

CGRL_AVG_NUM_OF_CIRCUITS_X10

The average number of circuits (0.0...6553.5) available (in WO-EX state) in the circuit group. The average number is calculated in the marker unit by using a sampling procedure. The number of WOEX circuits of each circuit group is updated on a counter.

Data Source

HLR

CGRL_ERLANGS_X10

The amount of traffic in erlangs (0.0...99999.9), that is, the total seizure time of the object being measured in relation to the measurement period. All of the circuit reservation time is updated in the results accumulation period in which the circuit is released. For this reason remarkably large values in the ERLANGS field are possible in a case in which there are many calls that have started before the results accumulation period but that end in the results accumulation period.

Data Source

HLR

CGRL_EXTERNAL_FAILURE

The number of call attempts (0...9999999) terminated in an external error situation (clear codes 800H...BFFH), that is, error on trunk circuit. The counter is updated when the circuit is released.

Data Source

HLR

CGRL_FAILURE_RATE_PERCENT_X10

Call failure rate in percents (0.0...100.0). The value is calculated by dividing the number of calls ended in internal or external failure by the total number of calls. Subscriber errors (clear codes C00H...FFFH) are not included in the total number nor in the number of error situations when the failure rate is calculated.

Data Source

HLR

CGRL_INTERNAL_FAILURE

The number of call attempts (0...9999999) terminated in an internal error situation (clear codes 400H...7FFH), that is, an error in the home exchange. The counter is updated when the circuit is released.

Data Source

HLR

CGRL_INVALID_RECORD

Tag appears at the end of the given counter group if the field value is 255.

Data Source

HLR

CGRL_NUM_OF_CALLS

The total number of started calls (0...9999999) during the reporting period. The counter is updated when the circuit is reserved. Subscriber errors (clear codes C00H...FFFH) are not included.

Data Source

HLR

CGRL_TIME_CONGEST_PERCENT_X10

The time congestion percentage (0.0...100.0). The counting of time congestion is started when the last free circuit in a circuit group is reserved. The value indicates the proportion of time during which all circuits on the circuit group have been reserved within the observation period.

Data Source

HLR

CGRL_TOTAL_NUM_OF_CIRCUITS

Number of circuits in the circuit group.

Data Source

HLR

HLR_CircuitGroupRelease

HLR_CircuitGroup Release

Data Source

HLR

PERLENSEC

Measurement collection interval (in seconds)

Data Source

HLR

HLR_ControlUnit Primitive Calculations

The following is a list of primitive calculations for the HLR_ControlUnit entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR_ControlUnit Peg Counts

The following is a list of peg counts for the HLR_ControlUnit entity.

CNTLL_ERLANGS_X10

The amount of traffic in erlangs (0.0...99999.9), that is, the total seizure time of the object being measured in relation to the measurement period. All of the circuit reservation time is updated in the results accumulation period in which the circuit is released. For this reason remarkably large values in the ERLANGS field are possible in a case in which there are many calls that have started before the results accumulation period but that end in the results accumulation period.

Data Source

HLR

CNTLL_EXTERNAL_FAILURE

The number of call attempts (0...9999999) terminated in an external error situation (clear codes 800H...BFFH), that is, error on trunk circuit. The counter is updated when the circuit is released.

Data Source

HLR

CNTLL_FAILURE_RATE_PERCENT_X10

Call failure rate (0.0...100.0), calculated by dividing the number of calls ended in internal or external failure by the total number of calls. Subscriber errors (clear codes C00H...FFFH) are not included in the total number nor in the number of error situations when the failure rate is calculated.

Data Source

HLR

CNTLL_INTERNAL_FAILURE

The number of call attempts (0...9999999) terminated in an internal error situation (clear codes 400H...7FFH), that is, an error in the home exchange. The counter is updated when the circuit is released.

Data Source

HLR

CNTLL_INVALID_RECORD

Tag appears at the end of the given counter group with field value 1 when the actual record is invalid.

Data Source

HLR

CNTLL_NUM_OF_CALLS

The total number of started calls (0...99999999) during the reporting period. The counter is updated when the circuit is reserved. Subscriber errors (clear codes C00H...FFFH) are not included.

Data Source

HLR

COMPL_INVALID_RECORD

Tag appears at the end of the given counter group with field value 1 when the actual record is invalid.

Data Source

HLR

COMPL_LOAD_PERCENT_X10

The average load rate in percents (0.0...100.0). When the observation object is a computer unit (COMP), the value is the arithmetical average of samples taken from the processor load. The length of the sampling period is defined in the PROFILE parameter LOAD_RATE_SAMPLE_INTERVAL (9:8). The parameter value is given in seconds

Data Source

HLR

COMPL_PEAK_LOAD_PERCENT

The peak load rate in percents (0...100). This is the highest recorded value of the processor load during a measurement period. The value is the average of the sampling interval. The length of the sampling interval is defined in the PROFILE parameter LOAD_RATE_SAMPLE_INTERVAL (9:8).

Data Source

HLR

COMPL_PEAK_LOAD_TIME_SEC

The time of peak load. It indicates the interval in seconds between the start time and the time when the highest value of the message bus load was obtained.

Data Source

HLR

COMPL_UNRELIABLE_RECORD

Tag appears at the end of the given counter group when the number of load samples is too small compared to the sampling interval and to the length of the observation period and the value of the field is 1.

Data Source

HLR

HLR_ControlUnitRelease

HLR_ControlUnit Release

Data Source

HLR

MBLOAD_ERROR_IN_RECORD

Tag appears at the end of the given counter group with field value 1 when the load data on the message bus is not obtained from the OMU, or the measurement resources of the message bus could not be reserved from the operating system.

Data Source

HLR

MBLOAD_LOAD_X10

The average load rate of the message bus (0.0 - 100.0). This is the average load of the message bus during the measurement period. On the message bus, the load measurement is done by an operating system primitive which reads the load values of the currently used message bus every minute.

Data Source

HLR

MBLOAD_PEAK_LOAD

The peak load rate in percents (0..100). This is the highest recorded value of the message bus load rate during a measurement period. The peak load is an average load of sixty seconds.

Data Source

HLR

MBLOAD_PEAK_LOAD_TIME_IN_SEC

The time of peak load. It indicates the interval in seconds between the start time and the time when the highest value of the message bus load was obtained.

Data Source

HLR

PERLENSEC

Measurement collection interval (in seconds)

Data Source

HLR

HLR_Destination Primitive Calculations

The following is a list of primitive calculations for the HLR_Destination entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR_Destination Peg Counts

The following is a list of peg counts for the HLR_Destination entity.

AVERAGENBROFSUBSCRIBERSSGSN

For the calculation of the average number of home subscribers for each SGSN, including SGSNs outside the home network, the number of subscribers is fetched from the HLR for each SGSN at five-minute.

Data Source

HLR

CURRENTNBROFSUBSCRIBERSSGSN

Number of home subscribers for each SGSN, including SGSNs outside the home network at the reporting moment. Note: one subscriber can appear on the VLR and SGSN list at the same time if it is both GPRS- and GSM-attached.

Data Source

HLR

HLR_AVERAGENBROFSUBSCRIBERS

For the calculation of the average, the number of subscribers is fetched from the HLR for each VLR at three-minute intervals. In the ASCII report the value can be marked with hashmark (#) if the counter is unreliable.

Data Source

HLR

HLR_CURRENTNBROFSUBSCRIBERS

Number of subscribers at the reporting moment.

Data Source

HLR

HLR_UNRELIABLE

This counter can appear in the XML report with value 1 when the Average Number of Subscribers counter is unreliable (there were a VLR address cleaning in the HLR database during the measurement which causes a special problem in the procedure of the gathering average counters, however this is a rare situation) In the ASCII report it is marked with hashmark (#).

Data Source

HLR

HLRRelease

HLR Release

Data Source

HLR

NUMBEROFANSWERED

The number of answers received to the VLR/SGSN authentication vector requests. These answers contain authentication vectors. If the number of requests is larger than the number of answers, the subscriber has not been created in the AC and the answer to the authentication vector request does not contain authentication vector.

Data Source

HLR

NUMBEROFQUINTETS

The number of transferred authentication quintets.

Data Source

HLR

NUMBEROFREQUESTS

The number of authentication vector (triplets and quintets) requests. This field also contains the synchronization requests.

Data Source

HLR

NUMBEROFSYNCREQ

The number of synchronization requests which can be sent when the mobile rejects the authentication because the sequence number is out of range.

Data Source

HLR

NUMBEROFTRIPLETS

the number of transferred authentication triplets.

Data Source

HLR

NUMBEROFUNKNOWNSUBSC

The number of unknown subscribers whose data was not found in the AC

Data Source

HLR

PERLENSC

Measurement collection interval (in seconds)

Data Source

HLR

SGSN_UNRELIABLE

This counter can appear in the XML report with value 1 when the Average Number of GPRS Subscribers counter is unreliable (there were a SGSN address cleaning in the HLR database during the measurement which causes a special problem in the procedure of the gathering average counters, however this is a rare situation)

Data Source

HLR

HLR_IMEI Primitive Calculations

The following is a list of primitive calculations for the HLR_IMEI entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR_IMEI Peg Counts

The following is a list of peg counts for the HLR_IMEI entity.

HLRRelease

HLR Release

Data Source

HLR

PERLENSEC

Measurement collection interval (in seconds)

Data Source

HLR

REGTYPEISGLOBALIFVALUEIS_1

The allowed value for this counter is 1. If counter is sent in XML report with respective value it means that the registration type of device is LOCAL.

Data Source

HLR

REGTYPEISLOCALIFVALUEIS_1

The allowed value for this counter is 1. If counter is sent in XML report with respective value it means that the registration type of device is GLOBAL.

Data Source

HLR

REQ_FOR_DUPLICATED_EQ

The number of IMEI requests for those devices whose reason code is (POSSIBLY) DUPLICATED - this IMEI (possibly) has been copied into several different mobiles If IMEI

belongs to black list then the reason code is DUPLICATED If IMEI belongs to grey list then the reason code is POSSIBLY DUPLICATED

Data Source

HLR

REQ_FOR_IMPERSONATED_EQ

The number of IMEI requests for those devices whose reason code is (POSSIBLY) IMPERSONATED - this IMEI is (possibly) not corresponding to the white list, it is (possibly) illegally issued and not provided by the manufacturer, operator, or a type of approval house.

Data Source

HLR

REQ_FOR_NEW_EQ

The number of IMEI requests for those devices whose reason code is NEW - new device. If the reason code is NEW, the IMEI always belongs to grey list.

Data Source

HLR

REQ_FOR_OTHER_REASON

The number of IMEI requests for those devices whose reason code is some other

Data Source

HLR

REQ_FOR_POS_ILLEGAL_EQ

The number of IMEI requests for those devices whose reason code is (POSSIBLY) ILLEGAL - the device is (possibly) illegal. If IMEI belongs to black list then the reason code is ILLEGAL If IMEI belongs to grey list then reason code is POSSIBLY ILLEGAL

Data Source

HLR

REQ_FOR_POS_NOT_PROP_WORK_EQ

The number of IMEI requests for those devices whose reason code is (POSSIBLY) NOT WORKING - the device is (possibly) out of order. If IMEI belongs to black list then the reason code is NOT WORKING. If IMEI belongs to grey list then the reason code is POSSIBLY NOT WORKING

Data Source

HLR

REQ_FOR_STOLEN_EQ

The number of IMEI requests for those devices whose reason code is STOLEN - the device is stolen. If the reason code is STOLEN, IMEI always belongs to black list.

Data Source

HLR

HLR_Link Primitive Calculations

The following is a list of primitive calculations for the HLR_Link entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR_Link Peg Counts

The following is a list of peg counts for the HLR_Link entity.

AUTOMATIC_CHANGEBACKS

Automatic changeback (1.11 in ITU-TQ.752)

Data Source

HLR

AUTOMATIC_CHANGEOVERS

Automatic changeover (1.10 in ITU-TQ.752)

Data Source

HLR

BITRATE

Signalling link bit rate Kbit/s

Data Source

HLR

CUMULATIVE_DURATION_LEVEL1

Cumulative duration of signalling link congestion (level 1) (3.7 in ITU-T Q.752). Unit is in seconds.

Data Source

HLR

CUMULATIVE_DURATION_LEVEL2

Cumulative duration of signalling link congestion (level 2). Unit is in seconds.

Data Source

HLR

CUMULATIVE_DURATION_LEVEL3

Cumulative duration of signalling link congestion (level 3). Unit is in seconds.

Data Source

HLR

DUR_IN_SERVICE_STATE

Duration of signalling link in the in-service state (1.1 in ITU-T Q.752) (seconds)

Data Source

HLR

DUR_OF_INHIBIT_LOC_MANAG_ACT

Duration of signalling link inhibition due to local management actions (2.5 in ITU-TQ.752)
(seconds)

Data Source

HLR

DUR_OF_INHIBIT_REM_MANAG_ACT

Duration of signalling link inhibition due to remote management actions (2.6 in ITU-TQ.752)
(seconds)

Data Source

HLR

DUR_OF_LOCAL_BUSY

Duration of local busy (number of SIBs). (2.15 in ITU-T Q.752)

Data Source

HLR

DUR_OF_LOCAL_BUSY_ATM

Duration of local busy (ATM) (2.15 in ITU-TQ.752).

Data Source

HLR

DUR_OF_UNAVAIL

Duration of signalling link unavailability for any reason (2.1 in ITU-T Q.752) (seconds)

Data Source

HLR

DUR_OF_UNAVAIL_LINK_FAILURE

Duration of signalling link unavailability due to link failure (2.7 in ITU-T Q.752) (seconds)

Data Source

HLR

DUR_OF_UNAVAIL_LOCAL_BLOCKING

Duration of signalling link unavailability due to local blocking (2.8 in ITU-T Q.752) (seconds)

Data Source

HLR

DUR_OF_UNAVAIL_REM_PROC_OUTAGE

Duration of signalling link unavailability due to remote processor outage (2.9 in ITU-TQ.752) (seconds)

Data Source

HLR

EVENTS_RES_IN_LOSS_OF_MSUS_L1

Number of times congestion discard level 1 threshold exceeded.

Data Source

HLR

EVENTS_RES_IN_LOSS_OF_MSUS_L2

Number of times congestion discard level 2 threshold exceeded.

Data Source

HLR

EVENTS_RES_IN_LOSS_OF_MSUS_L3

Number of times congestion discard level 3 threshold exceeded.

Data Source

HLR

HLRRelease

HLR Release

Data Source

HLR

LINK_FAILURES_ABNORM_FIBR_BSNR

Signalling link failures - all reasons (1.2 in ITU-TQ.752)

Data Source

HLR

LINK_FAILURES_ALI_OR_PROV_FAIL

Signalling link alignment or proving failure (1.7 in ITU-T Q.752)

Data Source

HLR

LINK_FAILURES_ALL_REASONS

Signalling link failures - all reasons (1.2 in ITU-T Q.752)

Data Source

HLR

LINK_FAILURES_EXC_DEL_OF_ACK

Caused by excessive delay of acknowledgement (TDM)(1.4 in ITU-TQ.752)

Data Source

HLR

LINK_FAILURES_EXC_DUR_OF_CONG

Signalling link failure - excessive duration of congestion (1.6 in ITU-T Q.752)

Data Source

HLR

LINK_FAILURES_EXC_ERROR_RATE

Signalling link failure - excessive error rate (1.5 in ITU-T Q.752)

Data Source

HLR

LINK_FAILURES_M_ERR_IND_SD_LOS

MAA-ERROR indication with Error Type SD loss (ATM) (1.7 in ITU-T Q.2144, not used if link type = 0)

Data Source

HLR

LINK_RESTORATIONS

Signalling link restoration (1.12 in ITU-TQ.752)

Data Source

HLR

LINK_TYPE_MTPHLR

Link type (0=TDM, 1=ATM)

Data Source

HLR

LINK_TYPE_SLHLR

Link type (0=TDM, 1=ATM)

Data Source

HLR

LINK_TYPE_SLPHLR

Link type (0=TDM, 1=ATM)

Data Source

HLR

LOC_MANAG_INHIBIT

Local management inhibit (2.13 in ITU-TQ.752)

Data Source

HLR

LOC_MANAG_UNINHIBITED

Local management uninhibit (2.14 in ITU-TQ.752)

Data Source

HLR

LOCAL_MANUAL_CHANGEOVERS

Local manual changeovers and changeovers due to system recovery actions (2.2 in ITU-TQ.752)

Data Source

HLR

MIN_30_PEAK_TRAF_IN_STARTED

Start time of the 30 minutes freezing period when the peak congestion for the incoming traffic was noticed. (Measured as minutes from measurement period start time.)

Data Source

HLR

MIN_30_PEAK_TRAF_OUT_STARTED

Start time of the 30 minutes freezing period when the peak congestion for the outgoing traffic was noticed. (Measured as minutes from measurement period start time.)

Data Source

HLR

MIN_30_PEAKLOAD_TRAFFIC_IN

30 minutes peak load in milliErlangs for incoming traffic

Data Source

HLR

MIN_30_PEAKLOAD_TRAFFIC_OUT

30 minutes peak load in milliErlangs for outgoing traffic

Data Source

HLR

MIN_5_PEAK_TRAF_IN_STARTED

Start time of the 5 minutes freezing period when the peak congestion for incoming traffic was noticed (Measured as minutes from measurement period start time.)

Data Source

HLR

MIN_5_PEAK_TRAF_OUT_STARTED

Start time of the 5 minutes freezing period when the peak congestion for outgoing traffic was noticed. (Measured as minutes from measurement period start time.)

Data Source

HLR

MIN_5_PEAKLOAD_TRAFFIC_IN

5 minutes peak load in milliErlangs for incoming traffic

Data Source

HLR

MIN_5_PEAKLOAD_TRAFFIC_OUT

5 minutes peak load in milliErlangs for outgoing traffic

Data Source

HLR

MSUS_DISCARDED_LEVEL1

Number of message signal units (MSU) discarded due to signalling link congestion (level 1) (3.10 in ITU-T Q.752)

Data Source

HLR

MSUS_DISCARDED_LEVEL2

Number of message signal units (MSU) discarded due to signalling link congestion (level 2).

Data Source

HLR

MSUS_DISCARDED_LEVEL3

Number of message signal units (MSU) discarded due to signalling link congestion (level 3)

Data Source

HLR

MSUS_RECEIVED

Number of message signal units received (3.5 in ITU-T Q.752)

Data Source

HLR

MSUS_TRANSMITTED

Number of message signal units transmitted (3.3 in ITU-T Q.752)

Data Source

HLR

NEGATIVE_ACKS

Number of negative acknowledgements received (TDM) (1.9 in ITU-T Q.752, not used if link is ATM link)

Data Source

HLR

OCTETS_RETRANSMITTED

Number of octets retransmitted (3.2 in ITU-T Q.752)

Data Source

HLR

PERLENSEC

Measurement collection interval (in seconds)

Data Source

HLR

REM_INHIBIT

Start of remote inhibition (2.18 in ITU-TQ.752)

Data Source

HLR

REM_PROC_OUTAGE_START

Start of remote processor outage (2.10 in ITU-T Q.752)

Data Source

HLR

REM_PROC_OUTAGE_STOP

Stop of remote processor outage (2.11 in ITU-T Q.752)

Data Source

HLR

REM_UNINHIBITED

End of remote inhibition (2.19 in ITU-TQ.752)

Data Source

HLR

REMOTE_INITIATIVE_CHANGEOVERS

Remote initiative changeovers (2.3 in ITU-TQ.752)

Data Source

HLR

SIF_AND_SIO_OCTETS_RECEIVED

Number of received SIF and SIO octets (3.4 in ITU-T Q.752)

Data Source

HLR

SIF_AND_SIO_OCTETS_TRANSMITTED

Number of SIF and SIO octets transmitted (3.1 in ITU-T Q.752).

Data Source

HLR

SIGN_UNITS_RECEIVED_IN_ERROR

Number of signal units received in error (TDM) (1.8 in ITU-T Q.752, not used if link is ATM link)

Data Source

HLR

SL_CONGESTION_LEVEL1

Number of times congestion onset level 1 threshold exceeded.

Data Source

HLR

SL_CONGESTION_LEVEL2

Number of times congestion onset level 2 threshold exceeded.

Data Source

HLR

SL_CONGESTION_LEVEL3

Number of times congestion onset level 3 threshold exceeded.

Data Source

HLR

HLR_RejectedCalls Primitive Calculations

The following is a list of primitive calculations for the HLR_RejectedCalls entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR_RejectedCalls Peg Counts

The following is a list of peg counts for the HLR_RejectedCalls entity.

HLR_RejectedCallsRelease

HLR_RejectedCalls Release

Data Source

HLR

PERLENSEC

Measurement collection interval (in seconds)

Data Source

HLR

REJ_ERROR_FOUND

Tag appears at the end of the given counter group with field value 244 if an unexpected error situation has occurred.

Data Source

HLR

REJ_NO_RESP_FROM_LRMPRO

Tag appears at the end of the given counter group with field value 242 if the signalling unit has not sent the required information for the following exchange-related counters:

REJ_EXCHG_INC, REJ_EXCHG_INC_PERCENT*10, REJ_EXCHG_OUTGOING.

Data Source

HLR

REJ_NO_RESP_FROM_SIGNPRB

Tag appears at the end of the given counter group with field value 243 if the required information has not been received from the signalling process family that provides counters of the measured object.

Data Source

HLR

REJ_OBSERV_RESTARTED

Tag appears at the end of the given counter group with field value 16 if the signalling unit has not responded during the previous results accumulation period. Therefore, the observation has been restarted during the current results accumulation period. The counters is printed out during the following period.

Data Source

HLR

REJ_REPORT_INQUIRY_FAIL

Tag appears at the end of the given counter group with field value 241 if only part of the required information is received from the signalling process family that provides the counters of the measured object.

Data Source

HLR

REJ_UNIT_INC_PERCENTX10

The ticket service rejection percentage (0.0...100.0), that is, the proportion of incoming service requests rejected at the ticket service to the total number of service requests received at the ticket service.

Data Source

HLR

REJ_UNIT_INCOMING

The number of rejected incoming service requests (0...999999999) at the ticket service.

Data Source

HLR

REJ_UNIT_OUTGOING

The number of rejected service requests (0...999999999) that have exceeded the higher rejection limit of the message buffer on the outgoing side. The number of rejected service requests that have exceeded the higher rejection limit of the CPU load on the incoming side.

Data Source

HLR

HLR_SCCP_SignPoint Primitive Calculations

The following is a list of primitive calculations for the HLR_SCCP_SignPoint entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR_SCCP_SignPoint Peg Counts

The following is a list of peg counts for the HLR_SCCP_SignPoint entity.

HLR_SCCP_SignPointRelease

HLR_SCCP_SignPoint Release

Data Source

HLR

PERLENSEC

Measurement collection interval (in seconds)

Data Source

HLR

SS_ALLOWED_MESSAGES_RXED

Subsystem allowed messages received (8.12 in ITU-T Q.752)

Data Source

HLR

SS_CONGESTED_MESSAGES_RXED

SCCP/subsystem congested message received (8.8 in ITU-T Q.752)

Data Source

HLR

SS_PROHIBITED_MESSAGES_RXED

Subsystem prohibited messages received (8.11 in ITU-T Q.752)

Data Source

HLR

HLR_SignLink Primitive Calculations

The following is a list of primitive calculations for the HLR_SignLink entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR_SignLink Peg Counts

The following is a list of peg counts for the HLR_SignLink entity.

ADJACENT_SP_INA_DURATION

Duration of inaccessibility of adjacent signalling point (5.2 in ITU-T Q.752) (seconds)

Data Source

HLR

ADJACENT_SP_INACCESSIBLE

Adjacent signalling point inaccessible (5.1 in ITU-T Q.752).

Data Source

HLR

CR_MESSAGES_RECEIVED_FROM_MTP

CR messages received from MTP plus ISDN-UP embedded CRs (9bis.7 in ITU-T Q.752)

Data Source

HLR

CR_MESSAGES_SEND_TO_MTP

CR messages sent to MTP plus ISDN-UP embedded CRs (9bis.5 in ITU-T Q.752)

Data Source

HLR

CREF_MESSAGES_RXED_FROM_MTP

CREF messages received from MTP (9bis.8 in ITU-T Q.752)

Data Source

HLR

CREF_MESSAGES_SENT_TO_MTP

CREF messages sent to MTP (9bis.6 in ITUT Q.752)

Data Source

HLR

ERR_MESSAGES_RECEIVED_FROM_MTP

ERR messages received from MTP (9bis.12 in ITU-T Q.752)

Data Source

HLR

ERR_MESSAGES_SENT_TO_MTP

ERR messages sent to MTP (9bis.11 in ITUT Q.752)

Data Source

HLR

FAILURE_REL_COMPL_SUP_DPC_CL_2

Failure of release complete supervision, protocol class 2 (7.15 in ITU-T Q.752)

Data Source

HLR

FAILURE_REL_COMPL_SUP_DPC_CL_3

Failure of release complete supervision, protocol class 3 (7.15 in ITU-T Q.752)

Data Source

HLR

HLR_SignLinkRelease

HLR_SignLink Release

Data Source

HLR

INITIATION_OF_BROADCAST_TFA

Transmission of transfer allowed message started due to signalling link restoration (4.6 in ITU-T Q.752)

Data Source

HLR

INITIATION_OF_BROADCAST_TFP

Transmission of transfer prohibited message started due to signalling link failure (4.5 in ITU-T Q.752)

Data Source

HLR

LUDT_MESSAGES_RECEIVED

LUDT messages received (9bis.19 in ITU-T Q.752)

Data Source

HLR

LUDT_MESSAGES_SENT

LUDT messages sent (9bis.17 in ITU-T Q.752)

Data Source

HLR

LUOTS_MESSAGES_RECEIVED

LUOTS messages received (9bis.20 in ITU-T Q.752)

Data Source

HLR

LUOTS_MESSAGES_SENT

LUOTS messages sent (9bis.18 in ITU-T Q.752)

Data Source

HLR

MSU_DISCARDED_REC_MSUS

Number of message signal units (MSU) discarded due to routing data error (received) (5.5 in ITU-T Q.752)

Data Source

HLR

MSU_DISCARDED_TRANS_MSUS

Number of message signal units (MSU) discarded due to routing data error (transmitted) (5.5 in ITU-T Q.752)

Data Source

HLR

NBR_OF_RECEIVED_TFC

Number of transfer controlled messages received (5.8 in ITU-T Q.752)

Data Source

HLR

PERLENSEC

Measurement collection interval (in seconds)

Data Source

HLR

RELEASE_OF_CONNECTION_TO_DPC

Provider initiated release of a connection (7.18 in ITU-T Q.752)

Data Source

HLR

RESET_OF_CONNECTION_TO_DPC

Provider initiated reset of a connection (7.17 in ITU-T Q.752)

Data Source

HLR

ROUTING_FAILURE_NET_CONGESTION

Routing error - due to network overload (7.4 in ITU-T Q.752)

Data Source

HLR

ROUTING_FAILURE_NET_FAILURE

Routing error - due to failure in network (7.3 in ITU-T Q.752)

Data Source

HLR

ROUTING_FAILURE_OF_GT_TYPE_1

Routing error - no translation of GT type 1 (7.1 in ITU-T Q.752)

Data Source

HLR

ROUTING_FAILURE_OF_GT_TYPE_2

Routing error - no translation of GT type 2

Data Source

HLR

ROUTING_FAILURE_OF_GT_TYPE_3

Routing error - no translation of GT type 3

Data Source

HLR

ROUTING_FAILURE_OF_GT_TYPE_4

Routing error - no translation of GT type 4

Data Source

HLR

ROUTING_FAILURE_OF_SPECIFIC_GT

Routing error - no translation of specific GT (7.2 in ITU-T Q.752)

Data Source

HLR

ROUTING_FAILURE_OF_UNKNOWN_GT

Routing error - no translation of unknown GT type (7.1 in ITU-T Q.752)

Data Source

HLR

ROUTING_FAILURE_REASON_UNKNOWN

Routing error - unknown reason (7.9 in ITU-T Q.752)

Data Source

HLR

ROUTING_FAILURE_SS_CONGESTION

Routing error - due to subsystem overload (7.6 in ITU-T Q.752)

Data Source

HLR

ROUTING_FAILURE_SUBSYS_FAILURE

Routing error - due to failure in subsystem (7.5 in ITU-T Q.752)

Data Source

HLR

ROUTING_FAILURE_UNEQUIPPED_USR

Routing error - unequipped user (7.7 in ITUT Q.752)

Data Source

HLR

RSR_MESSAGES_RECEIVED_FROM_MTP

RSR messages received from MTP (9bis.10 in ITU-T Q.752)

Data Source

HLR

RSR_MESSAGES_SENT_TO_MTP

RSR messages sent to MTP (9bis.9 in ITU-T Q.752)

Data Source

HLR

SIF_AND_SIO_OCT_REC_WITH_OPC

Number of SIF and SIO octets received from OPC (6.1 in ITU-T Q.752)

Data Source

HLR

SL_SET_DURATION_OF_UNA

Duration of unavailability of signalling link set (4.2 in ITU-T Q.752) (seconds)

Data Source

HLR

SL_SET_START_FAILURE

Start of signalling link set failure (4.3 in ITU-T Q.752)

Data Source

HLR

SL_SET_STOP_FAILURE

Stop of signalling link set failure (4.4 in ITU-T Q.752)

Data Source

HLR

SR_SET_UNA_DUE_TO_TFP_REC

Unavailability of signalling route set due to transfer prohibited message received (4.7 in ITU-T Q.752)

Data Source

HLR

SR_SET_UNA_DURA_DUE_TO_TFP_REC

Duration of unavailability of signalling route set due to transfer prohibited message received (4.8 in ITU-T Q.752) (seconds)

Data Source

HLR

SR_SET_UNA_DURA_TO_GIVEN_DEST

Duration of unavailability of signalling route set (4.10 in ITU-T Q.752) (seconds)

Data Source

HLR

SR_SET_UNA_TO_GIVEN_DEST

Unavailability of signalling route set (4.9 in ITU-T Q.752)

Data Source

HLR

SYNTAX_ERROR_DETECTED

Observed syntax errors (7.8 in ITU-T Q.752)

Data Source

HLR

TIMER_TIAR_EXPIRY_FOR_DPC_CL_2

Timer T(iar) expiry, protocol class 2 (7.16 in ITU-T Q.752)

Data Source

HLR

TIMER_TIAR_EXPIRY_FOR_DPC_CL_3

Timer T(iar) expiry, protocol class 3 (7.16 in ITU-T Q.752)

Data Source

HLR

TOTAL_OCTETS_TRANS_TO_DPC

Number for transmitted SIF and SIO octets to DPC (total) (6.2 in ITU-T Q.752).

Data Source

HLR

UDT_MESSAGES_RECEIVED

UDT messages received (9bis.3 in ITU-T Q.752)

Data Source

HLR

UDT_MESSAGES_SENT

UDT messages sent (9bis.1 in ITU-T Q.752)

Data Source

HLR

UDTS_MESSAGES_RECEIVED

UDTS messages received (9bis.4 in ITU-T Q.752)

Data Source

HLR

UDTS_MESSAGES_SENT

UDTS messages sent (9bis.2 in ITU-T Q.752)

Data Source

HLR

UNAUTHORIZED_STP_MSUS_INH_DPC

Unauthorized STP MSU count for inhibited DPC

Data Source

HLR

UNAUTHORIZED_STP_MSUS_INH_OPC

Unauthorized STP MSU count for inhibited OPC

Data Source

HLR

UNAUTHORIZED_STP_MSUS_INH_STP

Unauthorized STP MSU count for inhibited STP

Data Source

HLR

UPUS_RECEIVED

User Part unavailable MSU received (5.7 in ITU-T Q.752)

Data Source

HLR

UPUS_TRANSMITTED

User Part unavailable MSU transmitted (5.6 in ITU-T Q.752)

Data Source

HLR

XUDT_MESSAGES_RECEIVED

XUDT messages received (9bis.15 in ITU-T Q.752)

Data Source

HLR

XUDT_MESSAGES_SENT

XUDT messages sent (9bis.13 in ITU-T Q.752)

Data Source

HLR

XUDTS_MESSAGES_RECEIVED

XUDTS messages received (9bis.16 in ITUT Q.752)

Data Source

HLR

XUDTS_MESSAGES_SENT

XUDTS messages sent (9bis.14 in ITU-T Q.752)

Data Source

HLR

HLR_SignPoints Primitive Calculations

The following is a list of primitive calculations for the HLR_SignPoints entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR_SignPoints Peg Counts

The following is a list of peg counts for the HLR_SignPoints entity.

HLR_MTP_SignPointsRelease

HLR_MTP_SignPoints Release

Data Source

HLR

OCT_TRANS_TO_DPC_ACC_TO_ROUTE

Number for transmitted SIF and SIO octets to DPC via given STP (6.2 in ITU-T Q.752)

Data Source

HLR

PERLENSEC

Measurement collection interval (in seconds)

Data Source

HLR

HLR_SignTraf_Matrix Primitive Calculations

The following is a list of primitive calculations for the HLR_SignTraf_Matrix entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR_SignTraf_Matrix Peg Counts

The following is a list of peg counts for the HLR_SignTraf_Matrix entity.

HLR_MTP_MatrixSTRelease

HLR_SignTraf_Matrix Release

Data Source

HLR

NBR_OF_MSUS

Number of MSUs handled with given OPC, DPC, SIO (6.7 in ITU-T Q.752)

Data Source

HLR

NBR_OF_SIF_AND_SIO_OCTETS

Number of SIF and SIO octets handled with given OPC, DPC, SIO (6.6 in ITU-T Q.752)

Data Source

HLR

PERLENSEC

Measurement collection interval (in seconds)

Data Source

HLR

HLR_SignTraffic Primitive Calculations

The following is a list of primitive calculations for the HLR_SignTraffic entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR_SignTraffic Peg Counts

The following is a list of peg counts for the HLR_SignTraffic entity.

HLR_SignTrafficRelease

HLR_SignTraffic Release

Data Source

HLR

PERLENSEC

Measurement collection interval (in seconds)

Data Source

HLR

RECEIVED_OCTETS

Number of SIF and SIO received with given SIO (6.3 in ITU-T Q.752)

Data Source

HLR

TRANSMITTED_OCTETS

Number of SIF and SIO transmitted with given SIO (6.3 in ITU-T Q.752)

Data Source

HLR

HLR_SPC Primitive Calculations

The following is a list of primitive calculations for the HLR_SPC entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR_SPC Peg Counts

The following is a list of peg counts for the HLR_SPC entity.

HLRRelease

HLR Release

Data Source

HLR

NUMBEROFANSWERED

The number of answers received to the VLR/SGSN authentication vector requests. These answers contain authentication vectors. If the number of requests is larger than the number of answers, the subscriber has not been created in the AC and the answer to the authentication vector request does not contain authentication vector. It is possible that the data on the subscribers location in the ACUs has not yet been updated after the system has been restarted.

Data Source

HLR

NUMBEROFQUINTETS

The number of transferred authentication quintets.

Data Source

HLR

NUMBEROFREQUESTS

The number of authentication vector (triplets and quintets) requests. This field also contains the synchronization requests.

Data Source

HLR

NUMBEROFSYNCREQ

The number of synchronization requests which can be sent when the mobile rejects the authentication because the sequence number is out of range.

Data Source

HLR

NUMBEROFTRIPLETS

the number of transferred authentication triplets.

Data Source

HLR

NUMBEROFUNKNOWNSUBSC

The number of unknown subscribers whose data was not found in the AC

Data Source

HLR

PERLENSEC

Measurement collection interval (in seconds)

Data Source

HLR

HLR_Subsystem Primitive Calculations

The following is a list of primitive calculations for the HLR_Subsystem entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR_Subsystem Peg Counts

The following is a list of peg counts for the HLR_Subsystem entity.

DURA_OF_LOCAL_SCCP_UNAVAILABLE

Duration of the unavailability of a local SCCP (8.5 in ITU-T Q.752) (seconds)

Data Source

HLR

HLRRelease

HLR Release

Data Source

HLR

PERLENSEC

Measurement collection interval (in seconds)

Data Source

HLR

START_LOC_SCCP_UNAV_CONGESTION

Start of unavailability of a local SCCP due to congestion (8.3 in ITU-T Q.752)

Data Source

HLR

START_LOC_SCCP_UNAV_FAILURE

Start of unavailability of a local SCCP due to failure (8.1 in ITU-T Q.752)

Data Source

HLR

START_LOC_SCCP_UNAV_MAINT_BUSY

Start of unavailability of a local SCCP due to maintenance busy (8.2 in ITU-T Q.752)

Data Source

HLR

STOP_OF_LOCAL_SCCP_UNAVAILABLE

Stop of unavailability of a local SCCP (8.4 in ITU-T Q.752)

Data Source

HLR

HLR_Transaction Primitive Calculations

The following is a list of primitive calculations for the HLR_Transaction entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

HLR_Transaction Peg Counts

The following is a list of peg counts for the HLR_Transaction entity.

CUMUL_MEAN_DURAT_OF_TRANSACT

Cumulative mean duration of transactions. Unit is 0,1 seconds. (13.9 in ITU-T Q.752)

Data Source

HLR

DT1_MESSAGES_RECEIVED_FROM_MTP

DT1 messages received from MTP per sink SSN (9.9 in ITU-T Q.752)

Data Source

HLR

DT1_MESSAGES_SENT_TO_MTP

DT1 messages sent to MTP per source SSN (9.10 in ITU-T Q.752)

Data Source

HLR

DT2_MESSAGES_RECEIVED_FROM_MTP

DT2 messages received from MTP per sink SSN (9.11 in ITU-T Q.752)

Data Source

HLR

DT2_MESSAGES_SENT_TO_MTP

DT2 messages sent to MTP per source SSN (9.12 in ITU-T Q.752)

Data Source

HLR

ED_MESSAGES_RECEIVED_FROM_MTP

ED messages received from MTP per sink SSN (9.14 in ITU-T Q.752)

Data Source

HLR

ED_MESSAGES_SENT_TO_MTP

ED messages sent to MTP per source SSN (9.13 in ITU-T Q.752)

Data Source

HLR

HLR_TransactionRelease

HLR_Transaction Release

Data Source

HLR

LOCAL_SS_PROHIBITED_START

Start of local subsystem prohibited (8.9 in ITU-T Q.752)

Data Source

HLR

LOCAL_SS_PROHIBITED_STOP

Stop of local subsystem prohibited (8.10 in ITU-T Q.752)

Data Source

HLR

MAX_NOF_OPEN_TRANSACTION_IDS

Maximum number of open transactions ids during the period (13.10 in ITU-T Q.752)

Data Source

HLR

MEAN_NUMBER_OF_OPEN_TRANSACT

Mean number of open transaction ids during the period (13.7 in ITU-T Q.752)

Data Source

HLR

MESSAGES_SENT_TO_BACKUP_SS

All messages transmitted to the redundant subsystem (9.8 in ITU-T Q.752)

Data Source

HLR

MSGSG_TOO_BIG_FOR_SEGMENTATION

Messages too large for segmentation (7.14 in ITU-T Q.752)

Data Source

HLR

NUMBER_OF_NEW_TRANSACTIONS

Number of new transactions during the period (13.6 in ITU-T Q.752)

Data Source

HLR

PERLENSEC

Measurement collection interval (in seconds)

Data Source

HLR

SS_OOS_REQUEST_DENIED_LOCAL

Rejection of a coordinated state modification request by a local subsystem (8.6 in ITU-T Q.752)

Data Source

HLR

SS_OOS_REQUEST_DENIED_REMOTE

Rejection of a coordinated state modification request by a remote subsystem (8.7 in ITU-T Q.752)

Data Source

HLR

SS_OOS_REQUEST_GRANTED_LOCAL

Acceptance of a coordinated state modification request by a local subsystem (8.6 in ITU-T Q.752)

Data Source

HLR

SS_OOS_REQUEST_GRANTED_REMOTE

Acceptance of a coordinated state modification request by a remote subsystem (8.7 in ITU-T Q.752)

Data Source

HLR

TOTAL_MESSAGES_FOR_LOCAL_SS

All messages related to a local subsystem (9.4 in ITU-T Q.752)

Data Source

HLR

TOTAL_MESSAGES_RXED_CLASS_0

All received messages in protocol class 0 (9.7 in ITU-T Q.752)

Data Source

HLR

TOTAL_MESSAGES_RXED_CLASS_1

All received messages in protocol class 1

Data Source

HLR

TOTAL_MESSAGES_SENT_CLASS_0

All transmitted messages in protocol class 0 (9.6 in ITU-T Q.752)

Data Source

HLR

TOTAL_MESSAGES_SENT_CLASS_1

All transmitted messages in protocol class 1

Data Source

HLR

TOTAL_MSGS_FROM_LOC_SS_NO_GT

Messages from a local subsystem that do not require GT translation (9.4 in ITU-T Q.752)

Data Source

HLR

TOTAL_MSGS_FROM_LOC_SS_WITH_GT

Messages from a local subsystem that require GT translation (9.4 in ITU-T Q.752)

Data Source

HLR

TOTAL_MSGS_TO_LOC_SS_NO_GT

Messages addressed to a local subsystem that do not require GT translation (9.4 in ITUT Q.752)

Data Source

HLR

TOTAL_MSGS_TO_LOC_SS_WITH_GT

Messages addressed to a local subsystem that require GT translation (9.4 in ITU-T Q.752)

Data Source

HLR

SuppService Primitive Calculations

The following is a list of primitive calculations for the SuppService entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

SuppService Peg Counts

The following is a list of peg counts for the SuppService entity.

COUNT

Number of supplementary services provisioned. In case of COLP, COLR, CLIP, CLIR, CLIP E, UUS1, UUS2, UUS3, and ODB supplementary services only the COUNT field is shown because the report focuses on subscribers activity.

Data Source

HLR

HLR_ACTIVATEDBYMML

Activations by the operator. In case of COLP, COLR, CLIP, CLIR, CLIP E, UUS1, UUS2, UUS3, and ODB supplementary services this counter is not shown.

Data Source

HLR

HLR_ACTIVATEDBYUSER

Activations by the user. In case of COLP, COLR, CLIP, CLIR, CLIP E, UUS1, UUS2, UUS3, and ODB supplementary services this counter is not shown.

Data Source

HLR

HLR_DEACTIVATEDBYMML

Deactivations by the operator. In case of COLP, COLR, CLIP, CLIR, CLIP E, UUS1, UUS2, UUS3, and ODB supplementary services this counter is not shown.

Data Source

HLR

HLR_DEACTIVATEDBYUSER

Deactivations by the user. In case of COLP, COLR, CLIP, CLIR, CLIP E, UUS1, UUS2, UUS3, and ODB supplementary services this counter is not shown.

Data Source

HLR

HLR_INQUIRYBYUSER

Supplementary service inquiries by the user. In case of COLP, COLR, CLIP, CLIR, CLIP E, UUS1, UUS2, UUS3, and ODB supplementary services this counter is not shown. Only the supplementary service inquiries CFU, BAIC and BIRO are updated. Other searches for the supplementary service inquiries are done from the VLR.

Data Source

HLR

HLRRelease

HLR Release

Data Source

HLR

PERLENSEC

Measurement collection interval (in seconds)

Data Source

HLR

System Primitive Calculations

The following is a list of primitive calculations for the System entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

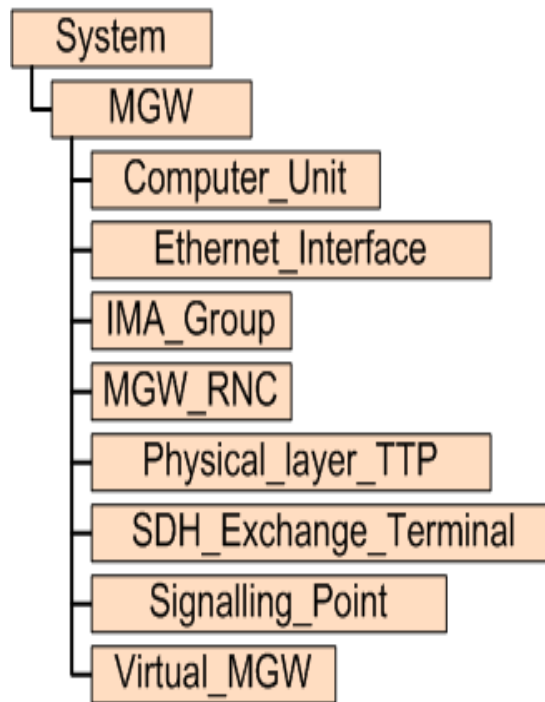
of hours in Summation Data

Calculation

7 MGW Traffic Entities

The following figure shows the Prospect reporting hierarchy for MGW traffic entities.

Figure 3: Reporting Hierarchy



PERFORMANCE DATA REFERENCE
IBM Prospect 8.0 for Nokia GSM/GPRS

8 MGW Traffic Fields

The following is a list of available MGW Traffic performance data fields.

Computer_Unit Primitive Calculations

The following is a list of primitive calculations for the Computer_Unit entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

PERCENT_ALL_ATM_CAS_UNSUCCESS

Percentage of all unsuccessful legs of ATM connection attempts (unsuccessful termination reservations) received via H.248 interface.

Calculation

$((\text{ALL_ATM_CAS_UNSUCCESS}) / (\text{ALL_ATM_CAS})) * 100.0$

PERCENT_ALL_CAS_UNSUCCESS

Percentage of all unsuccessful connection or call attempts received via the H.248 i/f regardless of connection type (ATM/IP or TDM)

Calculation

$$((\text{ALL_CAS_UNSUCCESS}) / (\text{ALL_CAS})) * 100.0)$$

PERCENT_ALL_IP_CAS_UNSUCCESS

Percentage of all unsuccessful legs of IP connection attempts (unsuccessful termination reservations) received via H.248 interface.

Calculation

$$((\text{ALL_IP_CAS_UNSUCCESS}) / (\text{ALL_IP_CAS})) * 100.0)$$

PERCENT_ALL_TDM_CAS_UNSUCC

Percentage of all unsuccessful legs of TDM connection attempts (unsuccessful termination reservations) received via H.248 interface.

Calculation

$$((\text{ALL_TDM_CAS_UNSUCC}) / (\text{ALL_TDM_CAS})) * 100.0)$$

PERCENT_LOST_RTP_PACKETS

Percentage of lost RTP data packets that are not received according to received sequence numbers.

Calculation

$$((\text{LOST_RTP_PACKETS}) / (\text{SENT_RTP_PACKETS})) * 100.0)$$

PERCENT_TCPS_SNDREXMITPACK

% of retransmitted TCP packets.

Calculation

$$((\text{TCPS_SNDREXMITPACK}) / (\text{TCPS_SNDTOTAL})) * 100.0)$$

SPEED_RECEIVED_RTP_OCTETS

Received speed of payload octets (not including header or padding) transmitted in RTP data packets. Number of payload octets depends on used codec.

Calculation

$$(\text{RECEIVED_RTP_OCTETS}) * 8 / (\text{PERLENSSEC})$$

SPEED_SENT_RTP_OCTETS

Transmission speed of send payload (not including header or footer) transmitted in RTP data packets. Number of payload octets depends on used codec.

Calculation

$$(\text{SENT_RTP_OCTETS}) * 8 / (\text{PERLENSSEC})$$

SPEED_TCPS_RCVDBYTE

Received speed of duplicate bytes.

Calculation

$$(\text{TCPS_RCVDUPBYTE}) / (\text{PERLENSSEC})$$

SPEED_TCPS_SNDBYTE

Transmission speed of TCP.

Calculation

$$(\text{TCPS_SNDBYTE}) / (\text{PERLENSSEC})$$

Computer_Unit Peg Counts

The following is a list of peg counts for the Computer_Unit entity.

AAL5_PDU_DISCARD_CNT

Discarded AAL5 CPCS-PDUs (Common Part Convergence Sublayer Protocol Data Units).
Discarding of AAL5 received cells due to an overflow of the receiving buffer or the received packet being bigger than allowed.

Data Source

MGW

Source Field

M547C3

Source Section

AAL5 Protocol

ABRTE_COUNT

Abort message indication error. AAL5 frames received with a field length of zero.

Data Source

MGW

Source Field

M549C8

Source Section

Chorus AAL5 protocol

ADMIN_RESTARTS

Amount of computer unit restarts that are made by user with MML (Minimum Message Length) commands.

Data Source

MGW

Source Field

M608C1

Source Section

Computer Unit Restarts

ALL_ATM_CAS

Number of all legs of ATM connection attempts (successful or unsuccessful termination reservations) received via H.248 interface.

Data Source

MGW

Source Field

M645C3

Source Section

H.248

ALL_ATM_CAS_UNSUCCESS

Number of all unsuccessful legs of ATM connection attempts (unsuccessful termination reservations) received via H.248 interface.

Data Source

MGW

Source Field

M645C4

Source Section

H.248

ALL_CAS

Number of all connection or call attempt requests (successful or unsuccessful context reservations) received via H.248 interface regardless of the connection type (ATM, IP or TDM connections.)

Data Source

MGW

Source Field

M645C0

Source Section

H.248

ALL_CAS_AVERAGE

Average value for ALL_CAS_CURRENT counter.

Data Source

MGW

Source Field

M645C10

Source Section

H.248

ALL_CAS_CURRENT

The number of current resources for a context (Incremented when the resources for a context have been successfully reserved and decremented when resources have been released).

Data Source

MGW

Source Field

M645C9

Source Section

H.248

ALL_CAS_ERRONEOUS_RESOURCE_REQ

Number of all unsuccessful legs of all connection attempts received via H.248 interface for reason that resource request is erroneous and the connection type is unknown. This counter shows how many unsuccessful termination reservations are made for unknown connections, because of erroneous resource request.

Data Source

MGW

Source Field

M645C2

Source Section

H.248

ALL_CAS_PEAK

Maximum value for ALL_CAS_CURRENT counter.

Data Source

MGW

Source Field

M645C11

Source Section

H.248

ALL_CAS_UNSUCCESS

Number of all unsuccessful connection or call attempt requests (unsuccessful context reservations) received via H.248 interface regardless of the connection type (ATM, IP or TDM connections).

Data Source

MGW

Source Field

M645C1

Source Section

H.248

ALL_IP_CAS

Number of all legs of IP connection attempts (successful or unsuccessful termination reservations) received via H.248 interface.

Data Source

MGW

Source Field

M645C5

Source Section

H.248

ALL_IP_CAS_UNSUCCESS

Number of all unsuccessful legs of IP connection attempts (unsuccessful termination reservations) received via H.248 interface.

Data Source

MGW

Source Field

M645C6

Source Section

H.248

ALL_TDM_CAS

Number of all legs of TDM connection attempts (successful or unsuccessful termination reservations) received via H.248 interface.

Data Source

MGW

Source Field

M645C7

Source Section

H.248

ALL_TDM_CAS_UNSUCC

Number of all unsuccessful legs of TDM connection attempts(unsuccessful termination reservations) received via H.248 interface.

Data Source

MGW

Source Field

M645C8

Source Section

H.248

ALL_VCONN_CAS

The number of reserved virtual connection for the case of connection attempt is either successful or unsuccessful.

Data Source

MGW

Source Field

M645C12

Source Section

H.248

ALL_VCONN_CAS_UNSUCCESS

The number of reserved virtual connection for the case of connection attempt is unsuccessful.
All cause codes belong here.

Data Source

MGW

Source Field

M645C13

Source Section

H.248

ANN_REQUESTS

Announcement requests to NE.

Data Source

MGW

Source Field

M656C0

Source Section

Announcements

AVERAGE_LOAD

Average Load for monitored computer unit.

Data Source

MGW

Source Field

M592C0

Source Section

Computer Unit Load

BSY_COUNT

Rx buffers exhausted (busy condition) when receiving AAL5 frame. Processing time for received frames are too long and/or there are not enough buffers available.

Data Source

MGW

Source Field

M549C7

Source Section

Chorus AAL5 protocol

CELL_DISCARD_CNT

Discarded cells by the SAR (Segmentation and Reassembly) (STR-NM-M4NE-REQ- 02.00). Received cells are discarded if the Virtual Channel Connection (VCC) on which the cells are mapped is not active in SAR.

Data Source

MGW

Source Field

M547C2

Source Section

AAL5 Protocol

CELL_RX_CNT

Received cells. The amount of cells received for active virtual channel connections (VCC) by Segmentation and Reassembly (SAR).

Data Source

MGW

Source Field

M547C1

Source Section

AAL5 Protocol

CELL_TX_CNT

Transmitted cells. The amount of cells sent by Segmentation and Reassembly (SAR). Cell transmitted counter.

Data Source

MGW

Source Field

M547C0

Source Section

AAL5 Protocol

Computer_Unit_Release

Computer Unit Release

Data Source

MGW

Source Field

RELEASE

Source Section

Configuration

CRC32E_COUNT

The number of RX CRC32 parity error in AAL5 PDU. Loss of ATM cells or bit errors has caused corruption of the received AAL5 frame.

Data Source

MGW

Source Field

M549C10

Source Section

Chorus AAL5 protocol

DISCONNECT_TIME

This parameter shows as seconds the disconnect time when the computer unit is not in WO-EX or SP-EX state.

Data Source

MGW

Source Field

M608C4

Source Section

Computer Unit disconnect time

DUPLEX_DISCONNECT_TIME

This parameter shows the disconnect time of duplicated computer units as seconds, when neither of the units is in WO-EX or SP-EX state. The parameter is updated when the working unit returns to WO-EX state.

Data Source

MGW

Source Field

M608C3

Source Section

Computer Unit disconnect time

DUPLEX_RESTARTS

Amount of duplicated computer unit restarts when both units have been restarted at the same time.

Data Source

MGW

Source Field

M608C2

Source Section

Computer Unit Restarts

E_CLP0_DROP

Total Egress CLP0 Cells Discarded due to Thresholding. This counter tells how many high priority cells the buffer management has discarded on egress.

Data Source

MGW

Source Field

M528C24

Source Section

ATM Layer

E_CLP1_DROP

Total Ingress CLP1 Cells Discarded due to Thresholding. This counter tells how many low priority cells the buffer management has discarded on egress. When the buffer fill level exceeds CLP1 thresholds, only CLP0 cells are accepted to buffer and CLP1 cells are discarded.

Data Source

MGW

Source Field

M528C8

Source Section

ATM Layer

E_EPD_DROP

Total cells discarded to EPD on egress. When congestion occurs and buffers are filling, Early Packet Discard (EPD) discards new packets arriving at a queue.

Data Source

MGW

Source Field

M528C10

Source Section

ATM Layer

E_ERR_BRAM

Egress cells discarded due to check sum errors.

Data Source

MGW

Source Field

M528C26

Source Section

ATM Layer

E_ERR_FI

Total egress cells discarded due to parity errors at fabric interface.

Data Source

MGW

Source Field

M528C28

Source Section

ATM Layer

E_ERR_LOOKUP

Egress cells discarded on connection lookup. When the cell is received, the information about the connection is read from the header. The cells are discarded due to wrong destination or erroneous.

Data Source

MGW

Source Field

M528C29

Source Section

ATM Layer

E_FRAMES_EPD_DROP

Total frames discarded to EPD on egress. Total amount of AAL5 packets that Early Packet Discard (EPD) discards. Frame means here an AAL5 packet.

Data Source

MGW

Source Field

M528C11

Source Section

ATM Layer

E_PPD_DROP

Total cells discarded to PPD on egress. Partial Packet Discard (PPD) discards all the cells associated with the packet discarded during buffer overflow.

Data Source

MGW

Source Field

M528C9

Source Section

ATM Layer

E_RCV_FROM_FI

Total egress cells received at fabric interface. Cells received at one of the interfaces of the switching fabric ports.

Data Source

MGW

Source Field

M528C27

Source Section

ATM Layer

E_TRANSMIT_TO_PHY

Total number of egress cells transmitted to the PHY devices. The count of cells transmitted to the physical layer.

Data Source

MGW

Source Field

M528C25

Source Section

ATM Layer

FAMILY_RESTARTS

The parameter is not updated when the total unit restart happens.

Data Source

MGW

Source Field

M608C5

Source Section

Computer Unit disconnect time

H248_LOAD_BALANCING_TRIG_CPU

The number of times when the CPU load is the triggering factor given to Load Balancer.

Data Source

MGW

Source Field

M645C15

Source Section

H.248

H248_LOAD_BALANCING_TRIG_CTX

The number of times when the Context Amount is the triggering factor given to Load Balancer.

Data Source

MGW

Source Field

M645C14

Source Section

H.248

I_CLP0_DROP

Number of high priority cells buffer management has discarded on ingress.

Data Source

MGW

Source Field

M528C16

Source Section

ATM Layer

I_CLP1_DROP

Total Ingress CLP1 (Cell Loss Priority1) Cells Discarded due to Thresholding.

Data Source

MGW

Source Field

M528C2

Source Section

ATM Layer

I_EPD_DROP

Total cells discarded to EPD (Early Packet Disregard) on ingress. When congestion occurs and buffers are filling.

Data Source

MGW

Source Field

M528C4

Source Section

ATM Layer

I_ERR_BRAM

Ingress cells discarded due to check sum errors. If a checksum error is detected when a cell is read from the buffer memory, the cell is discarded.

Data Source

MGW

Source Field

M528C20

Source Section

ATM Layer

I_ERR_CRC

Ingress cells discarded due to Cyclic Redundancy Check (CRC) errors. The count of cells detecting errors in the transmission of data using a polynomial code and cyclic check character.

Data Source

MGW

Source Field

M528C22

Source Section

ATM Layer

I_ERR_HEADER

Total ATM header errors. This bit indicates that an invalid VPI/VCI was detected in an ingress cell.

Data Source

MGW

Source Field

M528C23

Source Section

ATM Layer

I_FRAMES_EPD_DROP

Total frames discarded to EPD (Early Packet Discards) on ingress. (Total amount of AAL5 packets that EPD discards. Frame indicates an AAL5 packet.)

Data Source

MGW

Source Field

M528C5

Source Section

ATM Layer

I_POLICING_OP

Ingress cells discarded due to policing action.

Data Source

MGW

Source Field

M528C19

Source Section

ATM Layer

I_PPD_DROP

Total cells discarded to PPD (Partial Packet Discard) on ingress. (PPD discards all the cells associated with the packet discarded during buffer overflow.)

Data Source

MGW

Source Field

M528C3

Source Section

ATM Layer

I_TAGGED

Ingress cells tagged due to policing action. This counter tells how many higher priority cells have been tagged to lower priority by UPC/NPC.

Data Source

MGW

Source Field

M528C18

Source Section

ATM Layer

I_TRANSMIT_TO_FABRIC

Total number of ingress cells transmitted to the switch fabric.

Data Source

MGW

Source Field

M528C17

Source Section

ATM Layer

I_UTIOPIA_ERR

Ingress cells discarded due to parity errors at UTOPIA (Universal Test & Operations Physical Interface for ATM) interface. Count of cells when error was detected as a result of a parity check at Universal Test & Operations Interface for ATM.

Data Source

MGW

Source Field

M528C21

Source Section

ATM Layer

ICP6S_BADCODE

ICMPv6 messages with bad (invalid) code fields.

Data Source

MGW

Source Field

M563C190

Source Section

IP Interface

ICP6S_BADLEN

ICMPv6 messages with bad length (invalid ICMPv6 body).

Data Source

MGW

Source Field

M563C193

Source Section

IP Interface

ICP6S_CANTERROR

Old ICMPv6 messages generated because the old packet protocol was ICMPv6 error message.

Data Source

MGW

Source Field

M563C171

Source Section

IP Interface

ICP6S_CHECKSUM

ICMPv6 message with bad (invalid) checksum.

Data Source

MGW

Source Field

M563C192

Source Section

IP Interface

ICP6S_DSTUNREACHADDR

ICMPv6 Destination Unreachable messages with address unreachable (3) code.

Data Source

MGW

Source Field

M563C215

Source Section

IP Interface

ICP6S_DSTUNREACHADMIN

ICMPv6 Destination Unreachable messages with communication with destination administratively prohibited (1) code.

Data Source

MGW

Source Field

M563C213

Source Section

IP Interface

ICP6S_DSTUNREACHBEYONDScope

ICMPv6 Destination Unreachable messages with beyond scope(2) code.

Data Source

MGW

Source Field

M563C214

Source Section

IP Interface

ICP6S_DSTUNREACHNOPORT

ICMPv6 Destination Unreachable messages with port unreachable (4) code.

Data Source

MGW

Source Field

M563C216

Source Section

IP Interface

ICP6S_DSTUNREACHNOROUTE

ICMPv6 Destination Unreachable messages with no route to destination (0) code.

Data Source

MGW

Source Field

M563C212

Source Section

IP Interface

ICP6S_ERROR

ICMPv6 messages with specific errors such as ICMP checksum, bad length, lack of buffer etc.

Data Source

MGW

Source Field

M563C170

Source Section

IP Interface

ICP6S_INDSTUNREACH

Received ICMPv6 Destination Unreachable messages.

Data Source

MGW

Source Field

M563C195

Source Section

IP Interface

ICP6S_INECHO

Received ICMPv6 Echo Request messages.

Data Source

MGW

Source Field

M563C199

Source Section

IP Interface

ICP6S_INECHOREPLY

Received ICMPv6 Echo Reply messages.

Data Source

MGW

Source Field

M563C200

Source Section

IP Interface

ICP6S_INMLDDONE

Received ICMPv6 Multicast Listener Done messages.

Data Source

MGW

Source Field

M563C203

Source Section

IP Interface

ICP6S_INMLDQUERY

Received ICMPv6 Multicast Listener Query messages.

Data Source

MGW

Source Field

M563C201

Source Section

IP Interface

ICP6S_INMLDREPORT

Received ICMPv6 Multicast Listener Report messages.

Data Source

MGW

Source Field

M563C202

Source Section

IP Interface

ICP6S_INNEIGHBORADVERT

Received ICMPv6 Neighbour Advertisement messages.

Data Source

MGW

Source Field

M563C207

Source Section

IP Interface

ICP6S_INNEIGHBORSOLICIT

Received ICMPv6 Neighbour Solicitation messages.

Data Source

MGW

Source Field

M563C206

Source Section

IP Interface

ICP6S_INNIQUERY

Received ICMPv6 Node Information Query messages.

Data Source

MGW

Source Field

M563C210

Source Section

IP Interface

ICP6S_INNIREPLY

Received ICMPv6 Node Information Reply messages.

Data Source

MGW

Source Field

M563C211

Source Section

IP Interface

ICP6S_INPARAMPROB

Received ICMPv6 Parameter Problem messages.

Data Source

MGW

Source Field

M563C198

Source Section

IP Interface

ICP6S_INPKTTOOBIG

Received ICMPv6 Packet Too Big messages.

Data Source

MGW

Source Field

M563C196

Source Section

IP Interface

ICP6S_INREDIRECT

Received ICMPv6 Redirect messages.

Data Source

MGW

Source Field

M563C208

Source Section

IP Interface

ICP6S_INROUTEREDVERT

Received ICMPv6 Router Advertisement messages.

Data Source

MGW

Source Field

M563C205

Source Section

IP Interface

ICP6S_INROUTERRENUMBER

Received ICMPv6 Router Renumbering messages.

Data Source

MGW

Source Field

M563C209

Source Section

IP Interface

ICP6S_INROUTERSOLICIT

Received ICMPv6 Router Solicitation messages.

Data Source

MGW

Source Field

M563C204

Source Section

IP Interface

ICP6S_INTIMEEXCEED

Received ICMPv6 Time Exceeded messages.

Data Source

MGW

Source Field

M563C197

Source Section

IP Interface

ICP6S_ND_TOOMANYOPT

ICMPv6 messages with too many ND (Neighbour Discover) options.

Data Source

MGW

Source Field

M563C225

Source Section

IP Interface

ICP6S_OUTDSTUNREACH

Sent ICMPv6 Destination Unreachable messages.

Data Source

MGW

Source Field

M563C173

Source Section

IP Interface

ICP6S_OUTECHO

Sent ICMPv6 Echo Request messages.

Data Source

MGW

Source Field

M563C177

Source Section

IP Interface

ICP6S_OUTECHOREPLY

Sent ICMPv6 Echo Reply messages.

Data Source

MGW

Source Field

M563C178

Source Section

IP Interface

ICP6S_OUTMLDDONE

Sent ICMPv6 Multicast Listener Done messages.

Data Source

MGW

Source Field

M563C181

Source Section

IP Interface

ICP6S_OUTMLDQUERY

Sent ICMPv6 Multicast Listener Query messages.

Data Source

MGW

Source Field

M563C179

Source Section

IP Interface

ICP6S_OUTMLDREPORT

Sent ICMPv6 Multicast Listener Report messages.

Data Source

MGW

Source Field

M563C180

Source Section

IP Interface

ICP6S_OUTNEIGHBORADVERT

Sent ICMPv6 Neighbour Advertisement messages.

Data Source

MGW

Source Field

M563C185

Source Section

IP Interface

ICP6S_OUTNEIGHBORSOLICIT

Sent ICMPv6 Neighbour Solicitation messages.

Data Source

MGW

Source Field

M563C184

Source Section

IP Interface

ICP6S_OUTNIQUERY

Sent ICMPv6 Node Information Query messages.

Data Source

MGW

Source Field

M563C188

Source Section

IP Interface

ICP6S_OUTNIREPLY

Sent ICMPv6 Node Information Reply messages.

Data Source

MGW

Source Field

M563C189

Source Section

IP Interface

ICP6S_OUTPARAMPROB

Sent ICMPv6 Parameter Problem messages.

Data Source

MGW

Source Field

M563C176

Source Section

IP Interface

ICP6S_OUTPKTTOOBIG

Sent ICMPv6 Packet Too Big messages.

Data Source

MGW

Source Field

M563C174

Source Section

IP Interface

ICP6S_OUTREDIRECT

Sent ICMPv6 Redirect messages. For a host, this object will always be zero, since hosts do not send redirects.

Data Source

MGW

Source Field

M563C186

Source Section

IP Interface

ICP6S_OUTROUTEREDVERT

Sent ICMPv6 Router Advertisement messages.

Data Source

MGW

Source Field

M563C183

Source Section

IP Interface

ICP6S_OUTROUTERRENUMBER

Sent ICMPv6 Router Renumbering messages.

Data Source

MGW

Source Field

M563C187

Source Section

IP Interface

ICP6S_OUTROUTERSOLICIT

Sent ICMPv6 Router Solicitation messages The number of ICMP Router Solicitation messages sent.

Data Source

MGW

Source Field

M563C182

Source Section

IP Interface

ICP6S_OUTTIMEEXCEED

Sent ICMPv6 Time Exceeded messages.

Data Source

MGW

Source Field

M563C175

Source Section

IP Interface

ICP6S_PAKETTOOBIG

ICMPv6 Packet Too Big messages (with code 0).

Data Source

MGW

Source Field

M563C217

Source Section

IP Interface

ICP6S_PARAMPROBHEADER

ICMPv6 Parameter Problem messages with erroneous header fieldencountered (0) code.

Data Source

MGW

Source Field

M563C220

Source Section

IP Interface

ICP6S_PARAMPROBNEXTHEADER

ICMPv6 Parameter Problem messages with unrecognized Next Header type encountered (1) code.

Data Source

MGW

Source Field

M563C221

Source Section

IP Interface

ICP6S_PARAMPROBOPTION

ICMPv6 Parameter Problem messages with unrecognized IPv6 option encountered (2) code.

Data Source

MGW

Source Field

M563C222

Source Section

IP Interface

ICP6S_REDIRECT

ICMPv6 Redirect messages.

Data Source

MGW

Source Field

M563C223

Source Section

IP Interface

ICP6S_REFLECT

ICMPv6 message reflects (responses generated).

Data Source

MGW

Source Field

M563C194

Source Section

IP Interface

ICP6S_TIMEEXCEEDTRANSIT

ICMPv6 Time Exceeded messages with hop limit exceeded in transit(0) code.

Data Source

MGW

Source Field

M563C218

Source Section

IP Interface

ICP6S_TIMEEXCEEDREASSEMBLY

ICMPv6 Time Exceeded messages with fragment reassembly timeexceeded (1) code.

Data Source

MGW

Source Field

M563C219

Source Section

IP Interface

ICP6S_TOOFREQ

Errors not generated because of rate limitation.

Data Source

MGW

Source Field

M563C172

Source Section

IP Interface

ICP6S_TOOSHORT

Too short ICMPv6 messages, length of the ICMPv6 header shorter than the minimum length.

Data Source

MGW

Source Field

M563C191

Source Section

IP Interface

ICP6S_UNKNOWN

Unknown ICMP messages.

Data Source

MGW

Source Field

M563C224

Source Section

IP Interface

ICPS_BADCODE

ICMPv4 messages with bad code fields.

Data Source

MGW

Source Field

M563C47

Source Section

IP Interface

ICPS_BADLEN

ICMP messages with bad length. The number of ICMP messages with invalid ICMP body.

Data Source

MGW

Source Field

M563C50

Source Section

IP Interface

ICPS_CHECKSUM

ICMP message bad checksum.

Data Source

MGW

Source Field

M563C49

Source Section

IP Interface

ICPS_ERROR

ICMPv4 packets with errors. The number of ICMP (Internet Control Message Protocol) messages having ICMP specific errors such as ICMP checksum, bad length, lack of buffer etc.

Data Source

MGW

Source Field

M563C30

Source Section

IP Interface

ICPS_INECHO

Received ICMPv4 Echo messages.

Data Source

MGW

Source Field

M563C36

Source Section

IP Interface

ICPS_INECHOREPLY

Received ICMPv4 Echo Reply messages.

Data Source

MGW

Source Field

M563C32

Source Section

IP Interface

ICPS_INIREQ

Received ICMPv4 Information Request messages.

Data Source

MGW

Source Field

M563C43

Source Section

IP Interface

ICPS_INIREQREPLY

Received ICMPv4 Information Reply messages.

Data Source

MGW

Source Field

M563C44

Source Section

IP Interface

ICPS_INMASKREPLY

Received ICMPv4 Address Mask Reply messages.

Data Source

MGW

Source Field

M563C46

Source Section

IP Interface

ICPS_INMASKREQ

Received ICMPv4 Address Mask Request messages.

Data Source

MGW

Source Field

M563C45

Source Section

IP Interface

ICPS_INPARAMPROB

Received ICMPv4 Parameter Problem messages.

Data Source

MGW

Source Field

M563C40

Source Section

IP Interface

ICPS_INREDIRECT

Received ICMPv4 Redirect messages.

Data Source

MGW

Source Field

M563C35

Source Section

IP Interface

ICPS_INROUTERADVERT

Received ICMPv4 Router Advertisement messages.

Data Source

MGW

Source Field

M563C37

Source Section

IP Interface

ICPS_INROUTERSOLICIT

Received ICMPv4 Router Solicitation messages.

Data Source

MGW

Source Field

M563C38

Source Section

IP Interface

ICPS_INSOURCEQUENCH

Received ICMPv4 Source Quench messages.

Data Source

MGW

Source Field

M563C34

Source Section

IP Interface

ICPS_INTIMXCEED

Received ICMPv4 Time Exceeded messages.

Data Source

MGW

Source Field

M563C39

Source Section

IP Interface

ICPS_INTSTAMP

Received ICMPv4 Timestamp messages.

Data Source

MGW

Source Field

M563C41

Source Section

IP Interface

ICPS_INTSTAMPREPLY

Received ICMPv4 Timestamp Reply messages.

Data Source

MGW

Source Field

M563C42

Source Section

IP Interface

ICPS_INUNREACH

Received ICMPv4 Destination Unreachable messages.

Data Source

MGW

Source Field

M563C33

Source Section

IP Interface

ICPS_OLDICMP

Old ICMP messages. Number of times when errors were not generated, because the old packet protocol was an ICMP error message.

Data Source

MGW

Source Field

M563C31

Source Section

IP Interface

ICPS_OUTECHO

Sent ICMPv4 Echo messages.

Data Source

MGW

Source Field

M563C55

Source Section

IP Interface

ICPS_OUTECHOREPLY

Sent ICMPv4 Echo Reply messages.

Data Source

MGW

Source Field

M563C51

Source Section

IP Interface

ICPS_OUTIREQ

Sent ICMPv4 Information Request messages.

Data Source

MGW

Source Field

M563C62

Source Section

IP Interface

ICPS_OUTIREQREPLY

Sent ICMPv4 Information Reply messages.

Data Source

MGW

Source Field

M563C63

Source Section

IP Interface

ICPS_OUTMASKREPLY

Sent ICMPv4 Address Mask Reply messages.

Data Source

MGW

Source Field

M563C65

Source Section

IP Interface

ICPS_OUTMASKREQ

Sent ICMPv4 Address Mask Request messages.

Data Source

MGW

Source Field

M563C64

Source Section

IP Interface

ICPS_OUTPARAMPROB

Sent ICMPv4 Parameter Problem messages.

Data Source

MGW

Source Field

M563C59

Source Section

IP Interface

ICPS_OUTREDIRECT

Sent ICMPv4 Redirect messages.

Data Source

MGW

Source Field

M563C54

Source Section

IP Interface

ICPS_OUTROUTERADVERT

Sent ICMPv4 Router Advertisement messages.

Data Source

MGW

Source Field

M563C56

Source Section

IP Interface

ICPS_OUTROUTERSOLICIT

Sent ICMPv4 Router Solicitation messages.

Data Source

MGW

Source Field

M563C57

Source Section

IP Interface

ICPS_OUTSOURCE_QUENCH

Sent ICMPv4 Source Quench messages.

Data Source

MGW

Source Field

M563C53

Source Section

IP Interface

ICPS_OUTTIMXCEED

Sent ICMPv4 Time Exceeded messages.

Data Source

MGW

Source Field

M563C58

Source Section

IP Interface

ICPS_OUTTSTAMP

Sent ICMPv4 Timestamp messages.

Data Source

MGW

Source Field

M563C60

Source Section

IP Interface

ICPS_OUTTSTAMPREPLY

Sent ICMPv4 Timestamp Reply messages.

Data Source

MGW

Source Field

M563C61

Source Section

IP Interface

ICPS_OUTUNREACH

Sent ICMPv4 Destination Unreachable messages

Data Source

MGW

Source Field

M563C52

Source Section

IP Interface

ICPS_REFLECT

ICMP message reflects.

Data Source

MGW

Source Field

M563C66

Source Section

IP Interface

ICPS_TOOSHORT

Too short ICMP messages.

Data Source

MGW

Source Field

M563C48

Source Section

IP Interface

ILLEGAL_SYNTAXI

Illegal syntax in announcement request.

Data Source

MGW

Source Field

M656C1

Source Section

Announcements

INCORRECT_FIELDS

Incorrect Fields (STR-NM-M4NE-REQ-02.00). Incorrect length of the received Common Part Convergence Sublayer Protocol Data Unit (CPSC-PDU) PAD field; cells disappeared on the way or Cyclic Redundancy Check - 32 (CRC-32) violation of trailer i.e. data disappeared or bit error.

Data Source

MGW

Source Field

M547C5

Source Section

AAL5 Protocol

INVALID_FIELDS

Invalid Fields due to an invalid Common Part Indication (CPI) in the trailer (STR-NM-M4NE-REQ-02.00). (An oversized received (Service Data Unit) SDU or received packet length violation.)

Data Source

MGW

Source Field

M547C4

Source Section

AAL5 Protocol

IP6S_BADOPTIONS

Incoming IPv6 packets with option errors. The number of input IPv6 datagrams discarded due to errors discovered in processing their IPv6 options.

Data Source

MGW

Source Field

M563C143

Source Section

IP Interface

IP6S_BADSCOPE

IPv6 packets that violated scope rules.

Data Source

MGW

Source Field

M563C161

Source Section

IP Interface

IP6S_BADVERS

Incoming IPv6 packets with version errors. The number of input datagrams discarded due to version number mismatching their IPv6 headers.

Data Source

MGW

Source Field

M563C144

Source Section

IP Interface

IP6S_CANTFORWARD

Received IPv6 packets not forwardable. The number of input datagrams discarded because the IP address in their IPv6 header destination field was not a valid address to be forwarded.

Data Source

MGW

Source Field

M563C152

Source Section

IP Interface

IP6S_CANTFRAG

IPv6 packets fragment failed. The number of IPv6 datagrams that have been discarded because they needed to be fragmented at this entity but could not be.

Data Source

MGW

Source Field

M563C160

Source Section

IP Interface

IP6S_DELIVERED

Incoming IPv6 packets delivered. The total number of datagrams successfully delivered to IPv6 user-protocols (including ICMP).

Data Source

MGW

Source Field

M563C150

Source Section

IP Interface

IP6S_EXTHDRTOOLONG

IPv6 packets whose headers are not continuous.

Data Source

MGW

Source Field

M563C167

Source Section

IP Interface

IP6S_FORWARD

Outgoing IPv6 packets forwarded. The number of output datagrams which this entity received and forwarded to their final destinations.

Data Source

MGW

Source Field

M563C151

Source Section

IP Interface

IP6S_FRAGDROPPED

IPv6 fragments dropped due to duplicates or out of space.

Data Source

MGW

Source Field

M563C146

Source Section

IP Interface

IP6S_FRAGMENTED

Outgoing IPv6 packets fragmented. The number of outgoing IPv6 datagrams that have been successfully fragmented at this entity.

Data Source

MGW

Source Field

M563C158

Source Section

IP Interface

IP6S_FRAGMENTS

IPv6 fragments received

Data Source

MGW

Source Field

M563C145

Source Section

IP Interface

IP6S_FRAGOVERFLOW

Overflowed IPv6 fragments that exceeded the limit.

Data Source

MGW

Source Field

M563C148

Source Section

IP Interface

IP6S_FRAGTIMEOUT

IPv6 fragments dropped after time out.

Data Source

MGW

Source Field

M563C147

Source Section

IP Interface

IP6S_LOCALOUT

IPv6 packets sent from this host. The total number of IPv6 datagrams generated at the system, not forwarded.

Data Source

MGW

Source Field

M563C154

Source Section

IP Interface

IP6S_M1

Usage of one memory buffer that has been used by the networking protocols.

Data Source

MGW

Source Field

M563C163

Source Section

IP Interface

IP6S_M2M

Usage of two or more memory buffers that have been used by the networking protocols.

Data Source

MGW

Source Field

M563C164

Source Section

IP Interface

IP6S_MEXT1

Usage of one external memory buffer that has been used by the networking protocols.

Data Source

MGW

Source Field

M563C165

Source Section

IP Interface

IP6S_MEXT2M

Two or more external memory buffers usage that have been used by the networking protocols.

Data Source

MGW

Source Field

M563C166

Source Section

IP Interface

IP6S_NOGIF

Tunnelling IPv6 packets that cannot find gif (psuedo general purpose interface).

Data Source

MGW

Source Field

M563C168

Source Section

IP Interface

IP6S_NOROUTE

Incoming IPv6 packets with no route. The number of input datagrams discarded because no route could be found to transmit them to their destination.

Data Source

MGW

Source Field

M563C157

Source Section

IP Interface

IP6S_NOTMEMBER

Multicast IPv6 packets which do not join.

Data Source

MGW

Source Field

M563C162

Source Section

IP Interface

IP6S_ODROPPED

Outgoing IPv6 packets discarded. The number of output IPv6 datagrams for which no problem was encountered to prevent their transmission to their destination, but which were discarded (e.g. for lack of buffer space).

Data Source

MGW

Source Field

M563C156

Source Section

IP Interface

IP6S_OFragments

Outgoing IPv6 packet fragments created. The number of outgoing IPv6 datagram fragments that have been generated as a result of fragmentation at this entity.

Data Source

MGW

Source Field

M563C159

Source Section

IP Interface

IP6S_RAWOUT

Raw IPv6 packets sent with fabricated IPv6 header.

Data Source

MGW

Source Field

M563C155

Source Section

IP Interface

IP6S_REASSEMBLED

IPv6 packets reassembled ok. The number of IPv6 datagrams successfully re-assembled.

Data Source

MGW

Source Field

M563C149

Source Section

IP Interface

IP6S_REDIRECTSEND

IPv6 redirect messages sent.

Data Source

MGW

Source Field

M563C153

Source Section

IP Interface

IP6S_TOOMANYHDR

IPv6 packets discarded due to too many headers.

Data Source

MGW

Source Field

M563C169

Source Section

IP Interface

IP6S_TOOSHORT

Too short IPv6 packets. The number of discarded IPv6 datagrams with invalid data length.

Data Source

MGW

Source Field

M563C141

Source Section

IP Interface

IP6S_TOOSMALL

Too small IPv6 packets. The number of discarded IPv6 datagrams due to too small to contain IP packet.

Data Source

MGW

Source Field

M563C142

Source Section

IP Interface

IP6S_TOTAL

IPv6 packets received. The total number of input datagrams received by the interface, including those received in error.

Data Source

MGW

Source Field

M563C140

Source Section

IP Interface

IPS_BADADDR

Invalid address in the header of IP packet. The number of discarded IP datagrams that have failures in selection of source address.

Data Source

MGW

Source Field

M563C29

Source Section

IP Interface

IPS_BADFRAGS

Malformed IP fragments dropped

Data Source

MGW

Source Field

M563C13

Source Section

IP Interface

IPS_BADHLEN

Received IP packets with bad header length. Input IP datagrams discarded due to invalid header length.

Data Source

MGW

Source Field

M563C5

Source Section

IP Interface

IPS_BADLEN

Received IP packets with bad length. Input IP datagrams discarded due to inconsistent IP header and IP data length.

Data Source

MGW

Source Field

M563C6

Source Section

IP Interface

IPS_BADOPTIONS

Received IP packets with errors in IP options. Input IP datagrams discarded due to errors discovered in processing their header IP options.

Data Source

MGW

Source Field

M563C7

Source Section

IP Interface

IPS_BADSUM

Received IP packets with errored checksum. Input IP datagrams discarded due to errors in their checksums.

Data Source

MGW

Source Field

M563C1

Source Section

IP Interface

IPS_BADVERS

Received IP packets with version errors. Input IP datagrams discarded due to version number mismatch.

Data Source

MGW

Source Field

M563C8

Source Section

IP Interface

IPS_CANTFORWARD

Received IP packets not forwardable. The number of input datagrams discarded because the IP address in their IP header destination field was not a valid address to be forwarded.

Data Source

MGW

Source Field

M563C18

Source Section

IP Interface

IPS_CANTFRAG

IP packets fragment failed. The number of IP datagrams that have been discarded, because they needed to be fragmented at this entity but could not be.

Data Source

MGW

Source Field

M563C27

Source Section

IP Interface

IPS_DELIVERED

Received IP packets delivered successfully. Total number of input IP datagrams successfully delivered.

Data Source

MGW

Source Field

M563C15

Source Section

IP Interface

IPS_DROPPED

Outgoing IP packets discarded. The number of output IP datagrams in which no problem was encountered that would prevent their transmission to their destination, but which were discarded because of shortage of resource, for example lack of buffer space.

Data Source

MGW

Source Field

M563C22

Source Section

IP Interface

IPS_FASTFORWARD

IP packets fast-forwarded.

Data Source

MGW

Source Field

M563C26

Source Section

IP Interface

IPS_FORWARD

Forwarded IP packets. The number of input IP datagrams for which this entity was not their final IP destination as a result of which an attempt was made to find a route to forward them to that final destination.

Data Source

MGW

Source Field

M563C17

Source Section

IP Interface

IPS_FRAGDROPPED

IP fragments dropped. Discarded IP fragments due to duplicates or out of space.

Data Source

MGW

Source Field

M563C10

Source Section

IP Interface

IPS_FRAGMENTED

Outgoing IP packets fragmented. The number of outgoing IP datagrams that have been successfully fragmented at this entity.

Data Source

MGW

Source Field

M563C24

Source Section

IP Interface

IPS_FRAGMENTS

IP fragments received.

Data Source

MGW

Source Field

M563C9

Source Section

IP Interface

IPS_FRAGTIMEOUT

IP fragments timed out. IP fragments dropped after time out.

Data Source

MGW

Source Field

M563C11

Source Section

IP Interface

IPS_LOCALOUT

IP packets sent from this host. The total number of IP datagrams generated at the system, not forwarded.

Data Source

MGW

Source Field

M563C20

Source Section

IP Interface

IPS_NOGIF

No match gif IP packets. Tunneling IP packets that cannot find match gif (psuedo general purpose interface).

Data Source

MGW

Source Field

M563C28

Source Section

IP Interface

IPS_NOPROTO

Received IP packets with unknown protocol. The number of locally-addressed datagrams received successfully but discarded because of an unknown or unsupported protocol.

Data Source

MGW

Source Field

M563C16

Source Section

IP Interface

IPS_NOROUTE

Outgoing IP packets, no route found. The number of IP datagrams discarded, because no route could be found to transmit them to their destination.

Data Source

MGW

Source Field

M563C23

Source Section

IP Interface

IPS_OFRAGMENTS

Outgoing IP packet fragments created. The number of outgoing IP datagram fragments that have been generated as a result of fragmentation at this entity.

Data Source

MGW

Source Field

M563C25

Source Section

IP Interface

IPS_RAWOUT

Raw IP packets. The total number of IP packets generated. The number of packets sent with fabricated IP header.

Data Source

MGW

Source Field

M563C21

Source Section

IP Interface

IPS_RCVMEMDROP

IP fragments dropped due to lack of memory

Data Source

MGW

Source Field

M563C12

Source Section

IP Interface

IPS_REASSEMBLED

Reassembled IP packets. IP datagrams successfully re-assembled.

Data Source

MGW

Source Field

M563C14

Source Section

IP Interface

IPS_REDIRECTSENT

Redirect messages sent. The number of sent redirect messages.

Data Source

MGW

Source Field

M563C19

Source Section

IP Interface

IPS_TOOLONG

Too long IP packets received. Discarded IP datagrams whose length is longer than the maximum IP packet size.

Data Source

MGW

Source Field

M563C4

Source Section

IP Interface

IPS_TOOSHORT

Too short IP packets received. Discarded IP datagrams with invalid data length.

Data Source

MGW

Source Field

M563C3

Source Section

IP Interface

IPS_TOOSMALL

Too small IP packets received. Discarded IP datagrams due to too small to contain IP packet.

Data Source

MGW

Source Field

M563C2

Source Section

IP Interface

IPS_TOTAL

Received IP packets. Total number of input IP datagrams received from interfaces, including those received in error.

Data Source

MGW

Source Field

M563C0

Source Section

IP Interface

LNE_COUNT

The RX length error counter. AAL5 CPCS-PDU length violation.

Data Source

MGW

Source Field

M549C9

Source Section

Chorus AAL5 protocol

LOST_RTP_PACKETS

Retired in RP12.1: Total number of lost RTP data packets that are not received according to received sequence numbers.

Data Source

MGW

Source Field

M646C5

Source Section

RTP

MIC_COUNT

The number of misinserted cells (MIC) dropped as a result of an address look-up failure. VPI/VCI of the cell header was not according to any initialized channel.

Data Source

MGW

Source Field

M549C1

Source Section

Chorus AAL5 protocol

PEAK_LOAD

Peak Load of monitored computer unit.

Data Source

MGW

Source Field

M592C1

Source Section

Computer Unit Load

PERLENSEC

Period Length

Data Source

MGW

Source Field

PERLENSEC

Source Section

Period Length

RECEIVED_RTP_OCTETS

Retired in RP12.1: Total number of received payload octets (not including header or padding) transmitted in RTP data packets. Retired in RP12.1: Number of payload octets depends on used codec.

Data Source

MGW

Source Field

M646C3

Source Section

RTP

RECEIVED_RTP_PACKETS

Retired in RP12.1: Total number of received RTP data packets.

Data Source

MGW

Source Field

M646C2

Source Section

RTP

RESTART_SYS

The number of times a DSP is restarted by the system.

Data Source

MGW

Source Field

M612C0

Source Section

DSP_state

RESTART_USER

The number of times a DSP is restarted by a command operator.

Data Source

MGW

Source Field

M612C1

Source Section

DSP_state

RSM_TIMER_EXP

Reassembly timer expirations (STR-NMM4NE-REQ-02.00). When reassembly timer expires, the current Common Part Convergence Sublayer Protocol Data Unit (CPCS-PDU) is discarded.

Data Source

MGW

Source Field

M547C6

Source Section

AAL5 Protocol

RX_ERROR

The overall number of rx errors.

Data Source

MGW

Source Field

M549C6

Source Section

Chorus AAL5 protocol

RX_PDU

The number of received AAL5 CPCS-PDUs.

Data Source

MGW

Source Field

M549C4

Source Section

Chorus AAL5 protocol

RX_SIZE

The number of received bytes.

Data Source

MGW

Source Field

M549C5

Source Section

Chorus AAL5 protocol

SCTP_ABORTED

The number of SCTP association closed with ABORT.

Data Source

MGW

Source Field

M563C240

Source Section

IP Interface

SCTP_ACTIVE_ESTABLISHMENT

The number of SCTP association established actively.

Data Source

MGW

Source Field

M563C237

Source Section

IP Interface

SCTP_BAD_CSUM

Total dropped due to bad checksum.

Data Source

MGW

Source Field

M563C251

Source Section

IP Interface

SCTP_BAD_SSN

Total dropped due to bad stream sequence number.

Data Source

MGW

Source Field

M563C250

Source Section

IP Interface

SCTP_BAD_STREAM_NBR

Total dropped due to bad stream number.

Data Source

MGW

Source Field

M563C253

Source Section

IP Interface

SCTP_BAD_VTAG

Total dropped due to bad verification tag.

Data Source

MGW

Source Field

M563C252

Source Section

IP Interface

SCTP_CURRENT_ESTABLISHMENT

The number of SCTP association established.

Data Source

MGW

Source Field

M563C236

Source Section

IP Interface

SCTP_DROPPED_FRAGMENT

The number of invalid fragment dropped.

Data Source

MGW

Source Field

M563C249

Source Section

IP Interface

SCTP_HEADER_DROPS

Total dropped due to bad header.

Data Source

MGW

Source Field

M563C255

Source Section

IP Interface

SCTP_IN_MULTICAST

Total dropped multicast (SCTP cannot be multicast).

Data Source

MGW

Source Field

M563C254

Source Section

IP Interface

SCTP_NO_MEMORY

Total dropped due to no memory.

Data Source

MGW

Source Field

M563C258

Source Section

IP Interface

SCTP_NO_PORTS

Total dropped due to no endpoint found.

Data Source

MGW

Source Field

M563C257

Source Section

IP Interface

SCTP_PASSIVE_ESTABLISHMENT

The number of SCTP association established passively.

Data Source

MGW

Source Field

M563C238

Source Section

IP Interface

SCTP_RECEIVE_WINDOW_DROPS

Total dropped due to no receive window.

Data Source

MGW

Source Field

M563C256

Source Section

IP Interface

SCTP_RECEIVED_BYTES

The number of bytes of SCTP segment received in sequence.

Data Source

MGW

Source Field

M563C243

Source Section

IP Interface

SCTP_RECEIVED_CHUNK_DATA

The number of DATA chunk received.

Data Source

MGW

Source Field

M563C265

Source Section

IP Interface

SCTP_RECEIVED_CHUNK_HBACK

The number of HEARTBEAT-ACK chunk received.

Data Source

MGW

Source Field

M563C271

Source Section

IP Interface

SCTP_RECEIVED_CHUNK_HBREQ

The number of HEARTBEAT-REQ chunk received.

Data Source

MGW

Source Field

M563C269

Source Section

IP Interface

SCTP_RECEIVED_CHUNK_SACK

The number of SACK chunk received.

Data Source

MGW

Source Field

M563C267

Source Section

IP Interface

SCTP_RECEIVED_CONTROL

The number of SCTP segment with control chunks received.

Data Source

MGW

Source Field

M563C246

Source Section

IP Interface

SCTP_RECEIVED_DATAGRAMS

The number of valid packet received.

Data Source

MGW

Source Field

M563C245

Source Section

IP Interface

SCTP_RECEIVED_DUPLICATED_TSN

The number of SCTP segment with duplicate TSN received.

Data Source

MGW

Source Field

M563C248

Source Section

IP Interface

SCTP_RECEIVED_OOTB

The number of SCTP segment with an out of the blue sequence received.

Data Source

MGW

Source Field

M563C247

Source Section

IP Interface

SCTP_RECEIVED_PACKETS

The number of SCTP packet received.

Data Source

MGW

Source Field

M563C244

Source Section

IP Interface

SCTP_RESTARTED

The number of SCTP association restarted.

Data Source

MGW

Source Field

M563C239

Source Section

IP Interface

SCTP_SENT_BYTES

The number of bytes sent for SCTP segment.

Data Source

MGW

Source Field

M563C259

Source Section

IP Interface

SCTP_SENT_CHUNK_DATA

The number of DATA chunk sent.

Data Source

MGW

Source Field

M563C266

Source Section

IP Interface

SCTP_SENT_CHUNK_HBACK

The number of HEARTBEAT-ACK chunk sent.

Data Source

MGW

Source Field

M563C272

Source Section

IP Interface

SCTP_SENT_CHUNK_HBREQ

The number of HEARTBEAT-REQ chunk sent.

Data Source

MGW

Source Field

M563C270

Source Section

IP Interface

SCTP_SENT_CHUNK_SACK

The number of SACK chunk sent.

Data Source

MGW

Source Field

M563C268

Source Section

IP Interface

SCTP_SENT_CONTROL

The number of SCTP control segment sent.

Data Source

MGW

Source Field

M563C261

Source Section

IP Interface

SCTP_SENT_DATAGRAMS

The number of times when an SCTP segment whose length is more than zero is sent.

Data Source

MGW

Source Field

M563C260

Source Section

IP Interface

SCTP_SENT_FAST_RETRANSMISSIONS

The number of fast retransmission sent.

Data Source

MGW

Source Field

M563C263

Source Section

IP Interface

SCTP_SENT_RETRANSMISSIONS

The number of retransmitted SCTP data sent.

Data Source

MGW

Source Field

M563C262

Source Section

IP Interface

SCTP_SENT_WINDOW_PROBE

The number of window probe sent.

Data Source

MGW

Source Field

M563C264

Source Section

IP Interface

SCTP_SHUTDOWNS

The number of SCTP association closed with SHUTDOWN.

Data Source

MGW

Source Field

M563C241

Source Section

IP Interface

SCTP_TOO_MANY_RETRANSMISSIONS

The number of SCTP association closed due to excessive retransmissions.

Data Source

MGW

Source Field

M563C242

Source Section

IP Interface

SENT_RTCP_PACKETS

Retired in RP12.1: Total number of sent RTCP packets. This is also the total number of sent RTCP Sender Reports (SR).

Data Source

MGW

Source Field

M646C4

Source Section

RTP

SENT_RTP_OCTETS

Retired in RP12.1: Total number of sent payload octets (not including header or padding) transmitted in RTP data packets. Retired in RP12.1: Number of payload octets depends on used codec.

Data Source

MGW

Source Field

M646C1

Source Section

RTP

SENT_RTP_PACKETS

Retired in RP12.1: Total number of sent RTP (Real-time Transport Protocol) data packets.

Data Source

MGW

Source Field

M646C0

Source Section

RTP

SIGNAL_LIST_ERROR_CONT

The number of times when one or more speech announcement Signals fail but playing the rest of the Signals continues.

Data Source

MGW

Source Field

M656C6

Source Section

Announcements

SIGNAL_LIST_ERROR_STOP

The number of times when the first speech announcement Signal fails and playing the rest of the Signals stops.

Data Source

MGW

Source Field

M656C7

Source Section

Announcements

SIGNAL_LIST_REQUEST

The number of times when speech announcement request is received via the H.248 interface and the call is detected as Signal List.

Data Source

MGW

Source Field

M656C5

Source Section

Announcements

TCPS_ACCEPTS_TCP

Connection accepts, synchronize sequence numbers (SYN) received in LISTEN state.

Data Source

MGW

Source Field

M563C101

Source Section

IP Interface

TCPS_BADSYN

Bad TCP connection attempts. Received acknowledgement for which this entity have no synchronize sequence numbers (SYN) in compressed state.

Data Source

MGW

Source Field

M563C118

Source Section

IP Interface

TCPS_CLOSED

Closed TCP connections, includes the number of dropped connections (TCPS_DROPS M563C104.)

Data Source

MGW

Source Field

M563C103

Source Section

IP Interface

TCPS_CONNATTEMPT

TCP connection requests, calls to connect.

Data Source

MGW

Source Field

M563C100

Source Section

IP Interface

TCPS_CONNDROPS

Dropped embryonic TCP connections before synchronize sequence number (SYN) is received.

Data Source

MGW

Source Field

M563C105

Source Section

IP Interface

TCPS_CONNECTS_TCP

Connection established, TCP connections that has been established (actively or passively) including accepted connections (TCPS_ACCEPTS M563C101).

Data Source

MGW

Source Field

M563C102

Source Section

IP Interface

TCPS_DELACK

Delayed ack-only TCP packets. Delayed ACK-only (acknowledgement-only) TCP packets.

Data Source

MGW

Source Field

M563C73

Source Section

IP Interface

TCPS_DROPS

Dropped TCP connections, after synchronize sequence number (SYN) is received.

Data Source

MGW

Source Field

M563C104

Source Section

IP Interface

TCPS_KEEPDROPS

Dropped in keep-alive. TCP connections dropped in keep-alive, the connection established or awaiting synchronize sequence numbers (SYN).

Data Source

MGW

Source Field

M563C113

Source Section

IP Interface

TCPS_KEEPPROBE

Keep-alive probes sent.

Data Source

MGW

Source Field

M563C112

Source Section

IP Interface

TCPS_KEEPTIMEO

Keep-alive timer or connection-establishment timer expires.

Data Source

MGW

Source Field

M563C111

Source Section

IP Interface

TCPS_NOPORT

Dropped TCP packets due to no socket.

Data Source

MGW

Source Field

M563C117

Source Section

IP Interface

TCPS_PAWSDROP

Number of TCP segments dropped due to PAWs (protection against wrapped sequence numbers).

Data Source

MGW

Source Field

M563C87

Source Section

IP Interface

TCPS_PCBHASHMISS

PCB (Protocol Control Block) hash miss, comparison fails.

Data Source

MGW

Source Field

M563C116

Source Section

IP Interface

TCPS_PERSISTTIMEO

Persist timeouts. The number of times that timer persist expires.

Data Source

MGW

Source Field

M563C110

Source Section

IP Interface

TCPS_PREDACK

Prediction correct for ACKs, TCP packet header prediction is correct for ACKs (acknowledgements).

Data Source

MGW

Source Field

M563C114

Source Section

IP Interface

TCPS_PREDDAT

Prediction correct for TCP data packets header prediction.

Data Source

MGW

Source Field

M563C115

Source Section

IP Interface

TCPS_RCVACKBYTE

Received bytes acknowledged by received ACK (acknowledgement) TCP packets.

Data Source

MGW

Source Field

M563C80

Source Section

IP Interface

TCPS_RCVACKPACK

Received ACK (acknowledgement) TCP packets.

Data Source

MGW

Source Field

M563C79

Source Section

IP Interface

TCPS_RCVACKTOOMUCH

Too much ACKs. Received ACKs (acknowledgements) for unsent TCP data.

Data Source

MGW

Source Field

M563C82

Source Section

IP Interface

TCPS_RCVAFTERCLOSE

Received TCP packets after connection is closed.

Data Source

MGW

Source Field

M563C96

Source Section

IP Interface

TCPS_RCVBADOFF

Received TCP packets discarded due to invalid header offset fields, invalid header length.

Data Source

MGW

Source Field

M563C98

Source Section

IP Interface

TCPS_RCVBADSUM

Received TCP packets discarded with checksum errors.

Data Source

MGW

Source Field

M563C97

Source Section

IP Interface

TCPS_RCVBYTE

Received in-sequence TCP bytes.

Data Source

MGW

Source Field

M563C84

Source Section

IP Interface

TCPS_RCVBYTEAFTERWIN

Received TCP bytes of data beyond advertised window.

Data Source

MGW

Source Field

M563C93

Source Section

IP Interface

TCPS_RCVDUPACK

Received acknowledged (acknowledgement) TCP packets.

Data Source

MGW

Source Field

M563C81

Source Section

IP Interface

TCPS_RCVDUPBYTE

Number of received completely duplicate bytes.

Data Source

MGW

Source Field

M563C86

Source Section

IP Interface

TCPS_RCVDUPPACK

Number of received completely duplicate packets.

Data Source

MGW

Source Field

M563C85

Source Section

IP Interface

TCPS_RCVOOBYTE

Received out-of-order TCP bytes.

Data Source

MGW

Source Field

M563C91

Source Section

IP Interface

TCPS_RCVOOPACK

Received out-of-order TCP packets.

Data Source

MGW

Source Field

M563C90

Source Section

IP Interface

TCPS_RCVPACK

Received in-sequence TCP packets.

Data Source

MGW

Source Field

M563C83

Source Section

IP Interface

TCPS_RCVPACKAFTERWIN

Received TCP packets with some data beyond advertised window.

Data Source

MGW

Source Field

M563C92

Source Section

IP Interface

TCPS_RCVPARTDUPBYTE

Received TCP bytes with partially duplicated data.

Data Source

MGW

Source Field

M563C89

Source Section

IP Interface

TCPS_RCVPARTDUPPACK

Received TCP packets with some duplicated data.

Data Source

MGW

Source Field

M563C88

Source Section

IP Interface

TCPS_RCVSHORT

Received TCP packets discarded due to too short TCP packet.

Data Source

MGW

Source Field

M563C99

Source Section

IP Interface

TCPS_RCVTOTAL

Total number of received TCP packets.

Data Source

MGW

Source Field

M563C78

Source Section

IP Interface

TCPS_RCVWINPROBE

Received TCP window probes packets.

Data Source

MGW

Source Field

M563C94

Source Section

IP Interface

TCPS_RCVWINUPD

Received window update TCP packets.

Data Source

MGW

Source Field

M563C95

Source Section

IP Interface

TCPS_REXMTTIMEO

Retransmit timeouts.

Data Source

MGW

Source Field

M563C108

Source Section

IP Interface

TCPS_RTTUPDATED

Round Trip Time (RTT) estimators are updated.

Data Source

MGW

Source Field

M563C106

Source Section

IP Interface

TCPS_SC_ABORTED

TCP packet SYN cache aborted due to no space to build Protocol Control Block (PCB).

Data Source

MGW

Source Field

M563C122

Source Section

IP Interface

TCPS_SC_ADDED

TCP packet SYN cache entries added.

Data Source

MGW

Source Field

M563C119

Source Section

IP Interface

TCPS_SC_BUCKETOVERFLOW

TCP packet SYN cache dropped due to bucket overflow.

Data Source

MGW

Source Field

M563C125

Source Section

IP Interface

TCPS_SC_COLLISIONS

TCP packet SYN cache hash collisions.

Data Source

MGW

Source Field

M563C120

Source Section

IP Interface

TCPS_SC_COMPLETED

TCP packet SYN cache completed.

Data Source

MGW

Source Field

M563C121

Source Section

IP Interface

TCPS_SC_DROPPED

TCP packet SYNs dropped due to no route or no space.

Data Source

MGW

Source Field

M563C129

Source Section

IP Interface

TCPS_SC_DUPESYN

Duplicate TCP packet SYNs received for entries already in the cache.

Data Source

MGW

Source Field

M563C128

Source Section

IP Interface

TCPS_SC_OVERFLOWED

TCP packet SYN cache dropped due to overflow.

Data Source

MGW

Source Field

M563C124

Source Section

IP Interface

TCPS_SC_RESET

TCP packet SYN cache dropped due to RST.

Data Source

MGW

Source Field

M563C126

Source Section

IP Interface

TCPS_SC_RETRANSMITTED

TCP packet SYNs and ACKs (acknowledgements) retransmitted.

Data Source

MGW

Source Field

M563C130

Source Section

IP Interface

TCPS_SC_TIMED_OUT

TCP packet SYN cache timed out.

Data Source

MGW

Source Field

M563C123

Source Section

IP Interface

TCPS_SC_UNREACH

TCP packet SYN cache dropped due to ICMP unreachable.

Data Source

MGW

Source Field

M563C127

Source Section

IP Interface

TCPS_SEGSTIMED

Segments for which TCP tried to measure Round trip time (RTT).

Data Source

MGW

Source Field

M563C107

Source Section

IP Interface

TCPS_SNDACKS

Sent ack-only TCP packets. Sent ACK-only (acknowledgement-only) TCP packets (data length = 0).

Data Source

MGW

Source Field

M563C72

Source Section

IP Interface

TCPS_SNDBYTE

Sent TCP data bytes.

Data Source

MGW

Source Field

M563C69

Source Section

IP Interface

TCPS_SNDCTRL

Control TCP packets, sent control (SYN, FIN, RST) TCP packets (data length = 0)

Data Source

MGW

Source Field

M563C77

Source Section

IP Interface

TCPS_SNDPACK

TCP data packets sent.

Data Source

MGW

Source Field

M563C68

Source Section

IP Interface

TCPS_SNDPROBE

TCP Window probes. Sent window probes, 1 byte of data forced by persist timer.

Data Source

MGW

Source Field

M563C75

Source Section

IP Interface

TCPS_SNDREXMITBYTE

Retransmitted TCP data bytes.

Data Source

MGW

Source Field

M563C71

Source Section

IP Interface

TCPS_SNDREXMITPACK

Retransmitted TCP packets.

Data Source

MGW

Source Field

M563C70

Source Section

IP Interface

TCPS_SNDTOTAL

Total TCP packets sent.

Data Source

MGW

Source Field

M563C67

Source Section

IP Interface

TCPS_SNDURG

TCP packets sent with Urgent Pointer (URG) only (data length= 0).

Data Source

MGW

Source Field

M563C74

Source Section

IP Interface

TCPS_SNDWINUP

Window update TCP packets, sent window update-only TCP packets (data length = 0).

Data Source

MGW

Source Field

M563C76

Source Section

IP Interface

TCPS_TIMEOUTDROP

TCP connections dropped in retransmission timeout.

Data Source

MGW

Source Field

M563C109

Source Section

IP Interface

TX_PDU

The number of transmitted AAL5 CPCS-PDUs.

Data Source

MGW

Source Field

M549C2

Source Section

Chorus AAL5 protocol

TX_SIZE

The number of transmitted bytes of AAL5 frames (CPCS-PDUs).

Data Source

MGW

Source Field

M549C3

Source Section

Chorus AAL5 protocol

UDP6S_BADLEN

Received UDPv6 datagrams not delivered due to data length larger than packet.

Data Source

MGW

Source Field

M563C228

Source Section

IP Interface

UDP6S_BADSUM

Received UDPv6 datagrams not delivered due to checksum errors.

Data Source

MGW

Source Field

M563C229

Source Section

IP Interface

UDP6S_FULLSOCK

Received UDPv6 datagrams not delivered because input socket buffers are full.

Data Source

MGW

Source Field

M563C233

Source Section

IP Interface

UDP6S_HDROPS

Incomplete UDPv6 packet header not delivered due to packet shorter than header.

Data Source

MGW

Source Field

M563C227

Source Section

IP Interface

UDP6S_IPACKETS

Received UDPv6 packets. Total number of received UDP datagrams delivered to UDPv6 users.

Data Source

MGW

Source Field

M563C226

Source Section

IP Interface

UDP6S_NOPORT

Received UDPv6 packets with no process on destination port.

Data Source

MGW

Source Field

M563C231

Source Section

IP Interface

UDP6S_NOPORTMCAST

Multicast UDPv6 packets with no port. The number of received UDPv6 multicast/broadcast datagrams discarded due to no process on destination port.

Data Source

MGW

Source Field

M563C232

Source Section

IP Interface

UDP6S_NOSUM

Received UDPv6 packets without checksum.

Data Source

MGW

Source Field

M563C230

Source Section

IP Interface

UDP6S_OPACKETS

UDPv6 packets output. Total number of UDPv6 datagrams sent.

Data Source

MGW

Source Field

M563C235

Source Section

IP Interface

UDP6S_PCBCACHEMISS

UPDv6 packets with Process Control Block (PCB) hashmisses.

Data Source

MGW

Source Field

M563C234

Source Section

IP Interface

UDPS_BADLEN

Bad data length of UDP packet The number of received UPD datagrams not delivered due to data length larger than packet.

Data Source

MGW

Source Field

M563C133

Source Section

IP Interface

UDPS_BADSUM

Bad checksum of UDP packet. The number of received UPD datagrams not delivered due to checksum errors.

Data Source

MGW

Source Field

M563C134

Source Section

IP Interface

UDPS_FULLSOCK

UDP packet dropped due to full socket buffers The number of received UDP datagrams not delivered because input socket buffers full.

Data Source

MGW

Source Field

M563C137

Source Section

IP Interface

UDPS_HDROPS

Incomplete UDP packet header. The number of received UDP datagrams not delivered due to packet shorter than header.

Data Source

MGW

Source Field

M563C132

Source Section

IP Interface

UDPS_IPPACKETS

Received UDP packets. The total number of received UDP datagrams delivered to UDP users.

Data Source

MGW

Source Field

M563C131

Source Section

IP Interface

UDPS_NOPORT

Received UDP packets no port. The number of received UDP datagrams with no process on destination port.

Data Source

MGW

Source Field

M563C135

Source Section

IP Interface

UDPS_NOPORTBCAST

Broadcast/multicast UDP packet no port. The number of received broadcast/multicast UDP datagrams with no process on destination port.

Data Source

MGW

Source Field

M563C136

Source Section

IP Interface

UDPS_OPACKETS

UDP packets output. Total number of UDP datagrams sent.

Data Source

MGW

Source Field

M563C139

Source Section

IP Interface

UDPS_PCBHASHMISS

UDP packet PCB hash misses. The number of UDP packets with Process Control Block (PCB) hash misses.

Data Source

MGW

Source Field

M563C138

Source Section

IP Interface

UNIT_RESTARTS

Amount of computer unit restarts.

Data Source

MGW

Source Field

M608C0

Source Section

Computer Unit Restarts

UNKNOWN_SEGMENT_ID

Unknown segment id in announcement request.

Data Source

MGW

Source Field

M656C2

Source Section

Announcements

UNSPECIFIED_ERROR

Announcement request failed (no specific error)

Data Source

MGW

Source Field

M656C4

Source Section

Announcements

UTOPIAE

The number of cells dropped as result of an internal UTOPIA (Universal Test & Operations Physical Interface for ATM) bus parity error or a state machine error (short or long cells).

Data Source

MGW

Source Field

M549C0

Source Section

Chorus AAL5 protocol

VARIABLE_TYPE_NOT_SUPPORTED

Variable type not supported.

Data Source

MGW

Source Field

M656C3

Source Section

Announcements

Ethernet_Interface Primitive Calculations

The following is a list of primitive calculations for the Ethernet_Interface entity.

AV_BYTE_IP_PKT

Average bytes per received IP packet (v4 & v6)

Calculation

$$((AV_BYTE_IP4_PKT) + (AV_BYTE_IP6_PKT)) / 2$$

AV_BYTE_IP4_PKT

Average bytes per received IPv4 packet

Calculation

$$(IP_C_BYTES) / (IP_C_PKT)$$

AV_BYTE_IP6_PKT

Average bytes per received IPv6 packet

Calculation

$$(IP6_C_BYTES) / (IP6_C_PKT)$$

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

$$DAYSINREPORT()$$

NUMHOURS

of hours in Summation Data

Calculation

PERCENT_RX_OCT_BAD

Percentage of octets received in good packets compared to octets received in bad packets.

Calculation

$$(RX_OCT_BAD_CNT) / (RX_KOCT_OK_CNT)$$

PERCENT_TX_OCT_BAD

Percentage of octets transmitted in good packets compared to octets transmitted in bad packets.

Calculation

$$(TX_OCT_BAD_CNT) / (TX_KOCT_OK_CNT)$$

TOT_IP_BYTE

Received IP bytes (v4 & v6)

Calculation

$$(IP_C_BYTES) + (IP6_C_BYTES)$$

TOT_IP_PKT

Received IP packets (v4 & v6)

Calculation

$$(IP_C_PKT) + (IP6_C_PKT)$$

Ethernet_Interface Peg Counts

The following is a list of peg counts for the Ethernet_Interface entity.

ETH_C_FRAME

Valid Ethernet frames, received Ethernet frames without errors

Data Source

MGW

Source Field

M561C44

Source Section

Ethernet Interface

ETH_E_MAC

Bad MAC (Media Access Control) destination address errors.

Data Source

MGW

Source Field

M561C45

Source Section

Ethernet Interface

ETH_W_ETYPE

Unhandled Ethernet type, frames that have unknown Ethernet type field.

Data Source

MGW

Source Field

M561C43

Source Section

Ethernet Interface

Ethernet_Interface_Release

Ethernet Interface Release

Data Source

MGW

Source Field

RELEASE

Source Section

Configuration

IP_C_BYTES

IPv4 bytes received.

Data Source

MGW

Source Field

M561C52

Source Section

Ethernet Interface

IP_C_LOCAL

Local IPv4 packets that are terminated.

Data Source

MGW

Source Field

M561C53

Source Section

Ethernet Interface

IP_C_PKT

IPv4 packets received.

Data Source

MGW

Source Field

M561C51

Source Section

Ethernet Interface

IP_E_CKSUM

IPv4 packets with header checksum error.

Data Source

MGW

Source Field

M561C48

Source Section

Ethernet Interface

IP_E_RUNT

Incomplete IPv4 packets with header or total packet fewer than 20 bytes.

Data Source

MGW

Source Field

M561C46

Source Section

Ethernet Interface

IP_E_SRC_ADDR

IPv4 packets that have invalid source IP address.

Data Source

MGW

Source Field

M561C50

Source Section

Ethernet Interface

IP_E_TTL

IPv4 packets where the TTL (Time To Live) has expired.

Data Source

MGW

Source Field

M561C49

Source Section

Ethernet Interface

IP_E_VER

Version error. Packets that IP version is not 4 nor 6.

Data Source

MGW

Source Field

M561C47

Source Section

Ethernet Interface

IP6_C_BYTES

IPv6 bytes received.

Data Source

MGW

Source Field

M561C58

Source Section

Ethernet Interface

IP6_C_PKT

IPv6 packets received.

Data Source

MGW

Source Field

M561C57

Source Section

Ethernet Interface

IP6_E_HL

IPv6 packets whose hop limit has expired.

Data Source

MGW

Source Field

M561C55

Source Section

Ethernet Interface

IP6_E_LOOP

IPv6 packets coming from the wire that have the loopback source IPv6 address ::1.

Data Source

MGW

Source Field

M561C56

Source Section

Ethernet Interface

IP6_E_VER

IP packets that are not IPv6 packets although the layer 2 header indicates that they should be IPv6 packets.

Data Source

MGW

Source Field

M561C54

Source Section

Ethernet Interface

PERLENSEC

Period Length

Data Source

MGW

Source Field

PERLENSEC

Source Section

Period Length

RX_BRD_OK_CNT

Received broadcast packets, with lengths between 64 bytes and the maximum packet size, without errors.

Data Source

MGW

Source Field

M561C28

Source Section

Ethernet Interface

RX_FALS_CRS_CNT

Received false carrier events.

Data Source

MGW

Source Field

M561C41

Source Section

Ethernet Interface

RX_KOCT_OK_CNT

Kilo octets received in good packets.

Data Source

MGW

Source Field

M561C20

Source Section

Ethernet Interface

RX_LONG_CRC_CNT

Received too long packets (larger than maximum packet size) with FCS (Frame Check Sequence) error with a Cyclic Redundancy check (CRC) error.

Data Source

MGW

Source Field

M561C32

Source Section

Ethernet Interface

RX_LONG_OK_CNT

Received too long packets (larger than the maximum size) without errors.

Data Source

MGW

Source Field

M561C31

Source Section

Ethernet Interface

RX_MLT_OK_CNT

Received multicast packets, with lengths between 64 bytes and the maximum packet size, without errors.

Data Source

MGW

Source Field

M561C27

Source Section

Ethernet Interface

RX_NORM_ALI_CNT

Received alignment errors. The number of packets with lengths between 64 bytes and the maximum packet size that are received with a non integral number of bytes in length and a Cyclic Redundancy check (CRC) error.

Data Source

MGW

Source Field

M561C30

Source Section

Ethernet Interface

RX_NORM_CRC_CNT

Received FCS (Frame Check Sequence) packets, with lengths between 64 bytes and the maximum packet size received with an integral number of bytes in length and, with errors.

Data Source

MGW

Source Field

M561C29

Source Section

Ethernet Interface

RX_OCT_BAD_CNT

Octets received in packets with errors.

Data Source

MGW

Source Field

M561C21

Source Section

Ethernet Interface

RX_OVF_CNT

Received packets not fully accepted due to receive FIFO overflow.

Data Source

MGW

Source Field

M561C23

Source Section

Ethernet Interface

RX_PAUSE_CNT

Received pause packets (correctly transmitted flow control packets).

Data Source

MGW

Source Field

M561C40

Source Section

Ethernet Interface

RX_PKT_1024_CNT

Received 1024 to 1518 byte packets (including the bad packets).

Data Source

MGW

Source Field

M561C38

Source Section

Ethernet Interface

RX_PKT_128_CNT

Received 128 to 255 byte packets (including bad packets).

Data Source

MGW

Source Field

M561C35

Source Section

Ethernet Interface

RX_PKT_1519_CNT

Received 1519 byte packets, or up to the maximum packet size, including the bad packets.

Data Source

MGW

Source Field

M561C39

Source Section

Ethernet Interface

RX_PKT_256_CNT

Received 256 to 511 byte packets (including bad packets).

Data Source

MGW

Source Field

M561C36

Source Section

Ethernet Interface

RX_PKT_512_CNT

Received 512 to 1023 byte packets. (including the bad packets).

Data Source

MGW

Source Field

M561C37

Source Section

Ethernet Interface

RX_PKT_64_CNT

Received 64 byte packets (including bad packets).

Data Source

MGW

Source Field

M561C33

Source Section

Ethernet Interface

RX_PKT_65_CNT

Received 65 to 127 byte packets (including bad packets).

Data Source

MGW

Source Field

M561C34

Source Section

Ethernet Interface

RX_RUNT_CNT

Received short packets without SFD. The number of frames received without Start Frame Delimiter (SFD) detection but with carrier assertion.

Data Source

MGW

Source Field

M561C22

Source Section

Ethernet Interface

RX_SHORT_CRC_CNT

Received short packets (< 64 bytes) with CRC (Cyclic Redundancy Check) errors.

Data Source

MGW

Source Field

M561C25

Source Section

Ethernet Interface

RX_SHORT_OK_CNT

Received short packets (< 64 bytes) without errors.

Data Source

MGW

Source Field

M561C24

Source Section

Ethernet Interface

RX_SYM_ERR_CNT

Received packets containing PHY symbol errors.

Data Source

MGW

Source Field

M561C42

Source Section

Ethernet Interface

RX_UNI_OK_CNT

Received unicast packets, with length between 64 bytes and the maximum packet size, without errors.

Data Source

MGW

Source Field

M561C26

Source Section

Ethernet Interface

TX_BRD_OK_CNT

Transmitted broadcast Ethernet packets without errors.

Data Source

MGW

Source Field

M561C2

Source Section

Ethernet Interface

TX_COL_CNT

Collision events during transmissions total number of regular collision events occurring during transmission. (Excludes the Gigabit Ethernet interface.)

Data Source

MGW

Source Field

M561C4

Source Section

Ethernet Interface

TX_DEFER_CNT

Transmitted deferred packets. A count of frames for which the first transmission attempt on a particular interface is delayed because the medium is busy.

Data Source

MGW

Source Field

M561C3

Source Section

Ethernet Interface

TX_ERR_CNT

Transmitted packets with error due to FIFO underflow or txerr signal assertion.

Data Source

MGW

Source Field

M561C17

Source Section

Ethernet Interface

TX_KOCT_OK_CNT

Kilo octets transmitted in good packets.

Data Source

MGW

Source Field

M561C18

Source Section

Ethernet Interface

TX_LCOL_CNT

Transmission late collisions causing transmission abortions of packets that are 64 bytes in length. (Excludes the Gigabit Ethernet interface.)

Data Source

MGW

Source Field

M561C8

Source Section

Ethernet Interface

TX_MCOL_CNT

Transmitted multiple collisions packets without any error following multiple collisions >1. (Excludes the Gigabit Ethernet interface.)

Data Source

MGW

Source Field

M561C6

Source Section

Ethernet Interface

TX_MLT_OK_CNT

Transmitted multicast (not broadcast) Ethernet packets without errors.

Data Source

MGW

Source Field

M561C1

Source Section

Ethernet Interface

TX_OCT_BAD_CNT

Octets transmitted in packets with errors.

Data Source

MGW

Source Field

M561C19

Source Section

Ethernet Interface

TX_PAUSE_CNT

Transmitted pause packets (correctly transmitted flow control packets).

Data Source

MGW

Source Field

M561C16

Source Section

Ethernet Interface

TX_PKT_1024_CNT

Transmitted 1024 to 1518 byte packets (including the bad packets).

Data Source

MGW

Source Field

M561C14

Source Section

Ethernet Interface

TX_PKT_128_CNT

Transmitted 128 to 255 byte packets (including bad packets).

Data Source

MGW

Source Field

M561C11

Source Section

Ethernet Interface

TX_PKT_1519_CNT

Transmitted 1519 byte packets, or up to the maximum packet size, including the bad packets.

Data Source

MGW

Source Field

M561C15

Source Section

Ethernet Interface

TX_PKT_256_CNT

Transmitted 256 to 511 byte packets (including bad packets).

Data Source

MGW

Source Field

M561C12

Source Section

Ethernet Interface

TX_PKT_512_CNT

Transmitted 512 to 1023 byte packets. (including the bad packets).

Data Source

MGW

Source Field

M561C13

Source Section

Ethernet Interface

TX_PKT_64_CNT

Transmitted 64 byte packets (including bad packets).

Data Source

MGW

Source Field

M561C9

Source Section

Ethernet Interface

TX_PKT_65_CNT

Transmitted 65 to 127 byte packets (including bad packets).

Data Source

MGW

Source Field

M561C10

Source Section

Ethernet Interface

TX_SCOL_CNT

Transmitted single collision packets without any error following exactly one single collision.
(Excludes the Gigabit Ethernet interface.)

Data Source

MGW

Source Field

M561C5

Source Section

Ethernet Interface

TX_UNI_OK_CNT

Transmitted unicast Ethernet packets without errors.

Data Source

MGW

Source Field

M561C0

Source Section

Ethernet Interface

TX_XCOL_CNT

Transmitted excessive collisions packets that have experienced 16 consecutive collisions or more. (Excludes the Gigabit Ethernet interface.)

Data Source

MGW

Source Field

M561C7

Source Section

Ethernet Interface

IMA_Group Primitive Calculations

The following is a list of primitive calculations for the IMA_Group entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

RATIO_TX_RX_IMA1

Ratio of TX to RX unusable seconds of IMA1 link (AF-PHY-0086.001)

Calculation

(TX_UUS_IMA_FE1) / (RX_UUS_IMA1)

RATIO_TX_RX_IMA2

Ratio of TX to RX unusable seconds of IMA2 link (AF-PHY-0086.001)

Calculation

(TX_UUS_IMA_FE2) / (RX_UUS_IMA2)

RATIO_TX_RX_IMA3

Ratio of TX to RX unusable seconds of IMA3 link (AF-PHY-0086.001)

Calculation

$$(TX_UUS_IMA_FE3) / (RX_UUS_IMA3)$$

RATIO_TX_RX_IMA4

Ratio of TX to RX unusable seconds of IMA4 link (AF-PHY-0086.001)

Calculation

$$(TX_UUS_IMA_FE4) / (RX_UUS_IMA4)$$

RATIO_TX_RX_IMA5

Ratio of TX to RX unusable seconds of IMA5 link (AF-PHY-0086.001)

Calculation

$$(TX_UUS_IMA_FE5) / (RX_UUS_IMA5)$$

RATIO_TX_RX_IMA6

Ratio of TX to RX unusable seconds of IMA6 link (AF-PHY-0086.001)

Calculation

$$(TX_UUS_IMA_FE6) / (RX_UUS_IMA6)$$

RATIO_TX_RX_IMA7

Ratio of TX to RX unusable seconds of IMA7 link (AF-PHY-0086.001)

Calculation

$$(TX_UUS_IMA_FE7) / (RX_UUS_IMA7)$$

RATIO_TX_RX_IMA8

Ratio of TX to RX unusable seconds of IMA8 link (AF-PHY-0086.001)

Calculation

$$(TX_UUS_IMA_FE8) / (RX_UUS_IMA8)$$

IMA_Group Peg Counts

The following is a list of peg counts for the IMA_Group entity.

GR_FC

The number of Near End group failure condition in the IMA Group (AF-PHY-0086.001). The number of possible Near End group failure alarms when conditions are configabort and there are insufficient links.

Data Source

MGW

Source Field

M514C1

Source Section

IMA Group

GR_UAS_IMA

Unavailable seconds of IMA (Inverse Multiplexing over ATM) Group (AF-PHY-0086.001). An interval when the IMA group is unable to transfer cells. The number of one second intervals when the Group Traffic State Machine (GTSM) is down.

Data Source

MGW

Source Field

M514C0

Source Section

IMA Group

IMA_Group_Release

IMA Group Release

Data Source

MGW

Source Field

RELEASE

Source Section

Configuration

IV_IMA1

Sum of ICP (IMA Control Protocol) cell violations of IMA link (AF-PHY- 0086.001). Does not include SES-IMA and UAS-IMA condition.

Data Source

MGW

Source Field

M514C3

Source Section

IMA Group Link

IV_IMA2

Sum of ICP (IMA Control Protocol) cell violations of IMA link (AF-PHY- 0086.001). Does not include SES-IMA and UAS-IMA condition.

Data Source

MGW

Source Field

M514C15

Source Section

IMA Group Link

IV_IMA3

Sum of ICP (IMA Control Protocol) cell violations of IMA link (AF-PHY- 0086.001). Does not include SES-IMA and UAS-IMA condition.

Data Source

MGW

Source Field

M514C27

Source Section

IMA Group Link

IV_IMA4

Sum of ICP (IMA Control Protocol) cell violations of IMA link (AF-PHY- 0086.001). Does not include SES-IMA and UAS-IMA condition.

Data Source

MGW

Source Field

M514C39

Source Section

IMA Group Link

IV_IMA5

Sum of ICP (IMA Control Protocol) cell violations of IMA link (AF-PHY- 0086.001). Does not include SES-IMA and UAS-IMA condition.

Data Source

MGW

Source Field

M514C51

Source Section

IMA Group Link

IV_IMA6

Sum of ICP (IMA Control Protocol) cell violations of IMA link (AF-PHY- 0086.001). Does not include SES-IMA and UAS-IMA condition.

Data Source

MGW

Source Field

M514C63

Source Section

IMA Group Link

IV_IMA7

Sum of ICP (IMA Control Protocol) cell violations of IMA link (AF-PHY- 0086.001). Does not include SES-IMA and UAS-IMA condition.

Data Source

MGW

Source Field

M514C75

Source Section

IMA Group Link

IV_IMA8

Sum of ICP (IMA Control Protocol) cell violations of IMA link (AF-PHY- 0086.001). Does not include SES-IMA and UAS-IMA condition.

Data Source

MGW

Source Field

M514C87

Source Section

IMA Group Link

PERLENSEC

Period Length

Data Source

MGW

Source Field

PERLENSEC

Source Section

Period Length

RX_FC1

Near End Rx link failure count of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C13

Source Section

IMA Group Link

RX_FC2

Near End Rx link failure count of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C25

Source Section

IMA Group Link

RX_FC3

Near End Rx link failure count of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C37

Source Section

IMA Group Link

RX_FC4

Near End Rx link failure count of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C49

Source Section

IMA Group Link

RX_FC5

Near End Rx link failure count of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C61

Source Section

IMA Group Link

RX_FC6

Near End Rx link failure count of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C73

Source Section

IMA Group Link

RX_FC7

Near End Rx link failure count of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C85

Source Section

IMA Group Link

RX_FC8

Near End Rx link failure count of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C97

Source Section

IMA Group Link

RX_UUS_IMA_FE1

Seconds with Rx unusable indications from the Rx Far End LSM.

Data Source

MGW

Source Field

M514C11

Source Section

IMA Group Link

RX_UUS_IMA_FE2

Seconds with Rx unusable indications from the Rx Far End LSM.

Data Source

MGW

Source Field

M514C23

Source Section

IMA Group Link

RX_UUS_IMA_FE3

Seconds with Rx unusable indications from the Rx Far End LSM.

Data Source

MGW

Source Field

M514C35

Source Section

IMA Group Link

RX_UUS_IMA_FE4

Seconds with Rx unusable indications from the Rx Far End LSM.

Data Source

MGW

Source Field

M514C47

Source Section

IMA Group Link

RX_UUS_IMA_FE5

Seconds with Rx unusable indications from the Rx Far End LSM.

Data Source

MGW

Source Field

M514C59

Source Section

IMA Group Link

RX_UUS_IMA_FE6

Seconds with Rx unusable indications from the Rx Far End LSM.

Data Source

MGW

Source Field

M514C71

Source Section

IMA Group Link

RX_UUS_IMA_FE7

Seconds with Rx unusable indications from the Rx Far End LSM.

Data Source

MGW

Source Field

M514C83

Source Section

IMA Group Link

RX_UUS_IMA_FE8

Seconds with Rx unusable indications from the Rx Far End LSM.

Data Source

MGW

Source Field

M514C95

Source Section

IMA Group Link

RX_UUS_IMA1

Rx unusable seconds of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C9

Source Section

IMA Group Link

RX_UUS_IMA2

Rx unusable seconds of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C21

Source Section

IMA Group Link

RX_UUS_IMA3

Rx unusable seconds of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C33

Source Section

IMA Group Link

RX_UUS_IMA4

Rx unusable seconds of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C45

Source Section

IMA Group Link

RX_UUS_IMA5

Rx unusable seconds of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C57

Source Section

IMA Group Link

RX_UUS_IMA6

Rx unusable seconds of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C69

Source Section

IMA Group Link

RX_UUS_IMA7

Rx unusable seconds of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C81

Source Section

IMA Group Link

RX_UUS_IMA8

Rx unusable seconds of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C93

Source Section

IMA Group Link

SES_IMA_FE1

Severely errored seconds at far end of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C5

Source Section

IMA Group Link

SES_IMA_FE2

Severely errored seconds at far end of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C17

Source Section

IMA Group Link

SES_IMA_FE3

Severely errored seconds at far end of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C29

Source Section

IMA Group Link

SES_IMA_FE4

Severely errored seconds at far end of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C41

Source Section

IMA Group Link

SES_IMA_FE5

Severely errored seconds at far end of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C53

Source Section

IMA Group Link

SES_IMA_FE6

Severely errored seconds at far end of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C65

Source Section

IMA Group Link

SES_IMA_FE7

Severely errored seconds at far end of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C77

Source Section

IMA Group Link

SES_IMA_FE8

Severely errored seconds at far end of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C89

Source Section

IMA Group Link

SES_IMA1

Count of one seconds intervals at Near End containing $\geq 30\%$ of the ICP cells counted as IV-IMA or one or more link defects (e.g. LOS, AIS or LCD) defects except during UAS-IMA condition.

Data Source

MGW

Source Field

M514C4

Source Section

IMA Group Link

SES_IMA2

Count of one seconds intervals at Near End containing $\geq 30\%$ of the ICP cells counted as IV-IMA or one or more link defects (e.g. LOS, AIS or LCD) defects except during UAS-IMA condition.

Data Source

MGW

Source Field

M514C16

Source Section

IMA Group Link

SES_IMA3

One seconds intervals at Near End containing $\geq 30\%$ of the ICP cells counted as IV-IMA or one or more link defects (e.g. LOS, AIS or LCD) defects except during UAS-IMA condition.

Data Source

MGW

Source Field

M514C28

Source Section

IMA Group Link

SES_IMA4

One seconds intervals at Near End containing $\geq 30\%$ of the ICP cells counted as IV-IMA or one or more link defects (e.g. LOS, AIS or LCD) defects except during UAS-IMA condition.

Data Source

MGW

Source Field

M514C40

Source Section

IMA Group Link

SES_IMA5

One seconds intervals at Near End containing $\geq 30\%$ of the ICP cells counted as IV-IMA or one or more link defects (e.g. LOS, AIS or LCD) defects except during UAS-IMA condition.

Data Source

MGW

Source Field

M514C52

Source Section

IMA Group Link

SES_IMA6

One seconds intervals at Near End containing $\geq 30\%$ of the ICP cells counted as IV-IMA or one or more link defects (e.g. LOS, AIS or LCD) defects except during UAS-IMA condition.

Data Source

MGW

Source Field

M514C64

Source Section

IMA Group Link

SES_IMA7

One seconds intervals at Near End containing $\geq 30\%$ of the ICP cells counted as IV-IMA or one or more link defects (e.g. LOS, AIS or LCD) defects except during UAS-IMA condition.

Data Source

MGW

Source Field

M514C76

Source Section

IMA Group Link

SES_IMA8

One seconds intervals at Near End containing $\geq 30\%$ of the ICP cells counted as IV-IMA or one or more link defects (e.g. LOS, AIS or LCD) defects except during UAS-IMA condition.

Data Source

MGW

Source Field

M514C88

Source Section

IMA Group Link

TX_FC1

Near End Tx link failure of the IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C12

Source Section

IMA Group Link

TX_FC2

Near End Tx link failure of the IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C24

Source Section

IMA Group Link

TX_FC3

Near End Tx link failure of the IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C36

Source Section

IMA Group Link

TX_FC4

Near End Tx link failure of the IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C48

Source Section

IMA Group Link

TX_FC5

Near End Tx link failure of the IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C60

Source Section

IMA Group Link

TX_FC6

Near End Tx link failure of the IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C72

Source Section

IMA Group Link

TX_FC7

Near End Tx link failure of the IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C84

Source Section

IMA Group Link

TX_FC8

Near End Tx link failure of the IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C96

Source Section

IMA Group Link

TX_UUS_IMA_FE1

Tx unusable seconds at Far End of IMA link (AF-PHY-0086.001)

Data Source

MGW

Source Field

M514C10

Source Section

IMA Group Link

TX_UUS_IMA_FE2

Tx unusable seconds at Far End of IMA link (AF-PHY-0086.001)

Data Source

MGW

Source Field

M514C22

Source Section

IMA Group Link

TX_UUS_IMA_FE3

Tx unusable seconds at Far End of IMA link (AF-PHY-0086.001)

Data Source

MGW

Source Field

M514C34

Source Section

IMA Group Link

TX_UUS_IMA_FE4

Tx unusable seconds at Far End of IMA link (AF-PHY-0086.001)

Data Source

MGW

Source Field

M514C46

Source Section

IMA Group Link

TX_UUS_IMA_FE5

Tx unusable seconds at Far End of IMA link (AF-PHY-0086.001)

Data Source

MGW

Source Field

M514C58

Source Section

IMA Group Link

TX_UUS_IMA_FE6

Tx unusable seconds at Far End of IMA link (AF-PHY-0086.001)

Data Source

MGW

Source Field

M514C70

Source Section

IMA Group Link

TX_UUS_IMA_FE7

Tx unusable seconds at Far End of IMA link (AF-PHY-0086.001)

Data Source

MGW

Source Field

M514C82

Source Section

IMA Group Link

TX_UUS_IMA_FE8

Tx unusable seconds at Far End of IMA link (AF-PHY-0086.001)

Data Source

MGW

Source Field

M514C94

Source Section

IMA Group Link

TX_UUS_IMA1

Tx unusable seconds at the Tx Near End LSM (Link State Machine).

Data Source

MGW

Source Field

M514C8

Source Section

IMA Group Link

TX_UUS_IMA2

Tx unusable seconds at the Tx Near End LSM (Link State Machine).

Data Source

MGW

Source Field

M514C20

Source Section

IMA Group Link

TX_UUS_IMA3

Tx unusable seconds at the Tx Near End LSM (Link State Machine).

Data Source

MGW

Source Field

M514C32

Source Section

IMA Group Link

TX_UUS_IMA4

Tx unusable seconds at the Tx Near End LSM (Link State Machine).

Data Source

MGW

Source Field

M514C44

Source Section

IMA Group Link

TX_UUS_IMA5

Tx unusable seconds at the Tx Near End LSM (Link State Machine).

Data Source

MGW

Source Field

M514C56

Source Section

IMA Group Link

TX_UUS_IMA6

Tx unusable seconds at the Tx Near End LSM (Link State Machine).

Data Source

MGW

Source Field

M514C68

Source Section

IMA Group Link

TX_UUS_IMA7

Tx unusable seconds at the Tx Near End LSM (Link State Machine).

Data Source

MGW

Source Field

M514C80

Source Section

IMA Group Link

TX_UUS_IMA8

Tx unusable seconds at the Tx Near End LSM (Link State Machine).

Data Source

MGW

Source Field

M514C92

Source Section

IMA Group Link

UAS_IMA

Unavailable seconds at Near End of IMA link (AD-PHY-0086.001).

Data Source

MGW

Source Field

M514C78

Source Section

IMA Group Link

UAS_IMA_FE1

Unavailable seconds at Far End of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C7

Source Section

IMA Group Link

UAS_IMA_FE2

Unavailable seconds at Far End of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C19

Source Section

IMA Group Link

UAS_IMA_FE3

Unavailable seconds at Far End of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C31

Source Section

IMA Group Link

UAS_IMA_FE4

Unavailable seconds at Far End of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C43

Source Section

IMA Group Link

UAS_IMA_FE5

Unavailable seconds at Far End of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C55

Source Section

IMA Group Link

UAS_IMA_FE6

Unavailable seconds at Far End of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C67

Source Section

IMA Group Link

UAS_IMA_FE7

Unavailable seconds at Far End of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C79

Source Section

IMA Group Link

UAS_IMA_FE8

Unavailable seconds at Far End of IMA link (AF-PHY-0086.001).

Data Source

MGW

Source Field

M514C91

Source Section

IMA Group Link

UAS_IMA1

Unavailable seconds at Near End of IMA link (AD-PHY-0086.001).

Data Source

MGW

Source Field

M514C6

Source Section

IMA Group Link

UAS_IMA2

Unavailable seconds at Near End of IMA link (AD-PHY-0086.001).

Data Source

MGW

Source Field

M514C18

Source Section

IMA Group Link

UAS_IMA3

Unavailable seconds at Near End of IMA link (AD-PHY-0086.001).

Data Source

MGW

Source Field

M514C30

Source Section

IMA Group Link

UAS_IMA4

Unavailable seconds at Near End of IMA link (AD-PHY-0086.001).

Data Source

MGW

Source Field

M514C42

Source Section

IMA Group Link

UAS_IMA5

Unavailable seconds at Near End of IMA link (AD-PHY-0086.001).

Data Source

MGW

Source Field

M514C54

Source Section

IMA Group Link

UAS_IMA6

Unavailable seconds at Near End of IMA link (AD-PHY-0086.001).

Data Source

MGW

Source Field

M514C66

Source Section

IMA Group Link

UAS_IMA8

Unavailable seconds at Near End of IMA link (AD-PHY-0086.001).

Data Source

MGW

Source Field

M514C90

Source Section

IMA Group Link

UNIT_INDEX1

IMA (Inverse Multiplexing over ATM) link id.

Data Source

MGW

Source Field

M514C2

Source Section

IMA Group Link

UNIT_INDEX2

IMA (Inverse Multiplexing over ATM) link id.

Data Source

MGW

Source Field

M514C14

Source Section

IMA Group Link

UNIT_INDEX3

IMA (Inverse Multiplexing over ATM) link id.

Data Source

MGW

Source Field

M514C26

Source Section

IMA Group Link

UNIT_INDEX4

IMA (Inverse Multiplexing over ATM) link id.

Data Source

MGW

Source Field

M514C38

Source Section

IMA Group Link

UNIT_INDEX5

IMA (Inverse Multiplexing over ATM) link id.

Data Source

MGW

Source Field

M514C50

Source Section

IMA Group Link

UNIT_INDEX6

IMA (Inverse Multiplexing over ATM) link id.

Data Source

MGW

Source Field

M514C62

Source Section

IMA Group Link

UNIT_INDEX7

IMA (Inverse Multiplexing over ATM) link id.

Data Source

MGW

Source Field

M514C74

Source Section

IMA Group Link

UNIT_INDEX8

IMA (Inverse Multiplexing over ATM) link id.

Data Source

MGW

Source Field

M514C86

Source Section

IMA Group Link

MGW Primitive Calculations

The following is a list of primitive calculations for the MGW entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

PERCENT_ANN_FAILED_CALLS

Percentage of failed announcement playback service requests.

Calculation

((ANN_FAILED_CALLS) / (ANN_TOTAL_CALLS) * 100.0)

PERCENT_CRCT_FAILED_CALLS

Percentage of failed DSP service requests for CS data connections to Iu i/f.

Calculation

$$((\text{CRCT_FAILED_CALLS}) / (\text{CRCT_TOTAL_CALLS})) * 100.0$$

PERCENT_DTMF_DET_FAILED_CALLS

Percentage of failed DSP service requests for DTMF (dual tone multi-frequency) detection service.

Calculation

$$((\text{DTMF_DET_FAILED_CALLS}) / (\text{DTMF_DET_TOTAL_CALLS})) * 100.0$$

PERCENT_DTMF_GEN_FAILED_CALLS

Percentage of failed DSP service requests for DTMF (dual tone multi-frequency) generation service.

Calculation

$$((\text{DTMF_GEN_FAILED_CALLS}) / (\text{DTMF_GEN_TOTAL_CALLS})) * 100.0$$

PERCENT_IP_TRUNK_FAILED_CALLS

Percentage of failed DSP service requests for connections to IP backbone (MSC IP Trunk interworking).

Calculation

$$((\text{IP_TRUNK_FAILED_CALLS}) / (\text{IP_TRUNK_TOTAL_CALLS})) * 100.0$$

PERCENT_IU_NB_ATM_FAILED_CALLS

Percentage of failed DSP service requests for speech connections to UTRAN (Iu interface) or ATM backbone (Nb interface).

Calculation

$$((\text{IU_NB_ATM_FAILED_CALLS}) / (\text{IU_NB_ATM_TOTAL_CALLS})) * 100.0$$

PERCENT_IU_NB_IP_FAILED_CALLS

Percentage of failed DSP service requests for connections to IP backbone (Nb interface).

Calculation

$$((\text{IU_NB_IP_FAILED_CALLS}) / (\text{IU_NB_IP_TOTAL_CALLS})) * 100.0$$

PERCENT_PSTN_A_EC_FAILED_CALLS

Percentage of failed DSP service requests for connections to PSTN or A interface with echo canceller resource.

Calculation

$$((\text{PSTN_A_EC_FAILED_CALLS}) / (\text{PSTN_A_EC_TOTAL_CALLS}) * 100.0)$$

PERCENT_PSTN_A_EC_OFF_FAILED_CALLS

Percentage of failed DSP service requests for connections to PSTN or A interface without echo canceller resource.

Calculation

$$((\text{PSTN_A_EC_OFF_FAILED_CALLS}) / (\text{PSTN_A_EC_OFF_TOTAL_CALLS}) * 100.0)$$

PERCENT_TFO_FAIL

Percentage of failed usage of TFO service for all connections.

Calculation

$$((\text{TFO_FAIL}) / (\text{TFO_USE}) * 100.0)$$

PERCENT_TONE_GEN_FAILED_CALLS

Percentage of failed DSP service requests for in-band tone generation service.

Calculation

$$((\text{TONE_GEN_FAILED_CALLS}) / (\text{TONE_GEN_TOTAL_CALLS}) * 100.0)$$

MGW Peg Counts

The following is a list of peg counts for the MGW entity.

A_IF_RESET_IN

Retired in RP12.1: Number of reset messages received from the MSC at the A interface. The subsystem is requested to be reset.

Data Source

MGW

Source Field

M641C19

Source Section

MGW Messages

A_IF_RESET_OUT

Retired in RP12.1: Number of reset messages sent from the A interface to the MSC. The subsystem is requested to be reset.

Data Source

MGW

Source Field

M641C21

Source Section

MGW Messages

A_TDM_ALLOC_CAPACITY

Retired in RP12.1: Average allocated capacity of DSP services used for TDM connections to BSS.

Data Source

MGW

Source Field

M614C80

Source Section

DSP Services

A_TDM_CURRENT_CALLS

Retired in RP12.1: Current number of DSP services used for TDM connections to BSS.

Data Source

MGW

Source Field

M614C81

Source Section

DSP Services

A_TDM_FAILED_CALLS

Retired in RP12.1: Number of failed DSP service requests for TDM connections to BSS.

Data Source

MGW

Source Field

M614C84

Source Section

DSP Services

A_TDM_PEAK_CALLS

Retired in RP12.1: Peak number of DSP services used for TDM connections to BSS.

Data Source

MGW

Source Field

M614C82

Source Section

DSP Services

A_TDM_TOTAL_CALLS

Retired in RP12.1: Total amount of successful DSP service requests for TDM connections to BSS.

Data Source

MGW

Source Field

M614C83

Source Section

DSP Services

ALLOCATION

Retired in RP12.1: Number of allocation messages. This is the number of binding ID allocations performed successfully.

Data Source

MGW

Source Field

M642C0

Source Section

Allocation msgs

ALLOCATION_FAILURE

Retired in RP12.1: Number of allocation failure messages. This is the number of binding ID allocations performed unsuccessfully. This may happen if the binding ID functionality is not initialised, it is initialised with illegal AAL2 address or if the binding ID table gets full in a traffic burst.

Data Source

MGW

Source Field

M642C1

Source Section

Allocation msgs

ANN_ALLOC_CAPACITY

Retired in RP12.1: Percentage of allocated capacity of announcement playback services

Data Source

MGW

Source Field

M614C45

Source Section

DSP Services

ANN_CURRENT_CALLS

Retired in RP12.1: Current number of used announcement playback services This is an instantaneous value taken from the end of the measurement period.

Data Source

MGW

Source Field

M614C46

Source Section

DSP Services

ANN_FAILED_CALLS

Retired in RP12.1: Failed announcement playback service requests.

Data Source

MGW

Source Field

M614C49

Source Section

DSP Services

ANN_PEAK_CALLS

Retired in RP12.1: Peak number of announcement playback services. The value is the highest value of used services recorded during a measurement period.

Data Source

MGW

Source Field

M614C47

Source Section

DSP Services

ANN_TOTAL_CALLS

Retired in RP12.1: Total amount of successful announcement playback service requests.

Data Source

MGW

Source Field

M614C48

Source Section

DSP Services

ASSIGNMENT_COMPLETE

Retired in RP12.1: Number of assignment complete messages sent from the A-interface to the MSC. This counter is RAB ID specific.

Data Source

MGW

Source Field

M641C1

Source Section

MGW Messages

ASSIGNMENT_FAILURE

Retired in RP12.1: Number of assignment failure messages sent from the A interface to the MSC. This counter is RAB ID specific.

Data Source

MGW

Source Field

M641C2

Source Section

MGW Messages

ASSIGNMENT_REQUEST

Retired in RP12.1: Number of assignment requests received from the MSC at the A-interface.
This counter is RAB ID specific.

Data Source

MGW

Source Field

M641C0

Source Section

MGW Messages

ASSOCIATION

Retired in RP12.1: Number of association messages. This is the number of binding ID
associations performed successfully.

Data Source

MGW

Source Field

M642C2

Source Section

Association msgs

ASSOCIATION_FAILURE

Retired in RP12.1: Number of association failure messages. This is the number of binding ID
associations performed unsuccessfully.

Data Source

MGW

Source Field

M642C3

Source Section

Association msgs

ATER_AEC_TDM_ALLOC_CAPACITY

Retired in RP12.1: Average allocated capacity of DSP services used for TDM connections with acoustic echo canceller to ATER interface.

Data Source

MGW

Source Field

M614C110

Source Section

DSP Services

ATER_AEC_TDM_CURRENT_CALLS

Retired in RP12.1: Current number of DSP services used for TDM connections with acoustic echo canceller to ATER interface.

Data Source

MGW

Source Field

M614C111

Source Section

DSP Services

ATER_AEC_TDM_FAILED_CALLS

Retired in RP12.1: Number of failed DSP service requests for TDM connections with acoustic echo canceller to ATER interface.

Data Source

MGW

Source Field

M614C114

Source Section

DSP Services

ATER_AEC_TDM_PEAK_CALLS

Retired in RP12.1: Peak number of DSP services used for TDM connections with acoustic echo canceller to ATER interface.

Data Source

MGW

Source Field

M614C112

Source Section

DSP Services

ATER_AEC_TDM_TOTAL_CALLS

Retired in RP12.1: Total amount of successful DSP service requests for TDM connections with acoustic echo canceller to ATER interface.

Data Source

MGW

Source Field

M614C113

Source Section

DSP Services

ATER_E_TO_ATER_F

The number of times when the codec is changed from AMR-WB to AMR-NB codec in the Ater interface.

Data Source

MGW

Source Field

M643C132

Source Section

Codecs

ATER_F_TO_ATER_E

The number of times when the codec is changed from AMR-NB to AMR-WB codec in the Ater interface.

Data Source

MGW

Source Field

M643C133

Source Section

Codecs

ATER_INTERFACE

The number of times when information about codec change at the Ater interface is received from DSP.

Data Source

MGW

Source Field

M643C34

Source Section

Codecs

ATER_TDM_ALLOC_CAPACITY

Retired in RP12.1: Average allocated capacity of DSP services used for TDM connections without acoustic echo canceller to ATER interface.

Data Source

MGW

Source Field

M614C105

Source Section

DSP Services

ATER_TDM_CURRENT_CALLS

Retired in RP12.1: Current number of DSP services used for TDM connections without acoustic echo canceller to ATER interface.

Data Source

MGW

Source Field

M614C106

Source Section

DSP Services

ATER_TDM_FAILED_CALLS

Retired in RP12.1: Number of failed DSP service requests for TDM connections without acoustic echo canceller to ATER interface.

Data Source

MGW

Source Field

M614C109

Source Section

DSP Services

ATER_TDM_PEAK_CALLS

Retired in RP12.1: Peak number of DSP services used for TDM connections without acoustic echo canceller to ATER interface.

Data Source

MGW

Source Field

M614C107

Source Section

DSP Services

ATER_TDM_TOTAL_CALLS

Retired in RP12.1: Total amount of successful DSP service requests for TDM connections without acoustic echo canceller to ATER interface.

Data Source

MGW

Source Field

M614C108

Source Section

DSP Services

ATER_WB_ERROR

The number of times when the codec change from AMR-NB to AMR-WB in the Ater interface fails.

Data Source

MGW

Source Field

M643C134

Source Section

Codecs

BEARER_MOD_FAILED_IU_ATM

The number of times when AAL2 bearer modification is unsuccessful, or there are insufficient resources in the bearer modification phase in Iu-ATM interface.

Data Source

MGW

Source Field

M643C105

Source Section

Codecs

BEARER_MOD_FAILED_NB_ATM

The number of times when AAL2 bearer modification is unsuccessful, or there are insufficient resources in the bearer modification phase in Nb-ATM interface.

Data Source

MGW

Source Field

M643C104

Source Section

Codecs

BETTER_CELL

Retired in RP12.1: Number of incoming better cell cause codes in the Class (000) Normal Event subcategory used at the A interface.

Data Source

MGW

Source Field

M641C64

Source Section

Incoming better cell

BLOCK

Retired in RP12.1: Number of block messages sent from the A-interface to the MSC.

Data Source

MGW

Source Field

M641C3

Source Section

MGW Messages

BLOCK_ACKNOWLEDGE

Retired in RP12.1: Number of block acknowledgement messages sent from the MSC to the A-interface.

Data Source

MGW

Source Field

M641C4

Source Section

MGW Messages

BSS_NOT_EQUIPPED

Retired in RP12.1: Number of incoming BSS not equipped cause codes in the Class (010) Resource Unavailable subcategory used at the A interface. BSS not equipped.

Data Source

MGW

Source Field

M641C72

Source Section

BSS not equipped

CALL_CONTROL

Retired in RP12.1: Number of incoming call control cause codes in the Class (000) Normal Event subcategory used at the A interface.

Data Source

MGW

Source Field

M641C61

Source Section

Incoming

CAT1_TO_CAT2_AOIP

The number of times when codec reservation from DSP is successful for the requested CAT1_TO_CAT2_AOIP codec modification.

Data Source

MGW

Source Field

M643C139

Source Section

Codecs

CAT1_TO_CAT2_IU_ATM

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested CAT1_TO_CAT2_IU_ATM codec modification.

Data Source

MGW

Source Field

M643C86

Source Section

Codecs

CAT1_TO_CAT2_IU_IP

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested CAT1_TO_CAT2_IU_IP codec modification.

Data Source

MGW

Source Field

M643C118

Source Section

Codecs

CAT1_TO_CAT2_MB

The number of times when codec reservation from DSP is successful for CAT1_TO_CAT2_MB codec modification.

Data Source

MGW

Source Field

M643C27

Source Section

Codecs

CAT1_TO_CAT2_NB_ATM

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested CAT1_TO_CAT2_NB_ATM codec modification.

Data Source

MGW

Source Field

M643C85

Source Section

Codecs

CAT1_TO_CAT2_NB_IP

The number of times when user plane re-initialisation and codec reservation from DSP is successful for CAT1_TO_CAT2_NB_IP codec modification.

Data Source

MGW

Source Field

M643C26

Source Section

Codecs

CAT1_TO_CAT3_MB

The number of times when the CAT1_TO_CAT3_MB codec has been successfully modified by reserving the requested codec from the DSP.

Data Source

MGW

Source Field

M643C60

Source Section

Codecs

CAT1_TO_CAT3_NB_ATM

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested CAT1_TO_CAT3_NB_ATM codec modification.

Data Source

MGW

Source Field

M643C89

Source Section

Codecs

CAT1_TO_CAT3_NB_IP

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested CAT1_TO_CAT3_NB_IP codec modification.

Data Source

MGW

Source Field

M643C72

Source Section

Codecs

CAT1_TO_G711_MB

The number of times when codec reservation from DSP is successful for CAT1_TO_G711_MB codec modification.

Data Source

MGW

Source Field

M643C21

Source Section

Codecs

CAT1_TO_G711_NB_ATM

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested CAT1_TO_G711_NB_ATM codec modification.

Data Source

MGW

Source Field

M643C80

Source Section

Codecs

CAT1_TO_G711_NB_IP

The number of times when user plane re-initialisation and codec reservation from DSP is successful for CAT1_TO_G711_NB_IP codec modification.

Data Source

MGW

Source Field

M643C20

Source Section

Codecs

CAT2_TO_CAT1_AOIP

The number of times when codec reservation from DSP is successful for the requested CAT2_TO_CAT1_AOIP codec modification.

Data Source

MGW

Source Field

M643C140

Source Section

Codecs

CAT2_TO_CAT1_IU_ATM

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested CAT2_TO_CAT1_IU_ATM codec modification.

Data Source

MGW

Source Field

M643C88

Source Section

Codecs

CAT2_TO_CAT1_IU_IP

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested CAT2_TO_CAT1_IU_IP codec modification.

Data Source

MGW

Source Field

M643C119

Source Section

Codecs

CAT2_TO_CAT1_MB

The number of times when codec reservation from DSP is successful for CAT2_TO_CAT1_M codec modification.

Data Source

MGW

Source Field

M643C29

Source Section

Codecs

CAT2_TO_CAT1_NB_ATM

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested CAT2_TO_CAT1_NB_ATM codec modification.

Data Source

MGW

Source Field

M643C87

Source Section

Codecs

CAT2_TO_CAT1_NB_IP

The number of times when user plane re-initialisation and codec reservation from DSP is successful for CAT2_TO_CAT1_NB_IP codec modification.

Data Source

MGW

Source Field

M643C28

Source Section

Codecs

CAT2_TO_CAT3_MB

The number of times when the CAT2_TO_CAT3_MB codec has been successfully modified by reserving the requested codec from the DSP.

Data Source

MGW

Source Field

M643C62

Source Section

Codecs

CAT2_TO_CAT3_NB_ATM

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested CAT2_TO_CAT3_NB_ATM codec modification.

Data Source

MGW

Source Field

M643C91

Source Section

Codecs

CAT2_TO_CAT3_NB_IP

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested CAT2_TO_CAT3_NB_IP codec modification.

Data Source

MGW

Source Field

M643C74

Source Section

Codecs

CAT2_TO_G711_MB

The number of times when codec reservation from DSP is successful for CAT2_TO_G711_MB codec modification.

Data Source

MGW

Source Field

M643C25

Source Section

Codecs

CAT2_TO_G711_NB_ATM

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested CAT2_TO_G711_NB_ATM codec modification.

Data Source

MGW

Source Field

M643C82

Source Section

Codecs

CAT2_TO_G711_NB_IP

The number of times when user plane re-initialisation and codec reservation from DSP is successful for CAT2_TO_G711_NB_IP codec modification.

Data Source

MGW

Source Field

M643C24

Source Section

Codecs

CAT3_TO_CAT1_MB

The number of times when the CAT3_TO_CAT1_MB codec has been successfully modified by reserving the requested codec from the DSP.

Data Source

MGW

Source Field

M643C61

Source Section

Codecs

CAT3_TO_CAT1_NB_ATM

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested CAT3_TO_CAT1_NB_ATM codec modification.

Data Source

MGW

Source Field

M643C90

Source Section

Codecs

CAT3_TO_CAT1_NB_IP

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested CAT3_TO_CAT1_NB_IP codec modification.

Data Source

MGW

Source Field

M643C73

Source Section

Codecs

CAT3_TO_CAT2_MB

The number of times when the CAT3_TO_CAT2_MB codec has been successfully modified by reserving the requested codec from the DSP.

Data Source

MGW

Source Field

M643C63

Source Section

Codecs

CAT3_TO_CAT2_NB_ATM

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested CAT3_TO_CAT2_NB_ATM codec modification.

Data Source

MGW

Source Field

M643C92

Source Section

Codecs

CAT3_TO_CAT2_NB_IP

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested CAT3_TO_CAT2_NB_IP codec modification.

Data Source

MGW

Source Field

M643C75

Source Section

Codecs

CAT3_TO_G711_MB

The number of times when the CAT3_TO_G711_MB codec has been successfully modified by reserving the requested codec from the DSP.

Data Source

MGW

Source Field

M643C59

Source Section

Codecs

CAT3_TO_G711_NB_ATM

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested CAT3_TO_G711_NB_ATM codec modification.

Data Source

MGW

Source Field

M643C84

Source Section

Codecs

CAT3_TO_G711_NB_IP

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested CAT3_TO_G711_NB_IP codec modification.

Data Source

MGW

Source Field

M643C71

Source Section

Codecs

CCCH_OVERLOAD

Retired in RP12.1: Number of incoming connection control channel overload cause codes in the Class (010) Resource Unavailable subcategory used at the A interface.

Data Source

MGW

Source Field

M641C70

Source Section

Connection control channel overload

CIPH_ALG_NOT_SUPP

Retired in RP12.1: Number of incoming ciphering algorithm not supported cause codes in the Class (100) Service or Option not Implemented subcategory used at the A interface.

Data Source

MGW

Source Field

M641C81

Source Section

Ciphering algorithm not supported

CIPHER_MODE_COMMAND

Retired in RP12.1: Number of cipher mode commands received from the MSC at the A interface. A security procedure is started.

Data Source

MGW

Source Field

M641C28

Source Section

MGW Messages

CIPHER_MODE_COMPLETE

Retired in RP12.1: Number of cipher mode complete messages sent from the A interface to the MSC. A security procedure was completed successfully.

Data Source

MGW

Source Field

M641C29

Source Section

MGW Messages

CIPHER_MODE_REJECT

Retired in RP12.1: Number of cipher mode reject messages sent from the A interface to the MSC. A security procedure was completed unsuccessfully.

Data Source

MGW

Source Field

M641C30

Source Section

MGW Messages

CLASSMARK_UPDATE

Retired in RP12.1: Number of classmark update messages sent from the A interface to the MSC.

Data Source

MGW

Source Field

M641C27

Source Section

MGW Messages

CLEAR_COMMAND

Retired in RP12.1: Number of clear commands received the from MSC at the A interface.

Data Source

MGW

Source Field

M641C5

Source Section

MGW Messages

CLEAR_COMPLETE

Retired in RP12.1: Number of clear complete messages sent from the A interface to the MSC.
This counter is RAB ID specific.

Data Source

MGW

Source Field

M641C6

Source Section

MGW Messages

CLEAR_REQUEST

Retired in RP12.1: Number of clear requests sent from the A interface to the MSC. This counter
is RAB ID specific .

Data Source

MGW

Source Field

M641C7

Source Section

MGW Messages

CLEARMODE_USE

Number of Clearmode calls.

Data Source

MGW

Source Field

M649C15

Source Section

Data Calls

CODEC_FR_AMR

Number of FR AMR codec used.

Data Source

MGW

Source Field

M643C4

Source Section

Codecs

CODEC_FR_AMR_ERROR

Number of unsuccessful activation attempts of FR AMR codec.

Data Source

MGW

Source Field

M643C12

Source Section

Codecs

CODEC_FR_AMR_WB

The number of times when DSP informs the MGW bearer control to use the FR AMR-WB codec in the Ater interface.

Data Source

MGW

Source Field

M643C130

Source Section

Codecs

CODEC_G711_A_20MS_NB

The number of times when Nb user plane initialisation for G.711 A-law codec is successful.

Data Source

MGW

Source Field

M643C128

Source Section

Codecs

CODEC_G711_A_LAW

Number of G.711 a-law codec used.

Data Source

MGW

Source Field

M643C0

Source Section

Codecs

CODEC_G711_A_LAW_CN

The number of times when resources for the requested codec G711_A_LAW_CN are reserved.

Data Source

MGW

Source Field

M643C68

Source Section

Codecs

CODEC_G711_A_LAW_ERROR

Number of unsuccessful activation attempts of G.711 a-law codec.

Data Source

MGW

Source Field

M643C8

Source Section

Codecs

CODEC_G711_U_20MS_NB

The number of times when Nb user plane initialisation for G.711 u-law codec is successful.

Data Source

MGW

Source Field

M643C129

Source Section

Codecs

CODEC_G711_U_LAW

Number of G.711 u-law codec used.

Data Source

MGW

Source Field

M643C1

Source Section

Codecs

CODEC_G711_U_LAW_CN

The number of times when resources for the requested codec G711_U_LAW_CN are reserved.

Data Source

MGW

Source Field

M643C69

Source Section

Codecs

CODEC_G711_U_LAW_ERROR

Number of unsuccessful activation attempts of G.711 -law codec.

Data Source

MGW

Source Field

M643C9

Source Section

Codecs

CODEC_G723_1

The number of times when resources for the requested G723.1 codec are reserved.

Data Source

MGW

Source Field

M643C48

Source Section

Codecs

CODEC_G723_1_ERROR

The number of times when reserving resources for the requested G723.1 codec fails for some reason.

Data Source

MGW

Source Field

M643C53

Source Section

Codecs

CODEC_G723_1A

The number of times when resources for the requested G.723.1 + AnnexA codec are reserved.

Data Source

MGW

Source Field

M643C49

Source Section

Codecs

CODEC_G723_1A_ERROR

The number of times when reserving resources for the requested G.723.1 + AnnexA codec fails for some reason.

Data Source

MGW

Source Field

M643C54

Source Section

Codecs

CODEC_G729_A

The number of times when resources for the requested G.729A codec are reserved.

Data Source

MGW

Source Field

M643C50

Source Section

Codecs

CODEC_G729_A_ERROR

The number of times when reserving resources for the requested G.729A codec fails for some reason.

Data Source

MGW

Source Field

M643C55

Source Section

Codecs

CODEC_G729_AB

The number of times when resources for the requested G.729A + AnnexB codec are reserved.

Data Source

MGW

Source Field

M643C51

Source Section

Codecs

CODEC_G729_AB_ERROR

The number of times when reserving resources for the requested G.729A + AnnexB codec fails for some reason.

Data Source

MGW

Source Field

M643C56

Source Section

Codecs

CODEC_GSM_EFR

Number of GSM EFR codec used.

Data Source

MGW

Source Field

M643C2

Source Section

Codecs

CODEC_GSM_EFR_ERROR

Number of unsuccessful activation attempts of GSM EFR codec.

Data Source

MGW

Source Field

M643C10

Source Section

Codecs

CODEC_GSM_FR

Number of GSM FR codec used.

Data Source

MGW

Source Field

M643C3

Source Section

Codecs

CODEC_GSM_FR_ERROR

Number of unsuccessful activation attempts of GSM FR codec.

Data Source

MGW

Source Field

M643C11

Source Section

Codecs

CODEC_GSM_HR

The number of times when resources for the requested GSM_HR codec are reserved.

Data Source

MGW

Source Field

M643C77

Source Section

Codecs

CODEC_GSM_HR_ERROR

The number of times when reserving resources for the requested codec did not succeed for some reason.

Data Source

MGW

Source Field

M643C138

Source Section

Codecs

CODEC_HR_AMR

Number of HR AMR codec used.

Data Source

MGW

Source Field

M643C5

Source Section

Codecs

CODEC_HR_AMR_ERROR

Number of unsuccessful activation attempts of HR AMR codec.

Data Source

MGW

Source Field

M643C13

Source Section

Codecs

CODEC_ILBC

The number of times when resources for the requested iLBC codec are reserved.

Data Source

MGW

Source Field

M643C52

Source Section

Codecs

CODEC_ILBC_CN

The number of times when resources for the requested codec ILBC_CN are reserved.

Data Source

MGW

Source Field

M643C67

Source Section

Codecs

CODEC_ILBC_ERROR

The number of times when reserving resources for the requested iLBC codec fails for some reason.

Data Source

MGW

Source Field

M643C57

Source Section

Codecs

CODEC_UMTS_AMR

Number of UMTS AMR codec used.

Data Source

MGW

Source Field

M643C6

Source Section

Codecs

CODEC_UMTS_AMR_ERROR

Number of unsuccessful activation attempts of UMTS AMR codec.

Data Source

MGW

Source Field

M643C14

Source Section

Codecs

CODEC_UMTS_AMR_WB

The number of times when resources for the asked UMTS_AMR_WB codec are reserved

Data Source

MGW

Source Field

M643C16

Source Section

Codecs

CODEC_UMTS_AMR_WB_ERROR

The number of times when reserving resources for the asked UMTS_AMR_WB codec did not succeed for some reason.

Data Source

MGW

Source Field

M643C17

Source Section

Codecs

CODEC_UMTS_AMR2

Number of UMTS AMR2 codec used.

Data Source

MGW

Source Field

M643C7

Source Section

Codecs

CODEC_UMTS_AMR2_ERROR

Number of unsuccessful activation attempts of UMTS AMR2 codec.

Data Source

MGW

Source Field

M643C15

Source Section

Codecs

COMMON_ID

Retired in RP12.1: Number of Retired in RP12.1: International Mobile Subscriber Identification (IMSI) messages received from the MSC at the A interface. This is a new message which is required at the Iu interface.

Data Source

MGW

Source Field

M641C41

Source Section

MGW Messages

COMPLETE_LAYER_3_INFORMATION

Retired in RP12.1: Number of complete layer 3 information messages sent from the A interface to the MSC. The message carries, for example, paging response and location update.

Data Source

MGW

Source Field

M641C31

Source Section

MGW Messages

CONFUSION_IN

Retired in RP12.1: Number of confusion messages received from the MSC at the A interface. A message was not accepted or understood by the MSC.

Data Source

MGW

Source Field

M641C37

Source Section

MGW Messages

CONFUSION_OUT

Retired in RP12.1: Number of confusion messages sent from the A interface to the MSC. A message from the RNC was not accepted or understood by the Multimedia Gateway Rel.99.

Data Source

MGW

Source Field

M641C38

Source Section

MGW Messages

CRCT_ALLOC_CAPACITY

Percentage of allocated capacity of DSP services used for circuit switched data connections to Iu interface.

Data Source

MGW

Source Field

M614C0

Source Section

DSP Services

CRCT_CURRENT_CALLS

Current number of DSP services used for circuit switched data connections to Iu interface. (This is an instantaneous value taken from the end of the measurement period.)

Data Source

MGW

Source Field

M614C1

Source Section

DSP Services

CRCT_FAILED_CALLS

Failed DSP service requests for circuit switched data connections to Iu interface.

Data Source

MGW

Source Field

M614C4

Source Section

DSP Services

CRCT_PEAK_CALLS

Highest value of used services recorded during a measurement period.

Data Source

MGW

Source Field

M614C2

Source Section

DSP Services

CRCT_POOL_MISMATCH

Retired in RP12.1: Number of incoming circuit pool mismatch cause codes in the Class (011)
Service or Option not Available subcategory used at the A interface.

Data Source

MGW

Source Field

M641C78

Source Section

Incoming circuit pool mismatch

CRCT_TOTAL_CALLS

Total amount of successful DSP service requests for circuit switched data connections to Iu interface.

Data Source

MGW

Source Field

M614C3

Source Section

DSP Services

DATA_CALL_AVERAGE

Average number of active data calls at the time the report is generated.

Data Source

MGW

Source Field

M649C16

Source Section

Data Calls

DATA_CALL_CURRENT

Number of active data calls at the time the report is generated.

Data Source

MGW

Source Field

M649C2

Source Section

Data Calls

DATA_CALL_ERROR

Number of unsuccessful data call connection attempts.

Data Source

MGW

Source Field

M649C1

Source Section

Data Calls

DATA_CALL_PEAK

The number of times when data_call_current counter value reaches a new high value.

Data Source

MGW

Source Field

M649C3

Source Section

Data Calls

DATA_CALL_USE

Number of connected data calls.

Data Source

MGW

Source Field

M649C0

Source Section

Data Calls

DELIVER_CELL_LIST

Retired in RP12.1: Number of incoming deliver cell list (HND RQD) cause codes in the Class (111) Interworking subcategory used at the A interface.

Data Source

MGW

Source Field

M641C89

Source Section

Deliver cell list

DIRECTED_RETRY

Retired in RP12.1: Number of incoming directed retry cause codes in the Class (000) Normal Event subcategory used at the A interface.

Data Source

MGW

Source Field

M641C65

Source Section

Incoming directed retry

DISTANCE

Retired in RP12.1: Number of incoming distance cause codes in the Class (000) Normal Event subcategory used at the A interface.

Data Source

MGW

Source Field

M641C58

Source Section

Distance

DOWNLINK_QUALITY

Retired in RP12.1: Number of incoming downlink quality cause codes in the Class (000)
Normal Event subcategory used at the A interface.

Data Source

MGW

Source Field

M641C56

Source Section

Downlink quality

DOWNLINK_STRENGTH

Retired in RP12.1: Number of incoming downlink strength cause codes in the Class (000)
Normal Event subcategory used at the A interface.

Data Source

MGW

Source Field

M641C57

Source Section

Downlink strength

DTMF_CODEEC_DETECTED

The number of times when the 1st DTMF is detected using DTMF codec over RTP.

Data Source

MGW

Source Field

M643C116

Source Section

Codecs

DTMF_CODEC_GENERATED

The number of times when the 1st DTMF is generated using DTMF codec over RTP.

Data Source

MGW

Source Field

M643C117

Source Section

Codecs

DTMF_CODEC_RESERVED

The number of times when the DTMF codec is reserved successfully on Mb and Nb(SIP-I) - interfaces.

Data Source

MGW

Source Field

M643C115

Source Section

Codecs

DTMF_DET_ALLOC_CAPACITY

Retired in RP12.1: Percentage of allocated capacity of DTMF detection service.

Data Source

MGW

Source Field

M614C40

Source Section

DSP Services

DTMF_DET_CURRENT_CALLS

Retired in RP12.1: Current number of DSP services used for DTMF (dual tone multifrequency) detection service. This is an instantaneous value taken from the end of the measurement period.

Data Source

MGW

Source Field

M614C41

Source Section

DSP Services

DTMF_DET_FAILED_CALLS

Retired in RP12.1: Failed DSP service requests for DTMF (dual tone multi-frequency) detection service.

Data Source

MGW

Source Field

M614C44

Source Section

DSP Services

DTMF_DET_PEAK_CALLS

Retired in RP12.1: Peak number of DSP services used for DTMF (dual tone multi-frequency) detection service. The value is the highest value of used services recorded during a measurement period.

Data Source

MGW

Source Field

M614C42

Source Section

DSP Services

DTMF_DET_TOTAL_CALLS

Retired in RP12.1: Total amount of successful DSP service requests for DTMF (dual tone multi-frequency) detection.

Data Source

MGW

Source Field

M614C43

Source Section

DSP Services

DTMF_GEN_ALLOC_CAPACITY

Retired in RP12.1: Percentage of allocated capacity of DTMF generation service.

Data Source

MGW

Source Field

M614C35

Source Section

DSP Services

DTMF_GEN_CURRENT_CALLS

Retired in RP12.1: Current number of DSP services used for DTMF (dual tone multifrequency) generation service. This is an instantaneous value taken from the end of the measurement period.

Data Source

MGW

Source Field

M614C36

Source Section

DSP Services

DTMF_GEN_FAILED_CALLS

Retired in RP12.1: Failed DSP service requests for DTMF (dual tone multi-frequency) generation service.

Data Source

MGW

Source Field

M614C39

Source Section

DSP Services

DTMF_GEN_PEAK_CALLS

Retired in RP12.1: Peak number of DSP services used for DTMF (dual tone multi-frequency) generation service. The value is the highest value of used services recorded during a measurement period.

Data Source

MGW

Source Field

M614C37

Source Section

DSP Services

DTMF_GEN_TOTAL_CALLS

Retired in RP12.1: Total amount of successful DSP service requests for DTMF (dual tone multi-frequency) generation.

Data Source

MGW

Source Field

M614C38

Source Section

DSP Services

EQUIPMENT_FAIL

Retired in RP12.1: Number of incoming equipment failure cause codes in the Class (010)Resource Unavailable subcategory used at the A interface.

Data Source

MGW

Source Field

M641C67

Source Section

Incoming equipment failure

FAULTY_SEA

Retired in RP12.1: Number of faulty service end point address messages. The transport address does not match with the local one and the user plane setup cannot be completed.

Data Source

MGW

Source Field

M642C6

Source Section

Faulty service end point address msgs

FAX_MODEM_MGC_REQ_USE

Number of fax/modem data calls and indication requested by MGC.

Data Source

MGW

Source Field

M649C12

Source Section

Data Calls

FAX_MODEM_USE

Number of fax/modem data calls and indication not requested by MGC.

Data Source

MGW

Source Field

M649C13

Source Section

Data Calls

G711_AVERAGE

Average number of ongoing audio and speech connections (between two terminations) where G711 service have been used in one physical MGW.

Data Source

MGW

Source Field

M648C30

Source Section

TrFo and TFO

G711_CODEC_MOD

The number of times when G.711 connection has been established after a codec modification request from MSS.

Data Source

MGW

Source Field

M648C22

Source Section

TrFo and TFO

G711_CURRENT

The number of times when Iu/Nb/Mb UPs in both terminations have been established, both-way topology connected and G.711 services have been reserved for both subscriber terminations. Decrementated after G.711 connection between terminations is released.

Data Source

MGW

Source Field

M648C18

Source Section

TrFo and TFO

G711_DSP_OPT

The number of times when G.711 connection has been established after DSP optimisation by BC2PRB.

Data Source

MGW

Source Field

M648C25

Source Section

TrFo and TFO

G711_PEAK

Maximum value for G711_CURRENT counter when G.711 connection between two terminations has been established.

Data Source

MGW

Source Field

M648C19

Source Section

TrFo and TFO

G711_TO_CAT1_MB

The number of times when codec reservation from DSP is successful for G711_TO_CAT1_MB codec modification.

Data Source

MGW

Source Field

M643C19

Source Section

Codecs

G711_TO_CAT1_NB_ATM

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested G711_TO_CAT1_NB_ATM codec modification.

Data Source

MGW

Source Field

M643C79

Source Section

Codecs

G711_TO_CAT1_NB_IP

The number of times when user plane re-initialisation and codec reservation from DSP is successful for G711_TO_CAT1_NB_IP codec modification.

Data Source

MGW

Source Field

M643C18

Source Section

Codecs

G711_TO_CAT2_MB

The number of times when codec reservation from DSP is successful for G711_TO_CAT2_MB codec modification.

Data Source

MGW

Source Field

M643C23

Source Section

Codecs

G711_TO_CAT2_NB_ATM

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested G711_TO_CAT2_NB_ATM codec modification.

Data Source

MGW

Source Field

M643C81

Source Section

Codecs

G711_TO_CAT2_NB_IP

The number of times when user plane re-initialisation and codec reservation from DSP is successful for G711_TO_CAT2_NB_IP codec modification.

Data Source

MGW

Source Field

M643C22

Source Section

Codecs

G711_TO_CAT3_MB

The number of times when the G711_TO_CAT3_MB codec has been successfully modified by reserving the requested codec from the DSP.

Data Source

MGW

Source Field

M643C58

Source Section

Codecs

G711_TO_CAT3_NB_ATM

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested G711_TO_CAT3_NB_ATM codec modification.

Data Source

MGW

Source Field

M643C83

Source Section

Codecs

G711_TO_CAT3_NB_IP

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested G711_TO_CAT3_NB_IP codec modification.

Data Source

MGW

Source Field

M643C70

Source Section

Codecs

G711_USE

The number of times when Iu/Nb/Mb UPs in both terminations have been established, both-way topology connected and G.711 services have been reserved to both subscribers.

Data Source

MGW

Source Field

M648C17

Source Section

TrFo and TFO

HANDOVER_COMMAND

Retired in RP12.1: Number of handover command messages received from the MSC at the A interface.

Data Source

MGW

Source Field

M641C14

Source Section

MGW Messages

HANDOVER_COMPLETE

Retired in RP12.1: Number of handover complete messages sent from the A interface to the MSC.

Data Source

MGW

Source Field

M641C15

Source Section

MGW Messages

HANDOVER_DETECT

Retired in RP12.1: Number of handover detected messages sent from the A interface to the MSC.

Data Source

MGW

Source Field

M641C18

Source Section

MGW Messages

HANDOVER_FAILURE

Retired in RP12.1: Number of handover failure messages sent from the A interface to the MSC.

Data Source

MGW

Source Field

M641C16

Source Section

MGW Messages

HANDOVER_PERFORMED

Retired in RP12.1: Number of handover performed messages sent from the A interface to the MSC.

Data Source

MGW

Source Field

M641C17

Source Section

MGW Messages

HANDOVER_REQUEST

Retired in RP12.1: Number of hand over requests received from the MSC at the A interface.
This counter is RAB ID specific.

Data Source

MGW

Source Field

M641C10

Source Section

MGW Messages

HANDOVER_REQUEST_ACKNOWLEDGE

Retired in RP12.1: Number of handover request acknowledge messages sent from the A interface to the MSC. This counter is RAB ID specific.

Data Source

MGW

Source Field

M641C13

Source Section

MGW Messages

HANDOVER_REQUIRED

Retired in RP12.1: Number of hand over required messages sent from the A interface to the MSC.

Data Source

MGW

Source Field

M641C11

Source Section

MGW Messages

HANDOVER_REQUIRED_REJECT

Retired in RP12.1: Number of handover required reject messages received from the MSC at the A interface.

Data Source

MGW

Source Field

M641C12

Source Section

MGW Messages

HANDOVER_SUCC

Retired in RP12.1: Number of incoming handover successful cause codes in the Class(000) Normal Event subcategory used at the A interface.

Data Source

MGW

Source Field

M641C63

Source Section

Incomong handover successful

INCORRECT_VALUE

Retired in RP12.1: Number of incoming incorrect value cause codes in the Class (101) Retired in RP12.1: Invalid Message subcategory used at the A interface.

Data Source

MGW

Source Field

M641C85

Source Section

Incorrect value

INF_ELE_OR_FIE_MIS

Retired in RP12.1: Number of incoming invalid element or field missing cause codes in the Class (101) Retired in RP12.1: Invalid Message subcategory used at the A interface.

Data Source

MGW

Source Field

M641C84

Source Section

Invalid element missing

INSIDE_CAT1_AOIP

The number of times when codec reservation from DSP is successful for the requested INSIDE_CAT1_AOIP codec modification.

Data Source

MGW

Source Field

M643C141

Source Section

Codecs

INSIDE_CAT1_IU_ATM

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested INSIDE_CAT1_IU_ATM codec modification.

Data Source

MGW

Source Field

M643C94

Source Section

Codecs

INSIDE_CAT1_IU_IP

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested INSIDE_CAT1_IU_IP codec modification.

Data Source

MGW

Source Field

M643C120

Source Section

Codecs

INSIDE_CAT1_MB

The number of times when codec reservation from DSP is successful for INSIDE_CAT1_MB codec modification.

Data Source

MGW

Source Field

M643C31

Source Section

Codecs

INSIDE_CAT1_NB_ATM

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested INSIDE_CAT1_NB_ATM codec modification.

Data Source

MGW

Source Field

M643C93

Source Section

Codecs

INSIDE_CAT1_NB_IP

The number of times when user plane re-initialisation and codec reservation from DSP is successful for INSIDE_CAT1_NB_IP codec modification.

Data Source

MGW

Source Field

M643C30

Source Section

Codecs

INSIDE_CAT2_AOIP

The number of times when codec reservation from DSP is successful for the requested INSIDE_CAT2_AOIP codec modification.

Data Source

MGW

Source Field

M643C142

Source Section

Codecs

INSIDE_CAT2_IU_ATM

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested INSIDE_CAT2_IU_ATM codec modification.

Data Source

MGW

Source Field

M643C96

Source Section

Codecs

INSIDE_CAT2_IU_IP

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested INSIDE_CAT2_IU_IP codec modification.

Data Source

MGW

Source Field

M643C121

Source Section

Codecs

INSIDE_CAT2_MB

The number of times when codec reservation from DSP is successful for INSIDE_CAT2_MB codec modification.

Data Source

MGW

Source Field

M643C33

Source Section

Codecs

INSIDE_CAT2_NB_ATM

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested INSIDE_CAT2_NB_ATM codec modification.

Data Source

MGW

Source Field

M643C95

Source Section

Codecs

INSIDE_CAT2_NB_IP

The number of times when user plane re-initialisation and codec reservation from DSP is successful for INSIDE_CAT2_NB_IP codec modification.

Data Source

MGW

Source Field

M643C32

Source Section

Codecs

INSIDE_CAT3_MB

The number of times when the INSIDE_CAT3_MB codec has been successfully modified by reserving the requested codec from the DSP.

Data Source

MGW

Source Field

M643C64

Source Section

Codecs

INSIDE_CAT3_NB_ATM

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested INSIDE_CAT3_NB_ATM codec modification.

Data Source

MGW

Source Field

M643C97

Source Section

Codecs

INSIDE_CAT3_NB_IP

The number of times when user plane re-initialisation and codec reservation from DSP are successful for the requested INSIDE_CAT3_NB_IP codec modification.

Data Source

MGW

Source Field

M643C76

Source Section

Codecs

INTERNAL_TERM_ALLOC_CAPACITY

Retired in RP12.1: Average allocated capacity of MGW internal DSP services.

Data Source

MGW

Source Field

M614C100

Source Section

DSP Services

INTERNAL_TERM_CURRENT_CALLS

Retired in RP12.1: Current number of MGW internal DSP services.

Data Source

MGW

Source Field

M614C101

Source Section

DSP Services

INTERNAL_TERM_FAILED_CALLS

Retired in RP12.1: Number of failed requests for MGW internal DSP services.

Data Source

MGW

Source Field

M614C104

Source Section

DSP Services

INTERNAL_TERM_PEAK_CALLS

Retired in RP12.1: Peak number of MGW internal DSP services.

Data Source

MGW

Source Field

M614C102

Source Section

DSP Services

INTERNAL_TERM_TOTAL_CALLS

Retired in RP12.1: Total amount of successful requests for MGW internal DSP services.

Data Source

MGW

Source Field

M614C103

Source Section

DSP Services

INVALID_CELL

Retired in RP12.1: Number of incoming invalid cell cause codes in the Class (010) Resource Unavailable subcategory used at the A interface.

Data Source

MGW

Source Field

M641C74

Source Section

Invalid cell

INVALID_MSG_CONT

Retired in RP12.1: Number of incoming invalid message content cause codes in the Class(101)
Retired in RP12.1: Invalid Message subcategory used at the A interface.

Data Source

MGW

Source Field

M641C83

Source Section

Invalid message content

IP_PROVIDER_ALLOC_CAPACITY

Retired in RP12.1: Average allocated capacity of DSP services used for all IP connections (IP connections to MB interface or NB interface).

Data Source

MGW

Source Field

M614C95

Source Section

DSP Services

IP_PROVIDER_CURRENT_CALLS

Retired in RP12.1: Current number of DSP services used for all IP connections (IP connections to MB interface or NB interface).

Data Source

MGW

Source Field

M614C96

Source Section

DSP Services

IP_PROVIDER_FAILED_CALLS

Retired in RP12.1: Number of failed DSP service requests for all IP connections (IP connections to MB interface or NB interface).

Data Source

MGW

Source Field

M614C99

Source Section

DSP Services

IP_PROVIDER_PEAK_CALLS

Retired in RP12.1: Peak number of DSP services used for all IP connections (IP connections to MB interface or NB interface).

Data Source

MGW

Source Field

M614C97

Source Section

DSP Services

IP_PROVIDER_TOTAL_CALLS

Retired in RP12.1: Total amount of successful DSP service requests for all IP connections (IP connections to MB interface or NB interface).

Data Source

MGW

Source Field

M614C98

Source Section

DSP Services

IP_TRUNK_ALLOC_CAPACITY

Percentage of allocated capacity of DSP services used for connections to IP-backbone (MSC IP Trunk interworking)

Data Source

MGW

Source Field

M614C20

Source Section

DSP Services

IP_TRUNK_CURRENT_CALLS

Current number of DSP services used for connections to IP backbone (MSCIP Trunk interworking).

Data Source

MGW

Source Field

M614C21

Source Section

DSP Services

IP_TRUNK_FAILED_CALLS

Failed DSP service requests for connections to IP backbone (MSC IP Trunk interworking).

Data Source

MGW

Source Field

M614C24

Source Section

DSP Services

IP_TRUNK_PEAK_CALLS

Peak number of DSP services used for connections to IP-backbone (MSC IP Trunk interworking). The value is the highest value of used services recorded during a measurement period.

Data Source

MGW

Source Field

M614C22

Source Section

DSP Services

IP_TRUNK_TOTAL_CALLS

Total amount of successful DSP service requests for connections to IP-backbone (MSC IP Trunk interworking).

Data Source

MGW

Source Field

M614C23

Source Section

DSP Services

IU_AEC_ATM_ALLOC_CAPACITY

Retired in RP12.1: Average allocated capacity of DSP services used for connections with acoustic echo canceller to Iu-CS interface.

Data Source

MGW

Source Field

M614C55

Source Section

DSP Services

IU_AEC_ATM_CURRENT_CALLS

Retired in RP12.1: Current number of DSP services used for connections with acoustic echo canceller to Iu-CS interface.

Data Source

MGW

Source Field

M614C56

Source Section

DSP Services

IU_AEC_ATM_FAILED_CALLS

Retired in RP12.1: Number of failed DSP service requests for connections with acoustic echo canceller to Iu-CS interface.

Data Source

MGW

Source Field

M614C59

Source Section

DSP Services

IU_AEC_ATM_PEAK_CALLS

Retired in RP12.1: Peak number of DSP services used for connections with acoustic echo canceller to Iu-CS interface.

Data Source

MGW

Source Field

M614C57

Source Section

DSP Services

IU_AEC_ATM_TOTAL_CALLS

Retired in RP12.1: Total amount of successful DSP service requests for connections with acoustic echo canceller to Iu-CS interface.

Data Source

MGW

Source Field

M614C58

Source Section

DSP Services

IU_ATM_ALLOC_CAPACITY

Retired in RP12.1: Average allocated capacity of DSP services used for connections without acoustic echo canceller to Iu-CS interface.

Data Source

MGW

Source Field

M614C50

Source Section

DSP Services

IU_ATM_CURRENT_CALLS

Retired in RP12.1: Current number of DSP services used for connections without acoustic echo canceller to Iu-CS interface.

Data Source

MGW

Source Field

M614C51

Source Section

DSP Services

IU_ATM_FAILED_CALLS

Retired in RP12.1: Number of failed DSP service requests for connections without acoustic echo canceller to Iu-CS interface.

Data Source

MGW

Source Field

M614C54

Source Section

DSP Services

IU_ATM_PEAK_CALLS

Retired in RP12.1: Peak number of DSP services used for connections without acoustic echo canceller to Iu-CS interface.

Data Source

MGW

Source Field

M614C52

Source Section

DSP Services

IU_ATM_TOTAL_CALLS

Retired in RP12.1: Total amount of successful DSP service requests for connections without acoustic echo canceller to Iu-CS interface.

Data Source

MGW

Source Field

M614C53

Source Section

DSP Services

IU_NB_ATM_ALLOC_CAPACITY

Percentage of allocated capacity of DSP services used for speech connections to UTRAN (Iu interface) or ATM backbone (Nb interface)

Data Source

MGW

Source Field

M614C15

Source Section

DSP Services

IU_NB_ATM_CURRENT_CALLS

Current number of DSP services used for speech connections to UTRAN (Iu interface) or ATM backbone (Nb interface). This is an instantaneous value taken from the end of the measurement period.

Data Source

MGW

Source Field

M614C16

Source Section

DSP Services

IU_NB_ATM_FAILED_CALLS

Failed DSP service requests for speech connections to UTRAN (Iu interface) or ATM backbone (Nb interface).

Data Source

MGW

Source Field

M614C19

Source Section

DSP Services

IU_NB_ATM_PEAK_CALLS

Peak number of DSP services used for speech connections to UTRAN (Iu interface) or ATM backbone (Nb interface). The value is the highest value of used services recorded during a measurement period.

Data Source

MGW

Source Field

M614C17

Source Section

DSP Services

IU_NB_ATM_TOTAL_CALLS

Total amount of successful DSP service requests for speech connections to UTRAN (Iu interface) or ATM backbone (Nb interface).

Data Source

MGW

Source Field

M614C18

Source Section

DSP Services

IU_NB_IP_ALLOC_CAPACITY

Percentage of allocated capacity of DSP services used for connections to IP-backbone (Nb interface).

Data Source

MGW

Source Field

M614C10

Source Section

DSP Services

IU_NB_IP_CURRENT_CALLS

Current number of DSP services used for connections to IP backbone (Nb interface). This is an instantaneous value taken from the end of the measurement period.

Data Source

MGW

Source Field

M614C11

Source Section

DSP Services

IU_NB_IP_FAILED_CALLS

Failed DSP service requests for connections to IP backbone (Nb interface).

Data Source

MGW

Source Field

M614C14

Source Section

DSP Services

IU_NB_IP_PEAK_CALLS

Peak number of DSP services used for connections to IP-backbone (Nb interface). The value is the highest value of used services recorded during a measurement period.

Data Source

MGW

Source Field

M614C12

Source Section

DSP Services

IU_NB_IP_TOTAL_CALLS

Total amount of successful DSP service requests for connections to IP-backbone (Nb interface).

Data Source

MGW

Source Field

M614C13

Source Section

DSP Services

IWF_NOT_USED

The number of times when data call that does not use IWF services in MGW is connected successfully.

Data Source

MGW

Source Field

M649C4

Source Section

Data Calls

IWF_NOT_USED_AVERAGE

Average number of active data calls that does not use IWF services in MGW at the time the report is generated. This counter includes also UE/UE data calls.

Data Source

MGW

Source Field

M649C17

Source Section

Data Calls

IWF_NOT_USED_CURRENT

The number of times when resource reservation for a data call that do not use IWF services in MGW is successful and decremented when a data call that do not use IWF services in MGW is released.

Data Source

MGW

Source Field

M649C6

Source Section

Data Calls

IWF_NOT_USED_ERROR

The number of times when resource reservation for data call that does not use IWF services in MGW fails for some reason.

Data Source

MGW

Source Field

M649C5

Source Section

Data Calls

IWF_NOT_USED_PEAK

Maximum value for IWF_NOT_USED_CURRENT counter.

Data Source

MGW

Source Field

M649C7

Source Section

Data Calls

MB_IP_ALLOC_CAPACITY

Retired in RP12.1: Average allocated capacity of DSP services used for connections to IP Multimedia Subsystem (IMS) or MSC IP Trunk.

Data Source

MGW

Source Field

M614C75

Source Section

DSP Services

MB_IP_CURRENT_CALLS

Retired in RP12.1: Current number of DSP services used for connections to IP Multimedia Subsystem (IMS) or MSC IP Trunk.

Data Source

MGW

Source Field

M614C76

Source Section

DSP Services

MB_IP_FAILED_CALLS

Retired in RP12.1: Number of failed DSP service requests for connections to IP Multimedia Subsystem (IMS) or MSC IP Trunk interface.

Data Source

MGW

Source Field

M614C79

Source Section

DSP Services

MB_IP_PEAK_CALLS

Retired in RP12.1: Peak number of DSP services used for connections to IP Multimedia Subsystem (IMS) or MSC IP Trunk.

Data Source

MGW

Source Field

M614C77

Source Section

DSP Services

MB_IP_TOTAL_CALLS

Retired in RP12.1: Total amount of successful DSP service requests for connections to IP Multimedia Subsystem (IMS) or MSC IP Trunk.

Data Source

MGW

Source Field

M614C78

Source Section

DSP Services

MGW_Release

MGW Release

Data Source

MGW

Source Field

RELEASE

Source Section

Configuration

MOD_SERV_RES_DIFF_DSPS

The number of times when transcoding service for the termination is successfully modified from another DSP unit than the original resource.

Data Source

MGW

Source Field

M643C46

Source Section

Codecs

MOD_SERV_RES_DIFF_DSPS_ERROR

The number of times when transcoding service for the termination is unsuccessfully modified from another DSP unit than the original resource.

Data Source

MGW

Source Field

M643C47

Source Section

Codecs

MOD_SERV_RES_SAME_DSP

The number of times when transcoding service for the termination is modified successfully from the same DSP unit as the original resource.

Data Source

MGW

Source Field

M643C44

Source Section

Codecs

MOD_SERV_RES_SAME_DSP_ERROR

The number of times when transcoding service for the termination is modified unsuccessfully from the same DSP unit as the original resource.

Data Source

MGW

Source Field

M643C45

Source Section

Codecs

MP_AVERAGE

Average number of multiparty calls (simultaneous multi-party context H.248).

Data Source

MGW

Source Field

M644C4

Source Section

Codecs

MP_CURRENT

Number of multiparty calls (simultaneous multi-party context H.248).

Data Source

MGW

Source Field

M644C1

Source Section

Codecs

MP_FAILURE

No resources for new multiparty call or creating a new multi-party call has failed.

Data Source

MGW

Source Field

M644C3

Source Section

Codecs

MP_PEAK

Highest value of simultaneous multiparty calls in one result accumulation period.

Data Source

MGW

Source Field

M644C2

Source Section

Codecs

MP_TOTAL

Total number of multiparty calls (contexts created).

Data Source

MGW

Source Field

M644C0

Source Section

Codecs

MS_NOT_EQUIPPED

Retired in RP12.1: Number of incoming MS not equipped cause codes in the Class (010) Resource Unavailable subcategory used at the A interface.

Data Source

MGW

Source Field

M641C73

Source Section

MS not equipped

MSC_INVOKE_TRACE

Retired in RP12.1: Number of MSC invoke trace messages received from the MSC at the A interface. The Retired in RP12.1: CN requests the RNC to start a trace for a connection.

Data Source

MGW

Source Field

M641C26

Source Section

MGW Messages

MUME_TO_SPEECH_IU_ATM

The number of times when codec reservation from DSP is successful for the requested MUME_TO_SPEECH_IU_ATM codec modification.

Data Source

MGW

Source Field

M643C108

Source Section

Codecs

MUME_TO_SPEECH_IU_IP

The number of times when codec reservation from DSP is successful for the requested MUME_TO_SPEECH_IU_IP codec modification.

Data Source

MGW

Source Field

M643C125

Source Section

Codecs

MUME_TO_SPEECH_NB_ATM

The number of times when codec reservation from DSP is successful for the requested MUME_TO_SPEECH_NB_ATM codec modification.

Data Source

MGW

Source Field

M643C107

Source Section

Codecs

MUME_TO_SPEECH_NB_IP

The number of times when codec reservation from DSP is successful for the requested MUME_TO_SPEECH_NB_IP codec modification.

Data Source

MGW

Source Field

M643C106

Source Section

Codecs

NB_ATM_ALLOC_CAPACITY

Retired in RP12.1: Average allocated capacity of DSP services used for MGW connections to Nb interface over ATM backbone.

Data Source

MGW

Source Field

M614C60

Source Section

DSP Services

NB_ATM_CURRENT_CALLS

Retired in RP12.1: Current number of DSP services used for MGW connections to Nb interface over ATM backbone.

Data Source

MGW

Source Field

M614C61

Source Section

DSP Services

NB_ATM_FAILED_CALLS

Retired in RP12.1: Number of failed DSP service requests for MGW connections to Nb interface over ATM backbone.

Data Source

MGW

Source Field

M614C64

Source Section

DSP Services

NB_ATM_PEAK_CALLS

Retired in RP12.1: Peak number of DSP services used for MGW connections to Nb interface over ATM backbone.

Data Source

MGW

Source Field

M614C62

Source Section

DSP Services

NB_ATM_TOTAL_CALLS

Retired in RP12.1: Total amount of successful DSP service requests for MGW connections to Nb interface over ATM backbone.

Data Source

MGW

Source Field

M614C63

Source Section

DSP Services

NB_IP_ALLOC_CAPACITY

Retired in RP12.1: Average allocated capacity of DSP services used for MGW connections to Nb interface over IP backbone.

Data Source

MGW

Source Field

M614C65

Source Section

DSP Services

NB_IP_CURRENT_CALLS

Retired in RP12.1: Current number of DSP services used for MGW connections to Nb interface over IP backbone.

Data Source

MGW

Source Field

M614C66

Source Section

DSP Services

NB_IP_FAILED_CALLS

Retired in RP12.1: Number of failed DSP service requests for MGW connections to Nb interface over IP backbone.

Data Source

MGW

Source Field

M614C69

Source Section

DSP Services

NB_IP_PEAK_CALLS

Retired in RP12.1: Peak number of DSP services used for MGW connections to Nb interface over IP backbone.

Data Source

MGW

Source Field

M614C67

Source Section

DSP Services

NB_IP_TOTAL_CALLS

Retired in RP12.1: Total amount of successful DSP service requests for MGW connections to Nb interface over IP backbone.

Data Source

MGW

Source Field

M614C68

Source Section

DSP Services

NB_TDM_ALLOC_CAPACITY

Retired in RP12.1: Average allocated capacity of DSP services used for TDM connections except PSTN type connections (PSTN / ISDN / PLMN) and BSS connections, for example, TDM connections to NB interface.

Data Source

MGW

Source Field

M614C70

Source Section

DSP Services

NB_TDM_CURRENT_CALLS

Retired in RP12.1: Current number of DSP services used for TDM connections except PSTN type connections (PSTN / ISDN / PLMN) and BSS connections, for example, TDM connections to NB interface.

Data Source

MGW

Source Field

M614C71

Source Section

DSP Services

NB_TDM_FAILED_CALLS

Retired in RP12.1: Number of failed DSP service requests for TDM connections except PSTN type connections (PSTN / ISDN / PLMN) and BSS connections, for example, TDM connections to NB interface.

Data Source

MGW

Source Field

M614C74

Source Section

DSP Services

NB_TDM_PEAK_CALLS

Retired in RP12.1: Peak number of DSP services used for TDM connections except PSTN type connections (PSTN / ISDN / PLMN) and BSS connections, for example, TDM connections to NB interface.

Data Source

MGW

Source Field

M614C72

Source Section

DSP Services

NB_TDM_TOTAL_CALLS

Retired in RP12.1: Total amount of successful DSP service requests for TDM connections except PSTN type connections (PSTN / ISDN / PLMN) and BSS connections, for example, TDM connections to NB interface.

Data Source

MGW

Source Field

M614C73

Source Section

DSP Services

NO_RADIO_RES_AVAIL

Retired in RP12.1: Number of incoming no radio resources available cause codes in the Class (010) Resource Unavailable subcategory used at the A interface.

Data Source

MGW

Source Field

M641C68

Source Section

Radio resources unavailable

NO_RESOURCES_AOIP

The number of times when codec reservation from DSP at the AoIP interface fails for the requested codec modification.

Data Source

MGW

Source Field

M643C144

Source Section

Codecs

NO_RESOURCES_IU_ATM

The number of times when modification of the resources required by the new codec is unsuccessful in Iu-ATM interface.

Data Source

MGW

Source Field

M643C101

Source Section

Codecs

NO_RESOURCES_IU_IP

The number of times when modification of resources required by a new codec fails in the Iu-IP interface.

Data Source

MGW

Source Field

M643C123

Source Section

Codecs

NO_RESOURCES_MB

The number of times when codec reservation from DSP fails for asked codec modification at the Mb interface.

Data Source

MGW

Source Field

M643C38

Source Section

Codecs

NO_RESOURCES_NB_ATM

The number of times when modification of the resources required by the new codec is unsuccessful in Nb-ATM interface.

Data Source

MGW

Source Field

M643C100

Source Section

Codecs

NO_RESOURCES_NB_IP

The number of times when codec reservation from DSP fails for asked codec modification at the Nb-IP interface.

Data Source

MGW

Source Field

M643C37

Source Section

Codecs

NOT_SUPPORT_FUNC_AOIP

The number of times when MGW controller requests codec modification at the AoIP interface that is not supported in MGW.

Data Source

MGW

Source Field

M643C143

Source Section

Codecs

NOT_SUPPORT_FUNCT_IU_ATM

The number of times when MGW receives ModifyRequest command from MGW controller in Iu-ATM interface.

Data Source

MGW

Source Field

M643C99

Source Section

Codecs

NOT_SUPPORT_FUNCT_IU_IP

The number of times when MGW receives a ModifyRequest command from the MGW controller in the Iu-IP interface.

Data Source

MGW

Source Field

M643C122

Source Section

Codecs

NOT_SUPPORT_FUNCT_MB

The number of times when MGW controller requests codec modification that is not supported in MGW at the Mb interface.

Data Source

MGW

Source Field

M643C36

Source Section

Codecs

NOT_SUPPORT_FUNCT_NB_ATM

The number of times when MGW receives ModifyRequest command from MGW controller in Nb-ATM interface.

Data Source

MGW

Source Field

M643C98

Source Section

Codecs

NOT_SUPPORT_FUNCT_NB_IP

The number of times when MGW controller requests codec modification that is not supported in MGW at the Nb-IP interface.

Data Source

MGW

Source Field

M643C35

Source Section

Codecs

O_AND_M_INTER

Retired in RP12.1: Number of incoming operation & maintenance intervention cause codes in the Class (000) Normal Event subcategory used at the A interface.

Data Source

MGW

Source Field

M641C59

Source Section

O&M intervention

OLC_LOCATION_UPDATE

Retired in RP12.1: Number of OLC locationupdate internal cause codes. It is the number of location updates which were rejected due to the overload situation in the Multimedia Gateway Rel.99.

Data Source

MGW

Source Field

M641C48

Source Section

OLC Mobile

OLC_MO_EMERGENCY_CALL

Retired in RP12.1: Number of OLC mobile originated emergency call internal cause codes. The number of mobile originated emergency calls which were rejected due to the overload situation in the Multimedia Gateway Rel.99.

Data Source

MGW

Source Field

M641C45

Source Section

OLC Mobile

OLC_MO_PROCEDURE

Retired in RP12.1: Number of OLC mobile originated procedure internal cause codes. The number of mobile originated procedures which were rejected due to the overload situation in the Multimedia Gateway Rel.99.

Data Source

MGW

Source Field

M641C47

Source Section

OLC Mobile

OLC_MT_PROCEDURE

Retired in RP12.1: Number of OLC mobile terminated procedure internal cause codes. It is the number of mobile terminated procedures which were rejected due to the overload situation in the Multimedia Gateway Rel.99.

Data Source

MGW

Source Field

M641C46

Source Section

OLC Mobile

OVERLOAD_IN

Retired in RP12.1: Number of overload messages received from the MSC at the A interface. The MSC informs the A interface about an overload situation.

Data Source

MGW

Source Field

M641C24

Source Section

MGW Messages

OVERLOAD_OUT

Retired in RP12.1: Number of overload messages sent from the A interface to the MSC. The RNC informs the MSC about an overload situation.

Data Source

MGW

Source Field

M641C25

Source Section

MGW Messages

PAGING

Retired in RP12.1: Number of paging messages received from the MSC at the A interface. A mobile subscriber is paged.

Data Source

MGW

Source Field

M641C23

Source Section

MGW Messages

PARAMETER_CONVERSION_FAILURE

Retired in RP12.1: Number of parameter conversion failed internal cause codes. The number of parameter conversion failures between RANAP and BSSMAP.

Data Source

MGW

Source Field

M641C49

Source Section

Parameter Conversion Failed

PASSTHROUGH_USE

Number of Passthrough mode calls.

Data Source

MGW

Source Field

M649C14

Source Section

Data Calls

PERFORM_LOC_ABORT

Retired in RP12.1: Number of perform location abort messages received from the MSC at the A interface.

Data Source

MGW

Source Field

M641C43

Source Section

MGW Messages

PERFORM_LOC_REQ

Retired in RP12.1: Number of perform location request messages received from the MSC at the A interface.

Data Source

MGW

Source Field

M641C42

Source Section

MGW Messages

PERFORM_LOCATION_RES

Retired in RP12.1: Number of perform location response messages sent from A interface to the MSC.

Data Source

MGW

Source Field

M641C44

Source Section

MGW Messages

PERLENSEC

Period Length

Data Source

MGW

Source Field

PERLENSEC

Source Section

Period Length

PREEMPTION

Retired in RP12.1: Number of incoming preemption cause codes in the Class (010) Resource Unavailable subcategory used at the A interface.

Data Source

MGW

Source Field

M641C76

Source Section

Incoming preemption

PROCESSOR_OVERLOAD

Retired in RP12.1: Number of incoming processor overload cause codes in the Class (010) Resource Unavailable subcategory used at the A interface.

Data Source

MGW

Source Field

M641C71

Source Section

Processor overload

PROT_ERR_B_BSC_MSC

Retired in RP12.1: Number of incoming protocol error between BSC and MSC cause codes in the Class (110) Protocol Retired in RP12.1: Error subcategory used at the A interface.

Data Source

MGW

Source Field

M641C88

Source Section

Protocol error between BSC and MSC

PSTN_A_EC_ALLOC_CAPACITY

Percentage of allocated capacity of DSP services used for connections to PSTN or A interface with echo canceller resource.

Data Source

MGW

Source Field

M614C25

Source Section

DSP Services

PSTN_A_EC_CURRENT_CALLS

Current number of DSP services used for connections to PSTN or A interface with echo canceller resource. This is an instantaneous value taken from the end of the measurement period.

Data Source

MGW

Source Field

M614C26

Source Section

DSP Services

PSTN_A_EC_FAILED_CALLS

Failed DSP service requests for connections to PSTN or A interface with echo canceller resource.

Data Source

MGW

Source Field

M614C29

Source Section

DSP Services

PSTN_A_EC_OFF_ALLOC_CAPACITY

Percentage of allocated capacity of DSP services used for connections to PSTN or A interface without echo canceller resource.

Data Source

MGW

Source Field

M614C5

Source Section

DSP Services

PSTN_A_EC_OFF_CURRENT_CALLS

Current number of DSP services used for connections to PSTN or A interface without echo canceller resource. This is an instantaneous value taken from the end of the measurement period.

Data Source

MGW

Source Field

M614C6

Source Section

DSP Services

PSTN_A_EC_OFF_FAILED_CALLS

Failed DSP service requests for connections to PSTN or A interface without echo canceller resource.

Data Source

MGW

Source Field

M614C9

Source Section

DSP Services

PSTN_A_EC_OFF_PEAK_CALLS

Peak number of DSP services used for connections to PSTN or A interface without echo canceller resource.

Data Source

MGW

Source Field

M614C7

Source Section

DSP Services

PSTN_A_EC_OFF_TOTAL_CALLS

Total amount of successful DSP service requests for connections to PSTN or A interface without echo canceller resource.

Data Source

MGW

Source Field

M614C8

Source Section

DSP Services

PSTN_A_EC_PEAK_CALLS

Peak number of DSP services used for connections to PSTN or A interface with echo canceller resource. The value is the highest value of used services recorded during a measurement period.

Data Source

MGW

Source Field

M614C27

Source Section

DSP Services

PSTN_A_EC_TOTAL_CALLS

Total amount of successful DSP service requests for connections to PSTN or A interface with echo canceller resource.

Data Source

MGW

Source Field

M614C28

Source Section

DSP Services

PSTN_EC_TDM_ALLOC_CAPACITY

Retired in RP12.1: Average allocated capacity of DSP services used for connections with echo canceller to TDM-based networks (PSTN / ISDN / PLMN).

Data Source

MGW

Source Field

M614C90

Source Section

DSP Services

PSTN_EC_TDM_CURRENT_CALLS

Retired in RP12.1: Current number of DSP services used for connections with echo canceller to TDM-based networks (PSTN / ISDN / PLMN).

Data Source

MGW

Source Field

M614C91

Source Section

DSP Services

PSTN_EC_TDM_FAILED_CALLS

Retired in RP12.1: Number of failed DSP service requests for connections with echo canceller to TDM-based networks (PSTN / ISDN / PLMN).

Data Source

MGW

Source Field

M614C94

Source Section

DSP Services

PSTN_EC_TDM_PEAK_CALLS

Retired in RP12.1: Peak number of DSP services used for connections with echo canceller to TDMbased networks (PSTN / ISDN / PLMN).

Data Source

MGW

Source Field

M614C92

Source Section

DSP Services

PSTN_EC_TDM_TOTAL_CALLS

Retired in RP12.1: Total amount of successful DSP service requests for connections with echo canceller to TDM-based networks (PSTN / ISDN / PLMN).

Data Source

MGW

Source Field

M614C93

Source Section

DSP Services

PSTN_TDM_ALLOC_CAPACITY

Retired in RP12.1: Average allocated capacity of DSP services used for connections without echo canceller to TDM-based networks (PSTN / ISDN / PLMN).

Data Source

MGW

Source Field

M614C85

Source Section

DSP Services

PSTN_TDM_CURRENT_CALLS

Retired in RP12.1: Current number of DSP services used for connections without echo canceller to TDM-based networks (PSTN / ISDN / PLMN).

Data Source

MGW

Source Field

M614C86

Source Section

DSP Services

PSTN_TDM_FAILED_CALLS

Retired in RP12.1: Number of failed DSP service requests for connections without echo canceller to TDMbased networks (PSTN / ISDN / PLMN).

Data Source

MGW

Source Field

M614C89

Source Section

DSP Services

PSTN_TDM_PEAK_CALLS

Retired in RP12.1: Peak number of DSP services used for connections without echo canceller to TDMbased networks (PSTN / ISDN / PLMN).

Data Source

MGW

Source Field

M614C87

Source Section

DSP Services

PSTN_TDM_TOTAL_CALLS

Retired in RP12.1: Total amount of successful DSP service requests for connections without echo canceller to TDM-based networks (PSTN / ISDN / PLMN).

Data Source

MGW

Source Field

M614C88

Source Section

DSP Services

QUEUEING_INDICATION

Retired in RP12.1: Number of queuing indication messages sent from the A interface to the MSC. The assignment is indicated to be queued. This counter is RAB ID specific .

Data Source

MGW

Source Field

M641C32

Source Section

MGW Messages

R_IF_F_REV_TO_OLD

Retired in RP12.1: Number of incoming radio interface functionality revision too old cause codes in the Class (000) Normal Event subcategory.

Data Source

MGW

Source Field

M641C62

Source Section

Radio interface revision too old

RADIO_IF_FAIL

Retired in RP12.1: Number of incoming radio interface failure cause codes in the Class(000) Normal Event subcategory used at the A interface.

Data Source

MGW

Source Field

M641C53

Source Section

Radio interface failure

RADIO_IF_MESS_FAIL

Retired in RP12.1: Number of incoming radio interface message failure cause codes in the Class (000) Normal Event subcategory used at the A interface.

Data Source

MGW

Source Field

M641C52

Source Section

Radio interface message failure

RELEASE

Retired in RP12.1: Number of release messages. This is the number of binding ID releases performed successfully.

Data Source

MGW

Source Field

M642C4

Source Section

Release messages

RELEASE_FAILURE

Retired in RP12.1: Number of release failure messages. This is the number of binding ID releases performed unsuccessfully.

Data Source

MGW

Source Field

M642C5

Source Section

Release messages

REQ_SP_VER_UNAVAIL

Retired in RP12.1: Number of incoming requested speech version unavailable cause codes in the Class (011) Service or Option not Available subcategory used at the A interface.

Data Source

MGW

Source Field

M641C80

Source Section

Reqs speech version unavailable

REQ_TERR_RES_UNAVA

Retired in RP12.1: Number of incoming requested terrestrial resource unavailable cause codes in the Class (010) Resource Unavailable subcategory used at the A interface.

Data Source

MGW

Source Field

M641C69

Source Section

Terrestrial resource unavailable

RESET_ACK_IN

Retired in RP12.1: Number of reset acknowledgement messages received from the MSC at the A interface. The subsystem is told to be functional again.

Data Source

MGW

Source Field

M641C20

Source Section

MGW Messages

RESET_ACK_OUT

Retired in RP12.1: Number of reset acknowledgement messages sent from the A-interface to the MSC. The subsystem is told to be functional again.

Data Source

MGW

Source Field

M641C22

Source Section

MGW Messages

RESET_CIRCUIT_ACK_IN

Retired in RP12.1: Number of reset circuit acknowledgement messages received from the MSC at the A interface. The circuit was reset successfully.

Data Source

MGW

Source Field

M641C34

Source Section

MGW Messages

RESET_CIRCUIT_ACK_OUT

Retired in RP12.1: Number of reset circuit acknowledgement messages sent from the A interface to the MSC. The resource was reset successfully.

Data Source

MGW

Source Field

M641C36

Source Section

MGW Messages

RESET_CIRCUIT_IN

Retired in RP12.1: Number of reset circuit messages received from the MSC at the A interface. A circuit is requested to be reset.

Data Source

MGW

Source Field

M641C33

Source Section

MGW Messages

RESET_CIRCUIT_OUT

Retired in RP12.1: Number of reset circuit messages sent from the A interface to the MSC. The resource was reset successfully.

Data Source

MGW

Source Field

M641C35

Source Section

MGW Messages

RESOURCE_RESERVATION_FAILURE

Retired in RP12.1: Number of resource reservation failed internal cause codes. Resources could not be reserved by the resource manager.

Data Source

MGW

Source Field

M641C50

Source Section

Resource Reservation Failed

RESOURCE_SWAP_FAILURE

Retired in RP12.1: Number of resource swap failure in the 2nd assignment internal cause codes.
The connection resources could not be swapped between the first and second call.

Data Source

MGW

Source Field

M641C51

Source Section

Resource swap failure

RESP_TO_MSC_INVOC

Retired in RP12.1: Number of incoming response to MSC invocation cause codes in the Class
(000) Normal Event subcategory used at the A interface.

Data Source

MGW

Source Field

M641C60

Source Section

MSC invocation

SCUDIF_MOD_FAILED_IU_ATM

The number of times when SCUDIF-related codec modification in Iu-ATM interface fails for
some reason. Possible reasons are unacceptable ModifyRequest command from MGW
controller, unsuccessful modification of resources required by a new codec, or unsuccessful user
plane re-initialisation from DSP.

Data Source

MGW

Source Field

M643C114

Source Section

Codecs

SCUDIF_MOD_FAILED_IU_IP

The number of times when SCUDIF related codec modification in the Iu-IP interface fails for some reason. The possible reasons are unacceptable ModifyRequest command from the MGW controller, unsuccessful modification of resources required by a new codec, or unsuccessful user plane re-initialisation from DSP.

Data Source

MGW

Source Field

M643C127

Source Section

Codecs

SCUDIF_MOD_FAILED_NB_ATM

The number of times when SCUDIF-related codec modification in Nb-ATM interface fails for some reason. Possible reasons are unacceptable ModifyRequest command from MGW controller, unsuccessful modification of resources required by a new codec, or unsuccessful user plane re-initialisation from DSP.

Data Source

MGW

Source Field

M643C113

Source Section

Codecs

SCUDIF_MOD_FAILED_NB_IP

The number of times when SCUDIF-related codec modification in Nb-IP interface fails for some reason. Possible reasons are unacceptable ModifyRequest command from MGW controller, unsuccessful modification of resources required by a new codec, or unsuccessful user plane re-initialisation from DSP.

Data Source

MGW

Source Field

M643C112

Source Section

Codecs

SPEECH_TO_MUME_IU_ATM

The number of times when codec reservation from DSP is successful for the requested SPEECH_TO_MUME_IU_ATM codec modification.

Data Source

MGW

Source Field

M643C111

Source Section

Codecs

SPEECH_TO_MUME_IU_IP

The number of times when codec reservation from DSP is successful for the requested SPEECH_TO_MUME_IU_IP codec modification.

Data Source

MGW

Source Field

M643C126

Source Section

Codecs

SPEECH_TO_MUME_NB_ATM

The number of times when codec reservation from DSP is successful for the requested SPEECH_TO_MUME_NB_ATM codec modification.

Data Source

MGW

Source Field

M643C110

Source Section

Codecs

SPEECH_TO_MUME_NB_IP

The number of times when codec reservation from DSP is successful for the requested SPEECH_TO_MUME_NB_IP codec modification.

Data Source

MGW

Source Field

M643C109

Source Section

Codecs

SWITCH_CRCT_POOL

Retired in RP12.1: Number of incoming switch circuit pool cause codes in the Class (011) Service or Option not Available subcategory used at the A interface.

Data Source

MGW

Source Field

M641C79

Source Section

Incoming switch circuit pool

TELEPHONE_EVENT_DETECTED

The number of times when the first Telephone event using Telephone event codec over RTP is detected.

Data Source

MGW

Source Field

M643C136

Source Section

Codecs

TELEPHONE_EVENT_GENERATED

The number of times when the first Telephone event is generated using the Telephone event codec over RTP.

Data Source

MGW

Source Field

M643C137

Source Section

Codecs

TELEPHONE_EVENT_RESERVED

The number of times when the Telephone event codec is reserved successfully on the Mb and Nb(SIP-I) -interfaces.

Data Source

MGW

Source Field

M643C135

Source Section

Codecs

TERR_CHAN_ALR_ALLC

Retired in RP12.1: Number of incoming terrestrial circuit already allocated cause codes in the Class (101) Retired in RP12.1: Invalid Message subcategory used at the A interface.

Data Source

MGW

Source Field

M641C82

Source Section

Terrestrial circuit already allocated

TFO_AMR_AVERAGE

Average value for TFO_AMR_CURRENT counter.

Data Source

MGW

Source Field

M648C35

Source Section

TrFo and TFO

TFO_AMR_CURRENT

The number of current TFO established (Incremented when TFO has been established between MGW and TFO peer that are using AMR/AMR-WB codec. Decrement when TFO has been ended).

Data Source

MGW

Source Field

M648C33

Source Section

TrFo and TFO

TFO_AMR_NB

The number of times TFO has been established with the AMR NB codec.

Data Source

MGW

Source Field

M648C31

Source Section

TrFo and TFO

TFO_AMR_PEAK

Maximum value for TFO_AMR_CURRENT counter.

Data Source

MGW

Source Field

M648C34

Source Section

TrFo and TFO

TFO_AMR_WB

The number of times TFO has been established with the AMR WB codec.

Data Source

MGW

Source Field

M648C32

Source Section

TrFo and TFO

TFO_AVERAGE

Average number of ongoing TFO services for all connections.

Data Source

MGW

Source Field

M648C27

Source Section

TrFo and TFO

TFO_CURRENT

The number of times when an MSS-activated TFO has been established between terminations.

Data Source

MGW

Source Field

M648C3

Source Section

TFO Service

TFO_ENABLE

Total number of all possibilities to use TFO (Tandem Free Operation) service, received via H.248 interface according to 3GPP TS 29.232.

Data Source

MGW

Source Field

M648C0

Source Section

TFO Service

TFO_ESTABLISH_TIMEOUT

The number of times when timer (PRFILE: WAIT_TIME_FOR_TFO) waiting for TFO establishment acknowledgement expires. Timer expiration has no effect on the call.

Data Source

MGW

Source Field

M648C8

Source Section

TrFo and TFO

TFO_FAIL

Total amount of failed usage of TFO service for all connections.

Data Source

MGW

Source Field

M648C2

Source Section

TFO Service

TFO_FAIL_PASSIVE_NEGOTIATION

The number of times when TFO cannot be established because of a TFO codec mismatch in the negotiation in which MGW has participated. No TFO service request from MSS.

Data Source

MGW

Source Field

M648C10

Source Section

TrFo and TFO

TFO_GSM_EFR

The number of times when TFO has been established with the GSM EFR codec.

Data Source

MGW

Source Field

M648C12

Source Section

TrFo and TFO

TFO_GSM_FR

The number of times when TFO has been established with the GSM FR codec.

Data Source

MGW

Source Field

M648C13

Source Section

TrFo and TFO

TFO_GSM_HR

The number of times TFO established with GSM HR codec.

Data Source

MGW

Source Field

M648C26

Source Section

TrFo and TFO

TFO_INTERRUPTED

The number of times when DSP indicates that TFO framing is no more received for an established TFO connection, for example, announcement during the call.

Data Source

MGW

Source Field

M648C11

Source Section

TrFo and TFO

TFO_PEAK

Maximum value for TFO_CURRENT counter when TFO has been established between terminations.

Data Source

MGW

Source Field

M648C4

Source Section

TFO Service

TFO_USE

Total amount of successful usage of TFO service for all connections.

Data Source

MGW

Source Field

M648C1

Source Section

TFO Service

TFO_USE_PASSIVE_NEGOTIATION

The number of times when TFO has been established after MGW has participated in TFO negotiation. No TFO service request is required from MSS.

Data Source

MGW

Source Field

M648C9

Source Section

TrFo and TFO

TONE_GEN_ALLOC_CAPACITY

Retired in RP12.1: Percentage of allocated capacity of in-band tone generation service.

Data Source

MGW

Source Field

M614C30

Source Section

DSP Services

TONE_GEN_CURRENT_CALLS

Retired in RP12.1: Current number of DSP services used for in-band tone generation. This is an instantaneous value taken from the end of the measurement period.

Data Source

MGW

Source Field

M614C31

Source Section

DSP Services

TONE_GEN_FAILED_CALLS

Retired in RP12.1: Failed DSP service requests for in-band tone generation service.

Data Source

MGW

Source Field

M614C34

Source Section

DSP Services

TONE_GEN_PEAK_CALLS

Retired in RP12.1: Peak number of DSP services used for in-band tone generation service. The value is the highest value of used services recorded during a measurement period.

Data Source

MGW

Source Field

M614C32

Source Section

DSP Services

TONE_GEN_TOTAL_CALLS

Retired in RP12.1: Total amount of successful DSP service requests for in-band tone generation service.

Data Source

MGW

Source Field

M614C33

Source Section

DSP Services

TR_COD_RAT_AD_UNAV

Retired in RP12.1: Number of incoming requested transcoding/rate adaptation unavailable cause codes in the Class (011) Service or Option not Available subcategory used at the A interface.

Data Source

MGW

Source Field

M641C77

Source Section

Reqs transcoding unavailable

TRAFFIC

Retired in RP12.1: Number of incoming traffic cause codes in the Class (000) Normal Event subcategory used at the A interface.

Data Source

MGW

Source Field

M641C66

Source Section

Incoming traffic

TRAFFIC_LOAD

Retired in RP12.1: Number of incoming traffic load cause codes in the Class (010) Resource Unavailable subcategory used at the A interface.

Data Source

MGW

Source Field

M641C75

Source Section

Traffic load

TRANSCODER_ATER

The number of times when the reservation of transcoding resources in the Ater interface is successful.

Data Source

MGW

Source Field

M643C78

Source Section

Codecs

TRANSCODER_ATER_WB

The number of times when reserving AMR-WB transcoding resources for the Ater termination.

Data Source

MGW

Source Field

M643C131

Source Section

Codecs

TRANSCODER_CAT1

The number of times when reserving or modifying transcoding resources from transcoder category 1 is successful.

Data Source

MGW

Source Field

M643C40

Source Section

Codecs

TRANSCODER_CAT1_ERROR

The number of times when reserving or modifying transcoding resources from transcoder category 1 is unsuccessful.

Data Source

MGW

Source Field

M643C42

Source Section

Codecs

TRANSCODER_CAT2

The number of times when reserving or modifying transcoding resources from transcoder category 2 is successful.

Data Source

MGW

Source Field

M643C41

Source Section

Codecs

TRANSCODER_CAT2_ERROR

The number of times when reserving or modifying transcoding resources from transcoder category 2 is unsuccessful.

Data Source

MGW

Source Field

M643C43

Source Section

Codecs

TRANSCODER_CAT3

The number of times when reserving or modifying transcoding resources from transcoder category 3 is successful.

Data Source

MGW

Source Field

M643C65

Source Section

Codecs

TRANSCODER_CAT3_ERROR

The number of times when reserving or modifying transcoding resources from transcoder category 3 fails.

Data Source

MGW

Source Field

M643C66

Source Section

Codecs

TRANSCODING_AVERAGE

Average number of ongoing audio and speech connections(between two terminations) where transcoding is being used in one physical MGW.

Data Source

MGW

Source Field

M648C29

Source Section

TrFo and TFO

TRANSCODING_CODEC_MOD

The number of times when transcoding connection has been established after a codec modification request from MSS.

Data Source

MGW

Source Field

M648C21

Source Section

TrFo and TFO

TRANSCODING_CURRENT

The number of times when Iu/Nb/Mb/Ater UPs in both terminations have been established, and both-way topology connected, and transcoding service(s) have been reserved at least for one termination. Decrement after transcoding connection is released.

Data Source

MGW

Source Field

M648C15

Source Section

TrFo and TFO

TRANSCODING_DSP_OPT

The number of times when transcoding connection has been established after DSP optimisation by BC2PRB.

Data Source

MGW

Source Field

M648C24

Source Section

TrFo and TFO

TRANSCODING_PEAK

Maximum value of TRANSCODING_CURRENT counter when transcoding connection between two termination has been established.

Data Source

MGW

Source Field

M648C16

Source Section

TrFo and TFO

TRANSCODING_USE

The number of times when Iu/Nb/Mb/Ater UPs in both terminations have been established, and both-way topology connected, and transcoding service(s) have been reserved at least for one termination.

Data Source

MGW

Source Field

M648C14

Source Section

TrFo and TFO

TRFO_AVERAGE

Average number of ongoing TrFO operations for all audio and speech connections between two subscriber terminations.

Data Source

MGW

Source Field

M648C28

Source Section

TrFo and TFO

TRFO_CODEC_MOD

The number of times when TrFO connection has been established after a codec modification request from MSS.

Data Source

MGW

Source Field

M648C20

Source Section

TrFo and TFO

TRFO_CURRENT

The number of times when Iu/Nb/Mb UPs established and both-way topology has been connected between terminations which both have TrFO service reserved. Decrementated when the both-way connection has been released.

Data Source

MGW

Source Field

M648C6

Source Section

TrFO Service

TRFO_DSP_OPT

The number of times when TrFO connection has been established after DSP optimisation by BC2PRB.

Data Source

MGW

Source Field

M648C23

Source Section

TrFo and TFO

TRFO_PEAK

Maximum value for TRFO_CURRENT counter.

Data Source

MGW

Source Field

M648C7

Source Section

TrFO Service

TRFO_USE

The number of times when Iu/Nb/Mb UPs in both terminations have been established and both-way topology connected and there are TrFO services reserved for these two terminations.

Data Source

MGW

Source Field

M648C5

Source Section

TrFO Service

UCIC_IN

Retired in RP12.1: Number of unequipped circuit messages received from the MSC at the A interface. Normally this is an indication of a configuration error.

Data Source

MGW

Source Field

M641C39

Source Section

MGW Messages

UCIC_OUT

Retired in RP12.1: Number of unequipped circuit messages sent from the A interface to the MSC. Normally this is an indication of a configuration error.

Data Source

MGW

Source Field

M641C40

Source Section

MGW Messages

UE_TO_UE_T_DATA_CALL_AVERAGE

Average number of active UE/UE data calls at the time the report is generated.

Data Source

MGW

Source Field

M649C18

Source Section

Data Calls

UE_TO_UE_T_DATA_CALL_CURRENT

The number of times when resource reservation for an UE/UE data call is successful and decremented when an UE/UE data call is released.

Data Source

MGW

Source Field

M649C10

Source Section

Data Calls

UE_TO_UE_T_DATA_CALL_ERROR

The number of times when resource reservation for an UE/UE data call that does not use IWF services in MGW fails for some reason.

Data Source

MGW

Source Field

M649C9

Source Section

Data Calls

UE_TO_UE_T_DATA_CALL_PEAK

Maximum value for UE_TO_UE_T_DATA_CALL_CURRENT counter.

Data Source

MGW

Source Field

M649C11

Source Section

Data Calls

UE_TO_UE_T_DATA_CALL_USE

The number of times when UE/UE data call that does not use IWF services in MGW is connect successfully.

Data Source

MGW

Source Field

M649C8

Source Section

Data Calls

UNBLOCK

Retired in RP12.1: Number of unblock messages sent from the A interface to the MSC.

Data Source

MGW

Source Field

M641C8

Source Section

MGW Messages

UNBLOCK_ACK

Retired in RP12.1: Number of unblock acknowledgement messages sent from the MSC to the A interface.

Data Source

MGW

Source Field

M641C9

Source Section

MGW Messages

UNKNWN_INFO_ELEM

Retired in RP12.1: Number of incoming unknown information element cause codes in the Class (101) Retired in RP12.1: Invalid Message subcategory used at the A interface.

Data Source

MGW

Source Field

M641C87

Source Section

Unknown information element

UNKWN_MSG_TYPE

Retired in RP12.1: Number of incoming unknown message type cause codes in the Class(101)
Retired in RP12.1: Invalid Message subcategory used at the A interface.

Data Source

MGW

Source Field

M641C86

Source Section

Unknown message type

UP_RE_INIT_FAILED_IU_ATM

The number of times when user plane re-initialisation from DSP is unsuccessful in Iu-ATM interface.

Data Source

MGW

Source Field

M643C103

Source Section

Codecs

UP_RE_INIT_FAILED_IU_IP

The number of times when user plane re-initialisation from DSP fails in the Iu-IP interface.

Data Source

MGW

Source Field

M643C124

Source Section

Codecs

UP_RE_INIT_FAILED_NB_ATM

The number of times when user plane re-initialisation from DSP is unsuccessful in Nb-ATM interface.

Data Source

MGW

Source Field

M643C102

Source Section

Codecs

UP_RE_INIT_FAILED_NB_IP

The number of times when user plane re-initialisation fails for asked codec modification at the Nb-IP interface..

Data Source

MGW

Source Field

M643C39

Source Section

Codecs

UPLINK_QUALITY

Retired in RP12.1: Number of incoming uplink quality cause codes in the Class (000)Normal Event subcategory used at the A interface.

Data Source

MGW

Source Field

M641C54

Source Section

Uplink quality

UPLINK_STRENGTH

Retired in RP12.1: Number of incoming uplink strength cause codes in the Class (000) Normal Event subcategory used at the A interface.

Data Source

MGW

Source Field

M641C55

Source Section

Uplink strength

MGW_RNC Primitive Calculations

The following is a list of primitive calculations for the MGW_RNC entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

MGW_RNC Peg Counts

The following is a list of peg counts for the MGW_RNC entity.

ABSTRACT_SYNTAX_ERROR_F_C_MSG

Retired in RP12.1: Abstract syntax error (falsely constructed message) incoming cause codes in the Protocol sub category used at the Iu interface. The received message contained IEs or IE groups in the wrong order or with too many occurrences.

Data Source

MGW

Source Field

M640C96

Source Section

Abstract syntax error

ABSTRACT_SYNTAX_ERROR_IGNORE

Retired in RP12.1: Abstract syntax error (ignore and notify) incoming cause codes in the Protocol sub category used at the Iu interface. The received message included an abstract syntax error and the concerning criticality indicated "ignore and notify".

Data Source

MGW

Source Field

M640C95

Source Section

Abstract syntax error

ABSTRACT_SYNTAX_ERROR_REJECT

Retired in RP12.1: Abstract syntax error (reject) incoming cause codes in the Protocol sub category used at the Iu interface. The received message included an abstract syntax error and the concerning criticality indicated reject.

Data Source

MGW

Source Field

M640C94

Source Section

Abstract syntax error

CHANGE_C_I_PROT_NOT_SUPPORTED

Retired in RP12.1: Change of ciphering/integrity protection not supported incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The UTRAN and/or the UE is unable to support the requested change of ciphering and/or integrity protection algorithms.

Data Source

MGW

Source Field

M640C56

Source Section

Ciphering/Integrity protection

CN_DEACTIVATE_TRACE

Retired in RP12.1: CN deactivated trace messages sent from the Iu interface to the RNC. The
Retired in RP12.1: CN requests the RNC to stop the trace for the connection.

Data Source

MGW

Source Field

M640C39

Source Section

CN Trace Messages

CN_INVOKE_TRACE

Retired in RP12.1: CN invoke trace messages sent from the Iu interface to the RNC. The
Retired in RP12.1: CN requests the RNC to start a trace for a connection.

Data Source

MGW

Source Field

M640C38

Source Section

CN Trace Messages

COMMON_ID_RANAP

Retired in RP12.1: International Mobile Subscriber Identification (IMSI) messages sent from the Iu interface to the RNC. The message is used to provide information about the circuit switched connection for a possible packet switched connection of the subscriber.

Data Source

MGW

Source Field

M640C7

Source Section

IMSI Messages

CONDIT_VIOL_TRAFF_HNDL_PRI

Retired in RP12.1: Condition violation for traffic handling priority incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The action was not performed due to a condition violation for traffic handling priority.

Data Source

MGW

Source Field

M640C68

Source Section

Condition violation for traffic handling

CONDIT_VIOLATION_GRTD_BIT_RATE

Retired in RP12.1: Condition violation for guaranteed bit rate incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The action was not performed due to a condition violation for guaranteed bit rate.

Data Source

MGW

Source Field

M640C69

Source Section

Condition violation for guaranteed bit rate

CONDIT_VIOLATION_SDU_PARAM

Retired in RP12.1: Condition violation for SDU (Service Data Unit) parameters incoming cause codes in the Radio NetworkLayer sub category used at the Iuinterface. The action was not performed due to a conditionviolation for SDU parameters.

Data Source

MGW

Source Field

M640C67

Source Section

Condition violation for SDU parameters

DIRECT_TRANSFER_IN

Retired in RP12.1: Direct transfer messages received from the RNC at the Iu interface. Mobility Management (MM) / Configuration Management (CM) messages are transferred from the User Equipment (UE).

Data Source

MGW

Source Field

M640C8

Source Section

Direct Transfer Messages

DIRECT_TRANSFER_OUT

Retired in RP12.1: Direct transfer messages sent from the Iu interface to the RNC. MM/CM messages are transferred to the UE.

Data Source

MGW

Source Field

M640C9

Source Section

Direct Transfer Messages

DIRECTED_RETRY_RANAP

Retired in RP12.1: Directed retry incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The reason for action is Retired in RP12.1: Directed Retry.

Data Source

MGW

Source Field

M640C84

Source Section

Directed retry

ERROR_INDICATION_IN

Retired in RP12.1: Error indication messages received from the RNC at the Iu interface. A message from the Retired in RP12.1: CN was not accepted or understood by the RNC.

Data Source

MGW

Source Field

M640C42

Source Section

Error indication messages

ERROR_INDICATION_OUT

Retired in RP12.1: Error indication messages sent from the Iu interface to the RNC. A message from the RNC was not accepted or understood by the Multimedia Gateway Rel.99.

Data Source

MGW

Source Field

M640C43

Source Section

Error indication messages

FAILURE_RADIO_IFACE_PROCEDURE

Retired in RP12.1: Failure in radio interface procedure incoming cause codes in the Radio Network Layer sub category used at the Iu interface. Radio interface procedure has failed.

Data Source

MGW

Source Field

M640C57

Source Section

Failure in radio interface procedure

INITIAL_UE_MESSAGE

Retired in RP12.1: Initial UE messages received from the RNC at the Iu interface. A connection setup is started between the UE and the Core Network (Retired in RP12.1: CN).

Data Source

MGW

Source Field

M640C10

Source Section

UE messages

INTEGRATION_OTHER_PROCEDURE

Retired in RP12.1: Integration with other procedures incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The relocation was cancelled due to an interaction with another procedure.

Data Source

MGW

Source Field

M640C75

Source Section

Integration with other procedures

INVALID_RAB_ID

Retired in RP12.1: Invalid Radio Access Bearer (RAB) id incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The action failed because the RAB ID is unknown in the RNC.

Data Source

MGW

Source Field

M640C73

Source Section

Invalid RAB ID

INVALID_RAB_PARAMET_COMB

Retired in RP12.1: Invalid Radio Access Bearer (RAB) parameter combination incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The action failed due to invalid RAB parameter combination.

Data Source

MGW

Source Field

M640C66

Source Section

Invalid RAB parameter combination

INVALID_RAB_PARAMETERS_VALUE

Retired in RP12.1: Invalid Radio Access Bearer (RAB) parameters value incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The action failed due to invalid RAB parameters value.

Data Source

MGW

Source Field

M640C62

Source Section

Invalid RAB

IU_RELEASE_COMMAND

Retired in RP12.1: Iu release commands sent from the Iu interface to the RNC.

Data Source

MGW

Source Field

M640C16

Source Section

Iu release messages

IU_RELEASE_COMPLETE

Retired in RP12.1: Iu release complete messages received from the RNC at the Iu interface.

Data Source

MGW

Source Field

M640C17

Source Section

Iu release messages

IU_RELEASE_REQUEST

Retired in RP12.1: Iu release requests received from the RNC at the Iu interface.

Data Source

MGW

Source Field

M640C15

Source Section

Iu release messages

IU_TRANSPORT_CONN_ESTAB_FAILED

Retired in RP12.1: Iu transport connection failed to establish incoming cause codes in the Transport Layer sub category used at the Iu interface. The action failed because the Iu Transport Network Layer connection could not be established.

Data Source

MGW

Source Field

M640C87

Source Section

Iu transport connection failed

IU_USER_PLANE_FAILURE

Retired in RP12.1: Iu user plane (UP) failure incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The action failed due to Iu UP failure.

Data Source

MGW

Source Field

M640C71

Source Section

Iu user plane (UP) failure

LOCATION_REPORT

Retired in RP12.1: CN location report messages received from the RNC at the Iu interface. The RNC informs the Retired in RP12.1: CN about the location of the UE.

Data Source

MGW

Source Field

M640C41

Source Section

CN location reporting

LOCATION_REPORTING_CONTROL

Retired in RP12.1: CN location reporting control requests sent from the Iu interface to the RNC.
Retired in RP12.1: CN requests a location report for the UE.

Data Source

MGW

Source Field

M640C40

Source Section

CN location reporting

MGW_RNC_Release

RNC Release

Data Source

MGW

Source Field

RELEASE

Source Section

Configuration

MSG_NOT_COMPAT_W_RECV_STATE

Retired in RP12.1: Message not compatible with receiver state incoming cause codes in the Protocol sub category used at the Iu interface. The received message was not compatible with the receiver state.

Data Source

MGW

Source Field

M640C93

Source Section

Msg incompatible with receiver state

NETWORK_OPTIMIZATION

Retired in RP12.1: Network optimization incoming cause codes in the Miscellaneous sub category used at the Iu interface. The action is performed for network optimisation.

Data Source

MGW

Source Field

M640C100

Source Section

Network optimization

NO_REMAIN_RAB

Retired in RP12.1: No remaining Radio Access Bearer (RAB) incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The reason for the action is no remaining RAB.

Data Source

MGW

Source Field

M640C74

Source Section

No remaining RAB

NO_RESOURCE_AVAILABLE

Retired in RP12.1: No resource available incoming cause codes in the Miscellaneous sub category used at the Iu interface. No requested resource is available.

Data Source

MGW

Source Field

M640C98

Source Section

No resource available

NORMAL_RELEASE

Retired in RP12.1: Normal release incoming cause codes in the Non Access Stratum (NAS) sub category used at the Iu interface. The release is normal.

Data Source

MGW

Source Field

M640C90

Source Section

Normal release

OM_INTERVENTION

Retired in RP12.1: O&M intervention incoming cause codes in the Miscellaneous sub category used at the Iu interface. The action is due to O&M intervention.

Data Source

MGW

Source Field

M640C97

Source Section

O&M intervention

OVERLOAD_IN_RANAP

Retired in RP12.1: Overload messages received from the RNC at the Iu interface. The RNC informs about an overload situation.

Data Source

MGW

Source Field

M640C36

Source Section

Overload Messages

OVERLOAD_OUT_RANAP

Retired in RP12.1: Overload messages sent from the Iu interface to the RNC. The Retired in RP12.1: CN informs about an overload situation.

Data Source

MGW

Source Field

M640C37

Source Section

Overload Messages

PAGING_RANAP

Retired in RP12.1: Paging messages sent from the Iu interface to the RNC. The UE is paged.

Data Source

MGW

Source Field

M640C14

Source Section

Paging messages

PERLENSEC

Period Length

Data Source

MGW

Source Field

PERLENSEC

Source Section

Period Length

RAB_ASSIGNMENT_RELEASE

Retired in RP12.1: Radio Access Bearer (RAB) assignment release requests sent from the Iu interface to the RNC.

Data Source

MGW

Source Field

M640C1

Source Section

RAB Messages

RAB_ASSIGNMENT_RSP_QUEUE

Retired in RP12.1: Radio Access Bearer (RAB) assignment queued responses received from the RNC at the Iu interface. The RAB setup is queued because of the resource situation at the radio interface.

Data Source

MGW

Source Field

M640C4

Source Section

RAB Messages

RAB_ASSIGNMENT_RSP_REL_FAIL

Retired in RP12.1: Radio Access Bearer (RAB) assignment release failure responses received from the RNC at the Iu interface. The RAB was not released.

Data Source

MGW

Source Field

M640C6

Source Section

RAB Messages

RAB_ASSIGNMENT_RSP_RELEASE

Retired in RP12.1: Radio Access Bearer (RAB) assignment release responses received from the RNC at the Iu interface.

Data Source

MGW

Source Field

M640C3

Source Section

RAB Messages

RAB_ASSIGNMENT_RSP_SETUP

Retired in RP12.1: Radio Access Bearer (RAB) assignment setup responses received from the RNC at the Iu interface.

Data Source

MGW

Source Field

M640C2

Source Section

RAB Messages

RAB_ASSIGNMENT_RSP_SETUP_FAIL

Retired in RP12.1: Radio Access Bearer (RAB) assignment failure responses received from the RNC at the Iu interface. The RAB could not be setup.

Data Source

MGW

Source Field

M640C5

Source Section

RAB Messages

RAB_ASSIGNMENT_SETUP

Retired in RP12.1: Radio Access Bearer (RAB) assignment setup requests sent from the Iu interface to the RNC.

Data Source

MGW

Source Field

M640C0

Source Section

RAB Messages

RAB_PRE_EMPTED

Retired in RP12.1: Radio Access Bearer (RAB) pre-empted incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The reason for the action is that RAB is pre-empted.

Data Source

MGW

Source Field

M640C44

Source Section

RAB

RADIO_CONNECTION_WITH_UE_LOST

Retired in RP12.1: Radio connection with UE lost incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The action is requested due to losing radio connection to the UE.

Data Source

MGW

Source Field

M640C85

Source Section

Radio connection with UE lost

RANAP_RESET_ACK_IN

Retired in RP12.1: Reset acknowledgement messages received from the RNC at the Iu interface. The subsystem is told to be functional again.

Data Source

MGW

Source Field

M640C34

Source Section

Reset Messages

RANAP_RESET_ACK_OUT

Retired in RP12.1: Reset acknowledgement messages sent from the Iu interface to the RNC. The subsystem is told to be functional again.

Data Source

MGW

Source Field

M640C35

Source Section

Reset Messages

RANAP_RESET_IN

Retired in RP12.1: Reset messages received from the RNC at the Iu interface. The subsystem is requested to be reset.

Data Source

MGW

Source Field

M640C32

Source Section

Reset Messages

RANAP_RESET_OUT

Retired in RP12.1: Reset messages sent from the Iu interface to the RNC. The subsystem is requested to be reset.

Data Source

MGW

Source Field

M640C33

Source Section

Reset Messages

RELOC_DESIRABLE_RADIO_REASONS

Retired in RP12.1: Relocation desirable for radio reasons incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The reason for requesting relocation is radio related.

Data Source

MGW

Source Field

M640C82

Source Section

Relocation desirable for radio reasons

RELOC_FAIL_TARGET_CN

Retired in RP12.1: Reloc fail in target CN/RNC or target system incoming cause codes in the Radio Network Layer sub category used at the Iu interface. Relocation failed due to a failure in the target CN/RNC or the target system.

Data Source

MGW

Source Field

M640C72

Source Section

Reloc fail in target CN/RNC

RELOC_N_SUPP_IN_TARGET_RNC

Retired in RP12.1: Relocation not supported in target RNC or target system incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The relocation failed because relocation was not supported in the target RNC or the target system.

Data Source

MGW

Source Field

M640C83

Source Section

Relocation not supported in target RNC

RELOCATION_CANCEL

Retired in RP12.1: Relocation cancel messages received from the RNC at the Iu interface. The relocation was cancelled by the source RNC.

Data Source

MGW

Source Field

M640C29

Source Section

Relocation Messages

RELOCATION_CANCEL_ACK

Retired in RP12.1: Relocation cancel acknowledgement messages sent from the Iu interface to the RNC. Retired in RP12.1: Relocation cancellation was acknowledged by the Retired in RP12.1: CN.

Data Source

MGW

Source Field

M640C30

Source Section

Relocation Messages

RELOCATION_CANCELLED

Retired in RP12.1: Relocation cancelled incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The reason for the action is relocation cancellation.

Data Source

MGW

Source Field

M640C53

Source Section

Relocation

RELOCATION_COMMAND

Retired in RP12.1: Relocation commands sent from the Iu interface to the RNC. The relocation is told to be executed at the source RNC.

Data Source

MGW

Source Field

M640C25

Source Section

Relocation Messages

RELOCATION_COMPLETE

Retired in RP12.1: Relocation complete messages received from the RNC at the Iu interface.
The relocation was completed at the target system.

Data Source

MGW

Source Field

M640C27

Source Section

Relocation Messages

RELOCATION_DETECT

Retired in RP12.1: Relocation detect messages received from the RNC at the Iu interface. The
relocation was detected at the target system.

Data Source

MGW

Source Field

M640C26

Source Section

Relocation Messages

RELOCATION_FAILURE

Retired in RP12.1: Relocation failure messages received from the RNC at the Iu interface.
Resources for the relocation were allocated unsuccessfully.

Data Source

MGW

Source Field

M640C28

Source Section

Relocation Messages

RELOCATION_PREPARATION_FAIL

Retired in RP12.1: Relocation preparation failure messages sent from the Iu interface to the RNC. The source RNC is informed that the relocation preparation has failed at the target system.

Data Source

MGW

Source Field

M640C31

Source Section

Relocation Messages

RELOCATION_REQUEST

Retired in RP12.1: Relocation requests sent from the Iu interface to the RNC. Area location is requested by the Retired in RP12.1: CN.

Data Source

MGW

Source Field

M640C23

Source Section

Relocation Messages

RELOCATION_REQUEST_ACK

Retired in RP12.1: Relocation request acknowledgement messages received from the RNC at the Iu interface. Resources for the relocation were allocated successfully.

Data Source

MGW

Source Field

M640C24

Source Section

Relocation Messages

RELOCATION_REQUIRED

Retired in RP12.1: Relocation required messages received from the RNC at the Iu interface. A relocation is required by the RNC.

Data Source

MGW

Source Field

M640C22

Source Section

Relocation Messages

RELOCATION_TRIGGERED

Retired in RP12.1: Relocation triggered incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The action failed due to relocation.

Data Source

MGW

Source Field

M640C49

Source Section

Relocation Trigger

REPEATED_INTEGRITY_CHK_FAIL

Retired in RP12.1: Repeated integrity checking failure incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The action is requested due to a repeated failure in integrity checking.

Data Source

MGW

Source Field

M640C76

Source Section

Repeated integrity checking failure

REQ_C_I_ALGORITHM_NOT_SUP

Retired in RP12.1: Requested ciphering/integrity protection algorithm not supported incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The UTRAN or the UE is unable to support the requested ciphering and/or integrity protection algorithms.

Data Source

MGW

Source Field

M640C55

Source Section

Ciphering/Integrity protection

REQ_GRTD_BIT_RATE_NOT_AVAIL

Retired in RP12.1: Requested guaranteed bit rate not available incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The action failed because the requested guaranteed bit rate is not available.

Data Source

MGW

Source Field

M640C64

Source Section

Req guaranteed bit rate N/A

REQ_MAX_BIT_RATE_NOT_AVAILABLE

Retired in RP12.1: Requested maximum bit rate not available incoming cause codes in the Radio Network Layer subcategory used at the Iu interface. The action failed because the requested maximum bit rate is not available.

Data Source

MGW

Source Field

M640C63

Source Section

Req max bit rate N/A

REQ_REPORT_TYPE_NOT_SUPPORTED

Retired in RP12.1: Requested report type not supported incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The RNC is not supporting the requested location report type.

Data Source

MGW

Source Field

M640C77

Source Section

Req report type not supported

REQ_TRAFFIC_CLASS_NOT_AVAIL

Retired in RP12.1: Requested traffic class not available incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The action failed because the requested traffic class is not available.

Data Source

MGW

Source Field

M640C61

Source Section

Req traffic class not available

REQ_TRAN_DELAY_NOT_ACHIEVAB

Retired in RP12.1: Requested transfer delay not achievable incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The action failed, because the requested transfer delay is not achievable.

Data Source

MGW

Source Field

M640C65

Source Section

Req transfer delay N/A

REQUEST_SUPERSEDED

Retired in RP12.1: Request superseded incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The action failed because there was a second request on the same Retired in RP12.1: Radio Access Bearer (RAB).

Data Source

MGW

Source Field

M640C78

Source Section

Request superseded

REQUESTED_INFORMATION_NA

Retired in RP12.1: Requested information not available incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The action failed because the requested information is not available.

Data Source

MGW

Source Field

M640C81

Source Section

Reqs information not available

RESET_RESOURCE_ACK_IN

Retired in RP12.1: Reset resource acknowledgement messages received from the RNC at the Iu interface.

Data Source

MGW

Source Field

M640C20

Source Section

Reset resource messages

RESET_RESOURCE_ACK_OUT

Retired in RP12.1: Reset resource acknowledgement messages sent from the Iu interface to the RNC.

Data Source

MGW

Source Field

M640C21

Source Section

Reset resource messages

RESET_RESOURCE_IN

Retired in RP12.1: Reset resource messages received from the RNC at the Iu interface.

Data Source

MGW

Source Field

M640C18

Source Section

Reset resource messages

RESET_RESOURCE_OUT

Retired in RP12.1: Reset resource messages sent from the Iu interface to the RNC.

Data Source

MGW

Source Field

M640C19

Source Section

Reset resource messages

RESOURCE_OPTIMISATION_RE

Retired in RP12.1: Resource optimisation relocation incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The reason for requesting relocation is resource optimisation.

Data Source

MGW

Source Field

M640C80

Source Section

Resource optimisation relocation

RLS_DUE_UE_GEN_SIG_CONN_RLS

Retired in RP12.1: Release due to UE generated signalling connection release incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The release was requested due to a UE generated signalling connection release.

Data Source

MGW

Source Field

M640C79

Source Section

Release due to UE connection release

RLS_DUE_UTRAN_GENERATED_REASON

Retired in RP12.1: Release due to UTRAN generated reason incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The release is initiated due to UTRAN generated reason.

Data Source

MGW

Source Field

M640C58

Source Section

Release due to UTRAN

SECURITY_MODE_COMMAND

Retired in RP12.1: Security mode commands sent from the Iu interface to the RNC. A security procedure is started.

Data Source

MGW

Source Field

M640C11

Source Section

Security mode messages

SECURITY_MODE_COMPLETE

Retired in RP12.1: Security mode complete messages received from the RNC at the Iu interface. A security procedure was completed successfully.

Data Source

MGW

Source Field

M640C12

Source Section

Security mode messages

SECURITY_MODE_REJECT

Retired in RP12.1: Security mode reject messages received from RNC at the Iu interface. A security procedure was completed unsuccessfully.

Data Source

MGW

Source Field

M640C13

Source Section

Security mode messages

SEMANTIC_ERROR

Retired in RP12.1: Semantic error incoming cause codes in the Protocol sub category used at the Iu interface. The received message included a semantic error.

Data Source

MGW

Source Field

M640C92

Source Section

Semantic error

SIGNAL_TRANSPORT_RESOUR_FAIL

Retired in RP12.1: Signalling transport resource failure incoming cause codes in the Transport Layer sub category used at the Iu interface. Signalling transport resources have failed (e.g. processor reset).

Data Source

MGW

Source Field

M640C86

Source Section

Signalling transport resource failure

SUCCESSFUL_RELOCATION

Retired in RP12.1: Successful relocation incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The reason for the action is the completion of a successful relocation.

Data Source

MGW

Source Field

M640C54

Source Section

Relocation

TIME_CRITICAL_RELOCATION

Retired in RP12.1: Time critical relocation incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The relocation is requested for time critical reason.

Data Source

MGW

Source Field

M640C60

Source Section

Time critical relocation

TQUEUEING_EXPIRY

Retired in RP12.1: Number of Tqueueing expiry incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The action failed due to expiry of the timer TQUEUEING.

Data Source

MGW

Source Field

M640C48

Source Section

TQUEUEING Timer Expiry

TRANSFER_SYNTAX_ERROR

Retired in RP12.1: Transfer syntax error incoming cause codes in the Protocol subcategory used at the Iu interface. The received message included a transfer syntax error.

Data Source

MGW

Source Field

M640C91

Source Section

Transfer syntax error

TRELOCALLOC_EXPIRY

Retired in RP12.1: Treloc allocation expiry incoming cause codes in the Radio Network Layer sub category used at the Iu interface. Retired in RP12.1: Relocation Resource Allocation procedure failed due to expiry of the timer TRELOC alloc.

Data Source

MGW

Source Field

M640C50

Source Section

TRELOC Allocation Timer Expiry

TRELOCCOMPLETE_EXPIRY

Retired in RP12.1: Treloc complete expiry incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The reason for the action is expiry of the timer TRELOC complete.

Data Source

MGW

Source Field

M640C47

Source Section

TRELOC Complete Timer Expiry

TRELOCOVERALL_EXPIRY

Retired in RP12.1: Treloc overall expiry incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The reason for the action is expiry of the timer TRELOC overall.

Data Source

MGW

Source Field

M640C45

Source Section

TRELOC Overall Timer Expiry

TRELOCPREP_EXPIRY

Retired in RP12.1: Treloc prep expiry incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The reason for the action is expiry of the timer TRELOC prep.

Data Source

MGW

Source Field

M640C46

Source Section

TRELOC Prep Timer Expiry

UNABLE_ESTABLISH_DURING_RELOC

Retired in RP12.1: Number of unable to establish during relocation incoming cause codes in the Radio Network Layer sub category used at the Iu interface. Retired in RP12.1: Radio Access

Bearer (RAB) failed to establish during relocation because it cannot be supported in the target RNC.

Data Source

MGW

Source Field

M640C51

Source Section

RAB Establishment

UNKNOWN_TARGET_RNC

Retired in RP12.1: Number of unknown target RNC incoming cause codes in the Radio Network Layer sub category used at the Iu interface. Retired in RP12.1: Relocation rejected because the target RNC is not known to the Retired in RP12.1: CN.

Data Source

MGW

Source Field

M640C52

Source Section

Relocation

UNSPECIFIED_FAILURE

Retired in RP12.1: Unspecified failure incoming cause codes in the Miscellaneous sub category used at the Iu interface. Sent when none of the specified cause values applies.

Data Source

MGW

Source Field

M640C99

Source Section

Unspecified failure

USER_INACTIVITY

Retired in RP12.1: User inactivity incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The action is requested due to user inactivity.

Data Source

MGW

Source Field

M640C59

Source Section

User inactivity

USER_PLANE_VERS_NOT_SUPPORTED

Retired in RP12.1: User plane versions not supported incoming cause codes in the Radio Network Layer sub category used at the Iu interface. The action failed because the requested user plane versions were not supported.

Data Source

MGW

Source Field

M640C70

Source Section

User plane versions not supported

USER_RESTRICTION_END_IND

Retired in RP12.1: User restriction end indication incoming cause codes in the Non Access Stratum (NAS) sub category used at the Iu interface. A location report is generated due to leaving a classified area set by O&M.

Data Source

MGW

Source Field

M640C89

Source Section

User restriction end indication

USER_RESTRICTION_START_IND

Retired in RP12.1: User restriction start indication incoming cause codes in the Non Access Stratum (NAS) sub category used at the Iu interface. Allocation report is generated due to entering a classified area set by O&M.

Data Source

MGW

Source Field

M640C88

Source Section

User restriction start indication

Physical_layer_TTP Primitive Calculations

The following is a list of primitive calculations for the Physical_layer_TTP entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

Physical_layer_TTP Peg Counts

The following is a list of peg counts for the Physical_layer_TTP entity.

DISC_CELLS

Retired in RP12.1: Discarded cells. This includes cells with more than one bit errors.

Data Source

MGW

Source Field

M512C0

Source Section

ATM Cells

ERR_CELLS

Retired in RP12.1: Errored cells. This includes all the cells that have errors - one or more bit errors in the header.

Data Source

MGW

Source Field

M512C1

Source Section

ATM Cells

PERLENSEC

Period Length

Data Source

MGW

Source Field

PERLENSEC

Source Section

Period Length

Physical_layer_TTP_Release

Physical layer TTP Release

Data Source

MGW

Source Field

RELEASE

Source Section

Configuration

SDH_Exchange_Terminal Primitive Calculations

The following is a list of primitive calculations for the SDH_Exchange_Terminal entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

SDH_Exchange_Terminal Peg Counts

The following is a list of peg counts for the SDH_Exchange_Terminal entity.

FE_MUX_BBE

Multiplex section background block errors at the Far End (ITU-T G.826).

Data Source

MGW

Source Field

M513C27

Source Section

SDH Multiplex Section

FE_MUX_BBE_STM0

Multiplex section background block errors (ITU-T G.826) at the Far End.

Data Source

MGW

Source Field

M515C13

Source Section

SDH Multiplex Section

FE_MUX_ES

Multiplex section errored second at the Far End. The number of seconds with one or more errored blocks or at least one defect.

Data Source

MGW

Source Field

M513C28

Source Section

SDH Multiplex Section

FE_MUX_ES_STM0

Multiplex section errored second at the Far End.

Data Source

MGW

Source Field

M515C14

Source Section

SDH Multiplex Section

FE_MUX_SES

Multiplex section severely errored second at the Far End. The number of one second periods which contain \geq threshold errored blocks or at least one defect.

Data Source

MGW

Source Field

M513C29

Source Section

SDH Multiplex Section

FE_MUX_SES_STM0

Multiplex section severely errored second at the Far End.

Data Source

MGW

Source Field

M515C15

Source Section

SDH Multiplex Section

FE_MUX_UAS

Multiplex section unavailable seconds at the Far End (ITU-T G.826).

Data Source

MGW

Source Field

M513C26

Source Section

SDH Multiplex Section

FE_MUX_UAS_STM0

Multiplex section unavailable seconds (ITU-T G.826) at the Far End.

Data Source

MGW

Source Field

M515C12

Source Section

SDH Multiplex Section

FE_PATH1_BBE

Path termination section background block errors at the Far End (ITU-TG.826).

Data Source

MGW

Source Field

M513C31

Source Section

SDH Path Termination Section

FE_PATH1_BBE_STM0

Path termination section background block errors at the Far End (ITU-T G.826).

Data Source

MGW

Source Field

M515C17

Source Section

SDH Path Termination Section

FE_PATH1_ES

Path termination section errored second at the Far End (ITU-T G.826).

Data Source

MGW

Source Field

M513C32

Source Section

SDH Path Termination Section

FE_PATH1_ES_STM0

Path termination section errored second at the Far End (ITU-T G.826).

Data Source

MGW

Source Field

M515C18

Source Section

SDH Path Termination Section

FE_PATH1_SES

Path termination section severely errored second at the Far End (ITU-TG.826).

Data Source

MGW

Source Field

M513C33

Source Section

SDH Path Termination Section

FE_PATH1_SES_STM0

Path termination section severely errored second at the Far End (ITU-TG.826).

Data Source

MGW

Source Field

M515C19

Source Section

SDH Path Termination Section

FE_PATH1_UAS

Path termination section unavailable seconds at the Far End (ITU-T G.826).

Data Source

MGW

Source Field

M513C30

Source Section

SDH Path Termination Section

FE_PATH1_UAS_STM0

Path termination section unavailable seconds (ITU-T G.826) at the Far End.

Data Source

MGW

Source Field

M515C16

Source Section

SDH Path Termination Section

FE_PATH2_BBE

Path termination section background block errors at the Far End (ITU-TG.826).

Data Source

MGW

Source Field

M513C35

Source Section

SDH Path Termination Section

FE_PATH2_ES

Path termination section errored second at the Far End (ITU-T G.826).

Data Source

MGW

Source Field

M513C36

Source Section

SDH Path Termination Section

FE_PATH2_SES

Path termination section severely errored second at the Far End (ITU-TG.826).

Data Source

MGW

Source Field

M513C37

Source Section

SDH Path Termination Section

FE_PATH2_UAS

Path termination section unavailable seconds at the Far End (ITU-T G.826).

Data Source

MGW

Source Field

M513C34

Source Section

SDH Path Termination Section

FE_PATH3_BBE

Path termination section background block errors at the Far End (ITU-TG.826).

Data Source

MGW

Source Field

M513C39

Source Section

SDH Path Termination Section

FE_PATH3_ES

Path termination section errored second at the Far End (ITU-T G.826).

Data Source

MGW

Source Field

M513C40

Source Section

SDH Path Termination Section

FE_PATH3_SES

Path termination section severely errored second at the Far End (ITU-TG.826).

Data Source

MGW

Source Field

M513C41

Source Section

SDH Path Termination Section

FE_PATH3_UAS

Path termination section unavailable seconds at the Far End (ITU-T G.826).

Data Source

MGW

Source Field

M513C38

Source Section

SDH Path Termination Section

NE_MUX_BBE

Multiplex section background block errors at the Near End (ITU-T G.826).

Data Source

MGW

Source Field

M513C11

Source Section

SDH Multiplex Section

NE_MUX_BBE_STM0

Multiplex section background block errors (ITU-T G.826) at the Near End.

Data Source

MGW

Source Field

M515C5

Source Section

SDH Multiplex Section

NE_MUX_ES

Multiplex section errored seconds at the Near End. The number of seconds with one or more errored blocks or at least one defect.

Data Source

MGW

Source Field

M513C12

Source Section

SDH Multiplex Section

NE_MUX_ES_STM0

Multiplex section errored second at the Near End.

Data Source

MGW

Source Field

M515C6

Source Section

SDH Multiplex Section

NE_MUX_SES

Multiplex section severely errored second at the Near End. The number of one second periods which contain \geq threshold errored blocks or at least one defect.

Data Source

MGW

Source Field

M513C13

Source Section

SDH Multiplex Section

NE_MUX_SES_STM0

Multiplex section severely errored second at the Near End.

Data Source

MGW

Source Field

M515C7

Source Section

SDH Multiplex Section

NE_MUX_UAS

Multiplex section unavailable seconds at the Near End (ITU-T G.826).

Data Source

MGW

Source Field

M513C10

Source Section

SDH Multiplex Section

NE_MUX_UAS_STM0

Multiplex section unavailable seconds (ITU-T G.826) at the Near End.

Data Source

MGW

Source Field

M515C4

Source Section

SDH Multiplex Section

NE_PATH1_BBE

Path termination section background block errors at the Near End (ITU-TG.826).

Data Source

MGW

Source Field

M513C15

Source Section

SDH Path Termination Section

NE_PATH1_BBE_STM0

Path termination section background block errors (ITU-T G.826).

Data Source

MGW

Source Field

M515C9

Source Section

SDH Path Termination Section

NE_PATH1_ES

Path termination section errored second at the Near End (ITU-T G.826).

Data Source

MGW

Source Field

M513C16

Source Section

SDH Path Termination Section

NE_PATH1_ES_STM0

Path termination section errored second (ITU-T G.826).

Data Source

MGW

Source Field

M515C10

Source Section

SDH Path Termination Section

NE_PATH1_SES

Path termination section severely errored second at the Near End (ITU-TG.826).

Data Source

MGW

Source Field

M513C17

Source Section

SDH Path Termination Section

NE_PATH1_SES_STM0

Path termination section severely errored second (ITU-T G.826).

Data Source

MGW

Source Field

M515C11

Source Section

SDH Path Termination Section

NE_PATH1_UAS

Path termination section unavailable seconds at the Near End (ITU-TG.826).

Data Source

MGW

Source Field

M513C14

Source Section

SDH Path Termination Section

NE_PATH1_UAS_STM0

Path termination section unavailable seconds (ITU-T G.826).

Data Source

MGW

Source Field

M515C8

Source Section

SDH Path Termination Section

NE_PATH2_BBE

Path termination section background block errors at the Near End (ITU-TG.826).

Data Source

MGW

Source Field

M513C19

Source Section

SDH Path Termination Section

NE_PATH2_ES

Path termination section errored second at the Near End (ITU-T G.826).

Data Source

MGW

Source Field

M513C20

Source Section

SDH Path Termination Section

NE_PATH2_SES

Path termination section severely errored second at the Near End (ITU-TG.826).

Data Source

MGW

Source Field

M513C21

Source Section

SDH Path Termination Section

NE_PATH2_UAS

Path termination section unavailable seconds at the Near End (ITU-TG.826).

Data Source

MGW

Source Field

M513C18

Source Section

SDH Path Termination Section

NE_PATH3_BBE

Path termination section background block errors at the Near End (ITU-TG.826).

Data Source

MGW

Source Field

M513C23

Source Section

SDH Path Termination Section

NE_PATH3_ES

Path termination section errored second at the Near End (ITU-T G.826).

Data Source

MGW

Source Field

M513C24

Source Section

SDH Path Termination Section

NE_PATH3_SES

Path termination section severely errored second at the Near End (ITU-TG.826).

Data Source

MGW

Source Field

M513C25

Source Section

SDH Path Termination Section

NE_PATH3_UAS

Path termination section unavailable seconds at the Near End (ITU-TG.826).

Data Source

MGW

Source Field

M513C22

Source Section

SDH Path Termination Section

PERLENSEC

Period Length

Data Source

MGW

Source Field

PERLENSEC

Source Section

Period Length

REG_BBE

Regenerator section BBE (background block errors) (ITU-T G.826).

Data Source

MGW

Source Field

M513C0

Source Section

SDH Regenerator Section

REG_BBE_STM0

Regenerator section background block errors. (ITU-T G.826)

Data Source

MGW

Source Field

M515C1

Source Section

SDH Regenerator Section

REG_ES

Regenerator section ES (errored second). The number of seconds with one or more errored blocks or at least one defect.

Data Source

MGW

Source Field

M513C1

Source Section

SDH Regenerator Section

REG_ES_STM0

Regenerator section errored second (ITU-T G.826).

Data Source

MGW

Source Field

M515C2

Source Section

SDH Regenerator Section

REG_SES

The number of one second periods which contained \geq threshold errored blocks or at least one defect.

Data Source

MGW

Source Field

M513C2

Source Section

SDH Multiplex Section

REG_SES_STM0

Regenerator section severely errored second (ITU-T G.826).

Data Source

MGW

Source Field

M515C3

Source Section

SDH Multiplex Section

REG_UAS

Regenerator section is unavailable for a number of seconds (ITU-T G.826).

Data Source

MGW

Source Field

M513C9

Source Section

SDH Regenerator Section

REG_UAS_STM0

Regenerator section unavailable seconds (ITU-T G.826).

Data Source

MGW

Source Field

M515C0

Source Section

SDH Regenerator Section

SDH_Exchange_Terminal_Release

SDH Exchange Terminal Release

Data Source

MGW

Source Field

RELEASE

Source Section

Configuration

Signalling_Point Primitive Calculations

The following is a list of primitive calculations for the Signalling_Point entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

Signalling_Point Peg Counts

The following is a list of peg counts for the Signalling_Point entity.

AAL_PARA_NNI

AAL parameters can not be supported. Connections terminated by Cause No.93. (Requested AAL parameters cannot be provided.)

Data Source

MGW

Source Field

M545C6

Source Section

AAL2 Signalling

AAL2PI_VERIF_NNI

The AAL type 2 Id verification/allocation failure. Requested AAL type 2 Path Identifier was not available in the destination AAL type 2 node. Internal (non-protocol) error.

Data Source

MGW

Source Field

M545C20

Source Section

AAL2 Signalling

ADJ_NODE_NOT_AVAIL_NNI

Adjacent node not available. Connection establishment rejected since the signalling relation into the adjacent AAL type 2 node was not available. Internal (non-protocol) error.

Data Source

MGW

Source Field

M545C23

Source Section

AAL2 Signalling

BINDING_ID_VERIF_NNI

Binding id verification failure. Requested Binding Identifier was not available at the destination AAL type 2node. Internal (nonprotocol) error.

Data Source

MGW

Source Field

M545C21

Source Section

AAL2 Signalling

CID_VERIF_NNI

The CID (Channel Identifier) verification/allocation failure. Requested AAL type 2 channel (CID) was not available in the destination AAL type 2 node. Internal (non protocol) error.

Data Source

MGW

Source Field

M545C19

Source Section

AAL2 Signalling

COMMON_NNI

Successful connection established. The number of connection events started in the AAL2 signalling.

Data Source

MGW

Source Field

M545C24

Source Section

AAL2 Signalling

CONGESTION_NNI

Switching equipment congestion. Number of connections terminated by Cause No.42. (Switching equipment generating this cause is experiencing a period of high traffic.)

Data Source

MGW

Source Field

M545C3

Source Section

AAL2 Signalling

INFO_NOT_IMPL_NNI

Information element non-existent or not implemented. Connections terminated to Cause No.99. (Receipt of a message containing non-critical information (e.g. undefined parameters) however the message was processed can be processed an undefined or unimplemented message type.

Data Source

MGW

Source Field

M545C10

Source Section

AAL2 Signalling

INVALID_INFO_NNI

Invalid information element contents. This parameter provides the number of connections terminated to Cause No.100. (Received an information element which it has implemented however, one or more fields in the information element are coded in a way that has not been implemented by the equipment sending this cause.

Data Source

MGW

Source Field

M545C11

Source Section

AAL2 Signalling

INVALID_MSG_NNI

Invalid message. Connections terminated by Cause No.95. (Invalid message event only when no other cause in the invalid message class applies.)

Data Source

MGW

Source Field

M545C7

Source Section

AAL2 Signalling

LINK_CHAR_VERIF_NNI

Required traffic characterizations unavailable. Requested traffic characterization was not available in the destination AAL type 2 node. Internal (nonprotocol) error.

Data Source

MGW

Source Field

M545C22

Source Section

AAL2 Signalling

MANDAT_INFO_NNI

Mandatory information element is missing. Connections terminated by Cause No.96. (Received messages which are missing information required for processing.)

Data Source

MGW

Source Field

M545C8

Source Section

AAL2 Signalling

MSG_NOT_IMPL_NNI

Message type non-existent or not implemented. Connections terminated by Cause No.97.
(Receipt of an undefined or unimplemented message type.)

Data Source

MGW

Source Field

M545C9

Source Section

AAL2 Signalling

MSG_UNRECOG_NNI

Message with unrecognized parameter discarded. Connections terminated to Cause No.110.
(Equipment sending this cause has discarded a received message which includes a parameter that is not recognized.)

Data Source

MGW

Source Field

M545C17

Source Section

AAL2 Signalling

NET_OUT_NNI

Network out of order. Connections terminated by Cause No.38. (Network is not functioning correctly and that the condition is likely to last a relatively long period of time; e.g. immediately attempting the call again is not likely to be successful.)

Data Source

MGW

Source Field

M545C1

Source Section

AAL2 Signalling

NO_CHANNEL_NNI

No circuit or channel available. Connections terminated by Cause No. 34. (No appropriate circuit or channel presently available to handle the call.)

Data Source

MGW

Source Field

M545C28

Source Section

AAL2 Signalling

NO_ROUTE_NNI

No route to destination. Connections terminated by Cause No. 3. (The network through which the call has been routed does not serve the destination desired.)

Data Source

MGW

Source Field

M545C27

Source Section

AAL2 Signalling

NODAL_FUNCTION

Successful Nodal function transit connection established. The number of Nodal function transit connection events started in the AAL2 signalling.

Data Source

MGW

Source Field

M545C25

Source Section

AAL2 Signalling

PERLENSEC

Period Length

Data Source

MGW

Source Field

PERLENSEC

Source Section

Period Length

REQ_CHAN_NNI

Requested circuit/channel not available. Connections terminated by Cause No.44. (Circuit or channel indicated by the requesting entity cannot be provided by the other side of the interface.)

Data Source

MGW

Source Field

M545C4

Source Section

AAL2 Signalling

RES_MAN_OVERLOAD

Resource manager overload. Connection establishment rejected since the resource manager overload protection is activated (ticket not received from ticket service) in the destination AAL type 2 node.

Data Source

MGW

Source Field

M545C29

Source Section

AAL2 Signalling

RES_UNAVAIL_NNI

Resource unavailable unspecified. Connections terminated by Cause No.47. (Resource unavailable event only when no other cause in the resource unavailable class applies.)

Data Source

MGW

Source Field

M545C5

Source Section

AAL2 Signalling

SAI_ALLOC_NNI

OSAI (Object Signalling Association Identifier) allocation failure. This is the same as the hand process reservation failure. Internal (non-protocol) error.

Data Source

MGW

Source Field

M545C18

Source Section

AAL2 Signalling

Signalling_Point_Release

Signalling Point Release

Data Source

MGW

Source Field

RELEASE

Source Section

Configuration

TEMP_FAIL_NNI

Temporary failure. Connections terminated by Cause No.41. (Network is not functioning correctly and that the condition is NOT likely to last for a long period of time; e.g. the user may wish to try another call attempt almost immediately.)

Data Source

MGW

Source Field

M545C2

Source Section

AAL2 Signalling

TIMER_EXP_BLO_NNI

Recovery on BLO (Block) timer expiry. Connections terminated by Cause No.102 block request. (Block request to the AAL type 2 signalling entity to locally block a particular unblocked AAL type 2 path and to indicate this to the peer AAL type 2 signalling entity.)

Data Source

MGW

Source Field

M545C15

Source Section

AAL2 Signalling

TIMER_EXP_ERQ_NNI

Recovery on ERQ (Establish Request) timer expiry. Connections terminated by Cause No.102. (Establish Request is used by the AAL type 2 served user to start the establishment of a new AAL type 2 connection.)

Data Source

MGW

Source Field

M545C12

Source Section

AAL2 Signalling

TIMER_EXP_REL_NNI

Recovery on REL (Release) timer expiry. Connections terminated by Cause No.102 release request. (Release request is used by the AAL type2 served user to start the clearing of an AAL type 2 connection.)

Data Source

MGW

Source Field

M545C13

Source Section

AAL2 Signalling

TIMER_EXP_RES_NNI

Recovery on RES (Reset) timer expiry. Connections terminated by Cause No.102 reset request. (Reset requests the AAL type 2 signalling entity to the "Idle" state and to indicate this to the peer AAL type 2 signalling entity.)

Data Source

MGW

Source Field

M545C14

Source Section

AAL2 Signalling

TIMER_EXP_UBL_NNI

Recovery on UBL (Unblock) timer expiry. Connections terminated to Cause No.102 unblock request. (Unblock request to the AAL type 2 signalling entity to locally unblock a particular blocked AAL type 2 path and to indicate this to the peer AAL type 2 signalling entity.)

Data Source

MGW

Source Field

M545C16

Source Section

AAL2 Signalling

UNALLOC_NUMB_NNI

Unallocated (unassigned) number. Connections terminated by Cause No. 1. (Called party number is not currently allocated/assigned - though in a valid format).

Data Source

MGW

Source Field

M545C26

Source Section

AAL2 Signalling

System Primitive Calculations

The following is a list of primitive calculations for the System entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

Virtual_MGW Primitive Calculations

The following is a list of primitive calculations for the Virtual_MGW entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

Virtual_MGW Peg Counts

The following is a list of peg counts for the Virtual_MGW entity.

AVG_CMDS_PER_CTX

The average number of H.248 commands per call context.

Data Source

MGW

Source Field

M658C280

Source Section

H.248 Measurement

AVG_SIZE_OF_REC_MSG

The average size of the received H.248 messages in octets during the measured period.

Data Source

MGW

Source Field

M658C278

Source Section

H.248 Measurement

AVG_SIZE_OF_SENT_MSG

The average size of the sent H.248 messages in octets during the measured period.

Data Source

MGW

Source Field

M658C279

Source Section

H.248 Measurement

DUPL_TRANSACTIONS_REQ

The number of times when MGW has received the same transaction as received earlier in an H.248 request message.

Data Source

MGW

Source Field

M658C5

Source Section

H.248 Measurement

E400_SYN_ERROR_IN_MSG_REQ

The number of generated error (error code 400) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C37

Source Section

H.248 Measurement

E400_SYN_ERROR_IN_MSG_RPL

The number of received error code 400 in H.248 reply message.

Data Source

MGW

Source Field

M658C154

Source Section

H.248 Measurement

E401_PROTOCOL_ERROR_REQ

The number of generated error (error code 401) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C38

Source Section

H.248 Measurement

E401_PROTOCOL_ERROR_RPL

The number of received error code 401 in H.248 reply message.

Data Source

MGW

Source Field

M658C155

Source Section

H.248 Measurement

E402_UNAUTHORIZED_REQ

The number of generated error (error code 402) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C39

Source Section

H.248 Measurement

E402_UNAUTHORIZED_RPL

The number of received error code 402 in H.248 reply message.

Data Source

MGW

Source Field

M658C156

Source Section

H.248 Measurement

E403_SNX_ERROR_IN_TRACT_REQ

The number of generated error (error code 403) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C40

Source Section

H.248 Measurement

E403_SNX_ERROR_IN_TRACT_RPL

The number of received error code 403 in H.248 reply message.

Data Source

MGW

Source Field

M658C157

Source Section

H.248 Measurement

E406_VER_NOT_SUP_REQ

The number of generated error (error code 406) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C41

Source Section

H.248 Measurement

E406_VER_NOT_SUP_RPL

The number of received error code 406 in H.248 reply message.

Data Source

MGW

Source Field

M658C158

Source Section

H.248 Measurement

E410_INCORR_ID_REQ

The number of generated error (error code 410) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C42

Source Section

H.248 Measurement

E410_INCORR_ID_RPL

The number of received error code 410 in H.248 reply message.

Data Source

MGW

Source Field

M658C159

Source Section

H.248 Measurement

E411_TRACT_UNKN_CXTID_REQ

The number of generated error (error code 411) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C43

Source Section

H.248 Measurement

E411_TRACT_UNKN_CXTID_RPL

The number of received error code 411 in H.248 reply message.

Data Source

MGW

Source Field

M658C160

Source Section

H.248 Measurement

E412_NO_CTXTIDS_AVAIL_REQ

The number of generated error (error code 412) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C44

Source Section

H.248 Measurement

E412_NO_CTXTIDS_AVAIL_RPL

The number of received error code 412 in H.248 reply message.

Data Source

MGW

Source Field

M658C161

Source Section

H.248 Measurement

E421_UNKN_ACT_OF_ACTS_REQ

The number of generated error (error code 421) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C45

Source Section

H.248 Measurement

E421_UNKN_ACT_OF_ACTS_RPL

The number of received error code 421 in H.248 reply message.

Data Source

MGW

Source Field

M658C162

Source Section

H.248 Measurement

E422_SYN_ERROR_IN_ACT_REQ

The number of generated error (error code 422) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C46

Source Section

H.248 Measurement

E422_SYN_ERROR_IN_ACT_RPL

The number of received error code 422 in H.248 reply message.

Data Source

MGW

Source Field

M658C163

Source Section

H.248 Measurement

E430_UNKN_TERMID_REQ

The number of generated error (error code 430) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C47

Source Section

H.248 Measurement

E430_UNKN_TERMID_RPL

The number of received error code 430 in H.248 reply message.

Data Source

MGW

Source Field

M658C164

Source Section

H.248 Measurement

E431_NO_TERMID_M_WILDC_REQ

The number of generated error (error code 431) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C48

Source Section

H.248 Measurement

E431_NO_TERMID_M_WILDC_RPL

The number of received error code 431 in H.248 reply message.

Data Source

MGW

Source Field

M658C165

Source Section

H.248 Measurement

E432_NO_TERMIDS_AVAIL_REQ

The number of generated error (error code 432) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C49

Source Section

H.248 Measurement

E432_NO_TERMIDS_AVAIL_RPL

The number of received error code 432 in H.248 reply message.

Data Source

MGW

Source Field

M658C166

Source Section

H.248 Measurement

E433_ID_IS_ALRDY_IN_CTXT_REQ

The number of generated error (error code 433) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C50

Source Section

H.248 Measurement

E433_ID_IS_ALREADY_IN_CTXT_RPL

The number of received error code 433 in H.248 reply message.

Data Source

MGW

Source Field

M658C167

Source Section

H.248 Measurement

E434_NBR_OF_TERMS_CTXT_REQ

The number of generated error (error code 434) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C51

Source Section

H.248 Measurement

E434_NBR_OF_TERMS_CTXT_RPL

The number of received error code 434 in H.248 reply message.

Data Source

MGW

Source Field

M658C168

Source Section

H.248 Measurement

E435_TERMID_NOT_SPEC_CXT_REQ

The number of generated error (error code 435) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C52

Source Section

H.248 Measurement

E435_TERMID_NOT_SPEC_CXT_RPL

The number of received error code 435 in H.248 reply message.

Data Source

MGW

Source Field

M658C169

Source Section

H.248 Measurement

E440_UNSUP_OR_UNKN_PKG_REQ

The number of generated error (error code 440) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C53

Source Section

H.248 Measurement

E440_UNSUP_OR_UNKN_PKG_RPL

The number of received error code 440 in H.248 reply message.

Data Source

MGW

Source Field

M658C170

Source Section

H.248 Measurement

E441_MISS_REM_LOC_DESCR_REQ

The number of generated error (error code 441) after receiving H.248 message.

Data Source

MGW

Source Field

M658C54

Source Section

H.248 Measurement

E441_MISS_REM_LOC_DESCR_RPL

The number of received error code 441 in H.248 reply message.

Data Source

MGW

Source Field

M658C171

Source Section

H.248 Measurement

E442_SYN_ERROR_IN_CMD_REQ

The number of generated error (error code 442) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C55

Source Section

H.248 Measurement

E442_SYN_ERROR_IN_CMD_RPL

The number of received error code 442 in H.248 reply message.

Data Source

MGW

Source Field

M658C172

Source Section

H.248 Measurement

E443_UNKN_CMD_REQ

The number of generated error (error code 443) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C56

Source Section

H.248 Measurement

E443_UNKN_CMD_RPL

The number of received error code 443 in H.248 reply message.

Data Source

MGW

Source Field

M658C173

Source Section

H.248 Measurement

E444_UN_ OR_UNKN_DESCR_REQ

The number of generated error (error code 444) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C57

Source Section

H.248 Measurement

E444_UN_ OR_UNKN_DESCR_RPL

The number of received error code 444 in H.248 reply message.

Data Source

MGW

Source Field

M658C174

Source Section

H.248 Measurement

E445_UNSUP_PROP_REQ

The number of generated error (error code 445) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C58

Source Section

H.248 Measurement

E445_UNSUP_PROP_RPL

The number of received error code 445 in H.248 reply message.

Data Source

MGW

Source Field

M658C175

Source Section

H.248 Measurement

E446_UNG_OR_UNKN_PAR_REQ

The number of generated error (error code 446) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C59

Source Section

H.248 Measurement

E446_UNG_OR_UNKN_PAR_RPL

The number of received error code 446 in H.248 reply message.

Data Source

MGW

Source Field

M658C176

Source Section

H.248 Measurement

E447_DESC_NOT_LEG_IN_CMD_REQ

The number of generated error (error code 447) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C60

Source Section

H.248 Measurement

E447_DESC_NOT_LEG_IN_CMD_RPL

The number of received error code 447 in H.248 reply message.

Data Source

MGW

Source Field

M658C177

Source Section

H.248 Measurement

E448_DESC_APP_TWICE_CMD_REQ

The number of generated error (error code 448) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C61

Source Section

H.248 Measurement

E448_DESC_APP_TWICE_CMD_RPL

The number of received error code 448 in H.248 reply message.

Data Source

MGW

Source Field

M658C178

Source Section

H.248 Measurement

E449_UNKN_PARAM_PRO_VAL_REQ

The number of generated error (error code 449) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C62

Source Section

H.248 Measurement

E449_UNKN_PARAM_PRO_VAL_RPL

The number of received error code 449 in H.248 reply message.

Data Source

MGW

Source Field

M658C179

Source Section

H.248 Measurement

E450_NO_SUCH_PROP_IN_PKG_REQ

The number of generated error (error code 450) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C63

Source Section

H.248 Measurement

E450_NO_SUCH_PROP_IN_PKG_RPL

The number of received error code 450 in H.248 reply message.

Data Source

MGW

Source Field

M658C180

Source Section

H.248 Measurement

E451_NO_EVENT_IN_PKG_REQ

The number of generated error (error code 451) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C64

Source Section

H.248 Measurement

E451_NO_EVENT_IN_PKG_RPL

The number of received error code 451 in H.248 reply message.

Data Source

MGW

Source Field

M658C181

Source Section

H.248 Measurement

E452_NO_SUCH_SGNL_IN_PKG_REQ

The number of generated error (error code 452) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C65

Source Section

H.248 Measurement

E452_NO_SUCH_SGNL_IN_PKG_RPL

The number of received error code 452 in H.248 reply message.

Data Source

MGW

Source Field

M658C182

Source Section

H.248 Measurement

E453_NO_SUCH_STAT_IN_PKG_REQ

The number of generated error (error code 453) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C66

Source Section

H.248 Measurement

E453_NO_SUCH_STAT_IN_PKG_RPL

The number of received error code 453 in H.248 reply message.

Data Source

MGW

Source Field

M658C183

Source Section

H.248 Measurement

E454_NO_PARAM_VAL_IN_PKG_REQ

The number of generated error (error code 454) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C67

Source Section

H.248 Measurement

E454_NO_PARAM_VAL_IN_PKG_RPL

The number of received error code 454 in H.248 reply message.

Data Source

MGW

Source Field

M658C184

Source Section

H.248 Measurement

E455_PAR_ILLEGAL_IN_DESCR_REQ

The number of generated error (error code 455) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C68

Source Section

H.248 Measurement

E455_PAR_ILLEGAL_IN_DESCR_RPL

The number of received error code 455 in H.248 reply message.

Data Source

MGW

Source Field

M658C185

Source Section

H.248 Measurement

E456_PARAM_TWC_IN_DESCR_REQ

The number of generated error (error code 456) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C69

Source Section

H.248 Measurement

E456_PARAM_TWC_IN_DESCR_RPL

The number of received error code 456 in H.248 reply message.

Data Source

MGW

Source Field

M658C186

Source Section

H.248 Measurement

E457_MISS_PARAM_IN_SGNL_REQ

The number of generated error (error code 457) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C70

Source Section

H.248 Measurement

E457_MISS_PARAM_IN_SGNL_RPL

The number of received error code 457 in H.248 reply message.

Data Source

MGW

Source Field

M658C187

Source Section

H.248 Measurement

E460_UNABLE_SET_STAT_SRM_REQ

The number of generated error (error code 460) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C71

Source Section

H.248 Measurement

E460_UNABLE_SET_STAT_SRM_RPL

The number of received error code 460 in H.248 reply message.

Data Source

MGW

Source Field

M658C188

Source Section

H.248 Measurement

E471_IMPL_ADD_MPLX_FAIL_REQ

The number of generated error (error code 471) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C72

Source Section

H.248 Measurement

E471_IMPL_ADD_MPLX_FAIL_RPL

The number of received error code 471 in H.248 reply message.

Data Source

MGW

Source Field

M658C189

Source Section

H.248 Measurement

E500_INT_SW_FAIL_IN_MG_REQ

The number of generated error (error code 500) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C73

Source Section

H.248 Measurement

E500_INT_SW_FAIL_IN_MG_RPL

The number of received error code 500 in H.248 reply message.

Data Source

MGW

Source Field

M658C190

Source Section

H.248 Measurement

E501_NOT_IMPLEMENTED_REQ

The number of generated error (error code 501) after receiving H.258 message.

Data Source

MGW

Source Field

M658C74

Source Section

H.248 Measurement

E501_NOT_IMPLEMENTED_RPL

The number of received error code 501 in H.248 reply message.

Data Source

MGW

Source Field

M658C191

Source Section

H.248 Measurement

E502_NOT_READY_REQ

The number of generated error (error code 502) after receiving H.258 message.

Data Source

MGW

Source Field

M658C75

Source Section

H.248 Measurement

E502_NOT_READY_RPL

The number of received error code 502 in H.248 reply message.

Data Source

MGW

Source Field

M658C192

Source Section

H.248 Measurement

E503_SERV_UNAVAILABLE_REQ

The number of generated error (error code 503) after receiving H.258 message.

Data Source

MGW

Source Field

M658C76

Source Section

H.248 Measurement

E503_SERV_UNAVAILABLE_RPL

The number of received error code 503 in H.248 reply message.

Data Source

MGW

Source Field

M658C193

Source Section

H.248 Measurement

E504_CMD_REC_UNAUT_ENT_REQ

The number of generated error (error code 504) after receiving H.258 message.

Data Source

MGW

Source Field

M658C77

Source Section

H.248 Measurement

E504_CMD_REC_UNAUT_ENT_RPL

The number of received error code 504 in H.248 reply message.

Data Source

MGW

Source Field

M658C194

Source Section

H.248 Measurement

E505_TRACT_REQ_SERVCHG_REQ

The number of generated error (error code 505) after receiving H.258 message.

Data Source

MGW

Source Field

M658C78

Source Section

H.248 Measurement

E505_TRACT_RPL_SERVCHG_RPL

The number of received error code 505 in H.248 reply message.

Data Source

MGW

Source Field

M658C195

Source Section

H.248 Measurement

E506_TRACTPENDINGS_EXC_REQ

The number of generated error (error code 506) after receiving H.258 message.

Data Source

MGW

Source Field

M658C79

Source Section

H.248 Measurement

E506_TRACTPENDINGS_EXC_RPL

The number of received error code 506 in H.248 reply message.

Data Source

MGW

Source Field

M658C196

Source Section

H.248 Measurement

E510_INSUFF_RESOURCES_REQ

The number of generated error (error code 510) after receiving H.258 message.

Data Source

MGW

Source Field

M658C80

Source Section

H.248 Measurement

E510_INSUFF_RESOURCES_RPL

The number of received error code 510 in H.248 reply message.

Data Source

MGW

Source Field

M658C197

Source Section

H.248 Measurement

E512_MGW_UNEQ_REQ_EVNT_REQ

The number of generated error (error code 512) after receiving H.258 message.

Data Source

MGW

Source Field

M658C81

Source Section

H.248 Measurement

E512_MGW_UNEQ_RPL_EVNT_RPL

The number of received error code 512 in H.248 reply message.

Data Source

MGW

Source Field

M658C198

Source Section

H.248 Measurement

E513_MGW_UNEQ_REQ_SGNLS_REQ

The number of generated error (error code 513) after receiving H.258 message.

Data Source

MGW

Source Field

M658C82

Source Section

H.248 Measurement

E513_MGW_UNEQ_RPL_SGNLS_RPL

The number of received error code 513 in H.248 reply message.

Data Source

MGW

Source Field

M658C199

Source Section

H.248 Measurement

E514_MGW_CNT_SEND_ANNO_REQ

The number of generated error (error code 514) after receiving H.258 message.

Data Source

MGW

Source Field

M658C83

Source Section

H.248 Measurement

E514_MGW_CNT_SEND_ANNO_RPL

The number of received error code 514 in H.248 reply message.

Data Source

MGW

Source Field

M658C200

Source Section

H.248 Measurement

E515_UNSUP_MEDIA_TYPE_REQ

The number of generated error (error code 515) after receiving H.258 message.

Data Source

MGW

Source Field

M658C84

Source Section

H.248 Measurement

E515_UNSUP_MEDIA_TYPE_RPL

The number of received error code 515 in H.248 reply message.

Data Source

MGW

Source Field

M658C201

Source Section

H.248 Measurement

E517_UNSUP_OR_INV_MODE_REQ

The number of generated error (error code 517) after receiving H.258 message.

Data Source

MGW

Source Field

M658C85

Source Section

H.248 Measurement

E517_UNSUP_OR_INV_MODE_RPL

The number of received error code 517 in H.248 reply message.

Data Source

MGW

Source Field

M658C202

Source Section

H.248 Measurement

E518_EVENT_BUFFER_FULL_REQ

The number of generated error (error code 518) after receiving H.258 message.

Data Source

MGW

Source Field

M658C86

Source Section

H.248 Measurement

E518_EVENT_BUFFER_FULL_RPL

The number of received error code 518 in H.248 reply message.

Data Source

MGW

Source Field

M658C203

Source Section

H.248 Measurement

E519_OUT_OF_SPC_DIG_MAP_REQ

The number of generated error (error code 519) after receiving H.258 message.

Data Source

MGW

Source Field

M658C87

Source Section

H.248 Measurement

E519_OUT_OF_SPC_DIG_MAP_RPL

The number of received error code 519 in H.248 reply message.

Data Source

MGW

Source Field

M658C204

Source Section

H.248 Measurement

E520_DIG_MAP_UNDEF_IN_MG_REQ

The number of generated error (error code 520) after receiving H.258 message.

Data Source

MGW

Source Field

M658C88

Source Section

H.248 Measurement

E520_DIG_MAP_UNDEF_IN_MG_RPL

The number of received error code 520 in H.248 reply message.

Data Source

MGW

Source Field

M658C205

Source Section

H.248 Measurement

E521_TERM_IS_SERV_CHNG_REQ

The number of generated error (error code 521) after receiving H.258 message.

Data Source

MGW

Source Field

M658C89

Source Section

H.248 Measurement

E521_TERM_IS_SERV_CHNG_RPL

The number of received error code 521 in H.248 reply message.

Data Source

MGW

Source Field

M658C206

Source Section

H.248 Measurement

E522_FUNCT_REQ_TOPOL_NOT_REQ

The number of generated error (error code 522) after receiving H.258 message.

Data Source

MGW

Source Field

M658C90

Source Section

H.248 Measurement

E522_FUNCT_REQ_TOPOL_NOT_RPL

The number of received error code 522 in H.248 reply message.

Data Source

MGW

Source Field

M658C207

Source Section

H.248 Measurement

E526_INSUFFICIENT_BW_REQ

The number of generated error (error code 526) after receiving H.258 message.

Data Source

MGW

Source Field

M658C91

Source Section

H.248 Measurement

E526_INSUFFICIENT_BW_RPL

The number of received error code 526 in H.248 reply message.

Data Source

MGW

Source Field

M658C208

Source Section

H.248 Measurement

E529_INT_HW_FAIL_IN_MG_REQ

The number of generated error (error code 529) after receiving H.258 message.

Data Source

MGW

Source Field

M658C92

Source Section

H.248 Measurement

E529_INT_HW_FAIL_IN_MG_RPL

The number of received error code 529 in H.248 reply message.

Data Source

MGW

Source Field

M658C209

Source Section

H.248 Measurement

E530_TEMP_NETWORK_FAIL_REQ

The number of generated error (error code 530) after receiving H.258 message.

Data Source

MGW

Source Field

M658C93

Source Section

H.248 Measurement

E530_TEMP_NETWORK_FAIL_RPL

The number of received error code 530 in H.248 reply message.

Data Source

MGW

Source Field

M658C210

Source Section

H.248 Measurement

E531_PERMANENT_NW_FAIL_REQ

The number of generated error (error code 531) after receiving H.258 message.

Data Source

MGW

Source Field

M658C94

Source Section

H.248 Measurement

E531_PERMANENT_NW_FAIL_RPL

The number of received error code 531 in H.248 reply message.

Data Source

MGW

Source Field

M658C211

Source Section

H.248 Measurement

E532_AUD_STAT_EVNT_SGNL_REQ

The number of generated error (error code 532) after receiving H.258 message.

Data Source

MGW

Source Field

M658C95

Source Section

H.248 Measurement

E532_AUD_STAT_EVNT_SGNL_RPL

The number of received error code 532 in H.248 reply message.

Data Source

MGW

Source Field

M658C212

Source Section

H.248 Measurement

E533_RESP_MAX_TRANSP_PDU_REQ

The number of generated error (error code 533) after receiving H.258 message.

Data Source

MGW

Source Field

M658C96

Source Section

H.248 Measurement

E533_RESP_MAX_TRANSP_PDU_RPL

The number of received error code 533 in H.248 reply message.

Data Source

MGW

Source Field

M658C213

Source Section

H.248 Measurement

E534_ILL_WR_OR_R_PROP_REQ

The number of generated error (error code 534) after receiving H.258 message.

Data Source

MGW

Source Field

M658C97

Source Section

H.248 Measurement

E534_ILL_WR_OR_R_PROP_RPL

The number of received error code 534 in H.248 reply message.

Data Source

MGW

Source Field

M658C214

Source Section

H.248 Measurement

E540_UNEXP_INIT_HOOK_REQ

The number of generated error (error code 540) after receiving H.258 message.

Data Source

MGW

Source Field

M658C98

Source Section

H.248 Measurement

E540_UNEXP_INIT_HOOK_RPL

The number of received error code 540 in H.248 reply message.

Data Source

MGW

Source Field

M658C215

Source Section

H.248 Measurement

E542_CMD_NOT_ALLOW_TERM_REQ

The number of generated error (error code 542) after receiving H.258 message.

Data Source

MGW

Source Field

M658C99

Source Section

H.248 Measurement

E542_CMD_NOT_ALLOW_TERM_RPL

The number of received error code 542 in H.248 reply message.

Data Source

MGW

Source Field

M658C216

Source Section

H.248 Measurement

E581_DOES_NOT_EXIST_REQ

The number of generated error (error code 581) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C100

Source Section

H.248 Measurement

E581_DOES_NOT_EXIST_RPL

The number of received error code 481 in H.248 reply message.

Data Source

MGW

Source Field

M658C217

Source Section

H.248 Measurement

E600_ILL_SYN_ANN_SPECIF_REQ

The number of generated error (error code 600) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C101

Source Section

H.248 Measurement

E600_ILL_SYN_ANN_SPECIF_RPL

The number of received error code 600 in H.248 reply message.

Data Source

MGW

Source Field

M658C218

Source Section

H.248 Measurement

E601_BAD_SEGM_ID_SYN_REQ

The number of generated error (error code 601) after receiving H.268 message.

Data Source

MGW

Source Field

M658C102

Source Section

H.248 Measurement

E601_BAD_SEGM_ID_SYN_RPL

The number of received error code 601 in H.248 reply message.

Data Source

MGW

Source Field

M658C219

Source Section

H.248 Measurement

E602_BAD_QUERY_PART_SYN_REQ

The number of generated error (error code 602) after receiving H.268 message.

Data Source

MGW

Source Field

M658C103

Source Section

H.248 Measurement

E602_BAD_QUERY_PART_SYN_RPL

The number of received error code 602 in H.248 reply message.

Data Source

MGW

Source Field

M658C220

Source Section

H.248 Measurement

E603_BAD_STD_VAR_SYN_REQ

The number of generated error (error code 603) after receiving H.268 message.

Data Source

MGW

Source Field

M658C104

Source Section

H.248 Measurement

E603_BAD_STD_VAR_SYN_RPL

The number of received error code 603 in H.248 reply message.

Data Source

MGW

Source Field

M658C221

Source Section

H.248 Measurement

E604_VAR_TYPE_NOT_SUP_REQ

The number of generated error (error code 604) after receiving H.268 message.

Data Source

MGW

Source Field

M658C105

Source Section

H.248 Measurement

E604_VAR_TYPE_NOT_SUP_RPL

The number of received error code 604 in H.248 reply message.

Data Source

MGW

Source Field

M658C222

Source Section

H.248 Measurement

E605_BAD_EMBED_VAR_SYN_REQ

The number of generated error (error code 605) after receiving H.268 message.

Data Source

MGW

Source Field

M658C106

Source Section

H.248 Measurement

E605_BAD_EMBED_VAR_SYN_RPL

The number of received error code 605 in H.248 reply message.

Data Source

MGW

Source Field

M658C223

Source Section

H.248 Measurement

E606_VAR_VALUE_OUTOF_RNG_REQ

The number of generated error (error code 606) after receiving H.268 message.

Data Source

MGW

Source Field

M658C107

Source Section

H.248 Measurement

E606_VAR_VALUE_OUTOF_RNG_RPL

The number of received error code 606 in H.248 reply message.

Data Source

MGW

Source Field

M658C224

Source Section

H.248 Measurement

E607_CATEGORY_NOT_SUP_REQ

The number of generated error (error code 607) after receiving H.268 message.

Data Source

MGW

Source Field

M658C108

Source Section

H.248 Measurement

E607_CATEGORY_NOT_SUP_RPL

The number of received error code 607 in H.248 reply message.

Data Source

MGW

Source Field

M658C225

Source Section

H.248 Measurement

E608_BAD_SELECTOR_SYN_REQ

The number of generated error (error code 608) after receiving H.268 message.

Data Source

MGW

Source Field

M658C109

Source Section

H.248 Measurement

E608_BAD_SELECTOR_SYN_RPL

The number of received error code 608 in H.248 reply message.

Data Source

MGW

Source Field

M658C226

Source Section

H.248 Measurement

E609_SEL_TYPE_NOT_SUP_REQ

The number of generated error (error code 609) after receiving H.268 message.

Data Source

MGW

Source Field

M658C110

Source Section

H.248 Measurement

E609_SEL_TYPE_NOT_SUP_RPL

The number of received error code 609 in H.248 reply message.

Data Source

MGW

Source Field

M658C227

Source Section

H.248 Measurement

E610_SEL_VALUE_NOT_SUP_REQ

The number of generated error (error code 610) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C111

Source Section

H.248 Measurement

E610_SEL_VALUE_NOT_SUP_RPL

The number of received error code 610 in H.248 reply message.

Data Source

MGW

Source Field

M658C228

Source Section

H.248 Measurement

E611_UNKN_SEG_ID_REQ

The number of generated error (error code 611) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C112

Source Section

H.248 Measurement

E611_UNKN_SEG_ID_RPL

The number of received error code 611 in H.248 reply message.

Data Source

MGW

Source Field

M658C229

Source Section

H.248 Measurement

E612_MISS_PLAY_SPEC_DATA_REQ

The number of generated error (error code 612) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C113

Source Section

H.248 Measurement

E612_MISS_PLAY_SPEC_DATA_RPL

The number of received error code 612 in H.248 reply message.

Data Source

MGW

Source Field

M658C230

Source Section

H.248 Measurement

E613_PROVISIONING_ERROR_REQ

The number of generated error (error code 613) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C114

Source Section

H.248 Measurement

E613_PROVISIONING_ERROR_RPL

The number of received error code 613 in H.248 reply message.

Data Source

MGW

Source Field

M658C231

Source Section

H.248 Measurement

E614_INVALID_DIGIT_MAP_REQ

The number of generated error (error code 614) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C115

Source Section

H.248 Measurement

E614_INVALID_DIGIT_MAP_RPL

The number of received error code 614 in H.248 reply message.

Data Source

MGW

Source Field

M658C232

Source Section

H.248 Measurement

E615_INVALID_OFFSET_REQ

The number of generated error (error code 615) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C116

Source Section

H.248 Measurement

E615_INVALID_OFFSET_RPL

The number of received error code 615 in H.248 reply message.

Data Source

MGW

Source Field

M658C233

Source Section

H.248 Measurement

E616_NO_FREE_SEG_IDS_REQ

The number of generated error (error code 616) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C117

Source Section

H.248 Measurement

E616_NO_FREE_SEG_IDS_RPL

The number of received error code 616 in H.248 reply message.

Data Source

MGW

Source Field

M658C234

Source Section

H.248 Measurement

E617_TEMP_SGMT_NOT_FOUND_REQ

The number of generated error (error code 617) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C118

Source Section

H.248 Measurement

E617_TEMP_SGMT_NOT_FOUND_RPL

The number of received error code 617 in H.248 reply message.

Data Source

MGW

Source Field

M658C235

Source Section

H.248 Measurement

E618_SEG_IN_USE_REQ

The number of generated error (error code 618) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C119

Source Section

H.248 Measurement

E618_SEG_IN_USE_RPL

The number of received error code 618 in H.248 reply message.

Data Source

MGW

Source Field

M658C236

Source Section

H.248 Measurement

E619_UNSPECIFIED_FAIL_REQ

The number of generated error (error code 619) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C120

Source Section

H.248 Measurement

E619_UNSPECIFIED_FAIL_RPL

The number of received error code 619 in H.248 reply message.

Data Source

MGW

Source Field

M658C237

Source Section

H.248 Measurement

E620_NO_DIGITS_REQ

The number of generated error (error code 620) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C121

Source Section

H.248 Measurement

E620_NO_DIGITS_RPL

The number of received error code 620 in H.248 reply message.

Data Source

MGW

Source Field

M658C238

Source Section

H.248 Measurement

E621_NO_SPEECH_REQ

The number of generated error (error code 621) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C122

Source Section

H.248 Measurement

E621_NO_SPEECH_RPL

The number of received error code 621 in H.248 reply message.

Data Source

MGW

Source Field

M658C239

Source Section

H.248 Measurement

E622_SPOKE_TOO_LONG_REQ

The number of generated error (error code 622) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C123

Source Section

H.248 Measurement

E622_SPOKE_TOO_LONG_RPL

The number of received error code 622 in H.248 reply message.

Data Source

MGW

Source Field

M658C240

Source Section

H.248 Measurement

E623_DIG_MAP_NOT_MATCHED_REQ

The number of generated error (error code 623) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C124

Source Section

H.248 Measurement

E623_DIG_MAP_NOT_MATCHED_RPL

The number of received error code 623 in H.248 reply message.

Data Source

MGW

Source Field

M658C241

Source Section

H.248 Measurement

E624_MAX_ATMTS_EXCEEDED_REQ

The number of generated error (error code 624) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C125

Source Section

H.248 Measurement

E624_MAX_ATMTS_EXCEEDED_RPL

The number of received error code 624 in H.248 reply message.

Data Source

MGW

Source Field

M658C242

Source Section

H.248 Measurement

E625_NO_FREE_SEG_IDS_REQ

The number of generated error (error code 625) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C126

Source Section

H.248 Measurement

E625_NO_FREE_SEG_IDS_RPL

The number of received error code 625 in H.248 reply message.

Data Source

MGW

Source Field

M658C243

Source Section

H.248 Measurement

E626_REQ_PARAM_NOT_SET_REQ

The number of generated error (error code 626) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C127

Source Section

H.248 Measurement

E626_RPL_PARAM_NOT_SET_RPL

The number of received error code 626 in H.248 reply message.

Data Source

MGW

Source Field

M658C244

Source Section

H.248 Measurement

E627_INCONS_PARAM_SET_REQ

The number of generated error (error code 627) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C128

Source Section

H.248 Measurement

E627_INCONS_PARAM_SET_RPL

The number of received error code 627 in H.248 reply message.

Data Source

MGW

Source Field

M658C245

Source Section

H.248 Measurement

E628_VALUE_OUT_OF_RANGE_REQ

The number of generated error (error code 628) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C129

Source Section

H.248 Measurement

E628_VALUE_OUT_OF_RANGE_RPL

The number of received error code 628 in H.248 reply message.

Data Source

MGW

Source Field

M658C246

Source Section

H.248 Measurement

E629_INVALID_OFFSET_REQ

The number of generated error (error code 629) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C130

Source Section

H.248 Measurement

E629_INVALID_OFFSET_RPL

The number of received error code 629 in H.248 reply message.

Data Source

MGW

Source Field

M658C247

Source Section

H.248 Measurement

E630_INVALID_DIGIT_MAP_REQ

The number of generated error (error code 630) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C131

Source Section

H.248 Measurement

E630_INVALID_DIGIT_MAP_RPL

The number of received error code 630 in H.248 reply message.

Data Source

MGW

Source Field

M658C248

Source Section

H.248 Measurement

E801_INSUFF_TRACE_RES_RPL

The number of received error code 801 in H.248 reply message.

Data Source

MGW

Source Field

M658C249

Source Section

H.248 Measurement

E900_SERV_RESTORED_REQ

The number of generated error (error code 900) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C132

Source Section

H.248 Measurement

E900_SERV_RESTORED_RPL

The number of received error code 900 in H.248 reply message.

Data Source

MGW

Source Field

M658C250

Source Section

H.248 Measurement

E901_COLD_BOOT_REQ

The number of generated error (error code 901) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C133

Source Section

H.248 Measurement

E901_COLD_BOOT_RPL

The number of received error code 901 in H.248 reply message.

Data Source

MGW

Source Field

M658C251

Source Section

H.248 Measurement

E902_WARM_BOOT_REQ

The number of generated error (error code 902) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C134

Source Section

H.248 Measurement

E902_WARM_BOOT_RPL

The number of received error code 902 in H.248 reply message.

Data Source

MGW

Source Field

M658C252

Source Section

H.248 Measurement

E903_MGC_DIRECTED_CHG_REQ

The number of generated error (error code 903) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C135

Source Section

H.248 Measurement

E903_MGC_DIRECTED_CHG_RPL

The number of received error code 903 in H.248 reply message.

Data Source

MGW

Source Field

M658C253

Source Section

H.248 Measurement

E904_TERM_MALFUNCTIONING_REQ

The number of generated error (error code 904) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C136

Source Section

H.248 Measurement

E904_TERM_MALFUNCTIONING_RPL

The number of received error code 904 in H.248 reply message.

Data Source

MGW

Source Field

M658C254

Source Section

H.248 Measurement

E905_TERM_TAKEN_OUT_SERV_REQ

The number of generated error (error code 905) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C137

Source Section

H.248 Measurement

E905_TERM_TAKEN_OUT_SERV_RPL

The number of received error code 905 in H.248 reply message.

Data Source

MGW

Source Field

M658C255

Source Section

H.248 Measurement

E906_LOSS_OF_LAYER_CONN_REQ

The number of generated error (error code 906) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C138

Source Section

H.248 Measurement

E906_LOSS_OF_LAYER_CONN_RPL

The number of received error code 906 in H.248 reply message.

Data Source

MGW

Source Field

M658C256

Source Section

H.248 Measurement

E907_TRANSMISSION_FAIL_REQ

The number of generated error (error code 907) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C139

Source Section

H.248 Measurement

E907_TRANSMISSION_FAIL_RPL

The number of received error code 907 in H.248 reply message.

Data Source

MGW

Source Field

M658C257

Source Section

H.248 Measurement

E908_MG_IMPENDING_FAIL_REQ

The number of generated error (error code 908) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C140

Source Section

H.248 Measurement

E908_MG_IMPENDING_FAIL_RPL

The number of received error code 908 in H.248 reply message.

Data Source

MGW

Source Field

M658C258

Source Section

H.248 Measurement

E909_MGC_IMPENDING_FAIL_REQ

The number of generated error (error code 909) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C141

Source Section

H.248 Measurement

E909_MGC_IMPENDING_FAIL_RPL

The number of received error code 909 in H.248 reply message.

Data Source

MGW

Source Field

M658C259

Source Section

H.248 Measurement

E910_MEDIA_CAPAB_FAIL_REQ

The number of generated error (error code 910) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C142

Source Section

H.248 Measurement

E910_MEDIA_CAPAB_FAIL_RPL

The number of received error code 910 in H.248 reply message.

Data Source

MGW

Source Field

M658C260

Source Section

H.248 Measurement

E911_MODEM_CAPAB_FAIL_REQ

The number of generated error (error code 911) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C143

Source Section

H.248 Measurement

E911_MODEM_CAPAB_FAIL_RPL

The number of received error code 911 in H.248 reply message.

Data Source

MGW

Source Field

M658C261

Source Section

H.248 Measurement

E912_MUX_CAPAB_FAIL_REQ

The number of generated error (error code 912) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C144

Source Section

H.248 Measurement

E912_MUX_CAPAB_FAIL_RPL

The number of received error code 912 in H.248 reply message.

Data Source

MGW

Source Field

M658C262

Source Section

H.248 Measurement

E913_SGNL_CAPAB_FAIL_REQ

The number of generated error (error code 913) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C145

Source Section

H.248 Measurement

E913_SGNL_CAPAB_FAIL_RPL

The number of received error code 913 in H.248 reply message.

Data Source

MGW

Source Field

M658C263

Source Section

H.248 Measurement

E914_EVENT_CAPAB_FAIL_REQ

The number of generated error (error code 914) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C146

Source Section

H.248 Measurement

E914_EVENT_CAPAB_FAIL_RPL

The number of received error code 914 in H.248 reply message.

Data Source

MGW

Source Field

M658C264

Source Section

H.248 Measurement

E915_STATE_LOSS_REQ

The number of generated error (error code 915) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C147

Source Section

H.248 Measurement

E915_STATE_LOSS_RPL

The number of received error code 915 in H.248 reply message.

Data Source

MGW

Source Field

M658C265

Source Section

H.248 Measurement

E916_PACKAGES_CHG_REQ

The number of generated error (error code 916) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C148

Source Section

H.248 Measurement

E916_PACKAGES_CHG_RPL

The number of received error code 916 in H.248 reply message.

Data Source

MGW

Source Field

M658C266

Source Section

H.248 Measurement

E917_CAPABILITIES_CHG_REQ

The number of generated error (error code 917) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C149

Source Section

H.248 Measurement

E917_CAPABILITIES_CHG_RPL

The number of received error code 917 in H.248 reply message.

Data Source

MGW

Source Field

M658C267

Source Section

H.248 Measurement

E918_CANCEL_GRACFUL_REQ

The number of generated error (error code 918) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C150

Source Section

H.248 Measurement

E918_CANCEL_GRACFUL_RPL

The number of received error code 918 in H.248 reply message.

Data Source

MGW

Source Field

M658C268

Source Section

H.248 Measurement

E919_WARM_FAILOVER_REQ

The number of generated error (error code 919) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C151

Source Section

H.248 Measurement

E919_WARM_FAILOVER_RPL

The number of received error code 919 in H.248 reply message.

Data Source

MGW

Source Field

M658C269

Source Section

H.248 Measurement

E920_COLD_FAILOVER_REQ

The number of generated error (error code 920) after receiving H.248 request message.

Data Source

MGW

Source Field

M658C152

Source Section

H.248 Measurement

E920_COLD_FAILOVER_RPL

The number of received error code 920 in H.248 reply message.

Data Source

MGW

Source Field

M658C270

Source Section

H.248 Measurement

ERROR_ADD_CMDS_REQ

The number of times when MGW has generated an error code while handling an Add command after receiving it in an H.248 request message.

Data Source

MGW

Source Field

M658C14

Source Section

H.248 Measurement

ERROR_AUDIT_CAPAB_CMDS_REQ

The number of times when MGW has generated an error code while handling an Audit Capability command after receiving it in an H.248 request message.

Data Source

MGW

Source Field

M658C22

Source Section

H.248 Measurement

ERROR_AUDIT_VALUE_CMDS_REQ

The number of times when MGW has generated an error code while handling an Audit Value command after receiving it in an H.248 request message.

Data Source

MGW

Source Field

M658C24

Source Section

H.248 Measurement

ERROR_MODIFY_CMDS_REQ

The number of times when MGW has generated an error code while handling a Modify command after receiving it in an H.248 request message.

Data Source

MGW

Source Field

M658C16

Source Section

H.248 Measurement

ERROR_MOVE_CMDS_REQ

The number of times when MGW has generated an error code while handling a Move command after receiving it in an H.248 request message.

Data Source

MGW

Source Field

M658C20

Source Section

H.248 Measurement

ERROR_NOTIFY_CMDS_RPL

The number of times when MGW has generated an error in Notify command that has been received in an H.248 reply message.

Data Source

MGW

Source Field

M658C36

Source Section

H.248 Measurement

ERROR_SERV_CHG_CMDS_REQ

The number of times when MGW has generated an error code while handling a Service Change command after receiving it in an H.248 request message.

Data Source

MGW

Source Field

M658C26

Source Section

H.248 Measurement

ERROR_SERV_CHG_CMDS_RPL

The number of times when MGW has generated an error in Service Change command that has been received in an H.248 reply message.

Data Source

MGW

Source Field

M658C34

Source Section

H.248 Measurement

ERROR_SUBTRACT_CMDS_REQ

The number of times when MGW has generated an error code while handling a Subtract command after receiving it in an H.248 request message.

Data Source

MGW

Source Field

M658C18

Source Section

H.248 Measurement

HANDLED_ACTIONS_REQ

The number of times when MGW has handled an action after receiving it in an H.248 request message.

Data Source

MGW

Source Field

M658C9

Source Section

H.248 Measurement

HANDLED_ACTIONS_RPL

The number of times when MGW has handled an action that has been received in an H.248 reply message.

Data Source

MGW

Source Field

M658C29

Source Section

H.248 Measurement

HANDLED_ADD_CMDS_REQ

The number of times when MGW has handled an Add command after receiving it in an H.248 request message.

Data Source

MGW

Source Field

M658C13

Source Section

H.248 Measurement

HANDLED_COMMANDS_REQ

The number of times when MGW has handled a command after receiving it in an H.248 request message.

Data Source

MGW

Source Field

M658C11

Source Section

H.248 Measurement

HANDLED_COMMANDS_RPL

The number of times when MGW has handled a command that has been received in an H.248 reply message.

Data Source

MGW

Source Field

M658C31

Source Section

H.248 Measurement

HANDLED_ERROR_MESSAGES

The number of times when MGW receives an erroneous H.248 request or reply message.

Data Source

MGW

Source Field

M658C2

Source Section

H.248 Measurement

HANDLED_MESSAGES

The number of times when MGW has handled H.248 request or reply message.

Data Source

MGW

Source Field

M658C0

Source Section

H.248 Measurement

HANDLED_MODIFY_CMDS_REQ

The number of times when MGW has handled a Modify command after receiving it in an H.248 request message.

Data Source

MGW

Source Field

M658C15

Source Section

H.248 Measurement

HANDLED_MOVE_CMDS_REQ

The number of times when MGW has handled a Move command after receiving it in an H.248 request message.

Data Source

MGW

Source Field

M658C19

Source Section

H.248 Measurement

HANDLED_NOTIFY_CMDS_RPL

The number of times when MGW has handled a Notify command that has been received in an H.248 reply message.

Data Source

MGW

Source Field

M658C35

Source Section

H.248 Measurement

HANDLED_SERV_CHG_CMDS_REQ

The number of times when MGW has handled a Service Change command after receiving it in an H.248 request message.

Data Source

MGW

Source Field

M658C25

Source Section

H.248 Measurement

HANDLED_SERV_CHG_CMDS_RPL

The number of times when MGW has handled a Service Change command that has been received in an H.248 reply message.

Data Source

MGW

Source Field

M658C33

Source Section

H.248 Measurement

HANDLED_SUBTRACT_CMDS_REQ

The number of times when MGW has handled a Subtract command after receiving it in an H.248 request message.

Data Source

MGW

Source Field

M658C17

Source Section

H.248 Measurement

HANDLED_SUCC_MESSAGES

The number of times when MGW has successfully handled an H.248 request or reply message.

Data Source

MGW

Source Field

M658C1

Source Section

H.248 Measurement

HANDLED_TRANSACTIONS_REQ

The number of times when MGW has handled a transaction after receiving it in an H.248 request message.

Data Source

MGW

Source Field

M658C3

Source Section

H.248 Measurement

HANDLED_TRANSACTIONS_RPL

The number of times when MGW has handled a transaction that has been received in an H.248 reply message.

Data Source

MGW

Source Field

M658C27

Source Section

H.248 Measurement

HNDL_AUDIT_CAPAB_CMDS_REQ

The number of times when MGW has handled an Audit Capability command after receiving it in an H.248 request message.

Data Source

MGW

Source Field

M658C21

Source Section

H.248 Measurement

HNDL_AUDIT_VALUE_CMDS_REQ

The number of times when MGW has handled an Audit Value command after receiving it in an H.248 request message.

Data Source

MGW

Source Field

M658C23

Source Section

H.248 Measurement

LATE_TRANSACTIONS_RPL

The number of times when MGW has received a transaction in an H.248 reply message after the transaction waiting time has expired.

Data Source

MGW

Source Field

M658C8

Source Section

H.248 Measurement

LOST_TRANSACTIONS_RPL

The number of times when MGW has not received a transaction in an H.248 reply message in time. The transaction waiting time has expired.

Data Source

MGW

Source Field

M658C7

Source Section

H.248 Measurement

MAX_CMDS_PER_CTX

The maximum number of H.248 commands per call context.

Data Source

MGW

Source Field

M658C281

Source Section

H.248 Measurement

MAX_SIZE_OF_REC_MSG

The maximum size of the received H.248 messages in octets during the measured period.

Data Source

MGW

Source Field

M658C276

Source Section

H.248 Measurement

MAX_SIZE_OF_SENT_MSG

The maximum size of the sent H.248 messages in octets during the measured period.

Data Source

MGW

Source Field

M658C277

Source Section

H.248 Measurement

MIN_CMD5_PER_CTX

The minimum number of H.248 commands per call context.

Data Source

MGW

Source Field

M658C282

Source Section

H.248 Measurement

PERLENSEC

Period Length

Data Source

MGW

Source Field

PERLENSEC

Source Section

Period Length

REC_MSG

The number of the received H.248 messages during the measured period.

Data Source

MGW

Source Field

M658C272

Source Section

H.248 Measurement

RETRANSMITTED_TRACTS_RPL

The number of times when MGW has received a retransmitted transaction again in an H.248 message.

Data Source

MGW

Source Field

M658C6

Source Section

H.248 Measurement

SENT_MSG

The number of the sent H.248 messages during the measured period.

Data Source

MGW

Source Field

M658C273

Source Section

H.248 Measurement

SUCC_ACTIONS_REQ

The number of times when MGW has successfully handled an action after receiving it in an H.248 request message.

Data Source

MGW

Source Field

M658C10

Source Section

H.248 Measurement

SUCC_ACTIONS_RPL

The number of times when MGW has successfully handled an action that has been received in an H.248 reply message.

Data Source

MGW

Source Field

M658C30

Source Section

H.248 Measurement

SUCC_COMMANDS_REQ

The number of times when MGW has successfully handled a command after receiving it in an H.248 request message.

Data Source

MGW

Source Field

M658C12

Source Section

H.248 Measurement

SUCC_COMMANDS_RPL

The number of times when MGW has successfully handled a command that has been received in an H.248 reply message.

Data Source

MGW

Source Field

M658C32

Source Section

H.248 Measurement

SUCC_TRANSACTIONS_REQ

The number of times when MGW has successfully handled a transaction after receiving it in an H.248 request message.

Data Source

MGW

Source Field

M658C4

Source Section

H.248 Measurement

SUCC_TRANSACTIONS_RPL

The number of times when MGW has successfully handled a transaction that has been received in an H.248 reply message.

Data Source

MGW

Source Field

M658C28

Source Section

H.248 Measurement

TOTAL_SIZE_OF_REC_MSG

The total size of the received H.248 messages during the measured period in octets.

Data Source

MGW

Source Field

M658C274

Source Section

H.248 Measurement

TOTAL_SIZE_OF_SENT_MSG

The total size of the sent H.248 messages during the measured period in octets.

Data Source

MGW

Source Field

M658C275

Source Section

H.248 Measurement

UNKN_EVENT_REQ

The number of generated error that is unknown after receiving H.248 message.

Data Source

MGW

Source Field

M658C153

Source Section

H.248 Measurement

UNKN_EVENT_RPL

The number of received error code that is unknown in H.248 reply message.

Data Source

MGW

Source Field

M658C271

Source Section

H.248 Measurement

Virtual_MGW_Release

Virtual MGW Release

Data Source

MGW

Source Field

RELEASE

Source Section

Configuration

9 MSC Traffic Entities

The following figures show the Prospect reporting hierarchy for MSC traffic entities.

Figure 4: Reporting Hierarchy

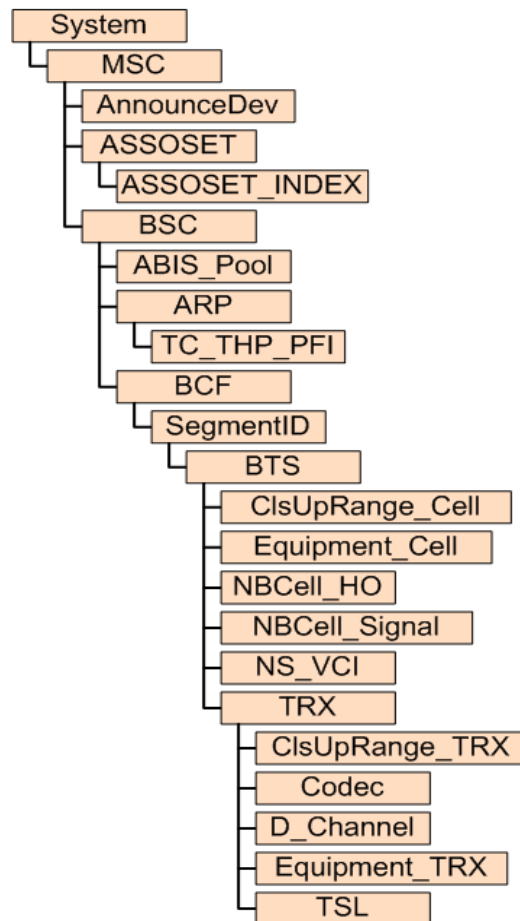


Figure 5: Reporting Hierarchy

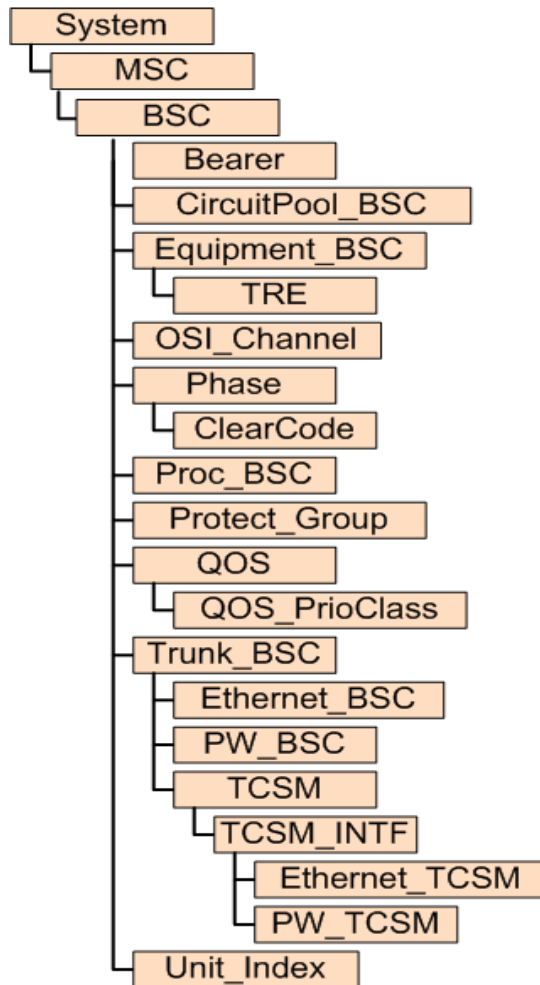


Figure 6: Reporting Hierarchy

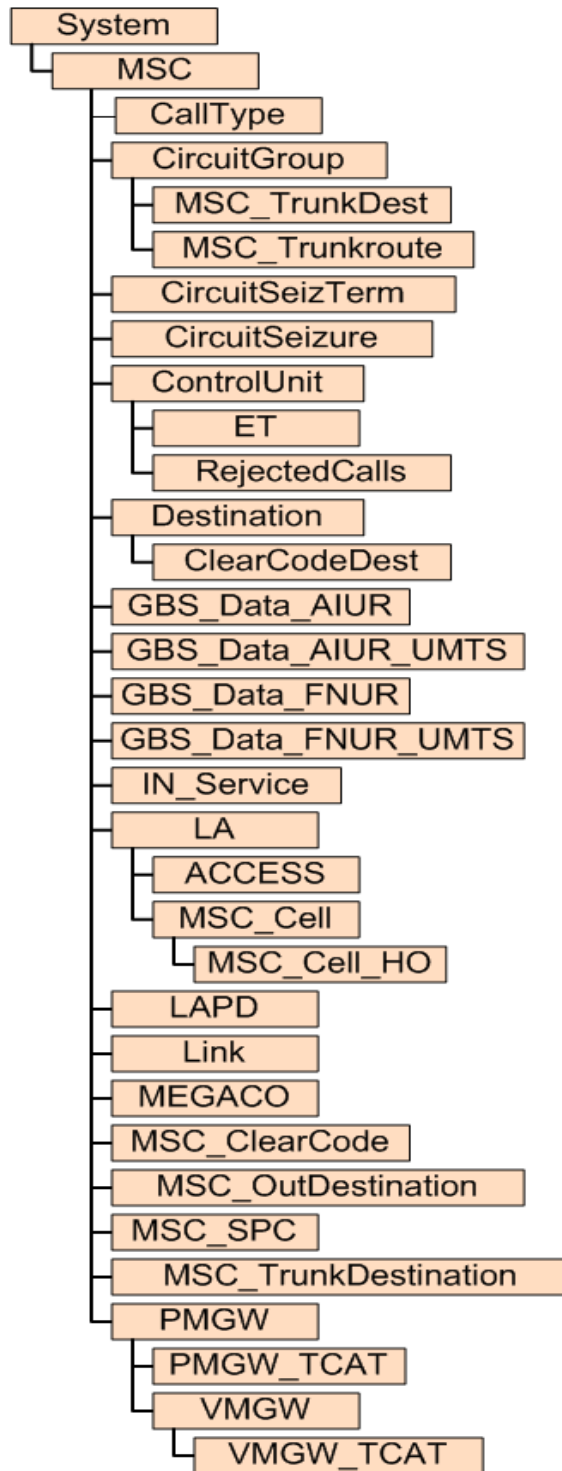
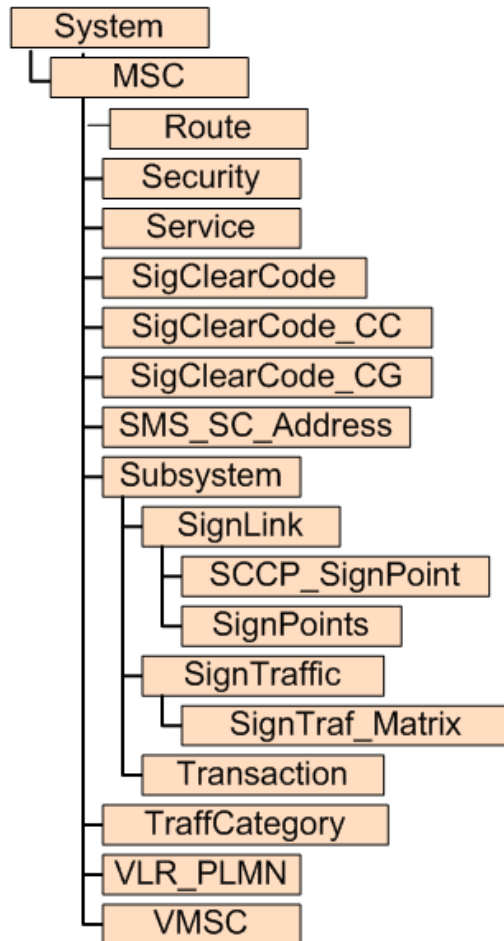


Figure 7: Reporting Hierarchy



10 MSC Traffic Fields

The following is a list of available MSC Traffic performance data fields.

ABIS_Pool Primitive Calculations

The following is a list of primitive calculations for the ABIS_Pool entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

ABIS_Pool Peg Counts

The following is a list of peg counts for the ABIS_Pool entity.

AVE_EDAP_DL_ALLOCATED_FOR_RT

Sum of Downlink Dynamic Abis allocation percentage for RTsamples.

Data Source

BSS

Source Field

76012

Source Section

P_NBSC_DYNAMIC_ABIS

AVE_EDAP_DL_USAGE_FOR_NRT

Sum of usage percentage of DL Dynamic Abis pool for nRT samples.

Data Source

BSS

Source Field

76016

Source Section

P_NBSC_DYNAMIC_ABIS

AVE_EDAP_DL_USAGE_FOR_RT

Sum of usage percentage of DL Dynamic Abis pool for RT samples.

Data Source

BSS

Source Field

76014

Source Section

P_NBSC_DYNAMIC_ABIS

AVE_EDAP_UL_ALLOCATED_FOR_RT

Sum of Uplink Dynamic Abis allocation percentage for RT samples.

Data Source

BSS

Source Field

76011

Source Section

P_NBSC_DYNAMIC_ABIS

AVE_EDAP_UL_USAGE_FOR_NRT

Sum of usage percentage of UL Dynamic Abis pool for nRT samples.

Data Source

BSS

Source Field

76015

Source Section

P_NBSC_DYNAMIC_ABIS

AVE_EDAP_UL_USAGE_FOR_RT

Sum of usage percentage of UL Dynamic Abis pool for RT samples.

Data Source

BSS

Source Field

76013

Source Section

P_NBSC_DYNAMIC_ABIS

AVERAGE_DL_EDAP_USAGE_SUM

Average usage of DL Dynamic Abis Pool. The value is given as percentage from the total amount of subTSLs in DL EDAP. Note: 076003 is a common/shared counter for 076001 and 076002. UNIT: Percent

Data Source

BSS

Source Field

76001

Source Section

P_NBSC_DYNAMIC_ABIS

AVERAGE_EDAP_USAGE_DEN

Denominator

Data Source

BSS

Source Field

76003

Source Section

P_NBSC_DYNAMIC_ABIS

AVERAGE_UL_EDAP_USAGE_SUM

Average usage of UL Dynamic Abis Pool. The value is given as percentage from the total amount of subTSLs in DL EDAP. Note: 076003 is a common/shared counter for 076001 and 076002. UNIT: Percent

Data Source

BSS

Source Field

76002

Source Section

P_NBSC_DYNAMIC_ABIS

BSSRelease

BSS Release

Data Source

BSS

DL_EDAP_ALLOCATION_REQUESTS

Number of DL EDAP allocation requests.

Data Source

BSS

Source Field

76010

Source Section

P_NBSC_DYNAMIC_ABIS

DL_MCS_LIMITED_BY_PCU

Number of cases when MCS has been limited by the PCU (forexample, DSP resources) in downlink scheduling.

Data Source

BSS

Source Field

76020

Source Section

P_NBSC_DYNAMIC_ABIS

DL_TBFS_WITH_INADEQ_EDAP_RES

Nr of cases where required EDAP ch cannot be granted to DL TBF

Data Source

BSS

Source Field

76008

Source Section

P_NBSC_DYNAMIC_ABIS

DL_TBFS_WITHOUT_EDAP_RES

Nr of cases where scheduled DL TBF that requires EDAP ch cannot use any EDAP ch

Data Source

BSS

Source Field

76007

Source Section

P_NBSC_DYNAMIC_ABIS

DYNAMIC_ABIS_DENOM_UL

Dynamic ABIS Denominator Uplink

Data Source

BSS

Source Field

76018

Source Section

P_NBSC_DYNAMIC_ABIS

PEAK_DL_EDAP_USAGE

Peak usage of 16 kbit/s PCM subTSLs in the dl direction.

Data Source

BSS

Source Field

76004

Source Section

P_NBSC_DYNAMIC_ABIS

PEAK_UL_EDAP_USAGE

Peak usage of 16 kbit/s PCM subTSLs in the ul direction.

Data Source

BSS

Source Field

76005

Source Section

P_NBSC_DYNAMIC_ABIS

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

TOT_NBR_OF_PCM_STS_IN_EDAP_UL

Total number of 16kbit/s PCM subtimeslots in EDAP. Sum of samples.

Data Source

BSS

Source Field

76017

Source Section

P_NBSC_DYNAMIC_ABIS

TOTAL_PCM_SUBTSLs_IN_EDAP

Total number of 16kbit/s PCM subTSLs in the Dynamic Abis Pool.

Data Source

BSS

Source Field

76000

Source Section

P_NBSC_DYNAMIC_ABIS

UL_EDAP_ALLOCATION_REQUESTS

Number of UL EDAP allocation requests.

Data Source

BSS

Source Field

76009

Source Section

P_NBSC_DYNAMIC_ABIS

UL_MCS_LIMITED_BY_PCU

Number of cases when MCS has been limited by the PCU (for example, DSP resources) in uplink scheduling.

Data Source

BSS

Source Field

76019

Source Section

P_NBSC_DYNAMIC_ABIS

UL_TBFS_WITHOUT_EDAP_RES

Nr of cases where scheduled UL TBF cannot be serviced due to lack of EDAP resources.

Data Source

BSS

Source Field

76006

Source Section

P_NBSC_DYNAMIC_ABIS

ACCESS Primitive Calculations

The following is a list of primitive calculations for the ACCESS entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

ACCESS Peg Counts

The following is a list of peg counts for the ACCESS entity.

IE_VLR_LU_REROUTE

It indicates the number of rerouting events of the non-supporting UEs in a MOCN configuration during the Inter-VLR Location Update attempts. Measured object is MCC/MNC/LAC Draft Database Description for MSC M14.1 Measurements

Data Source

MSC

Source Field

M240B1C9

Source Section

RNS_PS_LULAC_ACCESS1_RAW

IMSI_ATTACH_ATTEMPT

Indicates the number of IMSI Attach attempts. Measured object: The measured objects are the MSC, the Mobile Country Code (MCC), the Mobile Network Code (MNC), the different Location Area Codes (LAC) where the measured values came from, and the different access types.

Data Source

MSC

Source Field

M240B1C7

Source Section

RNS_PS_LULAC_ACCESS1_RAW

IMSI_ATTACH_SUCCESS

Indicates the number of successful IMSI Attach events. Measured object: The measured objects are the MSC, the Mobile Country Code (MCC), the Mobile Network Code (MNC), the different Location Area Codes (LAC) where the measured values came from, and the different access types.

Data Source

MSC

Source Field

M240B1C8

Source Section

RNS_PS_LULAC_ACCESS1_RAW

INTER_VLR_LOC_UPDATE_ATTEMPT

Indicates the number of Inter-VLR Location Update attempts. Note that in case of SIP access type field contains '-' as this location update type does not make sense in that case. Measured object: The measured objects are the MSC, the Mobile Country Code (MCC), the Mobile Network Code (MNC), the different Location Area Codes (LAC) where the measured values came from, and the different access types. Draft Database Description for MSC M14.1 Measurements

Data Source

MSC

Source Field

M240B1C3

Source Section

RNS_PS_LULAC_ACCESS1_RAW

INTER_VLR_LOC_UPDATE_SUCCESS

Indicates the number of successful Inter-VLR Location Update events. Note that in case of SIP access type field contains '-' as this location update type does not make sense in that case. Measured object: The measured objects are the MSC, the Mobile Country Code (MCC), the Mobile Network Code (MNC), the different Location Area Codes (LAC) where the measured values came from, and the different access types.

Data Source

MSC

Source Field

M240B1C4

Source Section

RNS_PS_LULAC_ACCESS1_RAW

INTRA_VLR_LOC_UPDATE_ATTEMPT

Indicates the number of Intra-VLR Location Update attempts. Note that in case of SIP access type field contains '-' as this location update type does not make sense in that case. Measured object: The measured objects are the MSC, the Mobile Country Code (MCC), the Mobile

Network Code (MNC), the different Location Area Codes (LAC) where the measured values came from, and the different access types.

Data Source

MSC

Source Field

M240B1C1

Source Section

RNS_PS_LULAC_ACCESS1_RAW

INTRA_VLR_LOC_UPDATE_SUCCESS

Indicates the number of successful Intra-VLR Location Update events. Note that in case of SIP access type field contains '-' as this location update type does not make sense in that case.
Measured object: The measured objects are the MSC, the Mobile Country Code (MCC), the Mobile Network Code (MNC), the different Location Area Codes (LAC) where the measured values came from, and the different access types.

Data Source

MSC

Source Field

M240B1C2

Source Section

RNS_PS_LULAC_ACCESS1_RAW

MSCRelease

MSC Release

Data Source

MSC

PERIODIC_LOC_UPDATE_ATTEMPT

Indicates the number of Periodic Location Update attempts. Measured object: The measured objects are the MSC, the Mobile Country Code (MCC), the Mobile Network Code (MNC), the different Location Area Codes (LAC) where the measured values came from, and the different access types.

Data Source

MSC

Source Field

M240B1C5

Source Section

RNS_PS_LULAC_ACCESS1_RAW

PERIODIC_LOC_UPDATE_SUCCESS

Indicates the number of successful Periodic Location Update events. Measured object: The measured objects are the MSC, the Mobile Country Code (MCC), the Mobile Network Code (MNC), the different Location Area Codes (LAC) where the measured values came from, and the different access types.

Data Source

MSC

Source Field

M240B1C6

Source Section

RNS_PS_LULAC_ACCESS1_RAW

PERLENSC

Measurement collection interval (in seconds)

Data Source

MSC

AnnounceDev Primitive Calculations

The following is a list of primitive calculations for the AnnounceDev entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

AnnounceDev Peg Counts

The following is a list of peg counts for the AnnounceDev entity.

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

VANID_CALLS

Number of announcement attempts (0...65535)

Data Source

MSC

VANID_CONGESTED_CALLS

Number of failed attempts (0...65535)

Data Source

MSC

VANID_INVALID_RECORD

The tag appears at the end of the given counter group with field value 1 when the actual record is invalid.

Data Source

MSC

VANID_LISTENING_TIME

Total duration of finished announcements in seconds (0...65535)

Data Source

MSC

ARP Primitive Calculations

The following is a list of primitive calculations for the ARP entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

1

ARP Peg Counts

The following is a list of peg counts for the ARP entity.

BSSRelease

BSS Release

Data Source

BSS

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

ASSOSET Primitive Calculations

The following is a list of primitive calculations for the ASSOSET entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

ASSOSET Peg Counts

The following is a list of peg counts for the ASSOSET entity.

M3UA_ASSO_SET_UNAVAILABLE

The number of times the association set is unavailable. This field is updated every time the unavailability occurs. If the value is FFFFFFFF, the field is not shown.

Data Source

MSC

Source Field

M661B2C2

Source Section

RNS_PS_M3UAHS_ASSOSET2_RAW

M3UA_ASSO_SET_UNAVAILABLE_TIME

The cumulative duration of the unavailability of the association set in seconds for the whole measurement time from the beginning to current time. If the value is FFFFFFFF, the field is not shown.

Data Source

MSC

Source Field

M661B2C1

Source Section

RNS_PS_M3UAHS_ASSOSET2_RAW

MSCRelease

MSC Release

Data Source

MSC

NotReliable

If counter is sent with value 1 it means that counters for different events and the counters in GENERAL DATA and LINK RELATED POINTERS part are not reliable

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

ASSOSET_INDEX Primitive Calculations

The following is a list of primitive calculations for the ASSOSET_INDEX entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

ASSOSET_INDEX Peg Counts

The following is a list of peg counts for the ASSOSET_INDEX entity.

M3UA_CUMUL_UNAVAILABLE_TIME

The cumulative duration of the unavailability of the association index in seconds for the whole measurement time from the beginning to current time. If the value is FFFFFFFF, the field is not shown.

Data Source

MSC

Source Field

M661B3C1

Source Section

RNS_PS_M3UAMI ASSOIND1_RAW

M3UA_MESSAGES_RECEIVED

The number of received messages on the M3UA association. If the value is FFFFFFFF, the field is not shown.

Data Source

MSC

Source Field

M661B3C3

Source Section

RNS_PS_M3UAMI ASSOIND1_RAW

M3UA_MESSAGES_SENT

The number of sent messages on the M3UA association. If the value is FFFFFFFF, the field is not shown.

Data Source

MSC

Source Field

M661B3C4

Source Section

RNS_PS_M3UAMI ASSOIND1_RAW

M3UA_OCTETS_RECEIVED

The number of octets received on the M3UA association. It includes the M3UA header and the M3UA payload. If the value is FFFFFFFF, the field is not shown

Data Source

MSC

Source Field

M661B3C5

Source Section

RNS_PS_M3UAMI ASSOIND1_RAW

M3UA_OCTETS_SENT

The number of octets sent on the M3UA association. It includes the M3UA header and the M3UA payload. If the value is FFFFFFFF, the field is not shown.

Data Source

MSC

Source Field

M661B3C6

Source Section

RNS_PS_M3UAMI ASSOIND1_RAW

M3UA_SCTP_DUPLICATED_TSN

The number of duplicated TSN received on SCTP per M3UA association. If the value is FFFFFFFF, the field is not shown.

Data Source

MSC

Source Field

M661B4C6

Source Section

RNS_PS_M3UAMI ASSOIND1_RAW

M3UA_SCTP_OCTETS_RECEIVED

The number of octets received on SCTP per M3UA association. It includes the SCTP header and the SCTP payload. If the value is FFFFFFFF, the field is not shown.

Data Source

MSC

Source Field

M661B4C3

Source Section

RNS_PS_M3UAMI ASSOIND1_RAW

M3UA_SCTP_OCTETS_SENT

The number of octets sent on SCTP per M3UA association. It includes the SCTP header, the SCTP payload, and the octets of retransmitted packets. If the value is FFFFFFFF, the field is not shown.

Data Source

MSC

Source Field

M661B4C4

Source Section

RNS_PS_M3UAMI ASSOIND1_RAW

M3UA_SCTP_PACKETS_RECEIVED

The number of packets received on SCTP per M3UA association. If the value is FFFFFFFF, the field is not shown.

Data Source

MSC

Source Field

M661B4C1

Source Section

RNS_PS_M3UAMI ASSOIND1_RAW

M3UA_SCTP_PACKETS_RETRANSMIT

The number of packets retransmitted on SCTP per M3UA association. If the value is FFFFFFFF, the field is not shown.

Data Source

MSC

Source Field

M661B4C5

Source Section

RNS_PS_M3UAMI ASSOIND1_RAW

M3UA_SCTP_PACKETS_SENT

The number of packets sent on SCTP per M3UA association. If the value is FFFFFFFF, the field is not shown.

Data Source

MSC

Source Field

M661B4C2

Source Section

RNS_PS_M3UAMI ASSOIND1_RAW

M3UA_UNAVAILABLE

The number of times the association index is unavailable. This field is updated every time the unavailability occurs. If the value is FFFFFFFF, the field is not shown.

Data Source

MSC

Source Field

M661B3C2

Source Section

RNS_PS_M3UAMI ASSOIND1_RAW

MSCRelease

MSC Release

Data Source

MSC

NotReliable

If counter is sent with value 1 it means that counters for different events and the counters in GENERAL DATA and LINK RELATED POINTERS part are not reliable

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

BCF Primitive Calculations

The following is a list of primitive calculations for the BCF entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

1

BCF Peg Counts

The following is a list of peg counts for the BCF entity.

BSSRelease

BSS Release

Data Source

BSS

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

Bearer Primitive Calculations

The following is a list of primitive calculations for the Bearer entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

Bearer Peg Counts

The following is a list of peg counts for the Bearer entity.

BEAR_CHANGED_UNOPER

Number of times the bearer is changed unoperational.

Data Source

BSS

Source Field

74006

Source Section

P_NBSC_FRAME_RELAY

BEAR_RET_OPER

Number of times the bearer returns operational.

Data Source

BSS

Source Field

74007

Source Section

P_NBSC_FRAME_RELAY

BSSRelease

BSS Release

Data Source

BSS

DLCI_1_BYTES_DISC_REC

DLCI1 Number of bytes indiscarded received frames.

Data Source

BSS

Source Field

74019

Source Section

P_NBSC_FRAME_RELAY

DLCI_1_BYTES_DISC_SENT

DLCI 1 Number of bytes in the discarded sent frames.

Data Source

BSS

Source Field

74017

Source Section

P_NBSC_FRAME_RELAY

DLCI_1_BYTES_REC

DLCI 1 Number of bytes in the received frames.

Data Source

BSS

Source Field

74015

Source Section

P_NBSC_FRAME_RELAY

DLCI_1_BYTES_SENT

DLCI 1 Number of bytes in the sent frames.

Data Source

BSS

Source Field

74013

Source Section

P_NBSC_FRAME_RELAY

DLCI_1_DISC_REC_FRMS

DLCI 1 Number of the discarded received frames.

Data Source

BSS

Source Field

74018

Source Section

P_NBSC_FRAME_RELAY

DLCI_1_DISC_SENT_FRMS

DLCI 1 Number of the discarded sent frames.

Data Source

BSS

Source Field

74016

Source Section

P_NBSC_FRAME_RELAY

DLCI_1_DISC_UL_NS_UDATA

DLCI 1 Number of discarded uplink NS unitdata in bytes.

Data Source

BSS

Source Field

74022

Source Section

P_NBSC_FRAME_RELAY

DLCI_1_ID

Identification of a PVC. The value is FFFFFFFF (hex) if the PVC is not used.

Data Source

BSS

Source Field

74011

Source Section

P_NBSC_FRAME_RELAY

DLCI_1_INACTIVITY_TIME

DLCI 1 Inactivity time.

Data Source

BSS

Source Field

74021

Source Section

P_NBSC_FRAME_RELAY

DLCI_1_REC_FRMS

DLCI 1 Number of the received frames.

Data Source

BSS

Source Field

74014

Source Section

P_NBSC_FRAME_RELAY

DLCI_1_SENT_FRMS

DLCI 1 Number of the sent frames.

Data Source

BSS

Source Field

74012

Source Section

P_NBSC_FRAME_RELAY

DLCI_1_STAT_ACT_TO_INACT

DLCI 1 Number of the DLCI status changes from active to inactive.

Data Source

BSS

Source Field

74020

Source Section

P_NBSC_FRAME_RELAY

DLCI_10_BYTES_DISC_REC

DLCI 10: Number of bytes in discarded received frames. The value of this counter is irrelevant if counter 074119 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74127

Source Section

P_NBSC_FRAME_RELAY

DLCI_10_BYTES_DISC_SENT

DLCI 10: Number of bytes in the discarded sent frames. The value of this counter is irrelevant if the counter 074119 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74125

Source Section

P_NBSC_FRAME_RELAY

DLCI_10_BYTES_REC

DLCI 10: Number of kilobytes in the received frames. The value of this counter is irrelevant if the counter 074119 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74123

Source Section

P_NBSC_FRAME_RELAY

DLCI_10_BYTES_SENT

DLCI 10: Number of kilobytes in the sent frames. The value of this counter is irrelevant if the counter 074119 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74121

Source Section

P_NBSC_FRAME_RELAY

DLCI_10_DISC_REC_FRMS

DLCI 10: Number of discarded received frames. The value of this counter is irrelevant if the counter 074119 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74126

Source Section

P_NBSC_FRAME_RELAY

DLCI_10_DISC_SENT_FRMS

DLCI 10: Number of discarded sent frames. The value of this counter is irrelevant if counter 074119 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74124

Source Section

P_NBSC_FRAME_RELAY

DLCI_10_DISC_UL_NS_UDATA

DLCI 10: Number of discarded uplink NS unit data in bytes. The value of this counter is irrelevant if the counter 074119 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74130

Source Section

P_NBSC_FRAME_RELAY

DLCI_10_ID

DLCI 10: Identification of a PVC. Value is FFFFFFFF (hex) if the PVC is not used.

Data Source

BSS

Source Field

74119

Source Section

P_NBSC_FRAME_RELAY

DLCI_10_INACTIVITY_TIME

DLCI 10: Inactivity time. The value of this counter is irrelevant if the counter 074119 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74129

Source Section

P_NBSC_FRAME_RELAY

DLCI_10_REC_FRMS

DLCI 10: Number of received frames. The value of this counter is irrelevant if the counter 074119 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74122

Source Section

P_NBSC_FRAME_RELAY

DLCI_10_SENT_FRMS

DLCI 10: Number of sent frames. The value of this counter is irrelevant if the counter 074119 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74120

Source Section

P_NBSC_FRAME_RELAY

DLCI_10_STAT_ACT_TO_INACT

DLCI 10: Number of the DLCI status changes from active to inactive. The value of this counter is irrelevant if the counter 074119 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74128

Source Section

P_NBSC_FRAME_RELAY

DLCI_11_BYTES_DISC_REC

DLCI 11: Number of bytes in discarded received frames. The value of this counter is irrelevant if counter 074131 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74139

Source Section

P_NBSC_FRAME_RELAY

DLCI_11_BYTES_DISC_SENT

DLCI 11: Number of bytes in the discarded sent frames. The value of this counter is irrelevant if the counter 074131 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74137

Source Section

P_NBSC_FRAME_RELAY

DLCI_11_BYTES_REC

DLCI 11: Number of kilobytes in the received frames. The value of this counter is irrelevant if the counter 074131 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74135

Source Section

P_NBSC_FRAME_RELAY

DLCI_11_BYTES_SENT

DLCI 11: Number of kilobytes in the sent frames. The value of this counter is irrelevant if the counter 074131 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74133

Source Section

P_NBSC_FRAME_RELAY

DLCI_11_DISC_REC_FRMS

DLCI 11: Number of discarded received frames. The value of this counter is irrelevant if the counter 074131 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74138

Source Section

P_NBSC_FRAME_RELAY

DLCI_11_DISC_SENT_FRMS

DLCI 11: Number of discarded sent frames. The value of this counter is irrelevant if counter 074131 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74136

Source Section

P_NBSC_FRAME_RELAY

DLCI_11_DISC_UL_NS_UDATA

DLCI 11: Number of discarded uplink NS unit data in bytes. The value of this counter is irrelevant if the counter 074131 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74142

Source Section

P_NBSC_FRAME_RELAY

DLCI_11_ID

DLCI 11: Identification of a PVC. Value is FFFFFFFF (hex) if the PVC is not used.

Data Source

BSS

Source Field

74131

Source Section

P_NBSC_FRAME_RELAY

DLCI_11_INACTIVITY_TIME

DLCI 11: Inactivity time. The value of this counter is irrelevant if the counter 074131 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74141

Source Section

P_NBSC_FRAME_RELAY

DLCI_11_REC_FRMS

DLCI 11: Number of received frames. The value of this counter is irrelevant if the counter 074131 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74134

Source Section

P_NBSC_FRAME_RELAY

DLCI_11_SENT_FRMS

DLCI 11: Number of sent frames. The value of this counter is irrelevant if the counter 074131 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74132

Source Section

P_NBSC_FRAME_RELAY

DLCI_11_STAT_ACT_TO_INACT

DLCI 11: Number of the DLCI status changes from active to inactive. The value of this counter is irrelevant if the counter 074131 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74140

Source Section

P_NBSC_FRAME_RELAY

DLCI_12_BYTES_DISC_REC

DLCI 12: Number of bytes in discarded received frames. The value of this counter is irrelevant if counter 074143 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74151

Source Section

P_NBSC_FRAME_RELAY

DLCI_12_BYTES_DISC_SENT

DLCI 12: Number of bytes in the discarded sent frames. The value of this counter is irrelevant if the counter 074143 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74149

Source Section

P_NBSC_FRAME_RELAY

DLCI_12_BYTES_REC

DLCI 12: Number of kilobytes in the received frames. The value of this counter is irrelevant if the counter 074143 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74147

Source Section

P_NBSC_FRAME_RELAY

DLCI_12_BYTES_SENT

DLCI 12: Number of kilobytes in the sent frames. The value of this counter is irrelevant if the counter 074143 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74145

Source Section

P_NBSC_FRAME_RELAY

DLCI_12_DISC_REC_FRMS

DLCI 12: Number of discarded received frames. The value of this counter is irrelevant if the counter 074143 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74150

Source Section

P_NBSC_FRAME_RELAY

DLCI_12_DISC_SENT_FRMS

DLCI 12: Number of discarded sent frames. The value of this counter is irrelevant if counter 074143 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74148

Source Section

P_NBSC_FRAME_RELAY

DLCI_12_DISC_UL_NS_UDATA

DLCI 12: Number of discarded uplink NS unit data in bytes. The value of this counter is irrelevant if the counter 074143 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74154

Source Section

P_NBSC_FRAME_RELAY

DLCI_12_ID

DLCI 12: Identification of a PVC. Value is FFFFFFFF (hex) if the PVC is not used.

Data Source

BSS

Source Field

74143

Source Section

P_NBSC_FRAME_RELAY

DLCI_12_INACTIVITY_TIME

DLCI 12: Inactivity time. The value of this counter is irrelevant if the counter 074143 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74153

Source Section

P_NBSC_FRAME_RELAY

DLCI_12_REC_FRMS

DLCI 12: Number of received frames. The value of this counter is irrelevant if the counter 074143 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74146

Source Section

P_NBSC_FRAME_RELAY

DLCI_12_SENT_FRMS

DLCI 12: Number of sent frames. The value of this counter is irrelevant if the counter 074143 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74144

Source Section

P_NBSC_FRAME_RELAY

DLCI_12_STAT_ACT_TO_INACT

DLCI 12: Number of the DLCI status changes from active to inactive. The value of this counter is irrelevant if the counter 074143 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74152

Source Section

P_NBSC_FRAME_RELAY

DLCI_13_BYTES_DISC_REC

DLCI 13: Number of bytes in discarded received frames. The value of this counter is irrelevant if counter 074155 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74163

Source Section

P_NBSC_FRAME_RELAY

DLCI_13_BYTES_DISC_SENT

DLCI 13: Number of bytes in the discarded sent frames. The value of this counter is irrelevant if the counter 074155 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74161

Source Section

P_NBSC_FRAME_RELAY

DLCI_13_BYTES_REC

DLCI 13: Number of kilobytes in the received frames. The value of this counter is irrelevant if the counter 074155 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74159

Source Section

P_NBSC_FRAME_RELAY

DLCI_13_BYTES_SENT

DLCI 13: Number of kilobytes in the sent frames. The value of this counter is irrelevant if the counter 074155 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74157

Source Section

P_NBSC_FRAME_RELAY

DLCI_13_DISC_REC_FRMS

DLCI 13: Number of discarded received frames. The value of this counter is irrelevant if the counter 074155 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74162

Source Section

P_NBSC_FRAME_RELAY

DLCI_13_DISC_SENT_FRMS

DLCI 13: Number of discarded sent frames. The value of this counter is irrelevant if counter 074155 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74160

Source Section

P_NBSC_FRAME_RELAY

DLCI_13_DISC_UL_NS_UDATA

DLCI 13: Number of discarded uplink NS unit data in bytes. The value of this counter is irrelevant if the counter 074155 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74166

Source Section

P_NBSC_FRAME_RELAY

DLCI_13_ID

DLCI 13: Identification of a PVC. Value is FFFFFFFF (hex) if the PVC is not used.

Data Source

BSS

Source Field

74155

Source Section

P_NBSC_FRAME_RELAY

DLCI_13_INACTIVITY_TIME

DLCI 13: Inactivity time. The value of this counter is irrelevant if the counter 074155 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74165

Source Section

P_NBSC_FRAME_RELAY

DLCI_13_REC_FRMS

DLCI 13: Number of received frames. The value of this counter is irrelevant if the counter 074155 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74158

Source Section

P_NBSC_FRAME_RELAY

DLCI_13_SENT_FRMS

DLCI 13: Number of sent frames. The value of this counter is irrelevant if the counter 074155 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74156

Source Section

P_NBSC_FRAME_RELAY

DLCI_13_STAT_ACT_TO_INACT

DLCI 13: Number of the DLCI status changes from active to inactive. The value of this counter is irrelevant if the counter 074155 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74164

Source Section

P_NBSC_FRAME_RELAY

DLCI_14_BYTES_DISC_REC

DLCI 14: Number of bytes in discarded received frames. The value of this counter is irrelevant if counter 074167 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74175

Source Section

P_NBSC_FRAME_RELAY

DLCI_14_BYTES_DISC_SENT

DLCI 14: Number of bytes in the discarded sent frames. The value of this counter is irrelevant if the counter 074167 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74173

Source Section

P_NBSC_FRAME_RELAY

DLCI_14_BYTES_REC

DLCI 14: Number of kilobytes in the received frames. The value of this counter is irrelevant if the counter 074167 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74171

Source Section

P_NBSC_FRAME_RELAY

DLCI_14_BYTES_SENT

DLCI 14: Number of kilobytes in the sent frames. The value of this counter is irrelevant if the counter 074167 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74169

Source Section

P_NBSC_FRAME_RELAY

DLCI_14_DISC_REC_FRMS

DLCI 14: Number of discarded received frames. The value of this counter is irrelevant if the counter 074167 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74174

Source Section

P_NBSC_FRAME_RELAY

DLCI_14_DISC_SENT_FRMS

DLCI 14: Number of discarded sent frames. The value of this counter is irrelevant if counter 074167 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74172

Source Section

P_NBSC_FRAME_RELAY

DLCI_14_DISC_UL_NS_UDATA

DLCI 14: Number of discarded uplink NS unit data in bytes. The value of this counter is irrelevant if the counter 074167 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74178

Source Section

P_NBSC_FRAME_RELAY

DLCI_14_ID

DLCI 14: Identification of a PVC. Value is FFFFFFFF (hex) if the PVC is not used.

Data Source

BSS

Source Field

74167

Source Section

P_NBSC_FRAME_RELAY

DLCI_14_INACTIVITY_TIME

DLCI 14: Inactivity time. The value of this counter is irrelevant if the counter 074167 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74177

Source Section

P_NBSC_FRAME_RELAY

DLCI_14_REC_FRMS

DLCI 14: Number of received frames. The value of this counter is irrelevant if the counter 074167 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74170

Source Section

P_NBSC_FRAME_RELAY

DLCI_14_SENT_FRMS

DLCI 14: Number of sent frames. The value of this counter is irrelevant if the counter 074167 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74168

Source Section

P_NBSC_FRAME_RELAY

DLCI_14_STAT_ACT_TO_INACT

DLCI 14: Number of the DLCI status changes from active to inactive. The value of this counter is irrelevant if the counter 074167 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74176

Source Section

P_NBSC_FRAME_RELAY

DLCI_15_BYTES_DISC_REC

DLCI 15: Number of bytes in discarded received frames. The value of this counter is irrelevant if counter 074179 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74187

Source Section

P_NBSC_FRAME_RELAY

DLCI_15_BYTES_DISC_SENT

DLCI 15: Number of bytes in the discarded sent frames. The value of this counter is irrelevant if the counter 074179 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74185

Source Section

P_NBSC_FRAME_RELAY

DLCI_15_BYTES_REC

DLCI 15: Number of kilobytes in the received frames. The value of this counter is irrelevant if the counter 074179 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74183

Source Section

P_NBSC_FRAME_RELAY

DLCI_15_BYTES_SENT

DLCI 15: Number of kilobytes in the sent frames. The value of this counter is irrelevant if the counter 074179 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74181

Source Section

P_NBSC_FRAME_RELAY

DLCI_15_DISC_REC_FRMS

DLCI 15: Number of discarded received frames. The value of this counter is irrelevant if the counter 074179 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74186

Source Section

P_NBSC_FRAME_RELAY

DLCI_15_DISC_SENT_FRMS

DLCI 15: Number of discarded sent frames. The value of this counter is irrelevant if counter 074179 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74184

Source Section

P_NBSC_FRAME_RELAY

DLCI_15_DISC_UL_NS_UDATA

DLCI 15: Number of discarded uplink NS unit data in bytes. The value of this counter is irrelevant if the counter 074179 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74190

Source Section

P_NBSC_FRAME_RELAY

DLCI_15_ID

DLCI 15: Identification of a PVC. Value is FFFFFFFF (hex) if the PVC is not used.

Data Source

BSS

Source Field

74179

Source Section

P_NBSC_FRAME_RELAY

DLCI_15_INACTIVITY_TIME

DLCI 15: Inactivity time. The value of this counter is irrelevant if the counter 074179 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74189

Source Section

P_NBSC_FRAME_RELAY

DLCI_15_REC_FRMS

DLCI 15: Number of received frames. The value of this counter is irrelevant if the counter 074179 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74182

Source Section

P_NBSC_FRAME_RELAY

DLCI_15_SENT_FRMS

DLCI 15: Number of sent frames. The value of this counter is irrelevant if the counter 074179 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74180

Source Section

P_NBSC_FRAME_RELAY

DLCI_15_STAT_ACT_TO_INACT

DLCI 15: Number of the DLCI status changes from active to inactive. The value of this counter is irrelevant if the counter 074179 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74188

Source Section

P_NBSC_FRAME_RELAY

DLCI_16_BYTES_DISC_REC

DLCI 16: Number of bytes in discarded received frames. The value of this counter is irrelevant if counter 074191 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74199

Source Section

P_NBSC_FRAME_RELAY

DLCI_16_BYTES_DISC_SENT

DLCI 16: Number of bytes in the discarded sent frames. The value of this counter is irrelevant if the counter 074191 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74197

Source Section

P_NBSC_FRAME_RELAY

DLCI_16_BYTES_REC

DLCI 16: Number of kilobytes in the received frames. The value of this counter is irrelevant if the counter 074191 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74195

Source Section

P_NBSC_FRAME_RELAY

DLCI_16_BYTES_SENT

DLCI 16: Number of kilobytes in the sent frames. The value of this counter is irrelevant if the counter 074191 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74193

Source Section

P_NBSC_FRAME_RELAY

DLCI_16_DISC_REC_FRMS

DLCI 16: Number of discarded received frames. The value of this counter is irrelevant if the counter 074191 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74198

Source Section

P_NBSC_FRAME_RELAY

DLCI_16_DISC_SENT_FRMS

DLCI 16: Number of discarded sent frames. The value of this counter is irrelevant if counter 074191 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74196

Source Section

P_NBSC_FRAME_RELAY

DLCI_16_DISC_UL_NS_UDATA

DLCI 16: Number of discarded uplink NS unit data in bytes. The value of this counter is irrelevant if the counter 074191 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74202

Source Section

P_NBSC_FRAME_RELAY

DLCI_16_ID

DLCI 16: Identification of a PVC. Value is FFFFFFFF (hex) if the PVC is not used.

Data Source

BSS

Source Field

74191

Source Section

P_NBSC_FRAME_RELAY

DLCI_16_INACTIVITY_TIME

DLCI 16: Inactivity time. The value of this counter is irrelevant if the counter 074191 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74201

Source Section

P_NBSC_FRAME_RELAY

DLCI_16_REC_FRMS

DLCI 16: Number of received frames. The value of this counter is irrelevant if the counter 074191 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74194

Source Section

P_NBSC_FRAME_RELAY

DLCI_16_SENT_FRMS

DLCI 16: Number of sent frames. The value of this counter is irrelevant if the counter 074191 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74192

Source Section

P_NBSC_FRAME_RELAY

DLCI_16_STAT_ACT_TO_INACT

DLCI 16: Number of the DLCI status changes from active to inactive. The value of this counter is irrelevant if the counter 074191 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74200

Source Section

P_NBSC_FRAME_RELAY

DLCI_2_BYTES_DISC_REC

DLCI 2 Number of bytes in discarded received frames.

Data Source

BSS

Source Field

74031

Source Section

P_NBSC_FRAME_RELAY

DLCI_2_BYTES_DISC_SENT

DLCI 2 Number of bytes in the discarded sent frames.

Data Source

BSS

Source Field

74029

Source Section

P_NBSC_FRAME_RELAY

DLCI_2_BYTES_REC

DLCI 2 Number of bytes in the received frames.

Data Source

BSS

Source Field

74027

Source Section

P_NBSC_FRAME_RELAY

DLCI_2_BYTES_SENT

DLCI 2 Number of bytes in the sent frames.

Data Source

BSS

Source Field

74025

Source Section

P_NBSC_FRAME_RELAY

DLCI_2_DISC_REC_FRMS

DLCI 2 Number of the discarded received frames.

Data Source

BSS

Source Field

74030

Source Section

P_NBSC_FRAME_RELAY

DLCI_2_DISC_SENT_FRMS

DLCI 2 Number of the discarded sent frames.

Data Source

BSS

Source Field

74028

Source Section

P_NBSC_FRAME_RELAY

DLCI_2_DISC_UL_NS_UDATA

DLCI 2 Number of discarded uplink NS unitdata in bytes.

Data Source

BSS

Source Field

74034

Source Section

P_NBSC_FRAME_RELAY

DLCI_2_ID

Identification of a PVC. The value is FFFFFFFF (hex) if the PVC is not used.

Data Source

BSS

Source Field

74023

Source Section

P_NBSC_FRAME_RELAY

DLCI_2_INACTIVITY_TIME

DLCI 2 Inactivity time.

Data Source

BSS

Source Field

74033

Source Section

P_NBSC_FRAME_RELAY

DLCI_2_REC_FRMS

DLCI 2 Number of the received frames.

Data Source

BSS

Source Field

74026

Source Section

P_NBSC_FRAME_RELAY

DLCI_2_SENT_FRMS

DLCI 2 Number of the sent frames.

Data Source

BSS

Source Field

74024

Source Section

P_NBSC_FRAME_RELAY

DLCI_2_STAT_ACT_TO_INACT

DLCI 2 Number of the DLCI status changes from active to inactive.

Data Source

BSS

Source Field

74032

Source Section

P_NBSC_FRAME_RELAY

DLCI_3_BYTES_DISC_REC

DLCI 3 Number of bytes indiscarded received frames.

Data Source

BSS

Source Field

74043

Source Section

P_NBSC_FRAME_RELAY

DLCI_3_BYTES_DISC_SENT

DLCI 3 Number of bytes in the discarded sent frames.

Data Source

BSS

Source Field

74041

Source Section

P_NBSC_FRAME_RELAY

DLCI_3_BYTES_REC

DLCI 3 Number of bytes in the received frames.

Data Source

BSS

Source Field

74039

Source Section

P_NBSC_FRAME_RELAY

DLCI_3_BYTES_SENT

DLCI 3 Number of bytes in the sent frames.

Data Source

BSS

Source Field

74037

Source Section

P_NBSC_FRAME_RELAY

DLCI_3_DISC_REC_FRMS

DLCI 3 Number of the discarded received frames.

Data Source

BSS

Source Field

74042

Source Section

P_NBSC_FRAME_RELAY

DLCI_3_DISC_SENT_FRMS

DLCI 3 Number of the discarded sent frames.

Data Source

BSS

Source Field

74040

Source Section

P_NBSC_FRAME_RELAY

DLCI_3_DISC_UL_NS_UDATA

DLCI 3 Number of discarded uplink NS unitdata in bytes.

Data Source

BSS

Source Field

74046

Source Section

P_NBSC_FRAME_RELAY

DLCI_3_ID

Identification of a PVC. The value is FFFFFFFF (hex) if the PVC is not used.

Data Source

BSS

Source Field

74035

Source Section

P_NBSC_FRAME_RELAY

DLCI_3_INACTIVITY_TIME

DLCI 3 Inactivity time.

Data Source

BSS

Source Field

74045

Source Section

P_NBSC_FRAME_RELAY

DLCI_3_REC_FRMS

DLCI 3 Number of the received frames.

Data Source

BSS

Source Field

74038

Source Section

P_NBSC_FRAME_RELAY

DLCI_3_SENT_FRMS

DLCI 3 Number of the sent frames.

Data Source

BSS

Source Field

74036

Source Section

P_NBSC_FRAME_RELAY

DLCI_3_STAT_ACT_TO_INACT

DLCI 3 Number of the DLCI status changes from active to inactive.

Data Source

BSS

Source Field

74044

Source Section

P_NBSC_FRAME_RELAY

DLCI_4_BYTES_DISC_REC

DLCI 4 Number of bytes indiscarded received frames.

Data Source

BSS

Source Field

74055

Source Section

P_NBSC_FRAME_RELAY

DLCI_4_BYTES_DISC_SENT

DLCI 4 Number of bytes in the discarded sent frames.

Data Source

BSS

Source Field

74053

Source Section

P_NBSC_FRAME_RELAY

DLCI_4_BYTES_REC

DLCI 4 Number of bytes in the received frames.

Data Source

BSS

Source Field

74051

Source Section

P_NBSC_FRAME_RELAY

DLCI_4_BYTES_SENT

DLCI 4 Number of bytes in the sent frames.

Data Source

BSS

Source Field

74049

Source Section

P_NBSC_FRAME_RELAY

DLCI_4_DISC_REC_FRMS

DLCI 4 Number of the discarded received frames.

Data Source

BSS

Source Field

74054

Source Section

P_NBSC_FRAME_RELAY

DLCI_4_DISC_SENT_FRMS

DLCI 4 Number of the discarded sent frames.

Data Source

BSS

Source Field

74052

Source Section

P_NBSC_FRAME_RELAY

DLCI_4_DISC_UL_NS_UDATA

DLCI 4 Number of discarded uplink NS unitdata in bytes.

Data Source

BSS

Source Field

74058

Source Section

P_NBSC_FRAME_RELAY

DLCI_4_ID

Identification of a PVC. The value is FFFFFFFF (hex) if the PVC is not used.

Data Source

BSS

Source Field

74047

Source Section

P_NBSC_FRAME_RELAY

DLCI_4_INACTIVITY_TIME

DLCI 4 Inactivity time.

Data Source

BSS

Source Field

74057

Source Section

P_NBSC_FRAME_RELAY

DLCI_4_REC_FRMS

DLCI 4 Number of the received frames.

Data Source

BSS

Source Field

74050

Source Section

P_NBSC_FRAME_RELAY

DLCI_4_SENT_FRMS

DLCI 4 Number of the sent frames.

Data Source

BSS

Source Field

74048

Source Section

P_NBSC_FRAME_RELAY

DLCI_4_STAT_ACT_TO_INACT

DLCI 4 Number of the DLCI status changes from active to inactive.

Data Source

BSS

Source Field

74056

Source Section

P_NBSC_FRAME_RELAY

DLCI_5_BYTES_DISC_REC

DLCI 5 Number of bytes indiscarded received frames.

Data Source

BSS

Source Field

74067

Source Section

P_NBSC_FRAME_RELAY

DLCI_5_BYTES_DISC_SENT

DLCI 5 Number of bytes in the discarded sent frames.

Data Source

BSS

Source Field

74065

Source Section

P_NBSC_FRAME_RELAY

DLCI_5_BYTES_REC

DLCI 5 Number of bytes in the received frames.

Data Source

BSS

Source Field

74063

Source Section

P_NBSC_FRAME_RELAY

DLCI_5_BYTES_SENT

DLCI 5 Number of bytes in the sent frames.

Data Source

BSS

Source Field

74061

Source Section

P_NBSC_FRAME_RELAY

DLCI_5_DISC_REC_FRMS

DLCI 5 Number of the discarded received frames.

Data Source

BSS

Source Field

74066

Source Section

P_NBSC_FRAME_RELAY

DLCI_5_DISC_SENT_FRMS

DLCI 5 Number of the discarded sent frames.

Data Source

BSS

Source Field

74064

Source Section

P_NBSC_FRAME_RELAY

DLCI_5_DISC_UL_NS_UDATA

DLCI 5 Number of discarded uplink NS unitdata in bytes.

Data Source

BSS

Source Field

74070

Source Section

P_NBSC_FRAME_RELAY

DLCI_5_ID

Identification of a PVC. The value is FFFFFFFF (hex) if the PVC is not used.

Data Source

BSS

Source Field

74059

Source Section

P_NBSC_FRAME_RELAY

DLCI_5_INACTIVITY_TIME

DLCI 5 Inactivity time.

Data Source

BSS

Source Field

74069

Source Section

P_NBSC_FRAME_RELAY

DLCI_5_REC_FRMS

DLCI 5 Number of the received frames.

Data Source

BSS

Source Field

74062

Source Section

P_NBSC_FRAME_RELAY

DLCI_5_SENT_FRMS

DLCI 5 Number of the sent frames.

Data Source

BSS

Source Field

74060

Source Section

P_NBSC_FRAME_RELAY

DLCI_5_STAT_ACT_TO_INACT

DLCI 5 Number of the DLCI status changes from active to inactive.

Data Source

BSS

Source Field

74068

Source Section

P_NBSC_FRAME_RELAY

DLCI_6_BYTES_DISC_REC

DLCI 6: Number of bytes in discarded received frames. The value of this counter is irrelevant if counter 074011 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74079

Source Section

P_NBSC_FRAME_RELAY

DLCI_6_BYTES_DISC_SENT

DLCI 6: Number of bytes in the discarded sent frames. The value of this counter is irrelevant if the counter 074011 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74077

Source Section

P_NBSC_FRAME_RELAY

DLCI_6_BYTES_REC

DLCI 6: Number of kilobytes in the received frames. The value of this counter is irrelevant if the counter 074011 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74075

Source Section

P_NBSC_FRAME_RELAY

DLCI_6_BYTES_SENT

DLCI 6: Number of kilobytes in the sent frames. The value of this counter is irrelevant if the counter 074011 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74073

Source Section

P_NBSC_FRAME_RELAY

DLCI_6_DISC_REC_FRMS

DLCI 6: Number of discarded received frames. The value of this counter is irrelevant if the counter 074011 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74078

Source Section

P_NBSC_FRAME_RELAY

DLCI_6_DISC_SENT_FRMS

DLCI 6: Number of discarded sent frames. The value of this counter is irrelevant if counter 074011 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74076

Source Section

P_NBSC_FRAME_RELAY

DLCI_6_DISC_UL_NS_UDATA

DLCI 6: Number of discarded uplink NS unit data in bytes. The value of this counter is irrelevant if the counter 074011 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74082

Source Section

P_NBSC_FRAME_RELAY

DLCI_6_ID

DLCI 6: Identification of a PVC. Value is FFFFFFFF (hex) if the PVC is not used.

Data Source

BSS

Source Field

74071

Source Section

P_NBSC_FRAME_RELAY

DLCI_6_INACTIVITY_TIME

DLCI 6: Inactivity time. The value of this counter is irrelevant if the counter 074011 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74081

Source Section

P_NBSC_FRAME_RELAY

DLCI_6_REC_FRMS

DLCI 6: Number of received frames. The value of this counter is irrelevant if the counter 074011 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74074

Source Section

P_NBSC_FRAME_RELAY

DLCI_6_SENT_FRMS

DLCI 6: Number of sent frames. The value of this counter is irrelevant if the counter 074011 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74072

Source Section

P_NBSC_FRAME_RELAY

DLCI_6_STAT_ACT_TO_INACT

DLCI 6: Number of the DLCI status changes from active to inactive. The value of this counter is irrelevant if the counter 074011 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74080

Source Section

P_NBSC_FRAME_RELAY

DLCI_7_BYTES_DISC_REC

DLCI 7: Number of bytes in discarded received frames. The value of this counter is irrelevant if counter 074083 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74091

Source Section

P_NBSC_FRAME_RELAY

DLCI_7_BYTES_DISC_SENT

DLCI 7: Number of bytes in the discarded sent frames. The value of this counter is irrelevant if the counter 074083 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74089

Source Section

P_NBSC_FRAME_RELAY

DLCI_7_BYTES_REC

DLCI 7: Number of kilobytes in the received frames. The value of this counter is irrelevant if the counter 074083 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74087

Source Section

P_NBSC_FRAME_RELAY

DLCI_7_BYTES_SENT

DLCI 7: Number of kilobytes in the sent frames. The value of this counter is irrelevant if the counter 074083 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74085

Source Section

P_NBSC_FRAME_RELAY

DLCI_7_DISC_REC_FRMS

DLCI 7: Number of discarded received frames. The value of this counter is irrelevant if the counter 074083 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74090

Source Section

P_NBSC_FRAME_RELAY

DLCI_7_DISC_SENT_FRMS

DLCI 7: Number of discarded sent frames. The value of this counter is irrelevant if counter 074083 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74088

Source Section

P_NBSC_FRAME_RELAY

DLCI_7_DISC_UL_NS_UDATA

DLCI 7: Number of discarded uplink NS unit data in bytes. The value of this counter is irrelevant if the counter 074083 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74094

Source Section

P_NBSC_FRAME_RELAY

DLCI_7_ID

DLCI 7: Identification of a PVC. Value is FFFFFFFF (hex) if the PVC is not used.

Data Source

BSS

Source Field

74083

Source Section

P_NBSC_FRAME_RELAY

DLCI_7_INACTIVITY_TIME

DLCI 7: Inactivity time. The value of this counter is irrelevant if the counter 074083 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74093

Source Section

P_NBSC_FRAME_RELAY

DLCI_7_REC_FRMS

DLCI 7: Number of received frames. The value of this counter is irrelevant if the counter 074083 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74086

Source Section

P_NBSC_FRAME_RELAY

DLCI_7_SENT_FRMS

DLCI 7: Number of sent frames. The value of this counter is irrelevant if the counter 074083 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74084

Source Section

P_NBSC_FRAME_RELAY

DLCI_7_STAT_ACT_TO_INACT

DLCI 7: Number of the DLCI status changes from active to inactive. The value of this counter is irrelevant if the counter 074083 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74092

Source Section

P_NBSC_FRAME_RELAY

DLCI_8_BYTES_DISC_REC

DLCI 8: Number of bytes in discarded received frames. The value of this counter is irrelevant if counter 074095 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74103

Source Section

P_NBSC_FRAME_RELAY

DLCI_8_BYTES_DISC_SENT

DLCI 8: Number of bytes in the discarded sent frames. The value of this counter is irrelevant if the counter 074095 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74101

Source Section

P_NBSC_FRAME_RELAY

DLCI_8_BYTES_REC

DLCI 8: Number of kilobytes in the received frames. The value of this counter is irrelevant if the counter 074095 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74099

Source Section

P_NBSC_FRAME_RELAY

DLCI_8_BYTES_SENT

DLCI 8: Number of kilobytes in the sent frames. The value of this counter is irrelevant if the counter 074095 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74097

Source Section

P_NBSC_FRAME_RELAY

DLCI_8_DISC_REC_FRMS

DLCI 8: Number of discarded received frames. The value of this counter is irrelevant if the counter 074095 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74102

Source Section

P_NBSC_FRAME_RELAY

DLCI_8_DISC_SENT_FRMS

DLCI 8: Number of discarded sent frames. The value of this counter is irrelevant if counter 074095 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74100

Source Section

P_NBSC_FRAME_RELAY

DLCI_8_DISC_UL_NS_UDATA

DLCI 8: Number of discarded uplink NS unit data in bytes. The value of this counter is irrelevant if the counter 074095 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74106

Source Section

P_NBSC_FRAME_RELAY

DLCI_8_ID

DLCI 8: Identification of a PVC. Value is FFFFFFFF (hex) if the PVC is not used.

Data Source

BSS

Source Field

74095

Source Section

P_NBSC_FRAME_RELAY

DLCI_8_INACTIVITY_TIME

DLCI 8: Inactivity time. The value of this counter is irrelevant if the counter 074095 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74105

Source Section

P_NBSC_FRAME_RELAY

DLCI_8_REC_FRMS

DLCI 8: Number of received frames. The value of this counter is irrelevant if the counter 074095 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74098

Source Section

P_NBSC_FRAME_RELAY

DLCI_8_SENT_FRMS

DLCI 8: Number of sent frames. The value of this counter is irrelevant if the counter 074095 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74096

Source Section

P_NBSC_FRAME_RELAY

DLCI_8_STAT_ACT_TO_INACT

DLCI 8: Number of the DLCI status changes from active to inactive. The value of this counter is irrelevant if the counter 074095 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74104

Source Section

P_NBSC_FRAME_RELAY

DLCI_9_BYTES_DISC_REC

DLCI 9: Number of bytes in discarded received frames. The value of this counter is irrelevant if counter 074107 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74115

Source Section

P_NBSC_FRAME_RELAY

DLCI_9_BYTES_DISC_SENT

DLCI 9: Number of bytes in the discarded sent frames. The value of this counter is irrelevant if the counter 074107 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74113

Source Section

P_NBSC_FRAME_RELAY

DLCI_9_BYTES_REC

DLCI 9: Number of kilobytes in the received frames. The value of this counter is irrelevant if the counter 074107 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74111

Source Section

P_NBSC_FRAME_RELAY

DLCI_9_BYTES_SENT

DLCI 9: Number of kilobytes in the sent frames. The value of this counter is irrelevant if the counter 074107 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74109

Source Section

P_NBSC_FRAME_RELAY

DLCI_9_DISC_REC_FRMS

DLCI 9: Number of discarded received frames. The value of this counter is irrelevant if the counter 074107 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74114

Source Section

P_NBSC_FRAME_RELAY

DLCI_9_DISC_SENT_FRMS

DLCI 9: Number of discarded sent frames. The value of this counter is irrelevant if counter 074107 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74112

Source Section

P_NBSC_FRAME_RELAY

DLCI_9_DISC_UL_NS_UDATA

DLCI 9: Number of discarded uplink NS unit data in bytes. The value of this counter is irrelevant if the counter 074107 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74118

Source Section

P_NBSC_FRAME_RELAY

DLCI_9_ID

DLCI 9: Identification of a PVC. Value is FFFFFFFF (hex) if the PVC is not used.

Data Source

BSS

Source Field

74107

Source Section

P_NBSC_FRAME_RELAY

DLCI_9_INACTIVITY_TIME

DLCI 9: Inactivity time. The value of this counter is irrelevant if the counter 074107 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74117

Source Section

P_NBSC_FRAME_RELAY

DLCI_9_REC_FRMS

DLCI 9: Number of received frames. The value of this counter is irrelevant if the counter 074107 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74110

Source Section

P_NBSC_FRAME_RELAY

DLCI_9_SENT_FRMS

DLCI 9: Number of sent frames. The value of this counter is irrelevant if the counter 074107 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74108

Source Section

P_NBSC_FRAME_RELAY

DLCI_9_STAT_ACT_TO_INACT

DLCI 9: Number of the DLCI status changes from active to inactive. The value of this counter is irrelevant if the counter 074107 has a value FFFFFFFF (hex).

Data Source

BSS

Source Field

74116

Source Section

P_NBSC_FRAME_RELAY

FRMS_WRONG_CHECK_SEQ_ERR

Number of frames with frame check sequence error.

Data Source

BSS

Source Field

74000

Source Section

P_NBSC_FRAME_RELAY

FRMS_WRONG_DLCI

Number of frames with wrong DLCI.

Data Source

BSS

Source Field

74001

Source Section

P_NBSC_FRAME_RELAY

OTHER_FRAME_ERROR

Number of other frame errors.

Data Source

BSS

Source Field

74002

Source Section

P_NBSC_FRAME_RELAY

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

STAT_MSG_SENT_TOO_OFTEN

Number of STATUS messages sent too often.

Data Source

BSS

Source Field

74009

Source Section

P_NBSC_FRAME_RELAY

STAT_MSG_UNKNOWN_PVC

Number of STATUS messages with an unknown PVC status information element.

Data Source

BSS

Source Field

74008

Source Section

P_NBSC_FRAME_RELAY

STAT_MSG_WRONG_REC_SEQ_NBR

Number of STATUS messages with a wrong receive sequence number.

Data Source

BSS

Source Field

74005

Source Section

P_NBSC_FRAME_RELAY

STAT_MSG_WRONG_SEND_SEQ_NBR

Number of STATUS messages with wrong send sequence number.

Data Source

BSS

Source Field

74004

Source Section

P_NBSC_FRAME_RELAY

T391_TIMEOUT

Number of T391 timeouts with no response to STATUS ENQUIRY.

Data Source

BSS

Source Field

74003

Source Section

P_NBSC_FRAME_RELAY

TIME_BEAR_OPER_UNOPER

The time the bearer has been unoperational.

Data Source

BSS

Source Field

74010

Source Section

P_NBSC_FRAME_RELAY

BSC Primitive Calculations

The following is a list of primitive calculations for the BSC entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

VSUM(PERLENSEC, SETUP_FAILURES, SETUP_SUCCESSFUL)

BSC Peg Counts

The following is a list of peg counts for the BSC entity.

ATT_ANSWER_TO_PAGING

Number of answers to paging attempts.

Data Source

BSS

Source Field

51037

Source Section

P_NBSC_CC_PM

ATT_EMERGENCY_CALL

Number of emergency call attempts.

Data Source

BSS

Source Field

51035

Source Section

P_NBSC_CC_PM

ATT_IMSI_DETACH

Number of IMSI detach attempts.

Data Source

BSS

Source Field

51040

Source Section

P_NBSC_CC_PM

ATT_LOCATION_UPDATE

Number of location update attempts.

Data Source

BSS

Source Field

51025

Source Section

P_NBSC_CC_PM

ATT_MO_SPEECH_CALL

Number of mo speech call attempts.

Data Source

BSS

Source Field

51038

Source Section

P_NBSC_CC_PM

ATT_OTHER_PROCEDURE

Number of other procedure attempts.

Data Source

BSS

Source Field

51039

Source Section

P_NBSC_CC_PM

ATT_REESTABLISHMENT

Number of reestablishment attempts.

Data Source

BSS

Source Field

51036

Source Section

P_NBSC_CC_PM

AVE_NON_AVAIL_DUE_EXT

Average number of non-available TRXs external reasons.

Data Source

BSS

Source Field

056004/056005

Source Section

P_NBSC_TRX_AVAIL

AVE_NON_AVAIL_DUE_INT

Average number of non-available TRXs internal reasons.

Data Source

BSS

Source Field

056002/056003

Source Section

P_NBSC_TRX_AVAIL

AVE_NON_AVAIL_DUE_USER

Average number of non-available TRXs blocked by user.

Data Source

BSS

Source Field

056000/056001

Source Section

P_NBSC_TRX_AVAIL

BASIC_ANSWER_TO_PAGING

Basic answer to paging

Data Source

BSS

Source Field

51043

Source Section

P_NBSC_CC_PM

BASIC_EMERGENCY_CALL

Basic emergency call

Data Source

BSS

Source Field

51041

Source Section

P_NBSC_CC_PM

BASIC_IMSI_DETACH

Nof succ basic calls with estab cause BASIC_IMSI_DETACH.

Data Source

BSS

Source Field

51048

Source Section

P_NBSC_CC_PM

BASIC_MO_DATA_CALL

Basic MO data call

Data Source

BSS

Source Field

51045

Source Section

P_NBSC_CC_PM

BASIC_MO_SPEECH_CALL

Basic MO speech call

Data Source

BSS

Source Field

51044

Source Section

P_NBSC_CC_PM

BASIC_MT_DATA_CALL

Basic MT data call

Data Source

BSS

Source Field

51047

Source Section

P_NBSC_CC_PM

BASIC_OTHER_PROCEDURE

Basic other procedure

Data Source

BSS

Source Field

51046

Source Section

P_NBSC_CC_PM

BASIC_REESTABLISHMENT

Basic re-establishment

Data Source

BSS

Source Field

51042

Source Section

P_NBSC_CC_PM

BCSU_RESET_FOR_A_CALOL_OR_HO

BCSU reset for a call or HO

Data Source

BSS

Source Field

51022

Source Section

P_NBSC_CC_PM

BSSRelease

BSS Release

Data Source

BSS

CALL_FAILURES

Call failures

Data Source

BSS

Source Field

51005

Source Section

P_NBSC_CC_PM

CALL_SUCCESSFULL

Call successful

Data Source

BSS

Source Field

51015

Source Section

P_NBSC_CC_PM

CONVERSATION_STARTED

Conversation started

Data Source

BSS

Source Field

51017

Source Section

P_NBSC_CC_PM

CS_PAG_REF_DUE_BCSU30_BIGLOAD

Number of rejected CS paging messages inside the BCSU 30

Data Source

BSS

Source Field

51168

Source Section

P_NBSC_CC_PM

CS_PAG_REF_DUE_BCSU31_BIGLOAD

Number of rejected CS paging messages inside the BCSU 31

Data Source

BSS

Source Field

51169

Source Section

P_NBSC_CC_PM

CS_PAG_REF_DUE_BCSU32_BIGLOAD

Number of rejected CS paging messages inside the BCSU 32

Data Source

BSS

Source Field

51170

Source Section

P_NBSC_CC_PM

CS_PAG_REF_DUE_BCSU33_BIGLOAD

Number of rejected CS paging messages inside the BCSU 33

Data Source

BSS

Source Field

51171

Source Section

P_NBSC_CC_PM

CS_PAG_REF_DUE_BCSU34_BIGLOAD

Number of rejected CS paging messages inside the BCSU 34

Data Source

BSS

Source Field

51172

Source Section

P_NBSC_CC_PM

CS_PAG_REF_DUE_BCSU35_BIGLOAD

Number of rejected CS paging messages inside the BCSU 35

Data Source

BSS

Source Field

51173

Source Section

P_NBSC_CC_PM

CS_PAG_REF_DUE_BCSU36_BIGLOAD

Number of rejected CS paging messages inside the BCSU 36

Data Source

BSS

Source Field

51174

Source Section

P_NBSC_CC_PM

CS_PAG_REF_DUE_BCSU37_BIGLOAD

Number of rejected CS paging messages inside the BCSU 37

Data Source

BSS

Source Field

51175

Source Section

P_NBSC_CC_PM

CS_PAG_REF_DUE_BCSU38_BIGLOAD

Number of rejected CS paging messages inside the BCSU 38

Data Source

BSS

Source Field

51176

Source Section

P_NBSC_CC_PM

CS_PAG_REF_DUE_BCSU39_BIGLOAD

Number of rejected cs-paging messages inside the BCSU.

Data Source

BSS

Source Field

51203

Source Section

P_NBSC_CC_PM

CS_PAG_REF_DUE_BCSU3A_BIGLOAD

Number of rejected cs-paging messages inside the BCSU.

Data Source

BSS

Source Field

51204

Source Section

P_NBSC_CC_PM

DROPPED_CALLS

Number of the failures during a call in progress after the CONNECT_ACK message on TCH.
Not updated for calls dropped during handovers.

Data Source

BSS

Source Field

51007

Source Section

P_NBSC_CC_PM

ESTAB_EXT_IN_BETTER_CELL

The counter indicates the amount of successful incoming external Hos

Data Source

BSS

Source Field

51058

Source Section

P_NBSC_CC_PM

ESTAB_EXT_IN_BSC_TRHO

Nof succ incoming external ho with estab cause traffic

Data Source

BSS

Source Field

51063

Source Section

P_NBSC_CC_PM

ESTAB_EXT_IN_DIRECTED_RETRY

The counter indicates the amount of successful incoming external Hos

Data Source

BSS

Source Field

51059

Source Section

P_NBSC_CC_PM

ESTAB_EXT_IN_DISTANCE

The counter indicates the amount of successful incoming external Hos

Data Source

BSS

Source Field

51055

Source Section

P_NBSC_CC_PM

ESTAB_EXT_IN_DL_QUALITY

The counter indicates the amount of successful incoming

Data Source

BSS

Source Field

51053

Source Section

P_NBSC_CC_PM

ESTAB_EXT_IN_DL_STRENGHT

The counter indicates the amount of successful incoming external Hos

Data Source

BSS

Source Field

51054

Source Section

P_NBSC_CC_PM

ESTAB_EXT_IN_O_AND_M_INTER

The counter indicates the amount of successful incoming external Hos

Data Source

BSS

Source Field

51056

Source Section

P_NBSC_CC_PM

ESTAB_EXT_IN_PREEMPTION

Nof succ incoming external ho with estab cause preemption

Data Source

BSS

Source Field

51062

Source Section

P_NBSC_CC_PM

ESTAB_EXT_IN_RESP_TO_MSC_INVOC

The counter indicates the amount of successful incoming external Hos

Data Source

BSS

Source Field

51057

Source Section

P_NBSC_CC_PM

ESTAB_EXT_IN_SWITCH_CRC_POOL

Nof succ inc external HOs with estab cause SWITCH_CIRCUIT_POOL.

Data Source

BSS

Source Field

51061

Source Section

P_NBSC_CC_PM

ESTAB_EXT_IN_UL_QUALITY

The counter indicates the amount of successful incoming external Hos

Data Source

BSS

Source Field

51051

Source Section

P_NBSC_CC_PM

ESTAB_EXT_IN_UL_STRENGHT

The counter indicates the amount of successful incoming external Hos

Data Source

BSS

Source Field

51052

Source Section

P_NBSC_CC_PM

ESTAB_EXT_IN_UNEXPECTED

The counter indicates the amount of successful incoming external Hos

Data Source

BSS

Source Field

51060

Source Section

P_NBSC_CC_PM

ESTAB_INC_EXT_DTM_HO_DUE_NO_RESOURCE

Number of successful incoming external handovers due to the reason that there are no free PS resources available for a DTM call or DTM call reallocation in the source cell. The handover is established with BSSMAP cause traffic load (DX cause number: 95).

Data Source

BSC

Source Field

51209

Source Section

RBS_PS_CCPM_CCPM_RAW

ESTAB_INC_EXT_DTM_HO_DUE_TRAFFIC

Number of successful incoming external handovers started for DTM calls due to PS quality control or because DTM is being disabled in the source cell. The handover is established with BSSMAP cause traffic (DX cause number: 96).

Data Source

BSC

Source Field

51210

Source Section

RBS_PS_CCPM_CCPM_RAW

ESTAB_INC_EXT_ISHO

Number of successfully established incoming inter-system (WCDMA RAN to GSM) handovers controlled by the MSC (DX cause number: 93).

Data Source

BSC

Source Field

51208

Source Section

RBS_PS_CCPM_CCPM_RAW

ESTAB_INT_TO_INC_EXT_HO

Number of successful incoming MSC-controlled handovers generated from an internal handover that are established with BSSMAP cause traffic (DX cause number: 94).

Data Source

BSC

Source Field

51207

Source Section

RBS_PS_CCPM_CCPM_RAW

EXT_IN_BETTER_CELL_HO

External incoming HO due better cell External incoming HO due directed retry

Data Source

BSS

Source Field

51073

Source Section

P_NBSC_CC_PM

EXT_IN_BSC_TRHO

Nof successful incoming ho with setup cause traffic

Data Source

BSS

Source Field

51078

Source Section

P_NBSC_CC_PM

EXT_IN_DIRECTED_RETRY_HO

External incoming HO due unexpected cause

Data Source

BSS

Source Field

51074

Source Section

P_NBSC_CC_PM

EXT_IN_DISTANCE_HO

External incoming HO due distance

Data Source

BSS

Source Field

51070

Source Section

P_NBSC_CC_PM

EXT_IN_DL_QUALITY_HO

External incoming HO due downlink quality

Data Source

BSS

Source Field

51068

Source Section

P_NBSC_CC_PM

EXT_IN_DL_STRENGTH_HO

External incoming HO due downlink strength

Data Source

BSS

Source Field

51069

Source Section

P_NBSC_CC_PM

EXT_IN_DTM_NO_RES_AVAIL

Number of successful external incoming handovers due to reason that there are no free PS resources available for a DTM call in the source cell.

Data Source

BSS

Source Field

51186

Source Section

P_NBSC_CC_PM

EXT_IN_DTM_TRAFFIC

Number of successful external incoming handovers for DTM calls due to PCU quality control and due to reason that DTM is disabled in the source cell.

Data Source

BSS

Source Field

51187

Source Section

P_NBSC_CC_PM

EXT_IN_INT_HO_TO_EXT

Number of MSC incoming handovers that were generated from internal handover.

Data Source

BSS

Source Field

51080

Source Section

P_NBSC_CC_PM

EXT_IN_ISHO

Nof succ incoming intersystem (WCDMA RAN to GSM) handovers controlled by MSC

Data Source

BSS

Source Field

51151

Source Section

P_NBSC_CC_PM

EXT_IN_OAND_M_INTER_HO

External incoming HO due O&M intervention

Data Source

BSS

Source Field

51071

Source Section

P_NBSC_CC_PM

EXT_IN_PREEMPTION

Nof successful incoming external ho with setup cause pre-emption

Data Source

BSS

Source Field

51077

Source Section

P_NBSC_CC_PM

EXT_IN_RESP_TO_MSC_INVOC_HO

External incoming HO due response to MSC indication

Data Source

BSS

Source Field

51072

Source Section

P_NBSC_CC_PM

EXT_IN_SWITCH_CRC_POOL

An incoming external ho att for changing the A-interface pool

Data Source

BSS

Source Field

51076

Source Section

P_NBSC_CC_PM

EXT_IN_UL_QUALITY_HO

External incoming HO due uplink quality

Data Source

BSS

Source Field

51066

Source Section

P_NBSC_CC_PM

EXT_IN_UL_STRENGTH_HO

External incoming HO due uplink strength

Data Source

BSS

Source Field

51067

Source Section

P_NBSC_CC_PM

EXT_IN_UNEXPECTED

An incoming external ho att for changing the A-interface pool

Data Source

BSS

Source Field

51075

Source Section

P_NBSC_CC_PM

EXT_OUT_BSC_TRHO

Nof succ outgoing external HOs due to cause traffic

Data Source

BSS

Source Field

51145

Source Section

P_NBSC_CC_PM

EXT_OUT_DET_FAST_MOV_MS

Nof outgoing external HOs with setup cause 119.

Data Source

BSS

Source Field

51100

Source Section

P_NBSC_CC_PM

EXT_OUT_DET_SLOW_MOV_MS

Number of outgoing external HOs with setup cause 118.

Data Source

BSS

Source Field

51099

Source Section

P_NBSC_CC_PM

EXT_OUT_DISTANCE

External outgoing HO due distance

Data Source

BSS

Source Field

51087

Source Section

P_NBSC_CC_PM

EXT_OUT_DL_INTERF

External outgoing HO due downlink interference

Data Source

BSS

Source Field

51085

Source Section

P_NBSC_CC_PM

EXT_OUT_DL_RXLEV

External outgoing HO due downlink Rx level

Data Source

BSS

Source Field

51081

Source Section

P_NBSC_CC_PM

EXT_OUT_DL_RXQUAL

External outgoing HO due downlink Rx quality

Data Source

BSS

Source Field

51083

Source Section

P_NBSC_CC_PM

EXT_OUT_DR_HO

External outgoing HO due directed retry handover

Data Source

BSS

Source Field

51091

Source Section

P_NBSC_CC_PM

EXT_OUT_DTM_DISABLED

Number of successful external outgoing handovers for DTM calls due to reason that DTM is disabled in the serving cell.

Data Source

BSS

Source Field

51194

Source Section

P_NBSC_CC_PM

EXT_OUT_DTM_HO_TO_DTM

Number of successful external outgoing handovers for DTM capable mobile stations due to reason that serving cell does not support DTM.

Data Source

BSS

Source Field

51196

Source Section

P_NBSC_CC_PM

EXT_OUT_DTM_HO_TO_WCDMA

Number of successful external outgoing handovers for mobile stations that support WCDMA but does not support DTM.

Data Source

BSS

Source Field

51197

Source Section

P_NBSC_CC_PM

EXT_OUT_DTM_NO_RES_AVAIL

Number of successful external outgoing handovers due to reason that there are no free PS resources available for a DTM call in the serving cell.

Data Source

BSS

Source Field

51193

Source Section

P_NBSC_CC_PM

EXT_OUT_ERFD_HO

Number of external Enhanced Rapid Field Drop (ERFD) HOs

Data Source

BSS

Source Field

51144

Source Section

P_NBSC_CC_PM

EXT_OUT_FORCED_HO

External outgoing HO due forced handover

Data Source

BSS

Source Field

51090

Source Section

P_NBSC_CC_PM

EXT_OUT_IBHO_TO_GSM

Number of IMSI based external handovers from the source GSM network to the GSM authorised networks. UPDATED: When handover is completed at the source BSC. When IMSI based handover is made from the source GSM network to the GSM authorised networks.
RELATED TO A FEATURE: BSS12158 IBHO

Data Source

BSS

Source Field

51155

Source Section

P_NBSC_CC_PM

EXT_OUT_IBHO_TO_UTRAN

Number of IMSI based external handovers from the source GSM network to the UTRAN authorised networks. UPDATED: When handover is completed at the source BSC. When IMSI based handover is made from the source GSM network to the UTRAN authorised networks. RELATED TO A FEATURE: BSS12158 IBHO

Data Source

BSS

Source Field

51156

Source Section

P_NBSC_CC_PM

EXT_OUT_IDR_HO

External outgoing HO due intelligent directed retry handover

Data Source

BSS

Source Field

51093

Source Section

P_NBSC_CC_PM

EXT_OUT_INTER_SYSTEM_DIRECT_ACCESS

EXT OUT INTER SYSTEM DIRECT ACCESS

Data Source

BSS

Source Field

51154

Source Section

P_NBSC_CC_PM

EXT_OUT_ISHO

Nof succ outgoing inter-system (GSM to WCDMA RAN) handovers controlled by MSC

Data Source

BSS

Source Field

51152

Source Section

P_NBSC_CC_PM

EXT_OUT_LOW_DISTANCE

External outgoing HO due low distance

Data Source

BSS

Source Field

51096

Source Section

P_NBSC_CC_PM

EXT_OUT_PBGT_HO

External outgoing HO due power budget handover

Data Source

BSS

Source Field

51088

Source Section

P_NBSC_CC_PM

EXT_OUT_PCU_QUAL_CNTRL

Number of successful external outgoing handovers for DTM calls due to PCU quality control in the serving cell.

Data Source

BSS

Source Field

51195

Source Section

P_NBSC_CC_PM

EXT_OUT_PRE_EMPT_HO

External outgoing HO due pre-emption handover

Data Source

BSS

Source Field

51094

Source Section

P_NBSC_CC_PM

EXT_OUT_RAP_FIELD_DROP

External outgoing HO due rapid field drop

Data Source

BSS

Source Field

51095

Source Section

P_NBSC_CC_PM

EXT_OUT_SLOW_MOVING_MS

During an outgoing external ho

Data Source

BSS

Source Field

51098

Source Section

P_NBSC_CC_PM

EXT_OUT_SWITCH_CRC_POOL

During an outgoing external ho att for changing the Ainterface circuit pool

Data Source

BSS

Source Field

51097

Source Section

P_NBSC_CC_PM

EXT_OUT_TR_HO

External outgoing HO due traffic reason handover

Data Source

BSS

Source Field

51092

Source Section

P_NBSC_CC_PM

EXT_OUT_UL_INTERF

External outgoing HO due uplink interference

Data Source

BSS

Source Field

51086

Source Section

P_NBSC_CC_PM

EXT_OUT_UL_RXLEV

External outgoing HO due uplink Rx level

Data Source

BSS

Source Field

51082

Source Section

P_NBSC_CC_PM

EXT_OUT_UL_RXQUAL

External outgoing HO due uplink Rx quality

Data Source

BSS

Source Field

51084

Source Section

P_NBSC_CC_PM

EXT_OUT_UMBRELLA_HO

External outgoing HO due umbrella handover

Data Source

BSS

Source Field

51089

Source Section

P_NBSC_CC_PM

EXTERNAL_HO_TARGET_FAILURES

External HO target failures

Data Source

BSS

Source Field

51002

Source Section

P_NBSC_CC_PM

EXTERNAL_HO_SOURCE_FAILURES

External HO source failures

Data Source

BSS

Source Field

51001

Source Section

P_NBSC_CC_PM

EXTERNAL_HO_SOURCE_SUCC

External HO source successful

Data Source

BSS

Source Field

51011

Source Section

P_NBSC_CC_PM

EXTERNAL_HO_TARGET_SUCC

External HO target successful

Data Source

BSS

Source Field

51012

Source Section

P_NBSC_CC_PM

FACCH_ANSWER_TO_PAGING

FACCH answer to paging

Data Source

BSS

Source Field

51030

Source Section

P_NBSC_CC_PM

FACCH_EMERGENCY_CALL

FACCH emergency call

Data Source

BSS

Source Field

51028

Source Section

P_NBSC_CC_PM

FACCH_IMSI_DETACH

Nof succ FACCH calls with establishment cause imsi_detach.

Data Source

BSS

Source Field

51027

Source Section

P_NBSC_CC_PM

FACCH_MO_DATA_CALL

FACCH MO data call

Data Source

BSS

Source Field

51032

Source Section

P_NBSC_CC_PM

FACCH_MO_SPEECH_CALL

FACCH MO speech call

Data Source

BSS

Source Field

51031

Source Section

P_NBSC_CC_PM

FACCH_MT_DATA_CALL

FACCH MT data call

Data Source

BSS

Source Field

51034

Source Section

P_NBSC_CC_PM

FACCH_OTHER_PROCEDURE

FACCH other procedure

Data Source

BSS

Source Field

51033

Source Section

P_NBSC_CC_PM

FACCH_REESTABLHMENT

FACCH re-establishment

Data Source

BSS

Source Field

51029

Source Section

P_NBSC_CC_PM

INTER_BAD_DI_RATIO

The counter indicates the amount of succ internal inter HOs

Data Source

BSS

Source Field

51118

Source Section

P_NBSC_CC_PM

INTER_BSC_DFCA_ASSIGN_REJ

Number of rejected DFCA assignments after a BSC-BSC conflict control communication procedure. UPDATED: Each time a DFCA assignment process is finally aborted due to a coincident channel assignment processes. RELATED TO A FEATURE: BSS11052 DFCA

Data Source

BSS

Source Field

51158

Source Section

P_NBSC_CC_PM

INTER_BSC_DFCA_ASSIGN_SUCC

Number of successful DFCA assignments in an inter-BSC communication procedure. UPDATED: When the timer set-up after a BSCBSC conflict control process has expired. The assignment has been completed successfully and no conflict between BSCs have been generated. RELATED TO A FEATURE: BSS11052 DFCA

Data Source

BSS

Source Field

51157

Source Section

P_NBSC_CC_PM

INTER_BSC_TRHO

Nof succ internal inter handovers with setup cause BSC_TRHO

Data Source

BSS

Source Field

51140

Source Section

P_NBSC_CC_PM

INTER_DADLB

Number of succ internal handovers to desired layer / band

Data Source

BSS

Source Field

51141

Source Section

P_NBSC_CC_PM

INTER_DET_FAST_MOV_MS

Number of internal inter-HOs with set-up cause 156.

Data Source

BSS

Source Field

51137

Source Section

P_NBSC_CC_PM

INTER_DET_SLOW_MOV_MS

Number of internal inter-HOs with set-up cause 139.

Data Source

BSS

Source Field

51120

Source Section

P_NBSC_CC_PM

INTER_DISTANCE

The counter indicates the amount of succ internal inter HOs

Data Source

BSS

Source Field

51107

Source Section

P_NBSC_CC_PM

INTER_DL_INTERF

The counter indicates the amount of succ internal inter HOs

Data Source

BSS

Source Field

51105

Source Section

P_NBSC_CC_PM

INTER_DL_RXLEVEL

The counter indicates the amount of succ internal inter HOs

Data Source

BSS

Source Field

51101

Source Section

P_NBSC_CC_PM

INTER_DL_RXQUAL

The counter indicates the amount of succ internal inter HOs

Data Source

BSS

Source Field

51103

Source Section

P_NBSC_CC_PM

INTER_DR_HO

The counter indicates the amount of succ internal inter HOs

Data Source

BSS

Source Field

51111

Source Section

P_NBSC_CC_PM

INTER_DTM_DISABLED

Number of successful internal inter-cell handovers for DTM calls due to reason that DTM is disabled in the source cell.

Data Source

BSS

Source Field

51198

Source Section

P_NBSC_CC_PM

INTER_DTM_HO_TO_DTM

Number of successful internal inter-cell handovers for DTM capable mobile stations due to reason that source cell does not support DTM.

Data Source

BSS

Source Field

51200

Source Section

P_NBSC_CC_PM

INTER_DTM_NO_RES_AVAIL

Number of successful internal inter-cell handovers due to reason that there are no free PS resources available for a DTM call in the source cell.

Data Source

BSS

Source Field

51188

Source Section

P_NBSC_CC_PM

INTER_ERFD_HO

Nof internal Enhanced Rapid Field Drop (ERFD) Hos

Data Source

BSS

Source Field

51138

Source Section

P_NBSC_CC_PM

INTER_FORCED_HO

The counter indicates the amount of succ internal inter HOs

Data Source

BSS

Source Field

51110

Source Section

P_NBSC_CC_PM

INTER_IDR_HO

The counter indicates the amount of succ internal inter HOs

Data Source

BSS

Source Field

51113

Source Section

P_NBSC_CC_PM

INTER_LOW_DISTANCE

The counter indicates the amount of succ internal inter HOs

Data Source

BSS

Source Field

51116

Source Section

P_NBSC_CC_PM

INTER_OK_CI_RATIO

The counter indicates the amount of succ internal inter HOs

Data Source

BSS

Source Field

51117

Source Section

P_NBSC_CC_PM

INTER_PBGT_HO

The counter indicates the amount of succ internal inter HOs

Data Source

BSS

Source Field

51108

Source Section

P_NBSC_CC_PM

INTER_PCU_QUAL_CNTRL

Number of successful internal inter-cell handovers for DTM calls due to PCU quality control in the source cell.

Data Source

BSS

Source Field

51199

Source Section

P_NBSC_CC_PM

INTER_PRE_EMPT_HO

The counter indicates the amount of succ internal inter HOs

Data Source

BSS

Source Field

51114

Source Section

P_NBSC_CC_PM

INTER_RAP_FIELD_DROP

The counter indicates the amount of succ internal inter HOs

Data Source

BSS

Source Field

51115

Source Section

P_NBSC_CC_PM

INTER_SLOW_MOVING_MS

During an internal inter handover

Data Source

BSS

Source Field

51119

Source Section

P_NBSC_CC_PM

INTER_SUCC_DIRECT_ACCESS

Number of succ internal inter-cell HOs from a dedicated control channel to a super-reuse TRX

Data Source

BSS

Source Field

51139

Source Section

P_NBSC_CC_PM

INTER_TR_HO

The counter indicates the amount of succ internal inter HOs

Data Source

BSS

Source Field

51112

Source Section

P_NBSC_CC_PM

INTER_UL_INTERF

The counter indicates the amount of succ internal inter HOs

Data Source

BSS

Source Field

51106

Source Section

P_NBSC_CC_PM

INTER_UL_RXLEVEL

The counter indicates the amount of succ internal inter HOs

Data Source

BSS

Source Field

51102

Source Section

P_NBSC_CC_PM

INTER_UL_RXQUAL

The counter indicates the amount of succ internal inter HOs

Data Source

BSS

Source Field

51104

Source Section

P_NBSC_CC_PM

INTER_UMBARELLA_HO

The counter indicates the amount of succ internal inter HOs

Data Source

BSS

Source Field

51109

Source Section

P_NBSC_CC_PM

INTERNAL_INTER_HO_FAILURES

Internal inter HO failures

Data Source

BSS

Source Field

51003

Source Section

P_NBSC_CC_PM

INTERNAL_INTER_HO_SUCC

Internal inter HO successful

Data Source

BSS

Source Field

51013

Source Section

P_NBSC_CC_PM

INTERNAL_INTRA_HO_FAILURES

Internal intra HO failures

Data Source

BSS

Source Field

51004

Source Section

P_NBSC_CC_PM

INTERNAL_INTRA_HO_SUCC

Internal intra HO successful

Data Source

BSS

Source Field

51014

Source Section

P_NBSC_CC_PM

INTRA_BAD_CI_RATIO

The counter indicates the amount of succ internal intra Hos

Data Source

BSS

Source Field

51126

Source Section

P_NBSC_CC_PM

INTRA_DISTANCE

Number of internal intracell HOs with set-up cause 147.

Data Source

BSS

Source Field

51128

Source Section

P_NBSC_CC_PM

INTRA_DL_INTERF

The counter indicates the amount of succ internal intra HOs

Data Source

BSS

Source Field

51121

Source Section

P_NBSC_CC_PM

INTRA_DL_RXQUAL

The counter indicates the amount of succ internal intra Hos

Data Source

BSS

Source Field

51124

Source Section

P_NBSC_CC_PM

INTRA_DR_HO

Number of internal intracell HOs with set-up cause 149.

Data Source

BSS

Source Field

51130

Source Section

P_NBSC_CC_PM

INTRA_DTM_MO_CS_TO_PS

Number of successful internal intra-cell handovers due to mobile originated DTM call establishment.

Data Source

BSS

Source Field

51189

Source Section

P_NBSC_CC_PM

INTRA_DTM_MT_CS_TO_PS

Number of successful internal intra-cell handovers due to mobile terminated DTM call establishment.

Data Source

BSS

Source Field

51190

Source Section

P_NBSC_CC_PM

INTRA_DTM_MT_PS_TO_PS

Number of successful internal intra-cell handovers due to PCU initiated DTM call reallocation.

Data Source

BSS

Source Field

51191

Source Section

P_NBSC_CC_PM

INTRA_DTM_PS_TO_CS

Number of successful intra-cell handovers due to DTM call release.

Data Source

BSS

Source Field

51192

Source Section

P_NBSC_CC_PM

INTRA_FORCED_HO

The counter indicates the amount of succ internal intra Hos

Data Source

BSS

Source Field

51123

Source Section

P_NBSC_CC_PM

INTRA_GPRS_HO

Nof succ intra-cell handovers made to enable the inclusion of an FTCH into the GPRS territory

Data Source

BSS

Source Field

51132

Source Section

P_NBSC_CC_PM

INTRA_HO_FROM_LRTCH_TO_EXT_AREA

Number of successful intra-cell HOs from Long Reach TCH to extended area.

Data Source

BSC

Source Field

51212

Source Section

RBS_PS_CCPM_CCPM_RAW

INTRA_HO_FROM_LRTCH_TO_NORMAL_AREA

Number of successful intra-cell HOs from Long Reach TCH to normal area.

Data Source

BSC

Source Field

51211

Source Section

RBS_PS_CCPM_CCPM_RAW

INTRA_INTER_BAND_DUE_LEV

Nof completed and succ TCHTCH ho from non-BCCH frequency layer between BTSs on different frequency bands of a segment due to weak downlink signal leve

Data Source

BSS

Source Field

51153

Source Section

P_NBSC_CC_PM

INTRA_LOW_DISTANCE

Number of internal intracell HOs with set-up cause 148.

Data Source

BSS

Source Field

51129

Source Section

P_NBSC_CC_PM

INTRA_OK_CI_RATIO

The counter indicates the amount of succ internal intra Hos

Data Source

BSS

Source Field

51125

Source Section

P_NBSC_CC_PM

INTRA_PRE_EMPT_HO

The counter indicates an internal intra-cell handover

Data Source

BSS

Source Field

51127

Source Section

P_NBSC_CC_PM

INTRA_SUCC_DIRECT_ACCESS_HO

Nof succ internal intra-cell HOs from a dedicated control channel to a superreuse TRX

Data Source

BSS

Source Field

51131

Source Section

P_NBSC_CC_PM

INTRA_UL_INTERF

The counter indicates the amount of succ internal intra Hos

Data Source

BSS

Source Field

51122

Source Section

P_NBSC_CC_PM

LOCATION_UPDATE

Location Update

Data Source

BSS

Source Field

51026

Source Section

P_NBSC_CC_PM

PAG_FROM_A_INT_REF_DUE_BCSU30

Number of paging messages from A-interface that are rejected inside the BCSU 30

Data Source

BSS

Source Field

51177

Source Section

P_NBSC_CC_PM

PAG_FROM_A_INT_REF_DUE_BCSU31

Number of paging messages from A-interface that are rejected inside the BCSU 31

Data Source

BSS

Source Field

51178

Source Section

P_NBSC_CC_PM

PAG_FROM_A_INT_REF_DUE_BCSU32

Number of paging messages from A-interface that are rejected inside the BCSU 32

Data Source

BSS

Source Field

51179

Source Section

P_NBSC_CC_PM

PAG_FROM_A_INT_REF_DUE_BCSU33

Number of paging messages from A-interface that are rejected inside the BCSU 33

Data Source

BSS

Source Field

51180

Source Section

P_NBSC_CC_PM

PAG_FROM_A_INT_REF_DUE_BCSU34

Number of paging messages from A-interface that are rejected inside the BCSU 34

Data Source

BSS

Source Field

51181

Source Section

P_NBSC_CC_PM

PAG_FROM_A_INT_REF_DUE_BCSU35

Number of paging messages from A-interface that are rejected inside the BCSU 35

Data Source

BSS

Source Field

51182

Source Section

P_NBSC_CC_PM

PAG_FROM_A_INT_REF_DUE_BCSU36

Number of paging messages from A-interface that are rejected inside the BCSU 36

Data Source

BSS

Source Field

51183

Source Section

P_NBSC_CC_PM

PAG_FROM_A_INT_REF_DUE_BCSU37

Number of paging messages from A-interface that are rejected inside the BCSU 37

Data Source

BSS

Source Field

51184

Source Section

P_NBSC_CC_PM

PAG_FROM_A_INT_REF_DUE_BCSU38

Number of paging messages from A-interface that are rejected inside the BCSU 38

Data Source

BSS

Source Field

51185

Source Section

P_NBSC_CC_PM

PAG_FROM_A_INT_REF_DUE_BCSU39

Number of paging messages from A interface that are rejected inside the BCSU.

Data Source

BSS

Source Field

51205

Source Section

P_NBSC_CC_PM

PAG_FROM_A_INT_REF_DUE_BCSU3A

Number of paging messages from A interface that are rejected inside the BCSU.

Data Source

BSS

Source Field

51206

Source Section

P_NBSC_CC_PM

PEAK_OCCUPIED_PDTCH_DL

Peak number of simultaneously occupied downlink GPRS/EDGE RTSLs within a measurement period. RTSL is occupied for the whole TBF duration, also when there is no transmission.

Data Source

BSC

Source Field

110002

Source Section

RBS_PS_PCUUTIL_PCU_RAW

PEAK_OCCUPIED_PDTCH_UL

Peak number of simultaneously occupied uplink GPRS/EDGE RTSLs within a measurement period. RTSL is occupied for the whole TBF duration, also when there is no transmission.

Data Source

BSC

Source Field

110001

Source Section

RBS_PS_PCUUTIL_PCU_RAW

PEAK_RESERVED_PCUPCM_CH

Peak number of reserved PCUPCM (16 kbit/s) channels. All reserved channels within a measurement period are taken into account: GPRS channels, EGPRS master and slave channels.

Data Source

BSC

Source Field

110000

Source Section

RBS_PS_PCUUTIL_PCU_RAW

PERIOD_REAL_START_TIME_TRX_AV

The real starting time of a period

Data Source

BSS

Source Section

P_NBSC_TRX_AVAIL

PERIOD_REAL_STOP_TIME_TRX_AV

The real stopping time of a period

Data Source

BSS

Source Section

P_NBSC_TRX_AVAIL

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

PS_PAG_REF_DUE_BCSU30_BIGLOAD

Number of rejected PS paging messages inside the BCSU 30

Data Source

BSS

Source Field

51159

Source Section

P_NBSC_CC_PM

PS_PAG_REF_DUE_BCSU31_BIGLOAD

Number of rejected PS paging messages inside the BCSU 31

Data Source

BSS

Source Field

51160

Source Section

P_NBSC_CC_PM

PS_PAG_REF_DUE_BCSU32_BIGLOAD

Number of rejected PS paging messages inside the BCSU 32

Data Source

BSS

Source Field

51161

Source Section

P_NBSC_CC_PM

PS_PAG_REF_DUE_BCSU33_BIGLOAD

Number of rejected PS paging messages inside the BCSU 33

Data Source

BSS

Source Field

51162

Source Section

P_NBSC_CC_PM

PS_PAG_REF_DUE_BCSU34_BIGLOAD

Number of rejected PS paging messages inside the BCSU 34

Data Source

BSS

Source Field

51163

Source Section

P_NBSC_CC_PM

PS_PAG_REF_DUE_BCSU35_BIGLOAD

Number of rejected PS paging messages inside the BCSU 35

Data Source

BSS

Source Field

51164

Source Section

P_NBSC_CC_PM

PS_PAG_REF_DUE_BCSU36_BIGLOAD

Number of rejected PS paging messages inside the BCSU 36

Data Source

BSS

Source Field

51165

Source Section

P_NBSC_CC_PM

PS_PAG_REF_DUE_BCSU37_BIGLOAD

Number of rejected PS paging messages inside the BCSU 37

Data Source

BSS

Source Field

51166

Source Section

P_NBSC_CC_PM

PS_PAG_REF_DUE_BCSU38_BIGLOAD

Number of rejected PS paging messages inside the BCSU 38

Data Source

BSS

Source Field

51167

Source Section

P_NBSC_CC_PM

PS_PAG_REF_DUE_BCSU39_BIGLOAD

Number of rejected ps-paging messages inside the BCSU.

Data Source

BSS

Source Field

51201

Source Section

P_NBSC_CC_PM

PS_PAG_REF_DUE_BCSU3A_BIGLOAD

Number of rejected ps-paging messages inside the BCSU.

Data Source

BSS

Source Field

51202

Source Section

P_NBSC_CC_PM

SETUP_FAILURES

Setup failures

Data Source

BSS

Source Field

51006

Source Section

P_NBSC_CC_PM

SETUP_SUCCESSFUL

Setup successful

Data Source

BSS

Source Field

51016

Source Section

P_NBSC_CC_PM

TCH_FAILS

TCH fails

Data Source

BSS

Source Field

51008

Source Section

P_NBSC_CC_PM

TCH_SEIZURES

TCH seizures

Data Source

BSS

Source Field

51018

Source Section

P_NBSC_CC_PM

BTS Primitive Calculations

The following is a list of primitive calculations for the BTS entity.

AVERAGE_CALL_LENGTH

Average call length

Calculation

$$\frac{(\text{PERLENSEC} * \text{AVE_BUSY_TCH} / \text{RES_AV_DENOM14})}{(\text{TCH_NORM_SEIZ} + \text{MSC_I_SDCCH_TCH} + \text{BSC_I_SDCCH_TCH} + \text{CELL_SDCCH_TCH} + \text{TCH_SEIZ_DUE_SDCCH_CON})}$$

AVERAGE_ISABH_HOLD_TIME

Average ISABH Hold Time in Minutes

Calculation

$$(\text{PERLENSEC} * \text{AVE_BUSY_TCH} / \text{RES_AV_DENOM14}) / \text{TCH_NORM_SEIZ}$$

AVG_DL_QUAL

Average Downlink Quality

Calculation

$$\text{AGGR}(\text{TRX}, \text{AVG_DL_QUAL})$$

AVG_FTCH_HOLD_TIME

Average FTCH holding time

Calculation

$$100 * (\text{AVE_FTCH_HOLD_TIM} / \text{RES_AV_DENOM17})$$

AVG_SDCCH_TRAFF_ERL

Average SDCCH traffic erlang

Calculation

$$\text{AVE_BUSY_SDCCH} / \text{RES_AV_DENOM15}$$

AVG_TCH_TRAFF_ERL

Average TCH traffic erlang

Calculation

$$\text{AVE_BUSY_TCH} / \text{RES_AV_DENOM14}$$

AVG_TOTAL_TRAFFIC

Average SDCCH traffic Erlang and Average TCH traffic erlang

Calculation

$$(AVE_BUSY_TCH / RES_AV_DENOM14) + (AVE_BUSY_SDCCH / RES_AV_DENOM15)$$

AVG_UL_QUAL

Average Uplink Quality

Calculation

$$AGGR(TRX, AVG_UL_QUAL)$$

AVG_VOL_WGHT_LLC_TROUGHPUT_DEN

DL TBF duration for 4 TSL capable MS in EDGE mode.

Calculation

$$SPARE072110$$

AVG_VOL_WGHT_LLC_TROUGHPUT_NUM

DL LLC bytes for 4 TSL capable MS in EDGE mode.

Calculation

$$SPARE072109$$

BAD_DL_QUAL

Bad DL Quality

Calculation

$$AGGR(TRX, BAD_DL_QUAL)$$

BAD_UL_QUAL

Bad UL Quality

Calculation

$$AGGR(TRX, BAD_UL_QUAL)$$

BLOCKED_ATTEMPTS

The SD seizure att that are unsucc because all SDs are busy

Calculation

$$SDCCH_BUSY_ATT$$

BSC_I_INT_HO_TO_EXT

Number of BSC incoming internal handovers that are aborted and changed to external.

Calculation

SPARE004184

BSC_INC_HO_ATT

BSC incoming HO attempts

Calculation

$\text{VSUM}(\text{BSC_I_TCH_TCH_AT}, \text{BSC_I_SDCCH_TCH_AT}, \text{BSC_I_SDCCH_AT})$

BSC_INC_HO_SUCC

BSC incoming HO success

Calculation

$\text{VSUM}(\text{BSC_I_TCH_TCH}, \text{BSC_I_SDCCH_TCH}, \text{BSC_I_SDCCH})$

BSC_O_INT_HO_TO_EXT

Number of BSC outgoing internal handovers that are aborted and changed to external.

Calculation

SPARE004185

BSC_OUT_HO_ATT

BSC outgoing HO attempts

Calculation

$\text{VSUM}(\text{BSC_O_TCH_TCH_AT}, \text{BSC_O_SDCCH_TCH_AT}, \text{BSC_O_SDCCH_AT})$

BSC_OUT_HO_SUCC

BSC outgoing HO success

Calculation

$\text{VSUM}(\text{BSC_O_TCH_TCH}, \text{BSC_O_SDCCH_TCH}, \text{BSC_O_SDCCH})$

BTSGOS

Grade of Service

Calculation

CALL_ATTEMPTS

SDCCH seizure attempts

Calculation

SDCCH_SEIZ_ATT

CONG_TIME_RATE

Congestion Time Rate

Calculation

$100 * ((TCH_CONG_TIME / 100) / (PERLENSSEC))$

DIGITAL_LOST_CALLS

Digital Lost Calls

Calculation

$100 * ((TCH_RADIO_FAIL_CELL + TCH_RF_OLD_HO + TCH_ABIS_FAIL_CALL + TCH_ABIS_FAIL_OLD + TCH_A_IF_FAIL_CALL + TCH_A_IF_FAIL_OLD + TCH_TR_FAIL + TCH_TR_FAIL_OLD + TCH_LAPD_FAIL + TCH_BTS_FAIL + TCH_USER_ACT + TCH_BCSU_RESET + TCH_NETW_ACT + TCH_ACT_FAIL_CALL) / TCH_NORM_SEIZ)$

DIGITAL_LOST_CALLS_AREA

Digital Lost Calls

Calculation

$100.0 * (SPARE057044 / TCH_NEW_CALL_ASSIGN)$

DL_TRF_10_2_KBITS_S

Dnl TRF at 10.2 Kbits/s

Calculation

AGGR(TRX, DL_TRF_10_2_KBITS_S)

DL_TRF_12_2_KBITS_S

Dnl TRF at 12.2 Kbits/s

Calculation

AGGR(TRX, DL_TRF_12_2_KBITS_S)

DL_TRF_4_75_KBITS_S

Dnl TRF at 4.75 Kbits/s

Calculation

AGGR (TRX, DL_TRF_4_75_KBITS_S)

DL_TRF_5_15_KBITS_S

Dnl TRF at 5.15 Kbits/s

Calculation

AGGR (TRX, DL_TRF_5_15_KBITS_S)

DL_TRF_5_9_KBITS_S

Dnl TRF at 5.9 Kbits/s

Calculation

AGGR (TRX, DL_TRF_5_9_KBITS_S)

DL_TRF_6_7_KBITS_S

Dnl TRF at 6.7 Kbits/s

Calculation

AGGR (TRX, DL_TRF_6_7_KBITS_S)

DL_TRF_7_4_KBITS_S

Dnl TRF at 7.4 Kbits/s

Calculation

AGGR (TRX, DL_TRF_7_4_KBITS_S)

DL_TRF_7_95_KBITS_S

Dnl TRF at 7.95 Kbits/s

Calculation

AGGR (TRX, DL_TRF_7_95_KBITS_S)

DOWNLINK_RESOURCE_CONGESTION

GPRS Downlink Resource Congestion Metric

Calculation

$$100.0 * ((NO_RADIO_RES_AVA_DL_TBF + DL_TBF_ESTABLISHMENT_FAILED) / \\ (REQ_1_TSL_DL + REQ_2_TSL_UL + REQ_3_TSL_DL + REQ_4_TSL_DL + \\ REQ_5_8_TSL_DL))$$

DREC

DREC %

Calculation

$$100 * (TCH_REQ_REJ_LACK + TCH_QD_HO_ATT + TCH_QD_CALL_ATT - \\ UNSRV_QD_HO_ATT - UNSRV_QD_CALL_ATT + MSC_O_SDCCH_TCH_AT + \\ BSC_O_SDCCH_TCH_AT - TCH_REJ_DUE_REQ_CH_A_IF_CRC) / (TCH_REQUEST - \\ TCH_REJ_DUE_REQ_CH_A_IF_CRC)$$

DROPS_AFTER_TCH_ASSIGNMENT

Number of CTM calls requesting traffic channel.

Calculation

SPARE057044

EXT_SOURCE_HO_FAIL

External source HO failure

Calculation

$$100 * EXT_HO_SOURCE_FAIL / VSUM(EXT_HO_SOURCE_FAIL, EXT_HO_SOURCE_SUCC)$$

EXT_TARGET_HO_FAIL

External target HO failure

Calculation

$$100 * EXT_HO_TARGET_FAIL / (EXT_HO_TARGET_FAIL + EXT_HO_TARGET_SUCC)$$

GPRS__INEFFICIENT_CELLS_DOWNLINK

GPRS Inefficient Cells Downlink Metric

Calculation

$$100.0 * ((RETRA_RLC_DATA_BLOCKS_DL_CS1 + RETRA_RLC_DATA_BLOCKS_DL_CS2) / \\ (RLC_DATA_BLOCKS_DL_CS1 + RLC_DATA_BLOCKS_DL_CS2 + \\ RETRA_RLC_DATA_BLOCKS_DL_CS1 + RETRA_RLC_DATA_BLOCKS_DL_CS2))$$

GPRS__INEFFICIENT_CELLS_UPLINK

GPRS Inefficient Cells Uplink Metric

Calculation

$$100.0 * ((SPARE072107 + SPARE072108) / (RLC_DATA_BLOCKS_UL_CS1 + \\ RLC_DATA_BLOCKS_UL_CS2 + SPARE072107 + SPARE072108))$$

GPRS_RADIO_AVAIL

GPRS Radios Available

Calculation

$\text{AVE_GPRS_CHANNELS_SUM} / \text{AVE_GPRS_CHANNELS_DEN}$

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

HO_ATTEMPTS_2

HO attempts

Calculation

$\text{VSUM}(\text{MSC_I_TCH_TCH_AT}, \text{MSC_I_SDCCH_TCH_AT}, \text{MSC_I_SDCCH_AT},$
 $\text{MSC_O_TCH_TCH_AT}, \text{MSC_O_SDCCH_TCH_AT}, \text{MSC_O_SDCCH_AT}, \text{BSC_I_TCH_TCH_AT},$
 $\text{BSC_I_SDCCH_TCH_AT}, \text{BSC_I_SDCCH_AT}, \text{BSC_O_TCH_TCH_AT}, \text{BSC_O_SDCCH_TCH_AT},$
 $\text{BSC_O_SDCCH_AT}, \text{CELL_TCH_TCH_AT}, \text{CELL_SDCCH_TCH_AT}, \text{CELL_SDCCH_AT})$

HO_CAUSE_DUE_POOL_SWITCHING

The counter records the occurrence of the root causes of the external handover before A interface pool switching. The counter records only the external handovers for which A interface pool switching is required. The causes of the original handover can be checked with a bit mask table.

Calculation

SPARE004170

HO_DL_INTERFERENCE

Handover due to high interference on DL

Calculation

$100 * \text{CAUSE_INTFER_DWN} / (\text{MSC_I_TCH_TCH_AT} + \text{MSC_I_SDCCH_TCH_AT} +$
 $\text{MSC_I_SDCCH_AT} + \text{MSC_O_TCH_TCH_AT} + \text{MSC_O_SDCCH_TCH_AT} + \text{MSC_O_SDCCH_AT} +$
 $\text{BSC_I_TCH_TCH_AT} + \text{BSC_I_SDCCH_TCH_AT} + \text{BSC_I_SDCCH_AT} + \text{BSC_O_TCH_TCH_AT} +$
 $\text{BSC_O_SDCCH_TCH_AT} + \text{BSC_O_SDCCH_AT} + \text{CELL_TCH_TCH_AT} + \text{CELL_SDCCH_TCH_AT} +$
 $\text{CELL_SDCCH_AT})$

HO_DL_LEVEL

Handover due to bad DL level

Calculation

$$100 * \text{CAUSE_DOWN_LEV} / (\text{MSC_I_TCH_TCH_AT} + \text{MSC_I_SDCCH_TCH_AT} + \text{MSC_I_SDCCH_AT} + \text{MSC_O_TCH_TCH_AT} + \text{MSC_O_SDCCH_TCH_AT} + \text{MSC_O_SDCCH_AT} + \text{BSC_I_TCH_TCH_AT} + \text{BSC_I_SDCCH_TCH_AT} + \text{BSC_I_SDCCH_AT} + \text{BSC_O_TCH_TCH_AT} + \text{BSC_O_SDCCH_TCH_AT} + \text{BSC_O_SDCCH_AT} + \text{CELL_TCH_TCH_AT} + \text{CELL_SDCCH_TCH_AT} + \text{CELL_SDCCH_AT})$$

HO_DL_QUAL

Handover due to bad DL quality

Calculation

$$100 * \text{CAUSE_DOWN_QUAL} / (\text{MSC_I_TCH_TCH_AT} + \text{MSC_I_SDCCH_TCH_AT} + \text{MSC_I_SDCCH_AT} + \text{MSC_O_TCH_TCH_AT} + \text{MSC_O_SDCCH_TCH_AT} + \text{MSC_O_SDCCH_AT} + \text{BSC_I_TCH_TCH_AT} + \text{BSC_I_SDCCH_TCH_AT} + \text{BSC_I_SDCCH_AT} + \text{BSC_O_TCH_TCH_AT} + \text{BSC_O_SDCCH_TCH_AT} + \text{BSC_O_SDCCH_AT} + \text{CELL_TCH_TCH_AT} + \text{CELL_SDCCH_TCH_AT} + \text{CELL_SDCCH_AT})$$

HO_FAIL_RATE

Handover fail rate

Calculation

$$100 * ((\text{MSC_I_TCH_TCH_AT} + \text{MSC_I_SDCCH_TCH_AT} + \text{MSC_I_SDCCH_AT} + \text{MSC_O_TCH_TCH_AT} + \text{MSC_O_SDCCH_TCH_AT} + \text{MSC_O_SDCCH_AT} + \text{BSC_I_TCH_TCH_AT} + \text{BSC_I_SDCCH_TCH_AT} + \text{BSC_I_SDCCH_AT} + \text{BSC_O_TCH_TCH_AT} + \text{BSC_O_SDCCH_TCH_AT} + \text{BSC_O_SDCCH_AT} + \text{CELL_TCH_TCH_AT} + \text{CELL_SDCCH_TCH_AT} + \text{CELL_SDCCH_AT}) - (\text{MSC_I_SUCC_HO} + \text{MSC_O_SUCC_HO} + \text{BSC_I_SUCC_HO} + \text{BSC_O_SUCC_HO} + \text{CELL_SUCC_HO})) / (\text{MSC_I_TCH_TCH_AT} + \text{MSC_I_SDCCH_TCH_AT} + \text{MSC_I_SDCCH_AT} + \text{MSC_O_TCH_TCH_AT} + \text{MSC_O_SDCCH_TCH_AT} + \text{MSC_O_SDCCH_AT} + \text{BSC_I_TCH_TCH_AT} + \text{BSC_I_SDCCH_TCH_AT} + \text{BSC_I_SDCCH_AT} + \text{BSC_O_TCH_TCH_AT} + \text{BSC_O_SDCCH_TCH_AT} + \text{BSC_O_SDCCH_AT} + \text{CELL_TCH_TCH_AT} + \text{CELL_SDCCH_TCH_AT} + \text{CELL_SDCCH_AT})$$

HO_FAIL_TOTAL

Handover failures total

Calculation

$$((\text{MSC_I_TCH_TCH_AT} + \text{MSC_I_SDCCH_TCH_AT} + \text{MSC_I_SDCCH_AT} + \text{MSC_O_TCH_TCH_AT} + \text{MSC_O_SDCCH_TCH_AT} + \text{MSC_O_SDCCH_AT} + \text{BSC_I_TCH_TCH_AT} + \text{BSC_I_SDCCH_TCH_AT} + \text{BSC_I_SDCCH_AT} + \text{BSC_O_TCH_TCH_AT} + \text{BSC_O_SDCCH_TCH_AT} + \text{BSC_O_SDCCH_AT} + \text{CELL_TCH_TCH_AT} + \text{CELL_SDCCH_TCH_AT} + \text{CELL_SDCCH_AT}) - (\text{MSC_I_SUCC_HO} + \text{MSC_O_SUCC_HO} + \text{BSC_I_SUCC_HO} + \text{BSC_O_SUCC_HO} + \text{CELL_SUCC_HO}))$$

HO_INTER_CELL_ATT

Inter cell HO attempts

Calculation

$$\text{INT_INTER_HO_SOURCE_FAIL} + \text{INT_INTER_HO_SUCC}$$

HO_INTER_CELL_SUCC

Inter cell HO success

Calculation

$$100 * \text{INT_INTER_HO_SUCC} / (\text{INT_INTER_HO_SOURCE_FAIL} + \text{INT_INTER_HO_SUCC})$$

HO_INTRA_CELL_ATT

Intra cell HO attempts

Calculation

$$(\text{CELL_TCH_TCH_AT} + \text{CELL_SDCCH_AT} + \text{CELL_SDCCH_TCH_AT})$$

HO_INTRA_CELL_DL_LEV

The number of handover attempts due to downlink quality

Calculation

$$\text{CAUSE_DOWN_QUAL}$$

HO_INTRA_CELL_SUCC

Intra-cell HO Succ

Calculation

$$100 * (\text{CELL_TCH_TCH} + \text{CELL_SDCCH_TCH} + \text{CELL_SDCCH}) / (\text{CELL_TCH_TCH_AT} + \text{CELL_SDCCH_TCH_AT} + \text{CELL_SDCCH_AT})$$

HO_INTRA_CELL_UL_LEV

The number of handover attempts due to uplink level

Calculation

$$\text{CAUSE_UP_LEVEL}$$

HO_PW_BUDGET

Handover due to power budget rate

Calculation

$$100 * \text{CAUSE_PBDGT} / (\text{MSC_I_TCH_TCH_AT} + \text{MSC_I_SDCCH_TCH_AT} + \text{MSC_I_SDCCH_AT} + \text{MSC_O_TCH_TCH_AT} + \text{MSC_O_SDCCH_TCH_AT} + \text{MSC_O_SDCCH_AT} + \text{BSC_I_TCH_TCH_AT} + \text{BSC_I_SDCCH_TCH_AT} + \text{BSC_I_SDCCH_AT} + \text{BSC_O_TCH_TCH_AT} + \text{BSC_O_SDCCH_TCH_AT} + \text{BSC_O_SDCCH_AT} + \text{CELL_TCH_TCH_AT} + \text{CELL_SDCCH_TCH_AT} + \text{CELL_SDCCH_AT})$$

HO_UL_INTERFERENCE

Handover due to high interference on UL

Calculation

```
100 * CAUSE_INTFER_UP / (MSC_I_TCH_TCH_AT + MSC_I_SDCCH_TCH_AT +  
MSC_I_SDCCH_AT + MSC_O_TCH_TCH_AT + MSC_O_SDCCH_TCH_AT + MSC_O_SDCCH_AT +  
BSC_I_TCH_TCH_AT + BSC_I_SDCCH_TCH_AT + BSC_I_SDCCH_AT + BSC_O_TCH_TCH_AT +  
BSC_O_SDCCH_TCH_AT + BSC_O_SDCCH_AT + CELL_TCH_TCH_AT + CELL_SDCCH_TCH_AT +  
CELL_SDCCH_AT)
```

HO_UL_LEVEL

Handover due to bad UL level

Calculation

```
100 * CAUSE_UP_LEVEL / (MSC_I_TCH_TCH_AT + MSC_I_SDCCH_TCH_AT +  
MSC_I_SDCCH_AT + MSC_O_TCH_TCH_AT + MSC_O_SDCCH_TCH_AT + MSC_O_SDCCH_AT +  
BSC_I_TCH_TCH_AT + BSC_I_SDCCH_TCH_AT + BSC_I_SDCCH_AT + BSC_O_TCH_TCH_AT +  
BSC_O_SDCCH_TCH_AT + BSC_O_SDCCH_AT + CELL_TCH_TCH_AT + CELL_SDCCH_TCH_AT +  
CELL_SDCCH_AT)
```

HO_UL_QUAL

Handover due to bad UL quality

Calculation

```
100 * CAUSE_UP_QUAL / (MSC_I_TCH_TCH_AT + MSC_I_SDCCH_TCH_AT +  
MSC_I_SDCCH_AT + MSC_O_TCH_TCH_AT + MSC_O_SDCCH_TCH_AT + MSC_O_SDCCH_AT +  
BSC_I_TCH_TCH_AT + BSC_I_SDCCH_TCH_AT + BSC_I_SDCCH_AT + BSC_O_TCH_TCH_AT +  
BSC_O_SDCCH_TCH_AT + BSC_O_SDCCH_AT + CELL_TCH_TCH_AT + CELL_SDCCH_TCH_AT +  
CELL_SDCCH_AT)
```

INC_HO_ATT

Incoming HO attempts

Calculation

```
VSUM(MSC_I_TCH_TCH_AT, MSC_I_SDCCH_TCH_AT, MSC_I_SDCCH_AT,  
BSC_I_TCH_TCH_AT, BSC_I_SDCCH_TCH_AT, BSC_I_SDCCH_AT)
```

INC_HO_SUCC

Incoming HO success %

Calculation

```
100 * (VSUM(MSC_I_TCH_TCH, BSC_I_TCH_TCH)) / (MSC_I_TCH_TCH_AT +  
BSC_I_TCH_TCH_AT)
```

INT_INTER_HO_FAIL

Internal inter HO Failure

Calculation

```
100.0 * INT_INTER_HO_SOURCE_FAIL / vsum( INT_INTER_HO_SOURCE_FAIL,  
INT_INTER_HO_SUCC )
```

INT_INTRA_HO_FAIL

Internal intra HO Failure

Calculation

```
100.0 * INT_INTRA_HO_SOURCE_FAIL / vsum( INT_INTRA_HO_SOURCE_FAIL,  
INT_INTRA_HO_SUCC )
```

INTRA_CELL_HO_ATT

Intra-cell HO attempts

Calculation

```
VSUM(CELL_TCH_TCH_AT, CELL_SDCCH_TCH_AT, CELL_SDCCH_AT)
```

INTRA_CELL_HO_FAIL_SHARE_1

Intra cell HO fail share

Calculation

```
100 * (VSUM(CELL_TCH_TCH_AT, CELL_SDCCH_TCH_AT, CELL_SDCCH_AT, - 1.0 *  
CELL_SUCC_HO) /  
vsum(MSC_I_TCH_TCH_AT, MSC_I_SDCCH_TCH_AT, MSC_I_SDCCH_AT, MSC_O_TCH_TCH_AT, M  
SC_O_SDCCH_TCH_AT, MSC_O_SDCCH_AT, BSC_I_TCH_TCH_AT, BSC_I_SDCCH_TCH_AT, BSC_I  
_SDCCH_AT, BSC_O_TCH_TCH_AT, BSC_O_SDCCH_TCH_AT, BSC_O_SDCCH_AT, CELL_TCH_TCH_  
AT, CELL_SDCCH_TCH_AT, CELL_SDCCH_AT))
```

MEAN_DEFINED_TCH_FR

The denominator of the average number of available full rate radio TCHs always 0

Calculation

```
RES_AV_DENOM2
```

MSC_I_INT_HO_TO_EXT

Number of MSC incoming handovers that were generated from internal handover.

Calculation

```
SPARE004186
```

MSC_INC_HO_ATT

MSC incoming HO attempts

Calculation

VSUM(MSC_I_TCH_TCH_AT, MSC_I_SDCCH_TCH_AT, MSC_I_SDCCH_AT)

MSC_INC_HO_SUCC

MSC incoming HO success

Calculation

VSUM(MSC_I_TCH_TCH, MSC_I_SDCCH_TCH, MSC_I_SDCCH)

MSC_O_INT_HO_TO_EXT

Number of MSC outgoing handovers that were generated from internal handover.

Calculation

SPARE004187

MSC_OUT_HO_ATT

MSC outgoing HO attempts

Calculation

VSUM(MSC_O_TCH_TCH_AT, MSC_O_SDCCH_TCH_AT, MSC_O_SDCCH_AT)

MSC_OUT_HO_SUCC

MSC outgoing HO success

Calculation

VSUM(MSC_O_TCH_TCH, MSC_O_SDCCH_TCH, MSC_O_SDCCH)

NBR_OF_INT_HO_TO_EXT

Number of internal to external handovers

Calculation

SPARE001217

NBR_OF_NOT_CHANGED_INT_HO

Number of internal handovers that should be changed to external but it is not allowed

Calculation

SPARE001218

NUMDAYS

of days in Report

Calculation

DAYSINREPORT()

NUMHOURS

of hours in Summation Data

Calculation

OUT_HO_ATT

Outgoing HO attempts

Calculation

$$\text{VSUM}(\text{MSC_O_TCH_TCH_AT}, \text{MSC_O_SDCCH_TCH_AT}, \text{MSC_O_SDCCH_AT}, \\ \text{BSC_O_TCH_TCH_AT}, \text{BSC_O_SDCCH_TCH_AT}, \text{BSC_O_SDCCH_AT})$$

OUT_HO_SUCC

Outgoing HO success % S1 (hsr_19)

Calculation

$$100 * ((\text{MSC_O_TCH_TCH} + \text{BSC_O_TCH_TCH}) / (\text{MSC_O_TCH_TCH_AT} + \\ \text{BSC_O_TCH_TCH_AT}))$$

PD_ACC_SUCC_RATE

Access Success Rate

Calculation

$$100 * ((\text{RLC_DATA_BLOCKS_UL_CS1} + \text{RLC_DATA_BLOCKS_UL_CS2} + \\ \text{RLC_MAC_CNTRL_BLOCKS_UL} + \text{BAD_FRAME_IND_UL_CS1} + \text{BAD_FRAME_IND_UL_CS2} + \\ \text{BAD_FRAME_IND_UL_UNACK} + \text{IGNOR_RLC_DATA_BL_UL_DUE_BSN}) / (\text{PERLENSEC}) * 50)$$

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

SDCCH_AVAILABILITY

SDCCH availability

Calculation

$$100 * ((\text{AVE_SDCCH_SUB} / \text{RES_AV_DENOM3}) / ((\text{AVE_SDCCH_SUB} / \text{RES_AV_DENOM3}) + \\ \text{AVE_NON_AVAIL_SDCCH}))$$

SDCCH_BLOCKING

SDCCH blocking

Calculation

$$100 * (\text{SDCCH_BUSY_ATT}) / (\text{SDCCH_SEIZ_ATT})$$

SDCCH_CALL_RE_EST

The number of successful SDCCH seizures for call re establishment

Calculation

$$\text{AGGR}(\text{TRX}, \text{SDCCH_CALL_RE_EST})$$

SDCCH_CONG_TIME_S

SDCCH Congestion Time in s

Calculation

$$\text{SDCCH_CONG_TIME} / 100$$

SDCCH_DROP_BLOCK_EXC

SDCCH drop blocking excluded

Calculation

$$100 * (\text{VSUM}(\text{SDCCH_RADIO_FAIL}, \text{SDCCH_RF_OLD_HO}, \text{SDCCH_USER_ACT}, \text{SDCCH_BCSU_RESET}, \text{SDCCH_NETW_ACT}, \text{SDCCH_ABIS_FAIL_CALL}, \text{SDCCH_ABIS_FAIL_OLD}, \text{SDCCH_BTS_FAIL}, \text{SDCCH_LAPD_FAIL}, \text{SDCCH_A_IF_FAIL_CALL}, \text{SDCCH_A_IF_FAIL_OLD})) / (\text{VSUM}(\text{SDCCH_ASSIGN}, \text{SDCCH_HO_SEIZ})))$$

SDCCH_DROP_CALLS

SDCCH drop calls

Calculation

$$\text{VSUM}(\text{SDCCH_RADIO_FAIL}, \text{SDCCH_RF_OLD_HO}, \text{SDCCH_ABIS_FAIL_CALL}, \text{SDCCH_ABIS_FAIL_OLD}, \text{SDCCH_A_IF_FAIL_CALL}, \text{SDCCH_A_IF_FAIL_OLD}, \text{SDCCH_LAPD_FAIL}, \text{SDCCH_BTS_FAIL}, \text{SDCCH_BCSU_RESET}, \text{SDCCH_USER_ACT}, \text{SDCCH_NETW_ACT})$$

SDCCH_EMERG_CALL

The number of successful SDCCH seizures for an emergency call

Calculation

$$\text{AGGR}(\text{TRX}, \text{SDCCH_EMERG_CALL})$$

SDCCH_REAL_BLOCKING

SDCCH real blocking %

Calculation

$$100 * ((\text{SDCCH_BUSY_ATT} - \text{TCH_SEIZ_DUE_SDCCH_CON}) / (\text{SDCCH_SEIZ_ATT} + \text{SDCCH_SEIZ_ATT}))$$

SDCCH_SUCCESS_RATIO

SDCCH success ratio BTS

Calculation

$$100 * ((\text{TCH_NORM_SEIZ}) / ((\text{SUCC_SEIZ_TERM} + \text{SUCC_SEIZ_ORIG} + \text{SDCCH_CALL_RE_EST} + \text{SDCCH_EMERG_CALL}) - (\text{SUCC_SDCCH_SMS_EST} + \text{UNSUCC_SDCCH_SMS_EST}) + (\text{MSC_I_SDCCH} + \text{BSC_I_SDCCH} - \text{MSC_O_SDCCH} - \text{BSC_O_SDCCH}) - (\text{TCH_CALL_REQ} - \text{TCH_NORM_SEIZ})))$$

SDCCH_TCH_SETUP_SUCCESS

Setup success ratio including SDCCH and TCH. It works also in the case of DR

Calculation

$$100 * (1 - (\text{VSUM}(\text{CALL_SETUP_FAILURE}) / \text{VSUM}(\text{SETUP_SUCC}, \text{CALL_SETUP_FAILURE})))$$

SERVICE_DENY

Service Deny

Calculation

$$100 * (\text{SDCCH_BUSY_ATT} - \text{TCH_SEIZ_DUE_SDCCH_CON}) / (\text{SDCCH_SEIZ_ATT})$$

SUCC_HO

Successful handover

Calculation

$$\text{MSC_I_SUCC_HO} + \text{MSC_O_SUCC_HO} + \text{BSC_I_SUCC_HO} + \text{BSC_O_SUCC_HO} + \text{CELL_SUCC_HO}$$

SUCC_PAK_UPLK_ACC

Success Packet Uplink Access

Calculation

$$\text{NBR_OF_UL_TBF} - (\text{UL_TBF_REL_DUE_CSW_TRAFFIC} + \text{UL_TBF_REL_DUE_NO_RESP_MS} + \text{UL_TBF_REL_DUE_TO_FLUSH} + \text{UL_TBF_ESTABLISHMENT_FAILED} + \text{UL_TBF_REL_DUE_TO_SUSPEND} + \text{UL_EGPRS_TBF_REL_DUE_NO_RESP})$$

SUCC_RELEASED_CTM_CALL

successfully moved from SDCCH to TCH channel in normal assignment; or when MS/BTS sends Assignment Complete or Handover Complete message to BSC after successful SDCCH-TCH handover, meaning MS has successfully moved from SDCCH to TCH channel in handover

Calculation

SPARE057046

SUCC_SDCCH_SMS_EST

The number of successful SMS establishments on the SDCCH

Calculation

AGGR (TRX, SUCC_SDCCH_SMS_EST)

SUCC_SEIZ_ORIG

Successful SDCCH seizures for a mobile originating call MOC

Calculation

AGGR (TRX, SUCC_SEIZ_ORIG)

SUCC_SEIZ_TERM

Successful SDCCH seizures for a mobile terminated call MTC

Calculation

AGGR (TRX, SUCC_SEIZ_TERM)

SUCC_TCH_SEIZ_CALL_ATTEMPT

Number of succesful TCH channel seizures for a call

Calculation

SPARE001193

TCH_ASSIGN_FOR_CTM_CALL_SUCC

The count of successfully assigned traffic channels for CTM calls.

Calculation

SPARE057045

TCH_AVAIL_CSW

TCH AVAILABLE CSW

Calculation

AVE_AVAIL_TCH_SUM / AVE_AVAIL_TCH_DEN

TCH_AVAILABILITY

TCH availability

Calculation

$100 * ((\text{AVE_AVAIL_FULL_TCH} / \text{RES_AV_DENOM2}) / ((\text{AVE_AVAIL_FULL_TCH} / \text{RES_AV_DENOM2}) + \text{AVE_NON_AVAIL_TCH}))$

TCH_BLOCKING_RATIO

TCH Blocking Ratio

Calculation

$100.0 * ((\text{TCH_CALL_REQ} - \text{TCH_NORM_SEIZ}) / \text{TCH_CALL_REQ})$

TCH_CALL_RE_EST

The number of successful TCH seizures for call re establishment

Calculation

AGGR(TRX, TCH_CALL_RE_EST)

TCH_CONG_TIME_S

TCH Congestion Time in s

Calculation

TCH_CONG_TIME / 100

TCH_DROP

Number of TCH transaction failures due to radio failure

Calculation

TCH_RADIO_FAIL_CELL

TCH_DROP_CALL

TCH Drop Call

Calculation

VSUM(TCH_RADIO_FAIL_CELL, TCH_RF_OLD_HO, TCH_ABIS_FAIL_CALL, TCH_ABIS_FAIL_OLD, TCH_A_IF_FAIL_CALL, TCH_A_IF_FAIL_OLD, TCH_TR_FAIL, TCH_TR_FAIL_OLD, TCH_LAPD_FAIL, TCH_BTS_FAIL, TCH_BCSU_RESET, TCH_USER_ACT, TCH_NETW_ACT, TCH_ACT_FAIL_CALL)

TCH_DROP_CALL_RATE

Drop call on the area level

Calculation

```
100 * (VSUM(TCH_RADIO_FAIL_CELL, TCH_RF_OLD_HO, TCH_ABIS_FAIL_CALL,  
TCH_ABIS_FAIL_OLD, TCH_A_IF_FAIL_CALL, TCH_A_IF_FAIL_OLD, TCH_TR_FAIL,  
TCH_TR_FAIL_OLD, TCH_LAPD_FAIL, TCH_BTS_FAIL, TCH_USER_ACT, TCH_BCSU_RESET,  
TCH_NETW_ACT, TCH_ACT_FAIL_CALL, - 1.0 * (VSUM(SDCCH_CALL_RE_EST,  
TCH_CALL_RE_EST)) / (VSUM(TCH_NORM_SEIZ, MSC_I_SDCCH_TCH, BSC_I_SDCCH_TCH,  
CELL_SDCCH_TCH, TCH_SEIZ_DUE_SDCCH_CON) - (VSUM(SDCCH_CALL_RE_EST,  
TCH_CALL_RE_EST))))
```

TCH_FR

TCH FR %

Calculation

```
100 * (TCH_FULL_SEIZ_NORM_ASS / (TCH_FULL_SEIZ_NORM_ASS +  
TCH_HALF_SEIZ_NORM_ASS))
```

TCH_HR

TCH HR %

Calculation

```
100 * (TCH_HALF_SEIZ_NORM_ASS / (TCH_FULL_SEIZ_NORM_ASS +  
TCH_HALF_SEIZ_NORM_ASS))
```

TCH_RAW_BLOCKING

TCH raw blocking

Calculation

```
100 * (TCH_REQ_REJ_LACK) / (TCH_REQUEST)
```

TCH_REQ_REJ_DUE_NO_RES_BCSU

Number TCH requests rejected because of lack of capacity in one of the BCSU units.

Calculation

```
SPARE001216
```

TCH_REQUEST_FOR_CTM_CALL

The count of CTM calls requesting traffic channel.

Calculation

```
SPARE057043
```

TCH_REQUESTS_CALL_ATTEMPT

Number of TCH channel requests for a call

Calculation

SPARE001192

TCH_SEIZ_FR

TCH Seizures Full Rate for Normal Asgmt

Calculation

TCH_FULL_SEIZ_NORM_ASS

TCH_SEIZ_HR

TCH Seizures Half Rate for Normal Asgmt

Calculation

TCH_HALF_SEIZ_NORM_ASS

TCH_SEIZ_NEW_CALL

TCH seizures for new call

Calculation

TCH_NORM_SEIZ

TCH_TRAFFIC_SUM

TCH traffic sum

Calculation

AVE_BUSY_TCH / RES_AV_DENOM14

TOT_HO_FAIL_1

Total HO failure

Calculation

$$100 * (1 - (\text{VSUM}(\text{MSC_I_SUCC_HO}, \text{MSC_O_SUCC_HO}, \text{BSC_I_SUCC_HO}, \text{BSC_O_SUCC_HO}, \text{CELL_SUCC_HO}) / (\text{MSC_I_TCH_TCH_AT} + \text{MSC_I_SDCCH_TCH_AT} + \text{MSC_I_SDCCH_AT} + \text{MSC_O_TCH_TCH_AT} + \text{MSC_O_SDCCH_TCH_AT} + \text{MSC_O_SDCCH_AT} + \text{BSC_O_TCH_TCH_AT} + \text{BSC_O_SDCCH_TCH_AT} + \text{BSC_O_SDCCH_AT} + \text{BSC_I_TCH_TCH_AT} + \text{BSC_I_SDCCH_TCH_AT} + \text{BSC_I_SDCCH_AT} + \text{CELL_TCH_TCH_AT} + \text{CELL_SDCCH_TCH_AT} + \text{CELL_SDCCH_AT})))$$

TOTAL_DL_QUAL

Total Downlink Quality

Calculation

AGGR (TRX, TOTAL_DL_QUAL)

TOTAL_TCH_SEIZURE_TIME_S

Total TCH seizure time (call time in seconds)

Calculation

(PERLENSEC * AVE_BUSY_TCH) / RES_AV_DENOM14

TOTAL_UL_QUAL

Total Uplink Quality

Calculation

AGGR (TRX, TOTAL_UL_QUAL)

TOTAL_USAGE_DL

Total Usage DL

Calculation

AGGR (TRX, TOTAL_USAGE_DL)

TOTAL_USAGE_UL

Total Usage UL

Calculation

AGGR (TRX, TOTAL_USAGE_UL)

UL_TRF_10_2_KBITS_S

Dnl TRF at 10.2 Kbits/s

Calculation

AGGR (TRX, UL_TRF_10_2_KBITS_S)

UL_TRF_12_2_KBITS_S

Dnl TRF at 12.2 Kbits/s

Calculation

AGGR (TRX, UL_TRF_12_2_KBITS_S)

UL_TRF_4_75_KBITS_S

Dnl TRF at 4.75 Kbits/s

Calculation

AGGR (TRX, UL_TRF_4_75_KBITS_S)

UL_TRF_5_15_KBITS_S

Dnl TRF at 5.15 Kbits/s

Calculation

AGGR (TRX, UL_TRF_5_15_KBITS_S)

UL_TRF_5_9_KBITS_S

Dnl TRF at 5.9 Kbits/s

Calculation

AGGR (TRX, UL_TRF_5_9_KBITS_S)

UL_TRF_6_7_KBITS_S

Dnl TRF at 6.7 Kbits/s

Calculation

AGGR (TRX, UL_TRF_6_7_KBITS_S)

UL_TRF_7_4_KBITS_S

Dnl TRF at 7.4 Kbits/s

Calculation

AGGR (TRX, UL_TRF_7_4_KBITS_S)

UL_TRF_7_95_KBITS_S

Dnl TRF at 7.95 Kbits/s

Calculation

AGGR (TRX, UL_TRF_7_95_KBITS_S)

UNSUCC_SDCCH_SMS_EST

The number of unsuccessful SMS establishment on SDCCH

Calculation

AGGR (TRX, UNSUCC_SDCCH_SMS_EST)

UPLINK_RESOURCE_CONGESTION

GPRS Uplink Resource Congestion Metric

Calculation

$$100.0 * ((\text{NO_RADIO_RES_AVA_UL_TBF} + \text{UL_TBF_ESTABLISHMENT_FAILED}) / (\text{REQ_1_TSL_UL} + \text{REQ_2_TSL_UL} + \text{REQ_3_TSL_UL} + \text{REQ_4_TSL_UL} + \text{REQ_5_8_TSL_UL}))$$

BTS Peg Counts

The following is a list of peg counts for the BTS entity.

A_IF_CRC_MISMATCH_CALL_SETUP

Number of the TCH requests rejected because of the mismatch between the types of the requested channel and the A interface circuit, updated in call setup phase only. UPDATED: When the RRM changes the A interface circuit pool before the TCH allocation. DEPENDENCIES WITH OTHER COUNTERS: Counter 001122 is updated together with this counter. RELATED TO FEATURE: BSS115168 CS Measurement Improvements.

Data Source

BSS

Source Field

1208

Source Section

P_NBSC_TRAFFIC

ALA_FROM_14400_TO_9600

The Nof Automatic Link Adaptations (ALA) from 14.4 kbit/s to 9.6 kbit/s coding.

Data Source

BSS

Source Field

67031

Source Section

P_NBSC_HIGH_SPEED_DATA

ALA_FROM_9600_TO_14400

The Nof Automatic Link Adaptations (ALA) from 9.6 kbit/s to 14.4 kbit/s coding.

Data Source

BSS

Source Field

67032

Source Section

P_NBSC_HIGH_SPEED_DATA

ALLOC_1_TSL_DL

Number of ITSL allocated for one TBF in downlink allocation.

Data Source

BSS

Source Field

72049

Source Section

P_NBSC_PACKET_CONTROL_UNIT

ALLOC_1_TSL_UL

Number of ITSL allocated for one TBF in uplink allocation.

Data Source

BSS

Source Field

72044

Source Section

P_NBSC_PACKET_CONTROL_UNIT

ALLOC_10_TSL_DL

Number of allocations for 10 TSLs in DL TBF allocation or reallocation.

Data Source

BSS

Source Field

72255

Source Section

P_NBSC_PACKET_CONTROL_UNIT

ALLOC_2_TSL_DL

Number of 2 TSLs allocated for one TBF in downlink allocation.

Data Source

BSS

Source Field

72050

Source Section

P_NBSC_PACKET_CONTROL_UNIT

ALLOC_2_TSL_UL

Number of 2 TSLs allocated for one TBF in uplink allocation.

Data Source

BSS

Source Field

72045

Source Section

P_NBSC_PACKET_CONTROL_UNIT

ALLOC_3_TSL_DL

Number of 2 TSLs allocated for one TBF in downlink allocation.

Data Source

BSS

Source Field

72051

Source Section

P_NBSC_PACKET_CONTROL_UNIT

ALLOC_3_TSL_UL

Number of 3TSLs allocated for one TBF in uplink allocation.

Data Source

BSS

Source Field

72046

Source Section

P_NBSC_PACKET_CONTROL_UNIT

ALLOC_4_TSL_DL

Number of 2 TSLs allocated for one TBF in downlink allocation.

Data Source

BSS

Source Field

72052

Source Section

P_NBSC_PACKET_CONTROL_UNIT

ALLOC_4_TSL_UL

Number of 4TSLs allocated for one TBF in uplink allocation.

Data Source

BSS

Source Field

72047

Source Section

P_NBSC_PACKET_CONTROL_UNIT

ALLOC_5_8_TSL_DL

Number of 5-8 TSLs allocated for one TBF in downlink allocation.

Data Source

BSS

Source Field

72053

Source Section

P_NBSC_PACKET_CONTROL_UNIT

ALLOC_5_8_TSL_UL

Number of 5-8 TSLs allocated for one TBF in uplink allocation.

Data Source

BSS

Source Field

72048

Source Section

P_NBSC_PACKET_CONTROL_UNIT

ALLOC_5_TSL_DL

Number of allocations for five TSLs in DL TBF allocation or reallocation.

Data Source

BSS

Source Field

72137

Source Section

P_NBSC_PACKET_CONTROL_UNIT

ALLOC_5_TSL_UL

Number of allocations for five TSL in UL TBF allocation or reallocation.

Data Source

BSS

Source Field

72133

Source Section

P_NBSC_PACKET_CONTROL_UNIT

ALLOC_6_TSL_DL

Number of allocations for six TSLs in DL TBF allocation or reallocation.

Data Source

BSS

Source Field

72138

Source Section

P_NBSC_PACKET_CONTROL_UNIT

ALLOC_6_TSL_UL

Number of allocations for six TSLs in UL TBF allocation or reallocation.

Data Source

BSS

Source Field

72134

Source Section

P_NBSC_PACKET_CONTROL_UNIT

ALLOC_7_TSL_DL

Number of allocations for seven TSLs in DL TBF allocation or reallocation

Data Source

BSS

Source Field

72139

Source Section

P_NBSC_PACKET_CONTROL_UNIT

ALLOC_7_TSL_UL

Number of allocations for seven TSLs in UL TBF allocation or reallocation.

Data Source

BSS

Source Field

72135

Source Section

P_NBSC_PACKET_CONTROL_UNIT

ALLOC_8_TSL_DL

Number of allocations for eight TSLs in DL TBF allocation or reallocation

Data Source

BSS

Source Field

72140

Source Section

P_NBSC_PACKET_CONTROL_UNIT

ALLOC_8_TSL_UL

Number of allocations for eight TSLs in UL TBF allocation or reallocation.

Data Source

BSS

Source Field

72136

Source Section

P_NBSC_PACKET_CONTROL_UNIT

ALLOC_9_TSL_DL

Number of allocations for 9 TSLs in DL TBF allocation or reallocation.

Data Source

BSS

Source Field

72254

Source Section

P_NBSC_PACKET_CONTROL_UNIT

ALLOC_FOR_PUB_WHILE_WPS_IN_QUE

Number of traffic channel allocations for public users while there are WPS users with queued attempts. UPDATED: When an idle traffic channel is allocated to a requesting public user while there are WPS users with queued attempts. RELATED TO FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103014

Source Section

P_NBSC_WPS

AVE_ADD_GPRS_CH_HOLD_TIME_DEN

Denominator of the mean holding time of additional GPRS channels (always > 0, when additional GPRS channels used). Counter 002067 is updated along with this counter.

Data Source

BSS

Source Field

2068

Source Section

P_NBSC_RES_AVAIL

AVE_ADD_GPRS_CH_HOLD_TIME_SUM

The mean holding time of additional GPRS radio TSLs (the unit of the value is 10 ms). This figure is received by dividing the value of this counter by the value of the next counter. Additional GPRS TSL means a TSL in GPRS use beyond the operator defined default GPRS territory.

Data Source

BSS

Source Field

2067

Source Section

P_NBSC_RES_AVAIL

AVE_AVAIL_FULL_TCH

The average number of available full rate TCHs

Data Source

BSS

Source Field

2002

Source Section

P_NBSC_RES_AVAIL

AVE_AVAIL_TCH_DEN

Denominator of the average number of available TCHs (always > 0)

Data Source

BSS

Source Field

2060

Source Section

P_NBSC_RES_AVAIL

AVE_AVAIL_TCH_SUM

The average number of available TCHs

Data Source

BSS

Source Field

2059

Source Section

P_NBSC_RES_AVAIL

AVE_BUSY_GPRS_CH_DEN

Denominator of average number of the busy (E)GPRS channels.

Data Source

BSS

Source Field

72170

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_BUSY_GPRS_CH_DL

Average number of busy downlink (E)GPRS channels.

Data Source

BSS

Source Field

72169

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_BUSY_GPRS_CH_UL

Average number of busy uplink (E)GPRS channels.

Data Source

BSS

Source Field

72168

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_BUSY_SDCCH

The average Nof busy SD sub ch

Data Source

BSS

Source Field

2030

Source Section

P_NBSC_RES_AVAIL

AVE_BUSY_TCH

The average Nof busy TCHs

Data Source

BSS

Source Field

2027

Source Section

P_NBSC_RES_AVAIL

AVE_BUSY_TCH_14K4_DATA_CALL

Average number of TCHs allocated for 14k4 data calls.

Data Source

BSS

Source Field

2077

Source Section

P_NBSC_RES_AVAIL

AVE_BUSY_TCH_HSCSD_DENOM

Denominator of the average number of allocated TCHs for HSCSD

Data Source

BSS

Source Field

2055

Source Section

P_NBSC_RES_AVAIL

AVE_BUSY_TCH_HSCSD_NUMER

The average of allocated TCHs for HSCSD calls (erlang)

Data Source

BSS

Source Field

2054

Source Section

P_NBSC_RES_AVAIL

AVE_BUSY_TCH_TIMESLOT

Average number of busy TCH timeslots (FR,HR or DR).

Data Source

BSS

Source Field

2090

Source Section

P_NBSC_RES_AVAIL

AVE_DL_LLC_PER_TBF_DEN

Denominator of average number of downlink LLCs per normally released TBF.

Data Source

BSS

Source Field

72024

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_DL_LLC_PER_TBF_SUM

Average number of downlink LLCs per normally released TBF.

Data Source

BSS

Source Field

72023

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_DL_TBFS_PER_USED_TSL

Average number of downlink TBFS per TSL. Average is counted from used timeslots of the territory.

Data Source

BSS

Source Field

72172

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_DL_TSL_ALLOCATED_FOR_RT

This counter is not in use.

Data Source

BSS

Source Field

72175

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_DL_TSL_USAGE_FOR_NRT

This counter is not in use.

Data Source

BSS

Source Field

72177

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_DL_TSL_USAGE_FOR_PACCH

This counter is not in use.

Data Source

BSS

Source Field

72178

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_DL_TSL_USAGE_FOR_RT

This counter is not in use.

Data Source

BSS

Source Field

72176

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_DRX_BUFFER_OCCUP_DEN

Denominator for counter 091011. This calculates the number of samples

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

AVE_DRX_BUFFER_OCCUP_SUM

Average number of buffered DRX messages in a DRX array

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

AVE_DUR_DL_TBF_DEN

Denominator of average of normally released downlink TBF.

Data Source

BSS

Source Field

72009

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_DUR_DL_TBF_SUM

Average duration of normally released downlink TBF. This counter shows the TBF duration in segment.

Data Source

BSS

Source Field

72008

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_DUR_DL_TBF_UNACK_MODE_DEN

Denominator of average of normally released downlink TBF in unacknowledged mode.

Data Source

BSS

Source Field

72019

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_DUR_DL_TBF_UNACK_MODE_SUM

Average duration of normally released downlink TBF in unacknowledged mode.

Data Source

BSS

Source Field

72018

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_DUR_UL_TBF_DEN

Denominator of average of normally released uplink TBF.

Data Source

BSS

Source Field

72004

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_DUR_UL_TBF_SUM

Average duration of normally released or reallocated uplink TBF. This counter shows TBF duration in segment.

Data Source

BSS

Source Field

72003

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_DUR_UL_TBF_UNACK_MODE_DEN

Denominator of average of normally released uplink TBF in unacknowledged mode.

Data Source

BSS

Source Field

72014

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_DUR_UL_TBF_UNACK_MODE_SUM

Average duration of normally released uplink TBF in unacknowledged mode.

Data Source

BSS

Source Field

72013

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_FTCH_HOLD_TIM

The average full rate TCH holding time The unit of value is 10 ms

Data Source

BSS

Source Field

2036

Source Section

P_NBSC_RES_AVAIL

AVE_GPRS_CHANNELS_DEN

Denominator of the average number of GPRS channels (always > 0)

Data Source

BSS

Source Field

2062

Source Section

P_NBSC_RES_AVAIL

AVE_GPRS_CHANNELS_SUM

The average number of radio time slots delivered for GPRS use

Data Source

BSS

Source Field

2061

Source Section

P_NBSC_RES_AVAIL

AVE_HSCSD_USERS_DENOM

Denominator of the average number of HSCSD users

Data Source

BSS

Source Field

2058

Source Section

P_NBSC_RES_AVAIL

AVE_HSCSD_USERS_NUMER

Average number of HSCSD users

Data Source

BSS

Source Field

2057

Source Section

P_NBSC_RES_AVAIL

AVE_IDLE_F_TCH_1

The average number of idle full TCH band 1

Data Source

BSS

Source Field

2006

Source Section

P_NBSC_RES_AVAIL

AVE_IDLE_F_TCH_2

The average number of idle full TCH band 2

Data Source

BSS

Source Field

2008

Source Section

P_NBSC_RES_AVAIL

AVE_IDLE_F_TCH_3

The average number of idle full TCH band 3

Data Source

BSS

Source Field

2010

Source Section

P_NBSC_RES_AVAIL

AVE_IDLE_F_TCH_4

The average number of idle full TCH band 4

Data Source

BSS

Source Field

2012

Source Section

P_NBSC_RES_AVAIL

AVE_IDLE_F_TCH_5

The average number of idle full TCH band 5

Data Source

BSS

Source Field

2014

Source Section

P_NBSC_RES_AVAIL

AVE_IDLE_H_TCH_1

The average number of idle half TCH band 1

Data Source

BSS

Source Field

2016

Source Section

P_NBSC_RES_AVAIL

AVE_IDLE_H_TCH_2

The average number of idle half TCH band 2

Data Source

BSS

Source Field

2018

Source Section

P_NBSC_RES_AVAIL

AVE_IDLE_H_TCH_3

The average number of idle half TCH band 3

Data Source

BSS

Source Field

2020

Source Section

P_NBSC_RES_AVAIL

AVE_IDLE_H_TCH_4

The average number of idle half TCH band 4

Data Source

BSS

Source Field

2022

Source Section

P_NBSC_RES_AVAIL

AVE_IDLE_H_TCH_5

The average number of idle half TCH band 5

Data Source

BSS

Source Field

2024

Source Section

P_NBSC_RES_AVAIL

AVE_LOAD_SAMPLES

This counter is not in use.

Data Source

BSS

Source Field

72183

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_NON_AVAIL_SDCCH

Average Nof non available SDs the denominator of Average Nof non available SDs

Data Source

BSS

Source Field

2038

Source Section

P_NBSC_RES_AVAIL

AVE_NON_AVAIL_TCH

Average Nof non available TCHs the denominator of Average Nof non available TCHs

Data Source

BSS

Source Field

2040

Source Section

P_NBSC_RES_AVAIL

AVE_NON_AVAIL_TCH_TIMESLOT

Average number of the TCH timeslots not available.

Data Source

BSS

Source Field

2069

Source Section

P_NBSC_RES_AVAIL

AVE_NON_AVAIL_TSL

The average Nof unavailable time slots The sampled counter is updated when the TRX is unblocked

Data Source

BSS

Source Field

2000

Source Section

P_NBSC_RES_AVAIL

AVE_NON_DRX_PPCH_BUFFER_DEN

Denominator for counter 091005. This calculates the number of samples

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

AVE_NON_DRX_PPCH_BUFFER_SUM

Average nof bufferedmessages in a PPCH queue. The queue contains non-DRX PACKET DOWNLINK ASSIGNMENT messages

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

AVE_PAGCH_BUFFER_DEN

Denominator for counter 091008. This calculates the number of samples

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

AVE_PAGCH_BUFFER_SUM

Average nof buffered messages in a PPCH queue. The queue contains PACKET ACCESS REJECT and PACKET UPLINK ASSIGNMENT messages

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

AVE_PEND_TIME_DENOM

Denominator.DEPENDENCIES WITH OTHER COUNTERS Counter 067035 is

Data Source

BSS

Source Field

67036

Source Section

P_NBSC_HIGH_SPEED_DATA

AVE_PEND_TIME_DUE_CONG_DENOM

Denominator.DEPENDENCIES WITH OTHER COUNTERS Counter 067033 is

Data Source

BSS

Source Field

67034

Source Section

P_NBSC_HIGH_SPEED_DATA

AVE_PEND_TIME_DUE_CONG_NUMER

Average upgrade pending time of multislot requests due to congestion.

Data Source

BSS

Source Field

67033

Source Section

P_NBSC_HIGH_SPEED_DATA

AVE_PEND_TIME_NUMER

Average upgrade pending time of multislot requests.

Data Source

BSS

Source Field

67035

Source Section

P_NBSC_HIGH_SPEED_DATA

AVE_PERMANENT_GPRS_CH_DEN

Denominator of the average number of dedicated GPRS channels (always > 0)

Data Source

BSS

Source Field

2065

Source Section

P_NBSC_RES_AVAIL

AVE_PERMANENT_GPRS_CH_SUM

The average number of radio time slots delivered for dedicated GPRS use

Data Source

BSS

Source Field

2064

Source Section

P_NBSC_RES_AVAIL

AVE_Q_SEIZ_REQ

Average queue length of channel seizure requests

Data Source

BSS

Source Field

1018

Source Section

P_NBSC_TRAFFIC

AVE_Q_TIM_CALL_ATT

Average queuing time of queued call attempts

Data Source

BSS

Source Field

1020

Source Section

P_NBSC_TRAFFIC

AVE_Q_TIM_HO_ATT

Average queuing time of queued handover attempts

Data Source

BSS

Source Field

1022

Source Section

P_NBSC_TRAFFIC

AVE_QUE_TIME_NON_URG_HO_ATT

Average queuing time of queued non-urgent handover attempts

Data Source

BSS

Source Field

1145

Source Section

P_NBSC_TRAFFIC

AVE_QUE_TIME_URG_HO_ATT

Average queuing time of queued urgent handover attempts

Data Source

BSS

Source Field

1143

Source Section

P_NBSC_TRAFFIC

AVE_SDCCH_HOLD_TIM

The average SDCCH holding time The unit of value is 10 ms

Data Source

BSS

Source Field

2034

Source Section

P_NBSC_RES_AVAIL

AVE_SDCCH_LOCKED_BY_USR

Average number of SDCCHs locked by the user

Data Source

BSS

Source Field

2075

Source Section

P_NBSC_RES_AVAIL

AVE_SDCCH_SUB

The average number of available SDCCH subchannels

Data Source

BSS

Source Field

2004

Source Section

P_NBSC_RES_AVAIL

AVE_SUCC_WPS_QUEUE_TIME

Average queuing time for those WPS users that are assigned a traffic channel after queuing.
UPDATED: When a released traffic channel is given to a queuing WPS user. DEPENDENCIES
WITH OTHER COUNTERS: This counter is updated with counter 103008. RELATED TO
FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103007

Source Section

P_NBSC_WPS

AVE_TCH_AVAIL_HALF

Average number of available half rate TCHs UPDATED

Data Source

BSS

Source Field

2042

Source Section

P_NBSC_RES_AVAIL

AVE_TCH_BUSY_FULL

Average number of busy full rate TCH

Data Source

BSS

Source Field

2046

Source Section

P_NBSC_RES_AVAIL

AVE_TCH_BUSY_HALF

Average number of busy half rate TCHs

Data Source

BSS

Source Field

2048

Source Section

P_NBSC_RES_AVAIL

AVE_TCH_HOLD_14K4_DATA_CALL

Mean holding time of the TCHs for 14k4 data calls.

Data Source

BSS

Source Field

2079

Source Section

P_NBSC_RES_AVAIL

AVE_TCH_HOLD_TIME_14K4_DATA_CALL

AVE TCH HOLD TIME 14K4 DATA CALL

Data Source

BSS

Source Field

2079

Source Section

P_NBSC_RES_AVAIL

AVE_TCH_HOLD_TIME_HSCSD_DENOM

Denominator of the mean holding time of the TCHs for HSCSD calls

Data Source

BSS

Source Field

2053

Source Section

P_NBSC_RES_AVAIL

AVE_TCH_HOLD_TIME_HSCSD_NUMER

Mean holding time of TCHs for HSCSD calls

Data Source

BSS

Source Field

2052

Source Section

P_NBSC_RES_AVAIL

AVE_TCH_TSL_LOCKED_BY_USR

Average number of TCH TSLs locked by the user.

Data Source

BSS

Source Field

2073

Source Section

P_NBSC_RES_AVAIL

AVE_UL_LLC_PER_TBF_DEN

Denominator of average number of uplink LLCs per normally released TBF.

Data Source

BSS

Source Field

72022

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_UL_LLC_PER_TBF_SUM

Average number of uplink LLCs per normally released TBF.

Data Source

BSS

Source Field

72021

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_UL_TBFS_PER_USED_TSL

Average number of uplink TBFs per TSL. Average is counted from used timeslots of the territory.

Data Source

BSS

Source Field

72171

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_UL_TSL_ALLOCATED_FOR_RT

This counter is not in use.

Data Source

BSS

Source Field

72179

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_UL_TSL_USAGE_FOR_NRT

This counter is not in use.

Data Source

BSS

Source Field

72181

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_UL_TSL_USAGE_FOR_PACCH

This counter is not in use.

Data Source

BSS

Source Field

72182

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVE_UL_TSL_USAGE_FOR_RT

This counter is not in use.

Data Source

BSS

Source Field

72180

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVER_EGPRS_TBFS_PER_TSL_DL

Average number of dl EGPRS TBFS per ts

Data Source

BSS

Source Field

72113

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVER_EGPRS_TBFS_PER_TSL_DL_DEN

Denominator of average number of dl EGPRS TBFS per ts

Data Source

BSS

Source Field

72114

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVER_EGPRS_TBFS_PER_TSL_UL

Average number of ul EGPRS TBFS per ts

Data Source

BSS

Source Field

72111

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVER_EGPRS_TBFS_PER_TSL_UL_DEN

Denominator of average number of ul EGPRS TBFs per ts

Data Source

BSS

Source Field

72112

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVER_TBFS_PER_TSL_DL_DEN

Denominator DEPENDENCIES WITH OTHER COUNTERS Counter 072101 is

Data Source

BSS

Source Field

72102

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVER_TBFS_PER_TSL_DL_SUM

Average number of downlink TBFs per timeslot.

Data Source

BSS

Source Field

72101

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVER_TBFS_PER_TSL_UL_DEN

Denominator DEPENDENCIES WITH OTHER COUNTERS Counter 072099 is

Data Source

BSS

Source Field

72100

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVER_TBFS_PER_TSL_UL_SUM

Average number of uplink TBFs per timeslot.

Data Source

BSS

Source Field

72099

Source Section

P_NBSC_PACKET_CONTROL_UNIT

AVG_TCH_TRAFF_ERL_HOUR

The average Nof busy TCHs During a Hour

Data Source

BSS

BAD_FRAME_IND_UL_CS1

Nof bad frame indications in uplink with CS1 coding scheme in acknowledged mode.

Data Source

BSS

Source Field

72070

Source Section

P_NBSC_PACKET_CONTROL_UNIT

BAD_FRAME_IND_UL_CS2

Nof bad frame indications in uplink with CS2 coding scheme in acknowledged mode.

Data Source

BSS

Source Field

72071

Source Section

P_NBSC_PACKET_CONTROL_UNIT

BAD_FRAME_IND_UL_UNACK

Number of bad frame indications in uplink in unacknowledged mode.

Data Source

BSS

Source Field

72073

Source Section

P_NBSC_PACKET_CONTROL_UNIT

BAD_RLC_BAD_HDR_UL_ACK0

Nr of bad ul RLC data blocks received from BTS with bad header in ack mode. CS 0

Data Source

BSS

Source Field

79007

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_BAD_HDR_UL_ACK1

Nr of bad ul RLC data blocks received from BTS with bad header in ack mode. CS 1

Data Source

BSS

Source Field

79007

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_BAD_HDR_UL_ACK2

Nr of bad ul RLC data blocks received from BTS with bad header in ack mode. CS 2

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_BAD_HDR_UL_ACK3

Nr of bad ul RLC data blocks received from BTS with bad header in ack mode. CS 3

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_BAD_HDR_UL_ACK4

Nr of bad ul RLC data blocks received from BTS with bad header in ack mode. CS 4

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_BAD_HDR_UL_ACK5

Nr of bad ul RLC data blocks received from BTS with bad header in ack mode. CS 5

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_BAD_HDR_UL_ACK6

Nr of bad ul RLC data blocks received from BTS with bad header in ack mode. CS 6

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_BAD_HDR_UL_ACK7

Nr of bad ul RLC data blocks received from BTS with bad header in ack mode. CS 7

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_BAD_HDR_UL_ACK8

Nr of bad ul RLC data blocks received from BTS with bad header in ack mode. CS 8

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_BAD_HDR_UL_ACK9

Nr of bad ul RLC data blocks received from BTS with bad header in ack mode. CS 9

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_BAD_HDR_UL_UNACK0

Nr of bad ul RLC data blocks received from BTS with bad header in unack mode. CS 0

Data Source

BSS

Source Field

79005

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_BAD_HDR_UL_UNACK1

Nr of bad ul RLC data blocks received from BTS with bad header in unack mode. CS 1

Data Source

BSS

Source Field

79005

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_BAD_HDR_UL_UNACK2

Nr of bad ul RLC data blocks received from BTS with bad header in unack mode. CS 2

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_BAD_HDR_UL_UNACK3

Nr of bad ul RLC data blocks received from BTS with bad header in unack mode. CS 3

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_BAD_HDR_UL_UNACK4

Nr of bad ul RLC data blocks received from BTS with bad header in unack mode. CS 4

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_BAD_HDR_UL_UNACK5

Nr of bad ul RLC data blocks received from BTS with bad header in unack mode. CS 5

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_BAD_HDR_UL_UNACK6

Nr of bad ul RLC data blocks received from BTS with bad header in unack mode. CS 6

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_BAD_HDR_UL_UNACK7

Nr of bad ul RLC data blocks received from BTS with bad header in unack mode. CS 7

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_BAD_HDR_UL_UNACK8

Nr of bad ul RLC data blocks received from BTS with bad header in unack mode. CS 8

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_BAD_HDR_UL_UNACK9

Nr of bad ul RLC data blocks received from BTS with bad header in unack mode. CS 9

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_VALID_HDR_UL_ACK0

Nr of bad ul RLC data blocks received from BTS with valid header in ack mode CS 0

Data Source

BSS

Source Field

79006

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_VALID_HDR_UL_ACK1

Nr of bad ul RLC data blocks received from BTS with valid header in ack mode CS 1

Data Source

BSS

Source Field

79006

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_VALID_HDR_UL_ACK2

Nr of bad ul RLC data blocks received from BTS with valid header in ack mode CS 2

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_VALID_HDR_UL_ACK3

Nr of bad ul RLC data blocks received from BTS with valid header in ack mode CS 3

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_VALID_HDR_UL_ACK4

Nr of bad ul RLC data blocks received from BTS with valid header in ack mode CS 4

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_VALID_HDR_UL_ACK5

Nr of bad ul RLC data blocks received from BTS with valid header in ack mode CS 5

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_VALID_HDR_UL_ACK6

Nr of bad ul RLC data blocks received from BTS with valid header in ack mode CS 6

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_VALID_HDR_UL_ACK7

Nr of bad ul RLC data blocks received from BTS with valid header in ack mode CS 7

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_VALID_HDR_UL_ACK8

Nr of bad ul RLC data blocks received from BTS with valid header in ack mode CS 8

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_VALID_HDR_UL_ACK9

Nr of bad ul RLC data blocks received from BTS with valid header in ack mode CS 9

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_VALID_HDR_UL_UNACK0

Nr of bad uplink RLC data blocks received from BTS with valid header in unack mode. CS 0

Data Source

BSS

Source Field

79004

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_VALID_HDR_UL_UNACK1

Nr of bad uplink RLC data blocks received from BTS with valid header in unack mode. CS 1

Data Source

BSS

Source Field

79004

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_VALID_HDR_UL_UNACK2

Nr of bad uplink RLC data blocks received from BTS with valid header in unack mode. CS 2

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_VALID_HDR_UL_UNACK3

Nr of bad uplink RLC data blocks received from BTS with valid header in unack mode. CS 3

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_VALID_HDR_UL_UNACK4

Nr of bad uplink RLC data blocks received from BTS with valid header in unack mode. CS 4

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_VALID_HDR_UL_UNACK5

Nr of bad uplink RLC data blocks received from BTS with valid header in unack mode. CS 5

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_VALID_HDR_UL_UNACK6

Nr of bad uplink RLC data blocks received from BTS with valid header in unack mode. CS 6

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_VALID_HDR_UL_UNACK7

Nr of bad uplink RLC data blocks received from BTS with valid header in unack mode. CS 7

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_VALID_HDR_UL_UNACK8

Nr of bad uplink RLC data blocks received from BTS with valid header in unack mode. CS 8

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BAD_RLC_VALID_HDR_UL_UNACK9

Nr of bad uplink RLC data blocks received from BTS with valid header in unack mode. CS 9

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

BCCH_DOWNTIME

Number of seconds the cell does not have an active BCCH and the alarm 7767 BCCH MISSING is active.

Data Source

BSC

Source Field

2092

Source Section

RBS_PS_RESAVAIL_EBTS_RAW, RBS_PS_RESAVGPR_EBTS_RAW

BCCH_TRX_IDLE_TIME_ON_SDCCH

Sum of the time that SDCCH channels are idle in a BCCH TRX, excluding those on time slot 7.

Data Source

BSS

Source Field

113006

Source Section

P_NBSC_POWER_SAVING

BCCH_TRX_IDLE_TIME_ON_TCH

Sum of the time that TCH channels are idle in a BCCH TRX, excluding those on time slot 7.

Data Source

BSS

Source Field

113007

Source Section

P_NBSC_POWER_SAVING

BCCH_UPTIME

Number of seconds the cell has an active BCCH and the alarm 7767 BCCH MISSING is not active.

Data Source

BSC

Source Field

2093

Source Section

RBS_PS_RESAVAIL_EBTS_RAW, RBS_PS_RESAVGPR_EBTS_RAW

BSC_I_ATT_HSCSD

Number of incoming HO attempts for HSCSD calls controlled by the BSC.

Data Source

BSS

Source Field

4120

Source Section

P_NBSC_HO

BSC_I_DROP_CALLS

The number of dropped calls in a BSC-controlled incoming handover.

Data Source

BSS

Source Field

4083

Source Section

P_NBSC_HO

BSC_I_END_OF_HO

The number of 'end of handover' procedures (BSC-controlled incoming handover)

Data Source

BSS

Source Field

4081

Source Section

P_NBSC_HO

BSC_I_FAIL_BSS

The Nof unsuccessful BSC controlled incoming hos due to BSS problems

Data Source

BSS

Source Field

4013

Source Section

P_NBSC_HO

BSC_I_FAIL_CONN

Nof unsuccessful BSC controlled incoming hos due to connection failure

Data Source

BSS

Source Field

4012

Source Section

P_NBSC_HO

BSC_I_FAIL_LACK

The Nof unsuccessful BSC controlled incoming hos due to lack of resources

Data Source

BSS

Source Field

4011

Source Section

P_NBSC_HO

BSC_I_INT_SUCC_HO_TO_EXT

Number of successful incoming external handovers that originally were BSC-controlled internal inter-cell TCH-TCH handovers but were changed to MSC controlled due to pool switching or avoiding DL muting when speech coding was changed.

Data Source

BSC

Source Field

4202

Source Section

RBS_PS_HO_EBTS_RAW

BSC_I_NONOPT

The Nof successful hos to a non-optimum cell (BSC-controlled incoming hos)

Data Source

BSS

Source Field

4062

Source Section

P_NBSC_HO

BSC_I_NONOPT_AT

The Nof ho attempts to a non-optimum cell (BSCcontrolled incoming hos)

Data Source

BSS

Source Field

4063

Source Section

P_NBSC_HO

BSC_I_SDCCH

The Nof successful SD>SD hos (BSCcontrolled incoming hos)

Data Source

BSS

Source Field

4058

Source Section

P_NBSC_HO

BSC_I_SDCCH_AT

The number of SDCCH>SDCCH handover attempts (BSC-controlled incoming handovers)

Data Source

BSS

Source Field

4061

Source Section

P_NBSC_HO

BSC_I_SDCCH_TCH

The number of successful SDCCH>TCH handovers (BSCcontrolled incoming handovers)

Data Source

BSS

Source Field

4057

Source Section

P_NBSC_HO

BSC_I_SDCCH_TCH_AT

Number of SDCCH>TCH handover attempts (BSC-controlled incoming handovers)

Data Source

BSS

Source Field

4060

Source Section

P_NBSC_HO

BSC_I_SUCC_DEC_HSCSD

Nof chs in an outgoing HSCSD call decreased in HO controlled by the BSC

Data Source

BSS

Source Field

4123

Source Section

P_NBSC_HO

BSC_I_SUCC_HO

The number of successful BSC controlled incoming handovers

Data Source

BSS

Source Field

4010

Source Section

P_NBSC_HO

BSC_I_SUCC_HSCSD

Number of successful incoming HOs for HSCSD calls controlled by the BSC.

Data Source

BSS

Source Field

4121

Source Section

P_NBSC_HO

BSC_I_SUCC_INC_HSCSD

Nof chs in an outgoing HSCSD call increased in HO controlled by the BSC

Data Source

BSS

Source Field

4122

Source Section

P_NBSC_HO

BSC_I_TCH_TCH

The number of successful TCH>TCH handovers (BSCcontrolled incoming handovers)

Data Source

BSS

Source Field

4056

Source Section

P_NBSC_HO

BSC_I_TCH_TCH_AT

The number of TCH>TCH handover attempts (BSC-controlled incoming handovers)

Data Source

BSS

Source Field

4059

Source Section

P_NBSC_HO

BSC_I_UNSUCC_A_INT_CIRC_TYPE

Number of unsuccessful handovers due to wrong A-interface circuit type.

Data Source

BSS

Source Field

4097

Source Section

P_NBSC_HO

BSC_O_ATT_HSCSD

Number of outgoing HO attempts for HSCSD calls controlled by the BSC.

Data Source

BSS

Source Field

4118

Source Section

P_NBSC_HO

BSC_O_CALL_CLR

The Nof unsuccessful hos due to cleared call (a BSC-controlled outgoing ho)

Data Source

BSS

Source Field

4042

Source Section

P_NBSC_HO

BSC_O_CAND_ENQ

The number of MSs required in the handover candidate enquiry procedure.

Data Source

BSS

Source Field

4082

Source Section

P_NBSC_HO

BSC_O_DROP_CALLS

The number of dropped calls in a BSC -controlled outgoing handover.

Data Source

BSS

Source Field

4084

Source Section

P_NBSC_HO

BSC_O_END_HO_BSS

The Nof unsuccessful hos due to BSS problems (BSC-controlled outgoing ho)

Data Source

BSS

Source Field

4017

Source Section

P_NBSC_HO

BSC_O_END_OF_HO

The number of 'end of handover' procedures (BSC-controlled outgoing handover)

Data Source

BSS

Source Field

4016

Source Section

P_NBSC_HO

BSC_O_FAIL_LACK

The Nof unsucc hos due to unavailable resources in the target cell (BSCcontrolled outgoing ho)

Data Source

BSS

Source Field

4072

Source Section

P_NBSC_HO

BSC_O_FAIL_RET

The Nof unsuccessful BSC controlled outgoing hos due to return to the old ch

Data Source

BSS

Source Field

4015

Source Section

P_NBSC_HO

BSC_O_HO_CMD_ASSGN

Number of all handover commands sent by the BSC in an outgoing BSC-controlled handover (SDCCH-SDCCH, TCH-TCH or SDCCH-TCH HO).

Data Source

BSS

Source Field

1196

Source Section

P_NBSC_TRAFFIC

BSC_O_NONOPT

The Nof successful hos to a non-optimum cell (BSC-controlled outgoing hos)

Data Source

BSS

Source Field

4070

Source Section

P_NBSC_HO

BSC_O_NONOPT_AT

The Nof hos attempts to a non-optimum cell (BSCcontrolled outgoing hos)

Data Source

BSS

Source Field

4071

Source Section

P_NBSC_HO

BSC_O_NOT_ALLWD

The Nof unsuccessful hos when hos are not allowed (a BSC controlled outgoing ho)

Data Source

BSS

Source Field

4038

Source Section

P_NBSC_HO

BSC_O_SDCCH

The Nof successful SD>SD hos (BSCcontrolled outgoing hos)

Data Source

BSS

Source Field

4066

Source Section

P_NBSC_HO

BSC_O_SDCCH_AT

The number of SDCCH>SDCCH handover attempts (BSC-controlled outgoing handovers)

Data Source

BSS

Source Field

4069

Source Section

P_NBSC_HO

BSC_O_SDCCH_TCH

The number of successful SDCCH>TCH handovers (BSCcontrolled outgoing handovers)

Data Source

BSS

Source Field

4065

Source Section

P_NBSC_HO

BSC_O_SDCCH_TCH_AT

The number of SDCCH>TCH handover attempts (BSC-controlled outgoing handovers)

Data Source

BSS

Source Field

4068

Source Section

P_NBSC_HO

BSC_O_SUCC_HO

The number of successful BSC controlled outgoing handovers

Data Source

BSS

Source Field

4014

Source Section

P_NBSC_HO

BSC_O_SUCC_HO_TO_EXT

Number of successful outgoing external handovers that originally were BSC-controlled internal inter-cell TCH-TCH handovers but were changed to MSC controlled due to pool switching or avoiding DL muting when speech coding was changed.

Data Source

BSC

Source Field

4203

Source Section

RBS_PS_HO_EBTS_RAW

BSC_O_SUCC_HSCSD

Number of successful outgoing HOs for HSCSD calls controlled by the BSC.

Data Source

BSS

Source Field

4119

Source Section

P_NBSC_HO

BSC_O_TCH_TCH

The number of successful TCH>TCH handovers (BSCcontrolled outgoing handovers)

Data Source

BSS

Source Field

4064

Source Section

P_NBSC_HO

BSC_O_TCH_TCH_AT

The number of TCH>TCH handover attempts (BSC-controlled outgoing handovers)

Data Source

BSS

Source Field

4067

Source Section

P_NBSC_HO

BSC_O_UNSUCC_A_INT_CIRC_TYPE

Number of unsuccessful handovers due to wrong A-interface circuit type.

Data Source

BSS

Source Field

4096

Source Section

P_NBSC_HO

BSSRelease

BSS Release

Data Source

BSS

BTS_HO_ASSGN

BTS HO ASSGN

Data Source

BSS

Source Field

1197

Source Section

P_NBSC_TRAFFIC

CALL_SETUP_FAILURE

Nof call setup failures during SD or TCH-signalling before connect_ACK message

Data Source

BSS

Source Field

57000

Source Section

P_NBSC_SERVICE

CALL_SUCCESSFUL

The call is successfully finished on this cell. (conversation successful)

Data Source

BSS

Source Field

57011

Source Section

P_NBSC_SERVICE

CAUSE_BAD_CI

The number of handover attempts due to bad C/I ratio on super-reuse frequency.

Data Source

BSS

Source Field

4089

Source Section

P_NBSC_HO

CAUSE_CH_ADM

The number of handover attempts started by channel administration

Data Source

BSS

Source Field

4034

Source Section

P_NBSC_HO

CAUSE_DIR_RETRY

The Nof directed retry ho attemptsho per cause per cell (the old cell side).

Data Source

BSS

Source Field

4079

Source Section

P_NBSC_HO

CAUSE_DISTANCE

The number of handover attempts due to distance

Data Source

BSS

Source Field

4027

Source Section

P_NBSC_HO

CAUSE_DOWN_LEV

The number of handover attempts due to downlink level

Data Source

BSS

Source Field

4026

Source Section

P_NBSC_HO

CAUSE_DOWN_QUAL

The number of handover attempts due to downlink quality

Data Source

BSS

Source Field

4025

Source Section

P_NBSC_HO

CAUSE_FIELD_DROP

The number of handover attempts due to rapid field drop

Data Source

BSS

Source Field

4087

Source Section

P_NBSC_HO

CAUSE_GOOD_CI

The number of handover attempts due to good C/I ratio on superreuse frequency.

Data Source

BSS

Source Field

4090

Source Section

P_NBSC_HO

CAUSE_INTFER_DWN

The number of handover attempts due to high interference on downlink

Data Source

BSS

Source Field

4030

Source Section

P_NBSC_HO

CAUSE_INTFER_UP

The number of handover attempts due to high interference on uplink

Data Source

BSS

Source Field

4029

Source Section

P_NBSC_HO

CAUSE_LOW_DISTANCE

The number of handover attempts due to low distance

Data Source

BSS

Source Field

4088

Source Section

P_NBSC_HO

CAUSE_MSC_INVOC

The number of handover attempts due to response to MSC invocation

Data Source

BSS

Source Field

4028

Source Section

P_NBSC_HO

CAUSE_OMC

The number of handover attempts started by O&M

Data Source

BSS

Source Field

4033

Source Section

P_NBSC_HO

CAUSE_PBDGT

The number of power budget handover attempts

Data Source

BSS

Source Field

4032

Source Section

P_NBSC_HO

CAUSE_PRE_EMPTION

The Nof ho attempts due to pre-emptionho per cause per cell (the old cell side).

Data Source

BSS

Source Field

4086

Source Section

P_NBSC_HO

CAUSE_UMBR

The number of umbrella handover attempts

Data Source

BSS

Source Field

4031

Source Section

P_NBSC_HO

CAUSE_UP_LEVEL

The number of handover attempts due to uplink level

Data Source

BSS

Source Field

4024

Source Section

P_NBSC_HO

CAUSE_UP_QUAL

The number of handover attempts due to uplink quality

Data Source

BSS

Source Field

4023

Source Section

P_NBSC_HO

CELL_CALL_CLR

The number of unsuccessful handovers due to cleared call (intra-cell handover).

Data Source

BSS

Source Field

4039

Source Section

P_NBSC_HO

CELL_DROP_CALLS

The number of dropped calls in intra cell handovers

Data Source

BSS

Source Field

4085

Source Section

P_NBSC_HO

CELL_FAIL_BSS

The number of unsuccessful intracell handovers due to BSS problems

Data Source

BSS

Source Field

4021

Source Section

P_NBSC_HO

CELL_FAIL_LACK

The number of unsuccessful intracell handovers due to lack of resources

Data Source

BSS

Source Field

4019

Source Section

P_NBSC_HO

CELL_FAIL_MOVE

The Nof unsucc intracell ho when the MS is unable to either move to new ch or return to the old ch

Data Source

BSS

Source Field

4020

Source Section

P_NBSC_HO

CELL_FAIL_RET

The Nof intra-cell unsuccessful hos due to return to the old ch

Data Source

BSS

Source Field

4022

Source Section

P_NBSC_HO

CELL_NOT_ALLWD

The Nof unsuccessful hos due to hos not being allowed (intra-cell ho)

Data Source

BSS

Source Field

4036

Source Section

P_NBSC_HO

CELL_SDCCH

The number of successful SDCCH>SDCCH handovers (intracell handovers)

Data Source

BSS

Source Field

4075

Source Section

P_NBSC_HO

CELL_SDCCH_AT

The number of SDCCH>SDCCH handover attempts (intra-cell handovers)

Data Source

BSS

Source Field

4078

Source Section

P_NBSC_HO

CELL_SDCCH_TCH

The Nof successful SD>TCH hos (intra-cell ho) This counter is not implemented.

Data Source

BSS

Source Field

4074

Source Section

P_NBSC_HO

CELL_SDCCH_TCH_AT

The Nof SD>TCH ho attempts (intra-cell hos) This counter is not implemented.

Data Source

BSS

Source Field

4077

Source Section

P_NBSC_HO

CELL_SUCC_HO

The number of successful intra-cell handovers

Data Source

BSS

Source Field

4018

Source Section

P_NBSC_HO

CELL_TCH_TCH

The number of successful TCH>TCH handovers (intra-cell handovers)

Data Source

BSS

Source Field

4073

Source Section

P_NBSC_HO

CELL_TCH_TCH_AT

The number of TCH>TCH handover attempts (intra-cell handovers)

Data Source

BSS

Source Field

4076

Source Section

P_NBSC_HO

CL_2_SUBS_FORCED_RELEASE

Number of forced releases of class 2 subscriber TCHs.

Data Source

BSC

Source Field

1236

Source Section

RBS_PS_TRAFFIC_EBTS_RAW

CLEAR_REQUEST_BY_BSC_ON_TCH

Number of Clear Requests sent by BSC on TCH channel.

Data Source

BSS

Source Field

2071

Source Section

P_NBSC_RES_AVAIL

CONVER_STARTED

The conversation Phase is started

Data Source

BSS

Source Field

57015

Source Section

P_NBSC_SERVICE

DA_FOR_EDA_NRT

The number of DA allocations for an EDA-capable MS for nRT. The reasons for using DA although the MS supports EDA can be:- According to the capacity estimation, DA offers better capacity than DA- Power reduction- EDAP resources Draft

Data Source

BSC

Source Field

72211

Source Section

RBS_PS_PCU_BTS_RAW

DA_FOR_EDA_RT

This counter is not in use.

Data Source

BSC

Source Field

72210

Source Section

RBS_PS_PCU_BTS_RAW

DA_REALLOC_TO_EDA_FOR_NRT

The number of DA to EDA reallocations for nRT. The reasons for reallocating DA to EDA can be one of the following:- MS EDA capability becomes known- According to the capacity estimation, EDA offers better capacity than DA

Data Source

BSC

Source Field

72213

Source Section

RBS_PS_PCU_BTS_RAW

DA_REALLOC_TO_EDA_FOR_RT

This counter is not in use.

Data Source

BSC

Source Field

72212

Source Section

RBS_PS_PCU_BTS_RAW

DADLB_START_DUE_EXCEEDED_LOAD

D_LOAD Nof DADL/B ho att started due to exceeded load in accessed cell

Data Source

BSS

Source Field

1172

Source Section

P_NBSC_TRAFFIC

DFCA_SAIC_CI_1_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target - 1 dB.

Data Source

BSS

Source Field

108023

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_1_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target + 1 dB.

Data Source

BSS

Source Field

108002

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_10_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target - 10 dB.

Data Source

BSS

Source Field

108032

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_10_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target + 10 dB.

Data Source

BSS

Source Field

108011

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_11_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target - 11 dB.

Data Source

BSS

Source Field

108033

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_11_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target + 11 dB.

Data Source

BSS

Source Field

108012

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_12_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target - 12 dB.

Data Source

BSS

Source Field

108034

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_12_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target + 12 dB.

Data Source

BSS

Source Field

108013

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_13_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target - 13 dB.

Data Source

BSS

Source Field

108035

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_13_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target + 13 dB.

Data Source

BSS

Source Field

108014

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_14_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target - 14 dB.

Data Source

BSS

Source Field

108036

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_14_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target + 14 dB.

Data Source

BSS

Source Field

108015

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_15_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target - 15 dB.

Data Source

BSS

Source Field

108037

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_15_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target + 15 dB.

Data Source

BSS

Source Field

108016

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_16_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target + 16 dB.

Data Source

BSS

Source Field

108017

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_17_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target + 17 dB.

Data Source

BSS

Source Field

108018

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_18_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target + 18 dB.

Data Source

BSS

Source Field

108019

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_19_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target + 19 dB.

Data Source

BSS

Source Field

108020

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_2_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target - 2 dB.

Data Source

BSS

Source Field

108024

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_2_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target + 2 dB.

Data Source

BSS

Source Field

108003

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_20_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target + 20 dB.

Data Source

BSS

Source Field

108021

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_3_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target - 3 dB.

Data Source

BSS

Source Field

108025

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_3_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target + 3 dB.

Data Source

BSS

Source Field

108004

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_4_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target - 4 dB.

Data Source

BSS

Source Field

108026

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_4_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target + 4 dB.

Data Source

BSS

Source Field

108005

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_5_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target - 5 dB.

Data Source

BSS

Source Field

108027

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_5_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target + 5 dB.

Data Source

BSS

Source Field

108006

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_6_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target - 6 dB.

Data Source

BSS

Source Field

108028

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_6_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target + 6 dB.

Data Source

BSS

Source Field

108007

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_7_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target - 7 dB.

Data Source

BSS

Source Field

108029

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_7_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target + 7 dB.

Data Source

BSS

Source Field

108008

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_8_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target - 8 dB.

Data Source

BSS

Source Field

108030

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_8_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target + 8 dB.

Data Source

BSS

Source Field

108009

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_9_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target - 9 dB.

Data Source

BSS

Source Field

108031

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_9_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level for the connection equals the SAIC C/I target + 9 dB.

Data Source

BSS

Source Field

108010

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_BELOW_15_DL

The number of DFCA assignments where the downlink C/I level for the connection is lower than the SAIC C/I target -15 dB.

Data Source

BSS

Source Field

108038

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_OVER_20_DL

The number of DFCA assignments where the downlink C/I level for the connection is higher than the SAIC C/I target + 20 dB

Data Source

BSS

Source Field

108022

Source Section

P_NBSC_DFCA_SAIC

DFCA_SAIC_CI_TG_DL

The SAIC C/I target value for the connection type (FR/EFR, 14.4 Data, HR, AMR, AMR HR)
At the end of the measurement period. FEATURE: BSS20082: Single Antenna Interference
Cancellation

Data Source

BSS

Source Field

108001

Source Section

P_NBSC_DFCA_SAIC

DISC_LLC_BLOCKS_DUE_TO_EXP

Number of discarded LLC blocks due to expired lifetime.

Data Source

BSS

Source Field

72078

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DISC_UL_LLC_DATA

Number of discarded uplink LLC data due to unavailability of the supporting NSE.

Data Source

BSS

Source Field

72081

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DISC_UL_LLC_PDU_INV_NRI

The number of discarded UL LLC PDUs due to an invalid NRI in the local TLLI.

Data Source

BSC

Source Field

72235

Source Section

RBS_PS_PCU_BTS_RAW

DL_8PSK_TO_GMSK_DUE_UL_GPRS

Number of DL RLC data blocks which could have been sent with 8 PSK (MCS 5-9) modulation but were downgraded to GMSK (MCS1-4) in order to enable GPRS MS on the same TSL to detect the USF.

Data Source

BSS

Source Field

72167

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DL_CS1_DATA_FOR_DUMMY_LLC

The number of DL RLC data blocks carrying a dummy LLC PDU for a GPRS TBF. CS-1 is always used for a GPRS TBF.

Data Source

BSC

Source Field

72224

Source Section

RBS_PS_PCU_BTS_RAW

DL_EGPRS_TBF_INIT_REALL_FAIL

Number of failed downlink EGPRS TBF reallocations from initial non-EGPRS BTS to an EGPRS capable BTS. Object BTS is the BTS where initial allocation was done.

Data Source

BSS

Source Field

72190

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DL_EGPRS_TBF_REL_DUE_NO_RESP

The number of downlink EGPRS TBF establishments that have failed due to no response from MS.

Data Source

BSS

Source Field

72095

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DL_FACCH_NON_REPEATINGS

Number of downlink FACCH blocks that were not repeated.

Data Source

BSC

Source Field

112005

Source Section

RBS_PS_AMRSIG_BTS_RAW

DL_FACCH_REPEATINGS

Number of repeated downlink FACCH blocks.

Data Source

BSC

Source Field

112004

Source Section

RBS_PS_AMRSIG_BTS_RAW

DL_GPRS_TBF_FOR_EGPRS_REQ

Number of GPRS TBF allocations done for EGPRS request in GPRS territory because of congestion in EGPRS area. The counter is not updated in initial allocation which is immediately reallocated to EGPRS BTS.

Data Source

BSS

Source Field

72120

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DL_GPRS_TBF_IN_EGPRS_TERR

Number of GPRS TBF allocations done in EGPRS territory because of congestion in GPRS area.

Data Source

BSS

Source Field

72118

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DL_REALLOC_DUE_TERR_DOWNGR

Number of downlink TBF reallocations due territory downgrade.

Data Source

BSS

Source Field

72105

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DL_RLC_BLOCKS_IN_ACK_MODE0

Nr of dl RLC blocks in ack mode. Does not contain retransmitted blocks. CS 0

Data Source

BSS

Source Field

79000

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_BLOCKS_IN_ACK_MODE1

Nr of dl RLC blocks in ack mode. Does not contain retransmitted blocks. CS 1

Data Source

BSS

Source Field

79000

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_BLOCKS_IN_ACK_MODE2

Nr of dl RLC blocks in ack mode. Does not contain retransmitted blocks. CS 2

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_BLOCKS_IN_ACK_MODE3

Nr of dl RLC blocks in ack mode. Does not contain retransmitted blocks. CS 3

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_BLOCKS_IN_ACK_MODE4

Nr of dl RLC blocks in ack mode. Does not contain retransmitted blocks. CS 4

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_BLOCKS_IN_ACK_MODE5

Nr of dl RLC blocks in ack mode. Does not contain retransmitted blocks. CS 5

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_BLOCKS_IN_ACK_MODE6

Nr of dl RLC blocks in ack mode. Does not contain retransmitted blocks. CS 6

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_BLOCKS_IN_ACK_MODE7

Nr of dl RLC blocks in ack mode. Does not contain retransmitted blocks. CS 7

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_BLOCKS_IN_ACK_MODE8

Nr of dl RLC blocks in ack mode. Does not contain retransmitted blocks. CS 8

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_BLOCKS_IN_ACK_MODE9

Nr of dl RLC blocks in ack mode. Does not contain retransmitted blocks. CS 9

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_BLOCKS_IN_UNACK_MODE0

Nr of dl RLC blocks in unack mode. Does not contain retransmitted blocks. CS 0

Data Source

BSS

Source Field

79001

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_BLOCKS_IN_UNACK_MODE1

Nr of dl RLC blocks in unack mode. Does not contain retransmitted blocks. CS 1

Data Source

BSS

Source Field

79001

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_BLOCKS_IN_UNACK_MODE2

Nr of dl RLC blocks in unack mode. Does not contain retransmitted blocks. CS 2

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_BLOCKS_IN_UNACK_MODE3

Nr of dl RLC blocks in unack mode. Does not contain retransmitted blocks. CS 3

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_BLOCKS_IN_UNACK_MODE4

Nr of dl RLC blocks in unack mode. Does not contain retransmitted blocks. CS 4

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_BLOCKS_IN_UNACK_MODE5

Nr of dl RLC blocks in unack mode. Does not contain retransmitted blocks. CS 5

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_BLOCKS_IN_UNACK_MODE6

Nr of dl RLC blocks in unack mode. Does not contain retransmitted blocks. CS 6

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_BLOCKS_IN_UNACK_MODE7

Nr of dl RLC blocks in unack mode. Does not contain retransmitted blocks. CS 7

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_BLOCKS_IN_UNACK_MODE8

Nr of dl RLC blocks in unack mode. Does not contain retransmitted blocks. CS 8

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_BLOCKS_IN_UNACK_MODE9

Nr of dl RLC blocks in unack mode. Does not contain retransmitted blocks. CS 9

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_CS1_BLKES_TO_DTM_MS

The number of RLC data blocks transmitted with CS-1 to mobiles having a DTM allocation. This counter does not count the retransmitted data blocks or data blocks containing only a dummy LLC PDU.

Data Source

BSC

Source Field

72203

Source Section

RBS_PS_PCU_BTS_RAW

DL_RLC_CS2_BLKES_TO_DTM_MS

The number of RLC data blocks transmitted with CS-2 to mobiles having a DTM allocation. This counter does not count the retransmitted data blocks.

Data Source

BSC

Source Field

72204

Source Section

RBS_PS_PCU_BTS_RAW

DL_RLC_DATA_FOR_DUMMY_LLC_0

Number of DL RLC data blocks carrying dummy LLC PDU for EGPRS TBF. MCS-1 is always used for EGPRS TBF.

Data Source

BSS

Source Field

79012

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_DATA_FOR_DUMMY_LLC_1

Number of DL RLC data blocks carrying dummy LLC PDU for EGPRS TBF. MCS-1 is always used for EGPRS TBF.

Data Source

BSS

Source Field

79012

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_DATA_FOR_DUMMY_LLC_10

Number of DL RLC data blocks carrying dummy LLC PDU for EGPRS TBF. MCS-1 is always used for EGPRS TBF.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_DATA_FOR_DUMMY_LLC_2

Number of DL RLC data blocks carrying dummy LLC PDU for EGPRS TBF. MCS-1 is always used for EGPRS TBF.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_DATA_FOR_DUMMY_LLC_3

Number of DL RLC data blocks carrying dummy LLC PDU for EGPRS TBF. MCS-1 is always used for EGPRS TBF.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_DATA_FOR_DUMMY_LLC_4

Number of DL RLC data blocks carrying dummy LLC PDU for EGPRS TBF. MCS-1 is always used for EGPRS TBF.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_DATA_FOR_DUMMY_LLC_5

Number of DL RLC data blocks carrying dummy LLC PDU for EGPRS TBF. MCS-1 is always used for EGPRS TBF.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_DATA_FOR_DUMMY_LLC_6

Number of DL RLC data blocks carrying dummy LLC PDU for EGPRS TBF. MCS-1 is always used for EGPRS TBF.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_DATA_FOR_DUMMY_LLC_7

Number of DL RLC data blocks carrying dummy LLC PDU for EGPRS TBF. MCS-1 is always used for EGPRS TBF.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_DATA_FOR_DUMMY_LLC_8

Number of DL RLC data blocks carrying dummy LLC PDU for EGPRS TBF. MCS-1 is always used for EGPRS TBF.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_DATA_FOR_DUMMY_LLC_9

Number of DL RLC data blocks carrying dummy LLC PDU for EGPRS TBF. MCS-1 is always used for EGPRS TBF.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_MCSN_BLKs_TO_DTM_MS0

Number of RLC data blocks transmitted with MCS 1..9 or CS3...4 to mobiles having a DTM allocation.

Data Source

BSS

Source Field

79010

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_MCSN_BLKES_TO_DTM_MS1

Number of RLC data blocks transmitted with MCS 1..9 or CS3...4 to mobiles having a DTM allocation.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_MCSN_BLKES_TO_DTM_MS2

Number of RLC data blocks transmitted with MCS 1..9 or CS3...4 to mobiles having a DTM allocation.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_MCSN_BLKES_TO_DTM_MS3

Number of RLC data blocks transmitted with MCS 1..9 or CS3...4 to mobiles having a DTM allocation.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_MCSN_BLKES_TO_DTM_MS4

Number of RLC data blocks transmitted with MCS 1..9 or CS3...4 to mobiles having a DTM allocation.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_MCSN_BLKES_TO_DTM_MS5

Number of RLC data blocks transmitted with MCS 1..9 or CS3...4 to mobiles having a DTM allocation.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_MCSN_BLKES_TO_DTM_MS6

Number of RLC data blocks transmitted with MCS 1..9 or CS3...4 to mobiles having a DTM allocation.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_MCSN_BLKES_TO_DTM_MS7

Number of RLC data blocks transmitted with MCS 1..9 or CS3...4 to mobiles having a DTM allocation.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_MCSN_BLKES_TO_DTM_MS8

Number of RLC data blocks transmitted with MCS 1..9 or CS3...4 to mobiles having a DTM allocation.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_RLC_MCSN_BLKES_TO_DTM_MS9

Number of RLC data blocks transmitted with MCS 1..9 or CS3...4 to mobiles having a DTM allocation.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

DL_SACCH_REPEATINGS

Number of repeated downlink SACCH frames.

Data Source

BSC

Source Field

112002

Source Section

RBS_PS_AMRSIG_BTS_RAW

DL_TBF_DATA_ATTEMPTS

Number of downlink TBF establishments for data transfer. The establishment cause is determined from the T bit of the QoS information element in the first DL-UNITDATA PDU.

Data Source

BSC

Source Field

72175

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DL_TBF_DATA_FAILURES

Number of failed downlink data TBF establishments due to no response from the MS. The establishment cause is determined from the T bit of the QoS information element in the first DL-UNITDATA PDU.

Data Source

BSC

Source Field

72179

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DL_TBF_ESTABL_STARTED

Number of started DL TBF establishments.

Data Source

BSS

Source Field

72122

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DL_TBF_ESTABLISHMENT_FAILED

Number of failed downlink TBF establishments due to no response from MS.

Data Source

BSS

Source Field

72093

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DL_TBF_FOR_DATA

Number of established UL TBFs for data transfer.

Data Source

BSS

Source Field

72164

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DL_TBF_FOR_SIGNALLING

Number of established DL TBFs for signalling.

Data Source

BSS

Source Field

72163

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DL_TBF_RE_ALLOCATIONS

Number of downlink TBF reallocations.

Data Source

BSS

Source Field

72028

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DL_TBF_REALLOC_DUE_SIM_UL_TBF

Nof downlink TBF reallocations due to the estab of a simultaneous uplink TBF.

Data Source

BSS

Source Field

72031

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DL_TBF_REALLOC_FAILS

Number of downlink TBF reallocation failures.

Data Source

BSS

Source Field

72033

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DL_TBF_REL_DUE_CSW_TRAFFIC

Number of downlink TBF release due to CSW traffic.

Data Source

BSS

Source Field

72055

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DL_TBF_REL_DUE_NO_RESP_MS

Number of downlink TBF release due to no response from MS.

Data Source

BSS

Source Field

72057

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DL_TBF_REL_DUE_TO_FLUSH

Number of downlink TBF release due to flush.

Data Source

BSS

Source Field

72059

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DL_TBF_REL_DUE_TO_SUSPEND

Number of downlink TBF release due to suspend.

Data Source

BSS

Source Field

72061

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DL_TBF_RELEASES_DUE_DTM

The number of cases where an ongoing DL TBF needs to be released due to a DTM procedure.

Data Source

BSC

Source Field

72202

Source Section

RBS_PS_PCU_BTS_RAW

DL_TBF_UNACK_MODE

The number of established downlink TBFs in unacknowledged mode.

Data Source

BSS

Source Field

72015

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DL_TBFS_ON_RT_EDA_CONN_TSLS

This counter is not in use.

Data Source

BSC

Source Field

72216

Source Section

RBS_PS_PCU_BTS_RAW

DL_TSL_REQ_FOR_DLDC_MS

Indicates if MS capability reduction for DLDC IE is present in MS RAC information at the time of DL TSL request, meaning either TBF allocation or reallocation.

Data Source

BSS

Source Field

72257

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DLDC_ATT_FAIL_DUE_TERRITORY

Number of failed DLDC allocation requests due to lacking DLDC territory in DLDC enabled BTS.

Data Source

BSS

Source Field

72259

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DLDC_TSL_ALLOCATION_CREATED

Number of created DLDC TSL allocations.

Data Source

BSS

Source Field

72258

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DLDC_TSL_REQUEST_IN_DLDC_CELL

Number of TSL allocation or reallocation requests for DLDC.

Data Source

BSS

Source Field

72256

Source Section

P_NBSC_PACKET_CONTROL_UNIT

DR_TRAU_DG_ATT_FAILED

Number of intra-BSC AMR FR to AMR HR handovers where the TRAU mode changing from FR to DR TRAU fails.

Data Source

BSC

Source Field

1244

Source Section

RBS_PS_TRAFFIC_EBTS_RAW

DR_TRAU_DG_ATT_IN_AMR_HO

Number of intra-BSC AMR FR to AMR HR handovers where the TRAU mode is attempted to be changed from FR to DR TRAU mode before handover.

Data Source

BSC

Source Field

1243

Source Section

RBS_PS_TRAFFIC_EBTS_RAW

DR_TRAU_UG_ATT_FAILED

Number of intra-BSC AMR HR to AMR FR handovers where the TRAU mode changing from DR to FR TRAU fails.

Data Source

BSC

Source Field

1246

Source Section

RBS_PS_TRAFFIC_EBTS_RAW

DR_TRAU_UG_ATT_IN_AMR_HO

Number of intra-BSC AMR HR to AMR FR handovers where the TRAU mode is attempted to be changed from DR to FR TRAU mode after handover.

Data Source

BSC

Source Field

1245

Source Section

RBS_PS_TRAFFIC_EBTS_RAW

DROP_AFTER_DTM_TCH_ASSIGN

When the TCH drop in PS territory occurs between ASSIGNMENT_COMPLETE and DISCONNECT.

Data Source

BSS

Source Field

1233

Source Section

P_NBSC_TRAFFIC

DROP_AFTER_TCH_ASSIGN

Number of dropped calls after the TCH is assigned.

Data Source

BSS

Source Field

1202

Source Section

P_NBSC_TRAFFIC

DROP_DTM_TCH_ASCMPL_RFCH_REL

When the TCH drop in PS territory occurs in a phase between Assignment Complete and RF Channel Release Ack messages.

Data Source

BSS

Source Field

1234

Source Section

P_NBSC_TRAFFIC

DROP_TCH_ASSCOMPL_TO_RFCH_REL

Number of TCH drops between the Assignment Complete and the RF Channel Release messages. UPDATED: When the TCH transaction ends in a phase between the Assignment Complete and RF Channel Release Ack messages.

Data Source

BSS

Source Field

1204

Source Section

P_NBSC_TRAFFIC

DROPPED_CALLS

Number of the failures during a call in progress after the CONNECT_ACK message on TCH. Not updated for calls dropped during handovers

Data Source

BSS

Source Field

57007

Source Section

P_NBSC_SERVICE

DRX_P_DL_ASS_MSGS_ON_PCCCH

Number of DRX mode PACKET DOWNLINK ASSIGNMENT messages sent on the PCCCH

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

DTM_ALLOC_1_DL_PS_TSL

Number of DTM allocations or reallocations of one PS timeslot made in downlink direction.
Updated: When a DTM allocation or reallocation of one PS timeslot has been successfully made in downlink direction. Domain level features: BSS20088 (Dual Transfer Mode)

Data Source

BSS

Source Field

105023

Source Section

P_NBSC_PS_DTM

DTM_ALLOC_1_UL_PS_TSL

Number of DTM allocations or reallocations of one PS timeslot made in uplink direction.
Updated: When a DTM allocation or reallocation of one PS timeslot has been successfully made in uplink direction. Domain level features: BSS20088 (Dual Transfer Mode)

Data Source

BSS

Source Field

105021

Source Section

P_NBSC_PS_DTM

DTM_ALLOC_2_DL_PS_TSL

Number of DTM allocations or reallocations of two PS timeslots made in downlink direction.
Updated: When a DTM allocation or reallocation of two PS timeslots has been successfully made in downlink direction. Domain level features: BSS20088 (Dual Transfer Mode)

Data Source

BSS

Source Field

105024

Source Section

P_NBSC_PS_DTM

DTM_ALLOC_2_UL_PS_TSL

Number of DTM allocations or reallocations of two PS timeslots made in uplink direction.
Updated: When a DTM allocation or reallocation of two PS timeslots has been successfully made in uplink direction. Domain level features: BSS20088 (Dual Transfer Mode)

Data Source

BSS

Source Field

105022

Source Section

P_NBSC_PS_DTM

DTM_ALLOC_3_DL_PS_TSL

Not in use.

Data Source

BSS

Source Field

105025

Source Section

P_NBSC_PS_DTM

DTM_ALLOCATIONS_INITIAL

Number of initial DTM allocations made. Initial DTM allocation is a procedure where DTM resources are allocated to a DTM-capable MS that does not have a DTM allocation yet (the CS connection needs to be moved from the CS territory to the PS territory). When an initial DTM allocation procedure is performed successfully for a DTM-capable MS. FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

105009

Source Section

P_NBSC_PS_DTM

DTM_ASSIGN_COMMANDS

Number of events where the BSC assigns a DTM-capable MS a DTM allocation with CS and PS resources. This corresponds to the case where the CS connection is moved to the PS territory or within the PS territory with a TBF assignment. When a DTM allocation is assigned to a DTM-capable MS with a DTM ASSIGNMENT COMMAND message. FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

106018

Source Section

P_NBSC_CS_DTM

DTM_ASSIGN_FAILURES_INI

Number of events where a DTM assignment procedure fails during an initial DTM call establishment and the MS returns to the old CS channel. When a DTM-capable MS sends a DTM ASSIGNMENT FAILURE or ASSIGNMENT FAILURE message during an initial DTM assignment procedure. FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

106008

Source Section

P_NBSC_CS_DTM

DTM_ASSIGN_FAILURES_REALLO

Number of events where the DTM re-assignment procedure fails and the MS returns to the old CS resource in the PS territory. The DX increments this counter whenever the MS sends a DTM ASSIGNMENT FAILURE or ASSIGNMENT FAILURE message during a DTM reallocation procedure. FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

106009

Source Section

P_NBSC_CS_DTM

DTM_CALL_HO_ATT_TO_DTM_CELL

Number of attempts where the handover for a DTM call is started to the DTM capable cell.

Data Source

BSS

Source Field

4198

Source Section

P_NBSC_HO

DTM_CALL_HO_ATT_TO_NON_DTM

Number of attempts where the handover for a DTM call is started to the NON-DTM capable cell.

Data Source

BSS

Source Field

4200

Source Section

P_NBSC_HO

DTM_CALL_HO_FROM_DTM_CELL

Number of events where an MS that was having a DTM allocation in the source cell is handed over to the cell.

Data Source

BSS

Source Field

4194

Source Section

P_NBSC_HO

DTM_CALL_HO_SUCC_TO_DTM_CELL

Number of the successful handovers where a DTM call is handed over to the DTM capable cell.

Data Source

BSS

Source Field

4199

Source Section

P_NBSC_HO

DTM_CALL_HO_SUCC_TO_NON_DTM

Number of the successful handovers where a DTM call is handed over to the NON-DTM capable cell.

Data Source

BSS

Source Field

4201

Source Section

P_NBSC_HO

DTM_CS_ASSIGNMENTS

Number of cases where the BSC assigns to an MS a DTM allocation without PS resources. This corresponds to the case where the CS connection is moved to/within the PS territory without TBF allocation. The DX increments this counter whenever a DTM allocation is assigned to an MS with an ASSIGNMENT COMMAND message. FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

106004

Source Section

P_NBSC_CS_DTM

DTM_DURATION_SUM_FR

The sum of DTM allocation durations having a full rate speech connection."The BSC measures for how long each DTM CS connection is kept in the PS territory with a full rate speech connection. The measured durations are summed up to this counter.FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

105011

Source Section

P_NBSC_PS_DTM

DTM_DURATION_SUM_HR

The sum of DTM allocation durations having speech connection in HR mode. PCU measures how long each DTM-CS connection is kept in the PS territory with HR speech codec mode. The measured durations are summed up to this counter. FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

105012

Source Section

P_NBSC_PS_DTM

DTM_FRAGMENTS

Number of events where a DTM allocation or reallocation procedure causes fragmentation of PS resources. Note that by dividing the DTM FRAGMENTS counter by the sum (DTM ALLOCATIONS INITIAL + DTM REALLOCATIONS) it is possible to estimate the probability with which a DTM allocation causes fragmentation to the PS resources. The PCU increments this counter whenever a DTM allocation or DTM-CS reallocation procedure is successfully made to/within the PS territory so that the DTM-CS connection increases the fragmentation of PS resources (that is the case if the target DTMCS timeslot and its neighboring timeslots on both sides are in PS use before the allocation is conducted or if the timeslot is next to the CS-PS territory border). FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

105013

Source Section

P_NBSC_PS_DTM

DTM_HO_DUE_LACK_OF_RESOURCE

Number of events where the BSC triggers an inter-cell handover procedure for a DTM MS due to lack of resources in the source cell.

Data Source

BSS

Source Field

4195

Source Section

P_NBSC_HO

DTM_IMSI_NOT_AVAILABLE

Number of events where the DTM co-ordination is prevented because the MSC has not provided the BSC with the DTM-capable MS's IMSI during a CS call establishment. When the BSC notices during a CS call establishment that the MSC has not provided an IMSI for a DTM-capable MS that is having a CS connection in a DTM-capable cell.FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

106017

Source Section

P_NBSC_CS_DTM

DTM_MS_HO_ATT_TO_DTM_CELL

Number of attempts where the handover for a DTM capable MS in dedicated mode is started to the DTM capable cell.

Data Source

BSS

Source Field

4190

Source Section

P_NBSC_HO

DTM_MS_HO_ATT_TO_NON_DTM_CELL

Number of attempts where the handover for a DTM capable MS in dedicated mode is started to the NON-DTM capable cell.

Data Source

BSS

Source Field

4192

Source Section

P_NBSC_HO

DTM_MS_HO_SUCC_TO_DTM_CELL

Number of the successful handovers where a DTM capable MS in dedicated mode is handed over to the DTM capable cell.

Data Source

BSS

Source Field

4191

Source Section

P_NBSC_HO

DTM_MS_HO_SUCC_TO_NON_DTM_CELL

Number of the successful handovers where a DTM capable MS in dedicated mode is handed to the NON-DTM capable cell.

Data Source

BSS

Source Field

4193

Source Section

P_NBSC_HO

DTM_PACKET_ASSIGNMENTS

Number of events where the BSC assigns an uplink or downlink TBF to an MS. In this case the MS's CS resource remains unchanged. When a PACKET ASSIGNMENT message is sent to the MS.FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

106005

Source Section

P_NBSC_CS_DTM

DTM_REALLO_CS_REJECTS

Number of events where a DTM call reallocation procedure initiated by the CS connection control fails. When a DTM call reallocation procedure is requested by the CS connection control but the BSC is unable to assign new resources for the MS. FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

106007

Source Section

P_NBSC_CS_DTM

DTM_REALLO_CS_REQUESTS

Number of DX initiated DTM reallocation requests. Note that the DX triggers an intra-cell handover for a DTM call always due to quality reasons. The DX increments this counter whenever it triggers an intracell handover procedure for an existing DTM allocation. FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

106006

Source Section

P_NBSC_CS_DTM

DTM_REALLO_PS_REJECTS

Number of events where the PCU initiated DTM reallocation procedure fails. The PCU increments this counter whenever the PCU initiated DTM-CS reallocation procedure is unable to give new resources for the DTM MS. FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

105007

Source Section

P_NBSC_PS_DTM

DTM_REALLO_REQ_DUE_PS_OTHER

Number of PCU initiated DTM reallocation requests that were triggered due to other reasons than quality. The PCU increments this counter whenever it triggers a DTM-CS reallocation procedure for an existing DTM allocation due to other reasons than quality. FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

105006

Source Section

P_NBSC_PS_DTM

DTM_REALLO_REQ_DUE_PS_QUAL

Number of PCU initiated DTM reallocation requests that were triggered due to quality reasons. The PCU increments this counter whenever the Quality Control triggers a DTM-CS reallocation procedure for an existing DTM allocation due to quality reasons. FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

105005

Source Section

P_NBSC_PS_DTM

DTM_REALLOCATIONS

Number of DTM reallocations made. DTM reallocation is considered here as a procedure where new DTM resources are allocated for a DTM MS who is having a DTM allocation already (the CS connection needs to be moved from one timeslot to another within the PS territory or from one PS territory to another within the SEGMENT). The PCU increments this counter whenever it performs successfully a DTM-CS reallocation procedure for a DTM MS. FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

105010

Source Section

P_NBSC_PS_DTM

DTM_REJECTS_NO_RESOURCES

Number of events where the PCU is unable to initiate a DTM call due to lack of resources. The PCU increments this counter whenever a MO DTM call establishment fails due to lack of resources (in this case the dtm_alloc_resp message is sent to the DX with a NOK indication and the reason for this is the lack of resources). The PCU increments this counter also when a MT DTM call establishment fails due to lack of resources (in this case the MT DTM CALL REJECTS INI or MT DTM CALL REJECTS CONT counter is also incremented and the reason for this is the lack of resources). FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

105004

Source Section

P_NBSC_PS_DTM

DTM_RELEASES_DUE_CS_HO

Number of DTM call release procedures that are triggered due to a CS connection handover. When a DTM call is released because the BSC has initiated an inter-cell handover procedure for the CS connection during dual transfer mode. When the HANDOVER COMMAND message is sent to the MS, the MS drops the DTM PS connection and returns to dedicated mode. The PS data transfer may continue in the new cell once the PS connection is reestablished in dual transfer mode. FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

106013

Source Section

P_NBSC_CS_DTM

DTM_RELEASES_DUE_CS_RELEASE

Number of DTM call release procedures where the CS connection is released normally during dual transfer mode. When a DTM call is released due to a CS connection release procedure initiated by the MS or MSC. When the CS call is terminated, the MS drops the DTM PS connection and returns to packet idle mode. The PS data transfer may continue once the PS connection is re-established in normal (E)GPRS mode. FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

106012

Source Section

P_NBSC_CS_DTM

DTM_RELEASES_DUE_OTHER

Number of DTM call release procedures that are triggered due to another reason than a PS connection release, a normal CS connection release, or a CS connection handover. When a DTM call is released due to other reasons than in counters 106011 DTM RELEASES DUE PS RELEASE, 106012 DTM RELEASES DUE CS RELEASE, and 106013 DTM RELEASES DUE CS HANDOVER. FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

106014

Source Section

P_NBSC_CS_DTM

DTM_RELEASES_DUE_PS_RELEASE

Number of DTM call release procedures that are triggered because there is no more data to transmit. The remaining CS connection is moved to the CS territory. When a DTM call is released so that the DTM PS connection is released and the remaining CS connection is moved to the CS territory. If Enhanced Quality of Service (EQoS) is active, this procedure takes place when the last packet flow context (PFC) of the MS is deleted and there is thus no more data to transmit. If EQoS is not active, the DTM call release procedure is executed when the last TBF is released. FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

106011

Source Section

P_NBSC_CS_DTM

DTM_REQ_1_DL_PS_TSL

Number of DTM allocation or reallocation requests of one PS timeslot in downlink direction. Updated: When a DTM allocation or reallocation of one PS timeslot is requested in downlink direction. Domain level features: BSS20088 (Dual Transfer Mode)

Data Source

BSS

Source Field

105018

Source Section

P_NBSC_PS_DTM

DTM_REQ_1_UL_PS_TSL

Number of DTM allocation or reallocation requests of one PS timeslot in uplink direction.
Updated: When a DTM allocation or reallocation of one PS timeslot is requested in uplink direction. Domain level features: BSS20088 (Dual Transfer Mode)

Data Source

BSS

Source Field

105016

Source Section

P_NBSC_PS_DTM

DTM_REQ_2_DL_PS_TSL

Number of DTM allocation or reallocation requests of two PS timeslots in downlink direction.
Updated: When a DTM allocation or reallocation of two PS timeslots is requested in downlink direction. Domain level features: BSS20088 (Dual Transfer Mode)

Data Source

BSS

Source Field

105019

Source Section

P_NBSC_PS_DTM

DTM_REQ_2_UL_PS_TSL

Number of DTM allocation or reallocation requests of two PS timeslots in uplink direction.
Updated: When a DTM allocation or reallocation of two PS timeslots is requested in uplink direction. Domain level features: BSS20088 (Dual Transfer Mode)

Data Source

BSS

Source Field

105017

Source Section

P_NBSC_PS_DTM

DTM_REQ_3_DL_PS_TSL

Not in use.

Data Source

BSS

Source Field

105020

Source Section

P_NBSC_PS_DTM

DTM_TBF_ASSIGNMENT_FAILURES

Number of TBF establishment failures during DTM assignment procedures. The PCU increments this counter whenever a TBF establishment fails due to the expiry of the timer 'MAC_T_DTM'. FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

105008

Source Section

P_NBSC_PS_DTM

DTRX_POWER_DOWNTIME_DUE_TRAF

Sum of the time that dual TRXs are powered down due to low traffic.

Data Source

BSS

Source Field

113008

Source Section

P_NBSC_POWER_SAVING

DUMMY_DL_MAC_BLOCKS_SENT

Number of dummy downlink MAC blocks sent.

Data Source

BSS

Source Field

72106

Source Section

P_NBSC_PACKET_CONTROL_UNIT

EDA_NRT_ALLOCATIONS

The number of EDA nRT allocations.

Data Source

BSC

Source Field

72209

Source Section

RBS_PS_PCU_BTS_RAW

EDA_REALLOC_TO_DA_FOR_NRT

The number of EDA to DA reallocations for nRT. The reasons for reallocating EDA to DA can be one of the following:- According to the capacity estimation, DA offers better capacity than EDA- EDAP resources- Power reduction

Data Source

BSC

Source Field

72215

Source Section

RBS_PS_PCU_BTS_RAW

EDA_REALLOC_TO_DA_FOR_RT

This counter is not in use.

Data Source

BSC

Source Field

72214

Source Section

RBS_PS_PCU_BTS_RAW

EDA_REQ_2_ALLOC_2_TSL_UL_NRT

The number of two TSL EDA allocations for two TSL requests in uplink nRT TBF allocation.

Data Source

BSC

Source Field

72218

Source Section

RBS_PS_PCU_BTS_RAW

EDA_REQ_3_ALLOC_3_TSL_UL_NRT

The number of three TSL EDA allocations for three TSL requests in uplink nRT TBF allocation.

Data Source

BSC

Source Field

72219

Source Section

RBS_PS_PCU_BTS_RAW

EDA_REQ_4_ALLOC_3_TSL_UL_NRT

The number of three TSL EDA allocations for four TSL requests in uplink nRT TBF allocation.

Data Source

BSC

Source Field

72220

Source Section

RBS_PS_PCU_BTS_RAW

EDA_REQ_4_ALLOC_4_TSL_UL_NRT

The number of four TSL EDA allocations for four TSL requests in uplink nRT TBF allocation.

Data Source

BSC

Source Field

72221

Source Section

RBS_PS_PCU_BTS_RAW

EDA_RT_ALLOCATIONS

This counter is not in use.

Data Source

BSC

Source Field

72208

Source Section

RBS_PS_PCU_BTS_RAW

EGPRS_DL_CTRL_BLOCKS

Number of RLC/MAC control blocks sent to MS with EGPRS TBF.

Data Source

BSS

Source Field

72166

Source Section

P_NBSC_PACKET_CONTROL_UNIT

EGPRS_TBFS_DL

Number of established downlink EGPRS TBFs.

Data Source

BSS

Source Field

72089

Source Section

P_NBSC_PACKET_CONTROL_UNIT

EGPRS_TBFS_DL_IN_UNACK_MODE

Number of established downlink EGPRS TBFs in unacknowledged mode.

Data Source

BSS

Source Field

72091

Source Section

P_NBSC_PACKET_CONTROL_UNIT

EGPRS_TBFS_UL

Number of established uplink EGPRS TBFs.

Data Source

BSS

Source Field

72088

Source Section

P_NBSC_PACKET_CONTROL_UNIT

EGPRS_TBFS_UL_IN_UNACK_MODE

Number of established uplink EGPRS TBFs in unacknowledged mode.

Data Source

BSS

Source Field

72090

Source Section

P_NBSC_PACKET_CONTROL_UNIT

EGPRS_UL_CTRL_BLOCKS

Number of RLC/MAC control blocks received from MS with EGPRS TBF.

Data Source

BSS

Source Field

72165

Source Section

P_NBSC_PACKET_CONTROL_UNIT

ERROR_IND_DURING_LU

Number of Error indication messages received during the Location Update procedure.

Data Source

BSS

Source Field

1203

Source Section

P_NBSC_TRAFFIC

EXT_HO_SOURCE_FAIL

A source failure during external HO- signalling on SD or TCHIMPACT Call clear.

Data Source

BSS

Source Field

57004

Source Section

P_NBSC_SERVICE

EXT_HO_SOURCE_SUCC

A successful external HO on source cell. The channel is SDCCH or TCH.

Data Source

BSS

Source Field

57010

Source Section

P_NBSC_SERVICE

EXT_HO_TARGET_FAIL

A target failure during external HO- signalling on SD or TCHIMPACT Call clear.

Data Source

BSS

Source Field

57001

Source Section

P_NBSC_SERVICE

EXT_HO_TARGET_SUCC

A successful external HO on target cell. The channel is SDCCH or TCH.

Data Source

BSS

Source Field

57009

Source Section

P_NBSC_SERVICE

EXT_PCU_INIT_PAGE

The number of PCU-initiated paging messages sent in an extended cell.

Data Source

BSC

Source Field

72233

Source Section

RBS_PS_PCU_BTS_RAW

EXTENDED_UL_TBFS

Number of normally released extended uplink TBFS.

Data Source

BSS

Source Field

72116

Source Section

P_NBSC_PACKET_CONTROL_UNIT

FACCH_CALL_SETUP_FAIL_PAGING

Count of FACCH call setups failed during paging phase.

Data Source

BSS

Source Field

2072

Source Section

P_NBSC_RES_AVAIL

FAIL_MOC_TEST_CALL

Number of failed moc test calls during the scheduled test

Data Source

BSS

Source Field

1094

Source Section

P_NBSC_TRAFFIC

FCD_RELEASE_AFTER_FCD_HO_ATT

Number of started forced releases after an unsuccessful forced handover attempt.

Data Source

BSC

Source Field

1235

Source Section

RBS_PS_TRAFFIC_EBTS_RAW

FLUSH_MSGS_RECEIVED

Number of FLUSH messages received by the PCU. A flush message indicates a successful cell reselection. Both NC0 and NC2 modemoobiles are considered.

Data Source

BSS

Source Field

72187

Source Section

P_NBSC_PACKET_CONTROL_UNIT

FOR_HO_ASS_REQ_ATT

The number of forced handover assignment request attempts

Data Source

BSS

Source Field

1055

Source Section

P_NBSC_TRAFFIC

FOR_HO_ASS_REQ_FAIL

The number of forced handover assignment request failures

Data Source

BSS

Source Field

1059

Source Section

P_NBSC_TRAFFIC

FOR_HO_HO_REQ_ATT

The number of forced handover handover request attempts

Data Source

BSS

Source Field

1063

Source Section

P_NBSC_TRAFFIC

FOR_HO_HO_REQ_FAIL

The number of forced handover handover request failures

Data Source

BSS

Source Field

1067

Source Section

P_NBSC_TRAFFIC

FOR_REL_ASS_REQ_ATT

The number of forced release assignment request attempts

Data Source

BSS

Source Field

1054

Source Section

P_NBSC_TRAFFIC

FOR_REL_ASS_REQ_FAIL

The number of forced release assignment request failures

Data Source

BSS

Source Field

1058

Source Section

P_NBSC_TRAFFIC

FOR_REL_HO_REQ_ATT

The number of forced release handover request attempts

Data Source

BSS

Source Field

1062

Source Section

P_NBSC_TRAFFIC

FOR_REL_HO_REQ_FAIL

The number of forced release handover request failures

Data Source

BSS

Source Field

1066

Source Section

P_NBSC_TRAFFIC

FORCED_HANDOVERS

The number forced handovers

Data Source

BSS

Source Field

1071

Source Section

P_NBSC_TRAFFIC

FORCED_RELEASES

The number forced releases

Data Source

BSS

Source Field

1070

Source Section

P_NBSC_TRAFFIC

Freq_Band_In_Use

Freq Band In Use

Data Source

BSS

FULL_BCCH_PWR_ON_SDCCH

Number of measurement results indicating full BCCH transmit power on an SDCCH, excluding those on time slot 7.

Data Source

BSS

Source Field

113000

Source Section

P_NBSC_POWER_SAVING

FULL_BCCH_PWR_ON_TCH_FR

Number of measurement results indicating full BCCH transmit power on a TCH/F, excluding those on time slot 7.

Data Source

BSS

Source Field

113002

Source Section

P_NBSC_POWER_SAVING

FULL_BCCH_PWR_ON_TCH_HR

Number of measurement results indicating full BCCH transmit power on a TCH/H, excluding those on time slot 7.

Data Source

BSS

Source Field

113004

Source Section

P_NBSC_POWER_SAVING

FULL_TCH_SEIZ_INTRA_AMR_HO

Nof succ FR TCH seizures for intra-cell HO when the ch rate changes and AMR speech codecs are in use

Data Source

BSS

Source Field

1182

Source Section

P_NBSC_TRAFFIC

GPRS_RESUME

Number of BSC initiated GPRS resume requests.

Data Source

BSS

Source Field

57051

Source Section

P_NBSC_SERVICE

GPRS_RESUME_FAILURE

Number of unsuccessful GPRS resume procedures.

Data Source

BSS

Source Field

57052

Source Section

P_NBSC_SERVICE

GPRS_SUSPEND

Number of MS initiated GPRS suspension requests.

Data Source

BSS

Source Field

57049

Source Section

P_NBSC_SERVICE

GPRS_SUSPEND_FAILURE

Number of unsuccessful GPRS suspension procedures.

Data Source

BSS

Source Field

57050

Source Section

P_NBSC_SERVICE

GPRS_TER_DG_DUE_INC_IN_CSW_TR

Nof GPRS territory downgrades made because of the increase in the circuit switched traff load

Data Source

BSS

Source Field

1179

Source Section

P_NBSC_TRAFFIC

GPRS_TER_DG_REJ_DUE_STREAMING

This counter is not in use.

Data Source

BSS

Source Field

1209

Source Section

P_NBSC_TRAFFIC

GPRS_TER_DG_REQ_WHENEQOS_ON

This counter is not in use.

Data Source

BSS

Source Field

1210

Source Section

P_NBSC_TRAFFIC

GPRS_TER_DOWNGRADE_REQ

Nof territory downgrade requests received from the Packet Controller Unit

Data Source

BSS

Source Field

1181

Source Section

P_NBSC_TRAFFIC

GPRS_TER_UG_DUE_DEC_CSW_TR

Nof GPRS territory upgrades made to fulfil the default GPRS territory

Data Source

BSS

Source Field

1180

Source Section

P_NBSC_TRAFFIC

GPRS_TER_UG_FROM_CSW_FAILED

Number of territory upgrade requests from the CSWRRM to the PCU where the upgrade of the single new radio time slots to the PCU was not successful. UPDATED: When the PCU rejects the whole PSW territory upgrade, i.e. no single new RTSL was upgraded to the PCU. DEPENDENCIES WITH OTHER COUNTERS: 001213 RELATED TO FEATURE: BSS1109672 Dynamic Abis Enhancement.

Data Source

BSS

Source Field

1215

Source Section

P_NBSC_TRAFFIC

GPRS_TER_UG_FROM_CSW_PARTIAL

Number of territory upgrade requests from the CSW RRM to the PCU that have been served with less radio time slots than requested, i.e. partially successful PSW territory upgrade in the PCU. UPDATED: When the PCU upgrades the GPRS territory with less RTSs than the RRM requested for. DEPENDENCIES WITH OTHER COUNTERS: 001213 RELATED TO FEATURE: BSS1109672 Dynamic Abis Enhancement.

Data Source

BSS

Source Field

1214

Source Section

P_NBSC_TRAFFIC

GPRS_TER_UG_REJ_DUE_CSW_TR

Nof territory upgrade req that have been rejected due to the high load of the circuit switched traff

Data Source

BSS

Source Field

1176

Source Section

P_NBSC_TRAFFIC

GPRS_TER_UG_REJ_DUE_LACK_PCU

Nof territory upgrade requests that have been rejected because the capacity of the Packet Controller Unit

Data Source

BSS

Source Field

1178

Source Section

P_NBSC_TRAFFIC

GPRS_TER_UG_REJ_DUE_LACK_PSW

Nof territory upgrade req that have been rejected because there are not enough resources capable of GPRS in the BTS

Data Source

BSS

Source Field

1177

Source Section

P_NBSC_TRAFFIC

GPRS_TER_UG_REQ_FROM_CSW

Number of territory upgrade requests to PCU initiated by the CSW.
UPDATED: When the RRM initiates a PSW territory upgrade to the PCU. DEPENDENCIES
WITH OTHER COUNTERS: 001214 and 001215. RELATED TO FEATURE: BSS1109672
Dynamic Abis Enhancement.

Data Source

BSS

Source Field

1213

Source Section

P_NBSC_TRAFFIC

GPRS_TER_UPGRD_REQ

Number of territory upgrade requests received from the Packet Controller Unit.

Data Source

BSS

Source Field

1174

Source Section

P_NBSC_TRAFFIC

GSM_TO_WCDMA_RAN_HO_SUCCESS

Number of successful inter-system handovers from GSM to WCDMA RAN.

Data Source

BSS

Source Field

57042

Source Section

P_NBSC_SERVICE

GSM_WCDMA_RAN_HO_FAIL_SOURCE

Nof fail during inter-system HO signalling on the source side (GSM to WCDMA RAN HO)

Data Source

BSS

Source Field

57041

Source Section

P_NBSC_SERVICE

GTTP_MESSAGE_DISCARDS

Number of GTTP signaling messages that were discarded for some reason or another. The DX increments this counter whenever it is unable to transmit the received GTTP message to the MS or to the PCU. FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

106021

Source Section

P_NBSC_CS_DTM

GTTP_MESSAGES_DL

Number of GTTP signaling messages transmitted in DL direction. The DX increments this counter whenever a GTTP message is transmitted to a DTM MS on DCCH. FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

106020

Source Section

P_NBSC_CS_DTM

GTTP_MESSAGES_UL

Number of GTTP signaling messages transmitted in UL direction. The DX increments this counter whenever a GTTP message is received from a DTM MS. FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

106019

Source Section

P_NBSC_CS_DTM

HALF_TCH_SEIZ_INTRA_AMR_HO

Nof succ HR TCH seizures for intra-cell HO when the ch rate changes and AMR speech codecs are in use

Data Source

BSS

Source Field

1183

Source Section

P_NBSC_TRAFFIC

HO_ATT_DUE_BAD_SUPER_RXLEV

Number of HO attempts due to Bad Rx level on a super-reuse frequency.

Data Source

BSS

Source Field

4109

Source Section

P_NBSC_HO

HO_ATT_DUE_DIRECT_ACCESS

Number of direct access attempts

Data Source

BSS

Source Field

4128

Source Section

P_NBSC_HO

HO_ATT_DUE_DTM_NO_PS_RES_AV

Number of HO attempts started due to the non-available PS resources for DTM.

Data Source

BSC

Source Field

4228

Source Section

RBS_PS_HO_EBTS_RAW

HO_ATT_DUE_ERFD

Number of inter-cell HO attempts during ERFD (Enhanced Rapid Field Drop) HO

Data Source

BSS

Source Field

4111

Source Section

P_NBSC_HO

HO_ATT_DUE_GOOD_REGULAR_RXLEV

Number of HO attempts due to Good Rx level on a regular frequency.

Data Source

BSS

Source Field

4110

Source Section

P_NBSC_HO

HO_ATT_DUE_INTERSYS_DIRECT_ACC

Number of attempts to perform an SDCCH-TCH handover from the GSM to the WCDMA RAN due to Direct Access.

Data Source

BSS

Source Field

4181

Source Section

P_NBSC_HO

HO_ATT_DUE_PCU_QUAL_CONTROL

Number of HO attempts started due to the cause pcu_qual_cntrl.

Data Source

BSC

Source Field

4227

Source Section

RBS_PS_HO_EBTS_RAW

HO_ATT_DUE_SWITCH_CIRC_POOL

Number of handover attempts started for changing the A-interface circuit type.

Data Source

BSS

Source Field

4099

Source Section

P_NBSC_HO

HO_ATT_DUE_TO_BSC_CONTR_TRHO

Number of HO attempts due to BSC controlled TRHO.

Data Source

BSS

Source Field

4035

Source Section

P_NBSC_HO

HO_ATT_DUE_TO_DADLB

HO attempt due to DADLB

Data Source

BSS

Source Field

4129

Source Section

P_NBSC_HO

HO_ATT_DUE_TO_DTM_DISABLED

Number of HO attempts started due to the cause dtm_disabled.

Data Source

BSC

Source Field

4226

Source Section

RBS_PS_HO_EBTS_RAW

HO_ATT_DUE_TO_DTM_MO_CS_TO_PS

Number of HO attempts started due to the cause dtm_mo_cs_to_ps.

Data Source

BSC

Source Field

4222

Source Section

RBS_PS_HO_EBTS_RAW

HO_ATT_DUE_TO_DTM_MT_CS_TO_PS

Number of HO attempts started due to the cause dtm_mt_cs_to_ps.

Data Source

BSC

Source Field

4223

Source Section

RBS_PS_HO_EBTS_RAW

HO_ATT_DUE_TO_DTM_MT_PS_TO_PS

Number of HO attempts started due to the cause dtm_mt_ps_to_ps.

Data Source

BSC

Source Field

4224

Source Section

RBS_PS_HO_EBTS_RAW

HO_ATT_DUE_TO_DTM_PS_TO_CS

Number of HO attempts started due to the cause dtm_ps_to_cs.

Data Source

BSC

Source Field

4225

Source Section

RBS_PS_HO_EBTS_RAW

HO_ATT_DUE_TO_GPRS

HO Attempt due to GPRS

Data Source

BSS

Source Field

4130

Source Section

P_NBSC_HO

HO_ATT_DUE_TO_HSCSD

Number of intra cell handover attempts that are made due to the HSCSD traffic.

Data Source

BSS

Source Field

4141

Source Section

P_NBSC_HO

HO_ATT_DUE_TO_IBHO_TO_GSM

Number of HO attempts started due to the cause ibho_to_gsm.

Data Source

BSC

Source Field

4219

Source Section

RBS_PS_HO_EBTS_RAW

HO_ATT_DUE_TO_IBHO_TO_UTRAN

Number of HO attempts started due to the cause ibho_to_utran.

Data Source

BSC

Source Field

4220

Source Section

RBS_PS_HO_EBTS_RAW

HO_ATT_DUE_TO_INT_HO_TO_EXT

Number of HO attempts started due to the cause int_ho_to_ext.

Data Source

BSC

Source Field

4221

Source Section

RBS_PS_HO_EBTS_RAW

HO_ATT_FOR_AMR_TO_FR

Number of HO attempts from AMR HR to AMR FR.

Data Source

BSS

Source Field

4143

Source Section

P_NBSC_HO

HO_ATT_FOR_AMR_TO_HR

Number of HO attempts from AMR FR to AMR HR.

Data Source

BSS

Source Field

4142

Source Section

P_NBSC_HO

HO_ATT_FROM_EXT_TO_SUPER

Number of intra-cell handover attempts from extended area to super extended area.

Data Source

BSC

Source Field

4229

Source Section

RBS_PS_HO_EBTS_RAW

HO_ATT_FROM_LRTCH_TO_EXT

Number of intra-cell handover attempts from the long reach TCH to an extended area.

Data Source

BSC

Source Field

4217

Source Section

RBS_PS_HO_EBTS_RAW

HO_ATT_FROM_LRTCH_TO_NORM

Number of intra-cell handover attempts from the long reach TCH to a normal area.

Data Source

BSC

Source Field

4215

Source Section

RBS_PS_HO_EBTS_RAW

HO_ATT_FROM_LRTCH_TO_SUPER

Number of intra-cell handover attempts from Long Reach TCH to super extended area.

Data Source

BSC

Source Field

4233

Source Section

RBS_PS_HO_EBTS_RAW

HO_ATT_FROM_SUPER_TO_EXT

Number of intra-cell handover attempts from super extended area to extended area.

Data Source

BSC

Source Field

4231

Source Section

RBS_PS_HO_EBTS_RAW

HO_ATT_INTER_BAND_SDCCH

Number of attempts to perform based on the duration of an SDCCH reservation

Data Source

BSS

Source Field

4133

Source Section

P_NBSC_HO

HO_ATT_INTER_BAND_TCH

Nof att to perform a TCH-TCH ho between BTSs on different frequency bands of a segment due to load

Data Source

BSS

Source Field

4135

Source Section

P_NBSC_HO

HO_ATT_INTER_BTS_TYPE_SDCCH

Nof att to perform an SD to SD ho, based on the duration of an SD reservation, from a BTS of some base station site type to a BTS of another type within a segment.

Data Source

BSS

Source Field

4137

Source Section

P_NBSC_HO

HO_ATT_INTER_BTS_TYPE_TCH

Nof att to perform a TCH-TCH ho from an UltraSite BTS to a Talk Family BTS due to load reasons within a segment

Data Source

BSS

Source Field

4139

Source Section

P_NBSC_HO

HO_ATTEMPT_DUE_TO_ISHO

Number of attempts to perform a TCH-TCH handover from the GSM to the WCDMA RAN.

Data Source

BSS

Source Field

4180

Source Section

P_NBSC_HO

HO_ATTEMPT_INTERBAND_DUE_LEVEL

Nof att to perform a TCH-TCH ho from non BCCH layer between BTSs on different freq bands of a segment

Data Source

BSS

Source Field

4163

Source Section

P_NBSC_HO

HO_DUE_MS_HIGH_SPEED

HO due to the detected MS high speed

Data Source

BSS

Source Field

4106

Source Section

P_NBSC_HO

HO_DUE_MS_SLOW_SPEED

HO due to the detected MS slow speed

Data Source

BSS

Source Field

4105

Source Section

P_NBSC_HO

HO_DUE_SLOW_MOV_MS

Number of handovers due to the Slow Moving MS in Macro

Data Source

BSS

Source Field

4091

Source Section

P_NBSC_HO

HO_EXT_TO_NORMAL

Number of handovers from extended area to normal area

Data Source

BSS

Source Field

4104

Source Section

P_NBSC_HO

HO_NORMAL_TO_EXT

Number of handovers from normal area to extended area

Data Source

BSS

Source Field

4103

Source Section

P_NBSC_HO

HO_SUCC_AMR_FR_TO_HR

Number of successful HOs from AMR FR to AMR HR.

Data Source

BSC

Source Field

4205

Source Section

RBS_PS_HO_EBTS_RAW

HO_SUCC_AMR_HR_TO_FR

Number of successful HOs from AMR HR to AMR FR.

Data Source

BSC

Source Field

4206

Source Section

RBS_PS_HO_EBTS_RAW

HO_SUCC_FROM_EXT_TO_SUPER

Number of successful intra-cell handovers from extended area to super extended area.

Data Source

BSC

Source Field

4230

Source Section

RBS_PS_HO_EBTS_RAW

HO_SUCC_FROM_LRTCH_TO_SUPER

Number of successful intra-cell handovers from Long Reach TCH to super extended area.

Data Source

BSC

Source Field

4234

Source Section

RBS_PS_HO_EBTS_RAW

HO_SUCC_FROM_SUPER_TO_EXT

Number of successful intra-cell handovers from super extended area to extended area.

Data Source

BSC

Source Field

4232

Source Section

RBS_PS_HO_EBTS_RAW

HO_UNSUCC_A_INT_CIRC_TYPE

Number of unsuccessful handovers due to wrong A-interface circuit type.

Data Source

BSS

Source Field

4098

Source Section

P_NBSC_HO

HSCSD_CON_REL_DUE_FAIL

Number of HSCSD connection releases due to failure.

Data Source

BSS

Source Field

1164

Source Section

P_NBSC_TRAFFIC

HSCSD_REQ_CALL_SETUP

Number of HSCSD TCH requests for a call setup.

Data Source

BSS

Source Field

1160

Source Section

P_NBSC_TRAFFIC

HSCSD_TCH_REQ_14400

Number of HSCSD TCH requests with 14.4 kbit/s.

Data Source

BSS

Source Field

1156

Source Section

P_NBSC_TRAFFIC

HSCSD_TCH_REQ_HO

Number of HSCSD TCH requests for an HO.

Data Source

BSS

Source Field

1161

Source Section

P_NBSC_TRAFFIC

HSCSD_TCH_SUCC_SEIZ_14400

Number of successful HSCSD TCH seizures with 14.4 kbit/s.

Data Source

BSS

Source Field

1157

Source Section

P_NBSC_TRAFFIC

HSCSD_TCH_SUCC_SEIZ_CALL_SETUP

Number of successful HSCSD TCH seizures for a call setup.

Data Source

BSS

Source Field

1162

Source Section

P_NBSC_TRAFFIC

HSCSD_TCH_SUCC_SEIZ_HO

Number of successful HSCSD TCH seizures for an HO.

Data Source

BSS

Source Field

1163

Source Section

P_NBSC_TRAFFIC

HSCSD_TRANSP_TCH_REQ

Number of transparent HSCSD TCH requests.

Data Source

BSS

Source Field

1158

Source Section

P_NBSC_TRAFFIC

HSCSD_TRANSP_TCH_SUCC_SEIZ

Number of successful transparent HSCSD TCH seizures.

Data Source

BSS

Source Field

1159

Source Section

P_NBSC_TRAFFIC

IGNOR_RLC_BL_UL_DUE_BSN_CS1

The number of ignored RLC data blocks in uplink with CS1 due to a BSN in acknowledged mode.

Data Source

BSC

Source Field

72225

Source Section

RBS_PS_PCU_BTS_RAW

IGNOR_RLC_BL_UL_DUE_BSN_CS2

The number of ignored RLC data blocks in uplink with CS2 due to a BSN in acknowledged mode.

Data Source

BSC

Source Field

72226

Source Section

RBS_PS_PCU_BTS_RAW

IGNOR_RLC_DATA_BL_UL_DUE_BSN

Number of ignored RLC data blocks in uplink due to BSN in acknowledged mode.

Data Source

BSS

Source Field

72072

Source Section

P_NBSC_PACKET_CONTROL_UNIT

IGNOR_RLC_DATA_UL_DUE_BSN_0

Number of ignored RLC data blocks in uplink due to BSN in acknowledged mode. All MCSs are relevant.

Data Source

BSS

Source Field

79014

Source Section

P_NBSC_CODING_SCHEME

IGNOR_RLC_DATA_UL_DUE_BSN_1

Number of ignored RLC data blocks in uplink due to BSN in acknowledged mode. All MCSs are relevant.

Data Source

BSS

Source Field

79014

Source Section

P_NBSC_CODING_SCHEME

IGNOR_RLC_DATA_UL_DUE_BSN_10

Number of ignored RLC data blocks in uplink due to BSN in acknowledged mode. All MCSs are relevant.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

IGNOR_RLC_DATA_UL_DUE_BSN_2

Number of ignored RLC data blocks in uplink due to BSN in acknowledged mode. All MCSs are relevant.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

IGNOR_RLC_DATA_UL_DUE_BSN_3

Number of ignored RLC data blocks in uplink due to BSN in acknowledged mode. All MCSs are relevant.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

IGNOR_RLC_DATA_UL_DUE_BSN_4

Number of ignored RLC data blocks in uplink due to BSN in acknowledged mode. All MCSs are relevant.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

IGNOR_RLC_DATA_UL_DUE_BSN_5

Number of ignored RLC data blocks in uplink due to BSN in acknowledged mode. All MCSs are relevant.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

IGNOR_RLC_DATA_UL_DUE_BSN_6

Number of ignored RLC data blocks in uplink due to BSN in acknowledged mode. All MCSs are relevant.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

IGNOR_RLC_DATA_UL_DUE_BSN_7

Number of ignored RLC data blocks in uplink due to BSN in acknowledged mode. All MCSs are relevant.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

IGNOR_RLC_DATA_UL_DUE_BSN_8

Number of ignored RLC data blocks in uplink due to BSN in acknowledged mode. All MCSs are relevant.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

IGNOR_RLC_DATA_UL_DUE_BSN_9

Number of ignored RLC data blocks in uplink due to BSN in acknowledged mode. All MCSs are relevant.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

IGNORED_DTM_REQUESTS_CONT

Number of events where an MS's request to continue a DTM call is ignored due to an ongoing handover or assignment procedure. When a DTM REQUEST message is ignored due to an

ongoing handover or assignment procedure in a situation where the MS is having a DTM allocation in the cell without ongoing TBFs (that is, the CS connection is in the PS territory).FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

106016

Source Section

P_NBSC_CS_DTM

IGNORED_DTM_REQUESTS_INI

Number of events where the mobile's request to initiate a DTM call is ignored due to ongoing handover or assignment procedure. The DX increments this counter whenever the DX ignores the DTM REQUEST message due to ongoing handover or assignment procedure in a situation where the DTM MS is not having a DTM allocation in the cell (i.e. the CS connection is in the CS territory).FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

106015

Source Section

P_NBSC_CS_DTM

IN_DL_TBF_DUE_REALLOC

Number of incoming downlink TBFs because of reallocation (TBF is moved from BTS to another in same segment).

Data Source

BSS

Source Field

72159

Source Section

P_NBSC_PACKET_CONTROL_UNIT

IN_SEG_SUCC_SDCCH_HO_BTW_BANDS

Nof completed and succ SD-SD hos between two BTSs on different freq bands between two segments

Data Source

BSS

Source Field

4166

Source Section

P_NBSC_HO

IN_UL_TBF_DUE_REALLOC

Number of incoming uplink TBFs because of reallocation(TBF is move from BTS to another in same segment)

Data Source

BSS

Source Field

72157

Source Section

P_NBSC_PACKET_CONTROL_UNIT

INCOMPL_SERV_GPRS_TER_UPGR_REQ

PGR_REQ Nof territory upgrade req that have been served with less radio ts than req

Data Source

BSS

Source Field

1175

Source Section

P_NBSC_TRAFFIC

INT_AMR_HO_TO_EXT

Number of intra-BSC AMR FR to AMR HR and AMR HR to AMR FR handovers that are changed to MSC controlled in order to reduce break in DL speech path.

Data Source

BSC

Source Field

1249

Source Section

RBS_PS_TRAFFIC_EBTS_RAW

INT_HO_TARGET_FAIL

A target failure during inter HO- signalling on SD or TCHCall is not cleared

Data Source

BSS

Source Field

57002

Source Section

P_NBSC_SERVICE

INT_INTER_HO_SOURCE_FAIL

A source failure during inter HO- signalling on SD or TCHIMPACT Call clear.

Data Source

BSS

Source Field

57005

Source Section

P_NBSC_SERVICE

INT_INTER_HO_SUCC

A successful internal inter HO. The channel is SDCCH or TCH.

Data Source

BSS

Source Field

57012

Source Section

P_NBSC_SERVICE

INT_INTRA_HO_SOURCE_FAIL

A source failure during intra HO- signalling on SD or TCHIMPACT Call clear.

Data Source

BSS

Source Field

57006

Source Section

P_NBSC_SERVICE

INT_INTRA_HO_SUCC

A successful internal intra HO. The channel is SDCCH or TCH.

Data Source

BSS

Source Field

57013

Source Section

P_NBSC_SERVICE

INT_INTRA_HO_TARGET_FAIL

A target failure during intra HO- signalling on SD or TCHCall is not cleared.

Data Source

BSS

Source Field

57003

Source Section

P_NBSC_SERVICE

INT_SUCC_HO_TO_EXT

Number of successful incoming external handovers that originally were BSC-controlled internal intra-cell TCH-TCH handovers but were changed to MSC controlled due to pool switching or avoiding DL muting when speech coding was changed.

Data Source

BSC

Source Field

4204

Source Section

RBS_PS_HO_EBTS_RAW

INTER_PLMN_GSM_HO_FAIL_SOURCE

INTER PLMN GSM HO FAILURE SOURCE

Data Source

BSS

Source Field

57048

Source Section

P_NBSC_SERVICE

INTER_PLMN_GSM_HO_FAIL_TARGET

INTER PLMN GSM HO FAILURE TARGET

Data Source

BSS

Source Field

57047

Source Section

P_NBSC_SERVICE

INTRA_ATT_HSCSD

Number of intra-cell HO attempts for HSCSD calls.

Data Source

BSS

Source Field

4124

Source Section

P_NBSC_HO

INTRA_CELL_HO_TO_EXT

Number of internal intra-cell handovers that are aborted and changed to external.

Data Source

BSS

Source Field

4188

Source Section

P_NBSC_HO

INTRA_CELL_SDCCH_HO_BANDS

Nof completed and succ SD-SD hos between two BTSs on different frequency bands of a segment

Data Source

BSS

Source Field

4134

Source Section

P_NBSC_HO

INTRA_CELL_SDCCH_HO_BTS_TYPES

Nof completed and succ SD-SD ho from a BTS of one bs site type to a BTS of another type within a segment

Data Source

BSS

Source Field

4138

Source Section

P_NBSC_HO

INTRA_CELL_SDCCH_HO_BTSS

Nof completed and successful SD-SD hos between two BTSs of the segment

Data Source

BSS

Source Field

4131

Source Section

P_NBSC_HO

INTRA_CELL_TCH_HO_BANDS

Nof completed and succ TCH-TCH hos between two BTSs on different frequency bands of a segment

Data Source

BSS

Source Field

4136

Source Section

P_NBSC_HO

INTRA_CELL_TCH_HO_BTSS_TYPES

Nof completed and successful TCH-TCH hos from a BTS of one bs site type to a BTS of another type within a segment

Data Source

BSS

Source Field

4140

Source Section

P_NBSC_HO

INTRA_CELL_TCH_HO_BTSS

Nof completed and successful TCH-TCH hos between BTSs of the segment

Data Source

BSS

Source Field

4132

Source Section

P_NBSC_HO

INTRA_SUCC_DEC_HSCSD

Number of channels in HSCSD call decreased in intra-cell HOs.

Data Source

BSS

Source Field

4127

Source Section

P_NBSC_HO

INTRA_SUCC_HSCSD

Number of successful intra-cell HOs for HSCSD calls.

Data Source

BSS

Source Field

4125

Source Section

P_NBSC_HO

INTRA_SUCC_INC_HSCSD

Number of channels in an HSCSD call increased in intra-cell HOs.

Data Source

BSS

Source Field

4126

Source Section

P_NBSC_HO

MAX_DL_LLC_PER_TBF

The maximum number of downlink LLCs per normally released TBF.

Data Source

BSS

Source Field

72026

Source Section

P_NBSC_PACKET_CONTROL_UNIT

MAX_DRX_BUFFER_OCCUPANCY

Maximum number of buffered DRX messages in a DRX array

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

MAX_DUR_DL_TBF_UNACK_MODE

The maximum duration of normally released downlink TBFs in unacknowledged mode.

Data Source

BSS

Source Field

72016

Source Section

P_NBSC_PACKET_CONTROL_UNIT

MAX_DUR_DL_TBS

The maximum duration of normally released downlink TBFs. This counter shows the TBF duration in segment.

Data Source

BSS

Source Field

72006

Source Section

P_NBSC_PACKET_CONTROL_UNIT

MAX_DUR_UL_TBF

The maximum duration of normally released uplink TBFs. This counter shows TBF duration in segment.

Data Source

BSS

Source Field

72001

Source Section

P_NBSC_PACKET_CONTROL_UNIT

MAX_DUR_UL_TBF_UNACK_MODE

The maximum duration of normally released uplink TBFs in unacknowledged mode.

Data Source

BSS

Source Field

72011

Source Section

P_NBSC_PACKET_CONTROL_UNIT

MAX_NBR_SIM_UL_TBF

The maximum number of simultaneous uplink TBFs.

Data Source

BSS

Source Field

72002

Source Section

P_NBSC_PACKET_CONTROL_UNIT

MAX_NON_DRX_PPCH_BUFFER

Max nof buffered messages in a PPCH queue. The queue contains non-DRX PACKET DOWNLINK ASSIGNMENT messages

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

MAX_PAGCH_BUFFER

Max nof buffered messages in a PAGCH queue. The queue contains PACKET ACCESS REJECT and PACKET UPLINK ASSIGNMENT messages

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

MAX_SIM_DL_TBF

The maximum number of simultaneous downlink TBFs.

Data Source

BSS

Source Field

72007

Source Section

P_NBSC_PACKET_CONTROL_UNIT

MAX_SIM_DL_TBF_UNACK_MODE

The maximum number of simultaneous downlink TBFs in unacknowledged mode.

Data Source

BSS

Source Field

72017

Source Section

P_NBSC_PACKET_CONTROL_UNIT

MAX_SIM_UL_TBF_UNACK_MODE

The maximum number of simultaneous uplink TBFs in unacknowledged mode.

Data Source

BSS

Source Field

72012

Source Section

P_NBSC_PACKET_CONTROL_UNIT

MAX_TBFS_PER_TSL_DL

Maximum number of downlink TBFs per timeslot.

Data Source

BSS

Source Field

72104

Source Section

P_NBSC_PACKET_CONTROL_UNIT

MAX_TBFS_PER_TSL_UL

Maximum number of uplink TBFs per timeslot.

Data Source

BSS

Source Field

72103

Source Section

P_NBSC_PACKET_CONTROL_UNIT

MAX_UL_LLC_PER_TBF

The maximum number of uplink LLCs per normally released TBF.

Data Source

BSS

Source Field

72025

Source Section

P_NBSC_PACKET_CONTROL_UNIT

MEAS_REPORT_MSGS_IDLE

Number of measurement reports from mobiles in packet idle state.

Data Source

BSS

Source Field

72189

Source Section

P_NBSC_PACKET_CONTROL_UNIT

MEAS_REPORT_MSGS_TOTAL

Total number of measurement reports received by the PCU.

Data Source

BSS

Source Field

72188

Source Section

P_NBSC_PACKET_CONTROL_UNIT

MO_DTM_CALL_REJECTS_CONT

Number of events where an MS's request to continue a DTM call is rejected. When the BSC is unable to assign DTM resources for an MS that is having a DTM allocation without ongoing TBFs (that is, the CS connection is in the PS territory). The counter is not incremented when the DTM REQUEST message is ignored, that is, when another assignment or a handover procedure has just been started for the MS.FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

106003

Source Section

P_NBSC_CS_DTM

MO_DTM_CALL_REJECTS_INI

Number of events where a DTM-capable MS's request to initiate a DTM call is rejected. When the BSC is unable to reserve or assign DTM resources for a DTM-capable MS that is not having a DTM allocation (that is, the CS connection is in the CS territory). The counter is not incremented when the DTM REQUEST message is ignored, that is, when another assignment or a handover procedure has just been started for the MS.FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

106002

Source Section

P_NBSC_CS_DTM

MO_DTM_CALL_REQUESTS_CONT

Number of events where a DTM MS requests an UL TBF in dedicated mode in order to continue the DTM call. The DX increments this counter whenever a DTM REQUEST message is received from a DTM MS that is having a DTM allocation (i.e. the CS connection is in the PS territory). FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

106001

Source Section

P_NBSC_CS_DTM

MO_DTM_CALL_REQUESTS_INI

Number of events where a DTM-capable MS requests an uplink TBF in dedicated mode in order to initiate a DTM call. When a DTM REQUEST message is received from a DTM-capable MS that is not having a DTM allocation (that is, the CS connection is in the CS territory). FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

106000

Source Section

P_NBSC_CS_DTM

MS_LOST_DURING_ASSIGNMENT

Number of events where the DTM assignment procedure fails and the MS does not return to the old CS channel. Updated: When the DTM assignment procedure fails during an initial DTM allocation, that is, when the CS connection is being moved from the CS territory to PS territory so that the radio connection to the MS is lost. Domain level features: BSS20088 (Dual Transfer Mode)

Data Source

BSS

Source Field

106010

Source Section

P_NBSC_CS_DTM

MS_TCH_SUCC_SEIZ_ASSIGN_CMPLT

Nof times when a MS is successfully on the TCH after an ASSIGNMENT_COMPLETE message

Data Source

BSS

Source Field

1148

Source Section

P_NBSC_TRAFFIC

MSC_CALL_DROP_HO_WCDMA_RAN

Nof dropp calls during outg (GSM to WCDMA RAN) HOs after the ho COMMAND is received from the MSC

Data Source

BSS

Source Field

4157

Source Section

P_NBSC_HO

MSC_CONTROLLED_IN_HO

Number of unsuccessful intra-system HO's handovers due to wrong A-interface circuit type.

Data Source

BSS

Source Field

4101

Source Section

P_NBSC_HO

MSC_CONTROLLED_OUT_HO

Number of unsuccessful handovers due to wrong A-interface circuit type.

Data Source

BSS

Source Field

4102

Source Section

P_NBSC_HO

MSC_END_OF_HO_TO_WCDMA_RAN

Nof the end of ho procedures for outg (GSM to WCDMA RAN) HO controlled by the MSC

Data Source

BSS

Source Field

4156

Source Section

P_NBSC_HO

MSC_END_OF_HO_WCDMARAN_DUE_BSS

Nof the end of outg (GSM to WCDMA RAN) ho procedures due to BSS problems (out HO controlled by the MSC)

Data Source

BSS

Source Field

4152

Source Section

P_NBSC_HO

MSC_GEN_SYS_WCDMA_RAN_HO_COM

Nof the INTER_SYSTEM_ho_TO_WCDMA_RAN_COMMAND messages generated by outg (GSM to WCDMA RAN)

Data Source

BSS

Source Field

4154

Source Section

P_NBSC_HO

MSC_GEN_SYS_WCDMA_RAN_HO_REQ

Total Nof ho_REQ mess generated by outg (GSM to WCDMA RAN) intersystem HOs controlled by the MSC

Data Source

BSS

Source Field

4153

Source Section

P_NBSC_HO

MSC_HO_TO_WCDMA_RAN_NOT_ALLOW

Nof outg (GSM to WCDMA RAN) inter-system HOs controlled by the MSC which are unsucc because Ho are not allowed

Data Source

BSS

Source Field

4151

Source Section

P_NBSC_HO

MSC_HO_WCDMA_RAN_SUCC

Number of successfully completed incoming (WCDMA RAN to GSM) handovers.

Data Source

BSS

Source Field

4149

Source Section

P_NBSC_HO

MSC_I_ATT_HSCSD

Number of incoming HO attempts for HSCSD calls controlled by the MSC.

Data Source

BSS

Source Field

4114

Source Section

P_NBSC_HO

MSC_I_ATT_SWITCH_CIRC_POOL

Number of handover intra-system HO attempts started with the cause value Switch circuit pool

Data Source

BSS

Source Field

4092

Source Section

P_NBSC_HO

MSC_I_CALL_CLR

Not relevant Always zero

Data Source

BSS

Source Field

4040

Source Section

P_NBSC_HO

MSC_I_CALL_POSS_DROP_HO

Nof failures during external HOs after the HO_REQUEST_ACK message is sent to the MSC

Data Source

BSS

Source Field

4108

Source Section

P_NBSC_HO

MSC_I_END_OF_HO

The Nof 'end of ho' procedures in a MSC-controlled incoming ho

Data Source

BSS

Source Field

4080

Source Section

P_NBSC_HO

MSC_I_FAIL_BSS

The number of unsuccessful MSCcontrolled incoming handovers due to BSS problems

Data Source

BSS

Source Field

4003

Source Section

P_NBSC_HO

MSC_I_FAIL_CONN

The Nof unsuccessful MSCcontrolled incoming hos due to connection failure

Data Source

BSS

Source Field

4002

Source Section

P_NBSC_HO

MSC_I_FAIL_LACK

The Nof unsuccessful MSCcontrolled incoming hos due to lack of resources

Data Source

BSS

Source Field

4001

Source Section

P_NBSC_HO

MSC_I_HO_INT_PLMN_INT_GSM_ATT

Number of incoming inter-PLMN intra-GSM circuit switched handover attempts.

Data Source

BSS

Source Field

4174

Source Section

P_NBSC_HO

MSC_I_HO_INT_PLMN_INT_GSM_FAIL

Number of failed incoming inter- PLMN intra-GSM circuit switched handovers.

Data Source

BSS

Source Field

4176

Source Section

P_NBSC_HO

MSC_I_HO_INT_PLMN_INT_GSM_SUCC

Number of successful incoming inter-PLMN intra-GSM circuit switched handovers.

Data Source

BSS

Source Field

4175

Source Section

P_NBSC_HO

MSC_I_SDCCH

The Nof successful SD>SD hos (an MSC-controlled incoming ho)

Data Source

BSS

Source Field

4045

Source Section

P_NBSC_HO

MSC_I_SDCCH_AT

The Nof SD>SD ho attempts (an MSCcontrolled incoming ho)

Data Source

BSS

Source Field

4048

Source Section

P_NBSC_HO

MSC_I_SDCCH_TCH

The Nof successful SD>TCH hos (an MSCcontrolled incoming ho)

Data Source

BSS

Source Field

4044

Source Section

P_NBSC_HO

MSC_I_SDCCH_TCH_AT

The number of SDCCH>TCH handover attempts (an MSCcontrolled incoming handover).

Data Source

BSS

Source Field

4047

Source Section

P_NBSC_HO

MSC_I_SUCC_DEC_HSCSD

Nof chs in an outgoing HSCSD call decreased in HO controlled by the MSC

Data Source

BSS

Source Field

4117

Source Section

P_NBSC_HO

MSC_I_SUCC_HO

The number of successful MSC controlled incoming handovers

Data Source

BSS

Source Field

4000

Source Section

P_NBSC_HO

MSC_I_SUCC_HSCSD

Number of successful incoming HOs for HSCSD calls controlled by the MSC.

Data Source

BSS

Source Field

4115

Source Section

P_NBSC_HO

MSC_I_SUCC_INC_HSCSD

Number of channels in an outgoing HSCSD call increased in HO controlled by MSC.

Data Source

BSS

Source Field

4116

Source Section

P_NBSC_HO

MSC_I_SUCC_SWITCH_CIRC_POOL

Number of incoming successful intra-system HOs started due to the cause switch_circuit_pool

Data Source

BSS

Source Field

4093

Source Section

P_NBSC_HO

MSC_I_TCH_TCH

The number of successful TCH>TCH handovers (an MSCcontrolled incoming handover)

Data Source

BSS

Source Field

4043

Source Section

P_NBSC_HO

MSC_I_TCH_TCH_AT

The number of TCH>TCH handover attempts (an MSCcontrolled incoming handover)

Data Source

BSS

Source Field

4046

Source Section

P_NBSC_HO

MSC_I_WCDMA_SUCC_POOL_SWITCH

Number of incoming WCDMA RAN to GSM handovers that are successful after circuit pool switching.

Data Source

BSC

Source Field

4208

Source Section

RBS_PS_HO_EBTS_RAW

MSC_I_WCDMA_UNsuc_POOL_SWITCH

Number of incoming WCDMA RAN to GSM handovers that are unsuccessful due to a wrong A interface circuit type.

Data Source

BSC

Source Field

4207

Source Section

RBS_PS_HO_EBTS_RAW

MSC_O_ADJ_CELL_ID_ERR_C

Number of adjacent cell id error

Data Source

BSS

Source Field

4100

Source Section

P_NBSC_HO

MSC_O_ATT_HSCSD

Number of outgoing HO attempts for HSCSD calls controlled by the MSC.

Data Source

BSS

Source Field

4112

Source Section

P_NBSC_HO

MSC_O_ATT_SWITCH_CIRC_POOL

Number of handover attempts started with the cause value Switch circuit pool.

Data Source

BSS

Source Field

4094

Source Section

P_NBSC_HO

MSC_O_CALL_CLR

The Nof unsuccessful hos due to cleared call (an MSC-controlled outgoing ho)

Data Source

BSS

Source Field

4041

Source Section

P_NBSC_HO

MSC_O_CALL_DROP_HO

Nof dropped calls during external HOs after the ho_COMMAND is received from the MSC

Data Source

BSS

Source Field

4107

Source Section

P_NBSC_HO

MSC_O_END_HO_BSS

The Nof end of ho procedures due to BSS problems (MSC-controlled outgoing ho)

Data Source

BSS

Source Field

4008

Source Section

P_NBSC_HO

MSC_O_END_OF_HO

The number of 'end of handover' procedures MSC controlled outgoing handover

Data Source

BSS

Source Field

4007

Source Section

P_NBSC_HO

MSC_O_FAIL_LACK

The Nof unsuccessful hos due to no available resources in the target cell

Data Source

BSS

Source Field

4055

Source Section

P_NBSC_HO

MSC_O_FAIL_RET

The Nof unsuccessful MSCcontrolled outgoing hos due to return to the old ch

Data Source

BSS

Source Field

4006

Source Section

P_NBSC_HO

MSC_O_HO_CMD

Number of handover commands sent by BSC in an outgoing MSC controlled handover

Data Source

BSS

Source Field

1195

Source Section

P_NBSC_TRAFFIC

MSC_O_HO_COMM

The Nof generated ho COMMAND messages in an MSC controlled outgoing ho

Data Source

BSS

Source Field

4009

Source Section

P_NBSC_HO

MSC_O_HO_INT_PLMN_INT_GSM_ATT

Number of outgoing inter-PLMN intra-GSM circuit switched handover attempts.

Data Source

BSS

Source Field

4177

Source Section

P_NBSC_HO

MSC_O_HO_INT_PLMN_INT_GSM_FAIL

Number of failed outgoing inter-PLMN intra-GSM circuit switched handovers.

Data Source

BSS

Source Field

4179

Source Section

P_NBSC_HO

MSC_O_HO_INT_PLMN_INT_GSM_SUCC

Number of successful outgoing inter-PLMN intra-GSM circuit switched handovers.

Data Source

BSS

Source Field

4178

Source Section

P_NBSC_HO

MSC_O_HO_RQ_MSG

Total number of generated MSC controlled outgoing HO REQUIRED messages

Data Source

BSS

Source Field

4005

Source Section

P_NBSC_HO

MSC_O_NOT_ALLWD

The Nof unsucc hos due to hos are not allowed (an MSC controlled outgoing ho)

Data Source

BSS

Source Field

4037

Source Section

P_NBSC_HO

MSC_O_SDCCH

The Nof successful SD>SD hos (an MSC-controlled outgoing ho)

Data Source

BSS

Source Field

4051

Source Section

P_NBSC_HO

MSC_O_SDCCH_AT

The Nof SD>SD ho attempts (an MSCcontrolled outgoing ho)

Data Source

BSS

Source Field

4054

Source Section

P_NBSC_HO

MSC_O_SDCCH_TCH

The Nof successful SD>TCH hos (an MSCcontrolled outgoing ho)

Data Source

BSS

Source Field

4050

Source Section

P_NBSC_HO

MSC_O_SDCCH_TCH_AT

The number of SDCCH>TCH handover attempts (an MSCcontrolled outgoing handover)

Data Source

BSS

Source Field

4053

Source Section

P_NBSC_HO

MSC_O_SUCC_HO

The number of successful MSC controlled outgoing handovers

Data Source

BSS

Source Field

4004

Source Section

P_NBSC_HO

MSC_O_SUCC_HSCSD

Number of successful outgoing HOs for HSCSD calls controlled by the MSC.

Data Source

BSS

Source Field

4113

Source Section

P_NBSC_HO

MSC_O_SUCC_SWITCH_CIRC_POOL

Nof successful hos started with the cause value Switch circuit pool

Data Source

BSS

Source Field

4095

Source Section

P_NBSC_HO

MSC_O_TCH_TCH

The number of successful TCH>TCH handovers (an MSCcontrolled outgoing handover)

Data Source

BSS

Source Field

4049

Source Section

P_NBSC_HO

MSC_O_TCH_TCH_AT

The number of TCH>TCH handover attempts (an MSCcontrolled outgoing handover)

Data Source

BSS

Source Field

4052

Source Section

P_NBSC_HO

MSC_TCH_HO_FROM_WCDMA_ATT

Number of incoming (WCDMA RAN to GSM) inter-system handover attempts.

Data Source

BSS

Source Field

4144

Source Section

P_NBSC_HO

MSC_TCH_HO_WCDMA_RAN_ATT

Number of outgoing (GSM to WCDMA RAN) HO attempts controlled by the MSC

Data Source

BSS

Source Field

4150

Source Section

P_NBSC_HO

MSC_TO_WCDMA_RAN_FAIL_LACK

Nof outg (GSM to WCDMA RAN) inter-system HOs controlled by the MSC which are unsucc

Data Source

BSS

Source Field

4155

Source Section

P_NBSC_HO

MSC_TO_WCDMA_RAN_SUCC_TCH_HO

Number of successful outgoing (GSM to WCDMA RAN) HOs controlled by the MSC.

Data Source

BSS

Source Field

4158

Source Section

P_NBSC_HO

MSC_UNSUC_HO_WCDMARAN_DUE_CONN

Nof inc (WCDMA RAN to GSM) Inter-System HOs which are unsucc due to a connection failure

Data Source

BSS

Source Field

4148

Source Section

P_NBSC_HO

MSC_WCDMA_RAN_END_OF_HO

Nof the end of inter-system ho procedures in incoming WCDMA RAN to GSM) HOs

Data Source

BSS

Source Field

4147

Source Section

P_NBSC_HO

MSC_WCDMA_RAN_HO_ATT_UNsuc_BSS

Nof incoming (WCDMA RAN to GSM) hos which are unsucc due to BSS problems

Data Source

BSS

Source Field

4146

Source Section

P_NBSC_HO

MSC_WCDMARAN_HO_ATT_UNsuc_LACK

Nof incoming (WCDMA RAN to GSM) ho req rejected by the BSC due to lack of resources

Data Source

BSS

Source Field

4145

Source Section

P_NBSC_HO

MSCO_SDCCH_TCH_HO_WCDMARAN_ATT

Number of attempts of outgoing SDCCH-TCH handovers from the GSM to the WCDMA RAN controlled by the MSC.

Data Source

BSS

Source Field

4182

Source Section

P_NBSC_HO

MSCO_SDCCH_TCH_HO_WCDMARAN_SUC

Number of successful outgoing SDCCH-TCH handovers from the GSM to the WCDMA RAN controlled by the MSC.

Data Source

BSS

Source Field

4183

Source Section

P_NBSC_HO

MT_DTM_CALL_REJECTS_CONT

Number of events where the network's request to continue the DTM call is rejected. Note that the counter covers the TBF assignment failure cases that prevent the transmission of the assignment message. The failures during the assignment signaling procedures are covered by other counters. The PCU increments this counter whenever the BSC is unable to assign a DL TBF in dual transfer mode for a DTM MS that is having a DTM allocation without ongoing TBFs (i.e. the CS connection is in the PS territory). FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

105003

Source Section

P_NBSC_PS_DTM

MT_DTM_CALL_REJECTS_INI

Number of events where the network's request to initiate a DTM call is rejected. When the BSC is unable to assign a downlink TBF in dual transfer mode for a DTMcapable MS that is having a CS connection in the CS territory (that is, no DTM allocation). FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

105002

Source Section

P_NBSC_PS_DTM

MT_DTM_CALL_REQUESTS_CONT

Number of events where the BSC receives a network originated request to continue the DTM call for a DTM MS that is in dedicated mode. The PCU increments this counter whenever a DL TBF is to be established in dual transfer mode for a DTM MS that is having a DTM allocation without ongoing TBFs (i.e. the CS connection is in the PS territory). FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

105001

Source Section

P_NBSC_PS_DTM

MT_DTM_CALL_REQUESTS_INI

Number of events where the BSC receives a network originated request to initiate a DTM call for a DTM MS that is in dedicated mode. The PCU increments this counter whenever a DL TBF is to be established in dual transfer mode for a DTM MS that is not having a DTM allocation (i.e. the CS connection is in the CS territory). FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

105000

Source Section

P_NBSC_PS_DTM

NBR_OF_52_MULTIFRAMES

Calculates the number of 52-multiframes. Used as a denominator for several counters

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

NBR_OF_BUSY_PRACH

Nof PRACH burst periods during which the received signal level has exceeded a pre-configured threshold

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

NBR_OF_CS_PAGING_REQS_ON_PCCCH

Number of circuit switched paging requests sent on the PCCCH

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

NBR_OF_DEL_DRX_PPCH_MSGS

Nof DRX mode PACKET DOWNLINK ASSIGNMENT messages that have been discarded because of the shortage of DRX buffer space

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

NBR_OF_DEL_NON_DRX_PPCH_MSGS

Nof non-DRX mode PACKET DOWNLINK ASSIGNMENT messages that have been discarded because of the shortage of PPCH queue space

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

NBR_OF_DEL_PACK_PAGING_REQS

Nof packet paging requests that have been discarded because of the shortage of DRX buffer space (DRX array)

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

NBR_OF_DEL_PAGCH_MSGS

Nof PACKET ACCESS REJECT and PACKET UPLINK ASSIGNMENT messages that have been discarded because of the shortage of PAGCH queue space

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

NBR_OF_DL_TBF

The number of established downlink TBFs.

Data Source

BSS

Source Field

72005

Source Section

P_NBSC_PACKET_CONTROL_UNIT

NBR_OF_PACKET_CHANNEL_REQS

With the denominator this counter gives the average number of valid access bursts per one 52-multiframe

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

NBR_OF_PP_REQ_MSGS_ON_PCCCH

Number of PACKET PAGING REQUEST messages sent on the PCCCH

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

NBR_OF_PRACH_SLOTS

With the denominator this counter gives the ave nof allocated PRACH slots per one 52-multiframe in UL PCCCH

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

NBR_OF_PS_PAGING_REQS_ON_PCCCH

Number of packet switched paging requests sent on the PCCCH

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

NBR_OF_UL_TBF

The number of established uplink TBFs.

Data Source

BSS

Source Field

72000

Source Section

P_NBSC_PACKET_CONTROL_UNIT

NBR_P_DL_ASS_MSGS_DEL_DRX_BUF

Nof DRX mode PACKET DOWNLINK ASSIGNMENT messages that have been discarded because of the shortage of DRX buffer space (DRX array)

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

NCCR_QC_TRIG_NO_GOOD_NEIG

This counter is not in use.

Data Source

BSS

Source Field

72185

Source Section

P_NBSC_PACKET_CONTROL_UNIT

NCCR_SERV_ISNCCR_NO_GOOD_NEIG

Number of times when service based ISNCCR criteria triggered, but no good neighbour could be found.

Data Source

BSS

Source Field

72186

Source Section

P_NBSC_PACKET_CONTROL_UNIT

NO_ANSWER_TO_EXT_PCU_PAGE

The number of unanswered PCU-initiated paging messages sent in an extended cell.

Data Source

BSC

Source Field

72234

Source Section

RBS_PS_PCU_BTS_RAW

NO_RADIO_RES_AVA_DL_TBF

No radio resources are available for downlink TBF.

Data Source

BSS

Source Field

72080

Source Section

P_NBSC_PACKET_CONTROL_UNIT

NO_RADIO_RES_AVA_UL_TBF

No radio resources are available for uplink TBF.

Data Source

BSS

Source Field

72079

Source Section

P_NBSC_PACKET_CONTROL_UNIT

NO_RADIO_RES_AVAIL_FOR_DL_TBF

Number of failed DL TBF establishments because of lack of radio resources.

Data Source

BSS

Source Field

72124

Source Section

P_NBSC_PACKET_CONTROL_UNIT

NO_RADIO_RES_AVAIL_FOR_UL_TBF

Number of failed UL TBF establishments because of lack of radio resources

Data Source

BSS

Source Field

72123

Source Section

P_NBSC_PACKET_CONTROL_UNIT

NON_AVAIL_TCH_DENOM

Denominator of the average number of the TCHs timeslots not available (always > 0).

Data Source

BSS

Source Field

2070

Source Section

P_NBSC_RES_AVAIL

NON_DRX_P_DL_ASS_MSGS_ON_PCCCH

Number of non-DRX mode PACKET DOWNLINK ASSIGNMENT messages sent on the PCCCH

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

NON_DTM_BASED_ISHO_ATTEMPT

Number of events where the DX attempts an inter-system handover for a WCDMA capable MS based on the terminals inability to have simultaneous CS and PS connections in GSM.

Data Source

BSS

Source Field

4196

Source Section

P_NBSC_HO

NON_DTM_BASED_ISHO_SUCCESS

Number of events where the DX performs an inter-system handover for a WCDMA capable MS based on the terminals inability to have simultaneous CS and PS connections in GSM.

Data Source

BSS

Source Field

4197

Source Section

P_NBSC_HO

ONE_PH_UL_EGPRS_TBF_ESTAB_REQ

The number of 1-phase UL EGPRS TBF establishment requests on the CCCH.

Data Source

BSC

Source Field

72228

Source Section

RBS_PS_PCU_BTS_RAW

ONE_PH_UL_EGPRS_TBF_ESTB_SUCC

The number of successful 1-phase UL EGPRS TBF establishments on the CCCH.

Data Source

BSC

Source Field

72230

Source Section

RBS_PS_PCU_BTS_RAW

ONE_PH_UL_GPRS_TBF_ESTAB_REQ

The number of 1-phase UL GPRS TBF establishment requests on the CCCH.

Data Source

BSC

Source Field

72227

Source Section

RBS_PS_PCU_BTS_RAW

ONE_PH_UL_GPRS_TBF_ESTAB_SUCC

The number of successful 1-phase UL GPRS TBF establishments on the CCCH.

Data Source

BSC

Source Field

72229

Source Section

RBS_PS_PCU_BTS_RAW

OUT_DL_TBF_DUE_REALLOC

Number of outgoing downlink TBFs because of reallocation(TBF is moved from BTS to another in same segment).

Data Source

BSS

Source Field

72160

Source Section

P_NBSC_PACKET_CONTROL_UNIT

OUT_UL_TBF_DUE_REALLOC

Number of outgoing uplink TBFs because of reallocation(TBF is moved from BTS to another in same segment).

Data Source

BSS

Source Field

72158

Source Section

P_NBSC_PACKET_CONTROL_UNIT

P_ACCESS_REJECT_MSGS_ON_PCCCH

Number of PACKET ACCESS REJECT messages sent on the PCCCH

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

P_NOTIFICATION_FAILURES

Number of events where the BSC is unable to perform a packet notification procedure for a DTM-capable MS. When the BSC is unable to perform a packet notification procedure for a DTM-capable MS. FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

106023

Source Section

P_NBSC_CS_DTM

P_UL_ASS_MSGS_ON_PCCCH

Number of PACKET UPLINK ASSIGNMENT messages sent on the PCCCH

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

PAC_PAG_REQ_FOR_CS_PAG

Number of Packet Paging Request messages sent for CS paging in PACCH.

Data Source

BSS

Source Field

72083

Source Section

P_NBSC_PACKET_CONTROL_UNIT

PACKET_CH_REQ

Number of packet channel requests on CCCH

Data Source

BSS

Source Field

72082

Source Section

P_NBSC_PACKET_CONTROL_UNIT

PACKET_IMM_ASS_DL_NON_DRX_MSG

Number of the PACKET IMMEDIATE ASSIGNMENT messages sent because of DL TBF and addressed to a non-DRX mode MS

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

PACKET_IMMED_ASS_ACK_MSG

Number of packet immediate assignment ack messages.

Data Source

BSS

Source Field

72085

Source Section

P_NBSC_PACKET_CONTROL_UNIT

PACKET_IMMED_ASS_DL_DRX_MSG

Number of the PACKET IMMEDIATE ASSIGNMENT messages sent because of DL TBF and addressed to a DRX mode MS

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

PACKET_IMMED_ASS_DL_NON_DRX

Nof packet immediate assignment -messages that are sent

Data Source

BSS

Source Field

72098

Source Section

P_NBSC_PACKET_CONTROL_UNIT

PACKET_IMMED_ASS_MSG

Number of packet immediate assignment messages sent.

Data Source

BSS

Source Field

72084

Source Section

P_NBSC_PACKET_CONTROL_UNIT

PACKET_IMMED_ASS_NACK_MSG

Number of packet immediate assignment nack messages.

Data Source

BSS

Source Field

72086

Source Section

P_NBSC_PACKET_CONTROL_UNIT

PACKET_IMMED_ASS_REJ_MSG

Number of sent PACKET_IMMEDIATE_ASSIGNMENT_REJECT messages.

Data Source

BSS

Source Field

72087

Source Section

P_NBSC_PACKET_CONTROL_UNIT

PACKET_IMMED_ASS_UL_MSG

Number of the PACKET IMMEDIATE ASSIGNMENT messages sent because of UL TBF

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

PACKET_NOTIFICATIONS

Number of events where the PS paging request is sent to a DTM-capable MS with a PACKET NOTIFICATION message. When a PACKET NOTIFICATION message is sent to a DTM-capable MS on DCCH.FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

106022

Source Section

P_NBSC_CS_DTM

PEAK_BUSY_GPRS_CH_DL

This is a spare counter named prematurely with a fixed name.

Data Source

BSS

Source Field

72191

Source Section

P_NBSC_PACKET_CONTROL_UNIT

PEAK_BUSY_GPRS_CH_UL

This is a spare counter named prematurely with a fixed name.

Data Source

BSS

Source Field

72192

Source Section

P_NBSC_PACKET_CONTROL_UNIT

PEAK_BUSY_HSCSD

Peak number of the busy TCHs for HSCSD calls within a measurement period

Data Source

BSS

Source Field

2056

Source Section

P_NBSC_RES_AVAIL

PEAK_BUSY_SDCCH

Peak busy SD. The counter gives info about the peak Nof busy SDs in a measurement period

Data Source

BSS

Source Field

2032

Source Section

P_NBSC_RES_AVAIL

PEAK_BUSY_TCH

Peak busy TCH. The counter gives info about the peak Nof busy TCHs in a measurement period

Data Source

BSS

Source Field

2029

Source Section

P_NBSC_RES_AVAIL

PEAK_BUSY_TCH_TIMESLOT

Peak number of busy TCH timeslots (FR,HR or DR) within a measurement period.

Data Source

BSS

Source Field

2091

Source Section

P_NBSC_RES_AVAIL

PEAK_DTM_CS_SIMULTAN

Peak number of simultaneous DTM CS connections within the PS territory. The number of simultaneous DTM CS connections within the PS territory is determined when a DTM CS connection is moved to the PS territory. The maximum value registered is stored to this counter. FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

105015

Source Section

P_NBSC_PS_DTM

PEAK_GPRS_CHANNELS

The peak Nof radio time slots delivered for GPRS use within a measurement period

Data Source

BSS

Source Field

2053

Source Section

P_NBSC_RES_AVAIL

PEAK_PERMANENT_GPRS_CH

The peak Nof radio ts delivered for dedicated GPRS use within a measurement period

Data Source

BSS

Source Field

2066

Source Section

P_NBSC_RES_AVAIL

PEAK_WPS_QUEUE_COUNT

Peak number of WPS users in queue during a measurement period.

UPDATED: When the number of WPS users in queue exceeds the previous peak value. RELATED TO FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103006

Source Section

P_NBSC_WPS

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

PFC_DOWNLOAD_PCU_INIT

This counter is not in use.

Data Source

BSS

Source Field

72184

Source Section

P_NBSC_PACKET_CONTROL_UNIT

QUE_ALL_ASS_REQ_ATT

The number of queuing allowed assignment request attempts

Data Source

BSS

Source Field

1056

Source Section

P_NBSC_TRAFFIC

QUE_ALL_ASS_REQ_FAIL

The number of queuing allowed assignment request failures

Data Source

BSS

Source Field

1060

Source Section

P_NBSC_TRAFFIC

QUE_ALL_HO_REQ_ATT

The number of queuing allowed handover request attempts

Data Source

BSS

Source Field

1064

Source Section

P_NBSC_TRAFFIC

QUE_ALL_HO_REQ_FAIL

The number of queuing allowed handover request failures

Data Source

BSS

Source Field

1068

Source Section

P_NBSC_TRAFFIC

QUE_NALL_ASS_REQ_ATT

The number of queuing not allowed assignment request attempts

Data Source

BSS

Source Field

1057

Source Section

P_NBSC_TRAFFIC

QUE_NALL_ASS_REQ_FAIL

The number of queuing not allowed assignment request failures

Data Source

BSS

Source Field

1061

Source Section

P_NBSC_TRAFFIC

QUE_NALL_HO_REQ_ATT

The number of queuing not allowed handover request attempts

Data Source

BSS

Source Field

1065

Source Section

P_NBSC_TRAFFIC

QUE_NALL_HO_REQ_FAIL

The number of queuing not allowed handover request failures

Data Source

BSS

Source Field

1069

Source Section

P_NBSC_TRAFFIC

QUE_URG_HO_ATT

Number of queued urgent handover attempts

Data Source

BSS

Source Field

1142

Source Section

P_NBSC_TRAFFIC

QUE_URG_HO_ATT_NOT_SERVED

Number of queued urgent handover attempts not served

Data Source

BSS

Source Field

1147

Source Section

P_NBSC_TRAFFIC

QUEUE_DENOM1

Denominator of average queuing length for channel seizure requests (always > 0).

Data Source

BSS

Source Field

1019

Source Section

P_NBSC_TRAFFIC

QUEUE_DENOM2

Denominator of average queuing time of queued call attempts (always>0).

Data Source

BSS

Source Field

1021

Source Section

P_NBSC_TRAFFIC

QUEUE_DENOM3

Denominator of the average queuing time of queued handover attempts (always >0).

Data Source

BSS

Source Field

1023

Source Section

P_NBSC_TRAFFIC

QUEUED_PRI_1_WPS_USERS

Number of priority level 1 WPS users put to queue. UPDATED: When a WPS user with MS priority level 2 is put to queue. RELATED TO FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103009

Source Section

P_NBSC_WPS

QUEUED_PRI_2_WPS_USERS

Number of priority level 2 WPS users put to queue. UPDATED: When a WPS user with MS priority level 3 is put to queue. RELATED TO FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103010

Source Section

P_NBSC_WPS

QUEUED_PRI_3_WPS_USERS

Number of priority level 3 WPS users put to queue. UPDATED: When a WPS user with MS priority level 4 is put to queue. RELATED TO FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103011

Source Section

P_NBSC_WPS

QUEUED_PRI_4_WPS_USERS

Number of priority level 4 WPS users put to queue. UPDATED: When a WPS user with MS priority level 5 is put to queue. RELATED TO FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103012

Source Section

P_NBSC_WPS

QUEUED_PRI_5_WPS_USERS

Number of priority level 5 WPS users put to queue. UPDATED: When a WPS user with MS priority level 6 is put to queue. RELATED TO FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103013

Source Section

P_NBSC_WPS

REALLOC_DUE_TERR_DOWGR

Number of TBF reallocations due to territory downgrade.

Data Source

BSS

Source Field

72029

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REDUCED_BCCH_PWR_ON_SDCCH

Number of measurement results indicating reduced BCCH transmit power on an SDCCH, excluding those on time slot 7.

Data Source

BSS

Source Field

113001

Source Section

P_NBSC_POWER_SAVING

REDUCED_BCCH_PWR_ON_TCH_FR

Number of measurement results indicating reduced BCCH transmit power on a TCH/F, excluding those on time slot 7.

Data Source

BSS

Source Field

113003

Source Section

P_NBSC_POWER_SAVING

REDUCED_BCCH_PWR_ON_TCH_HR

Number of measurement results indicating reduced BCCH transmit power on a TCH/H, excluding those on time slot 7.

Data Source

BSS

Source Field

113005

Source Section

P_NBSC_POWER_SAVING

REMOVAL_FROM_QUE_DUE_TO_DR

Number of requests removed from the queue due to start of DR.

Data Source

BSS

Source Field

1173

Source Section

P_NBSC_TRAFFIC

REP_ACCH_MS_TCH_SEIZURES

Number of TCH seizures for repeated ACCH-capable mobiles.

Data Source

BSC

Source Field

112000

Source Section

RBS_PS_AMRSIG_BTS_RAW

REQ_1_TSL_DL

Number of 1 TSL requested for one TBF in downlink allocation.

Data Source

BSS

Source Field

72039

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_1_TSL_DL_FOR_EGPRS_MS

Number of requests for one TSL in DL EGPRS TBF allocation.

Data Source

BSS

Source Field

72149

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_1_TSL_UL

Number of 1 TSL requested for one TBF in uplink allocation.

Data Source

BSS

Source Field

72034

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_1_TSL_UL_FOR_EGPRS_MS

Number of requests for one TSL in UL EGPRS TBF allocation.

Data Source

BSS

Source Field

72141

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_10_TSL_DL

Number of requests for 10 TSLs in DL TBF allocation or reallocation.

Data Source

BSS

Source Field

72251

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_11_TSL_DL

Number of requests for 11 TSLs in DL TBF allocation or reallocation.

Data Source

BSS

Source Field

72252

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_12_TSL_DL

Number of requests for 12 TSLs in DL TBF allocation or reallocation.

Data Source

BSS

Source Field

72253

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_2_TSL_DL

Number of 2 TSLs requested for one TBF in downlink allocation.

Data Source

BSS

Source Field

72040

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_2_TSL_DL_FOR_EGPRS_MS

Number of requests for one TSL in DL EGPRS TBF allocation.

Data Source

BSS

Source Field

72150

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_2_TSL_UL

Number of 2 TSLs requested for one TBF in uplink allocation.

Data Source

BSS

Source Field

72035

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_2_TSL_UL_FOR_EGPRS_MS

Number of requests for two TSLs in UL EGPRS TBF allocation.

Data Source

BSS

Source Field

72142

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_3_TSL_DL

Number of 3TSLs requested for one TBF in downlink allocation.

Data Source

BSS

Source Field

72041

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_3_TSL_DL_FOR_EGPRS_MS

Number of requests for three TSLs in DL EGPRS TBF allocation.

Data Source

BSS

Source Field

72151

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_3_TSL_UL

Number of 3TSLs requested for one TBF in uplink allocation.

Data Source

BSS

Source Field

72036

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_3_TSL_UL_FOR_EGPRS_MS

Number of requests for three TSLs in UL EGPRS TBF allocation.

Data Source

BSS

Source Field

72143

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_4_TSL_DL

Number of 4TSLs requested for one TBF in downlink allocation.

Data Source

BSS

Source Field

72042

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_4_TSL_DL_FOR_EGPRS_MS

Number of requests for four TSLs in DL EGPRS TBF allocation.

Data Source

BSS

Source Field

72152

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_4_TSL_UL

Number of 4TSLs requested for one TBF in uplink allocation.

Data Source

BSS

Source Field

72037

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_4_TSL_UL_FOR_EGPRS_MS

Number of requests for four TSLs in UL EGPRS TBF allocation.

Data Source

BSS

Source Field

72144

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_5_8_TSL_DL

This counter is not in use.

Data Source

BSS

Source Field

72043

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_5_8_TSL_UL

This counter is not in use.

Data Source

BSS

Source Field

72038

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_5_TSL_DL

Number of requests for five TSL in DL TBF allocation or reallocation.

Data Source

BSS

Source Field

72129

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_5_TSL_DL_FOR_EGPRS_MS

Number of requests for five TSLs in DL EGPRS TBF allocation.

Data Source

BSS

Source Field

72153

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_5_TSL_UL

Number of requests for five TSL in UL TBF allocation or reallocation.

Data Source

BSS

Source Field

72125

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_5_TSL_UL_FOR_EGPRS_MS

Number of requests for five TSLs in UL EGPRS TBF allocation.

Data Source

BSS

Source Field

72145

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_6_TSL_DL

Number of requests for six TSL in DL TBF allocation or reallocation.

Data Source

BSS

Source Field

72130

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_6_TSL_DL_FOR_EGPRS_MS

Number of requests for six TSLsinDLEGPRS TBF allocation.

Data Source

BSS

Source Field

72154

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_6_TSL_UL

Number of requests for six TSL in UL TBF allocation or reallocation.

Data Source

BSS

Source Field

72126

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_6_TSL_UL_FOR_EGPRS_MS

Number of requests for six TSLsinULEGPRS TBF allocation.

Data Source

BSS

Source Field

72146

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_7_TSL_DL

Number of requests for seven TSL in DL TBF allocation or reallocation.

Data Source

BSS

Source Field

72131

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_7_TSL_DL_FOR_EGPRS_MS

Number of requests for seven TSLs in DL EGPRS TBF allocation.

Data Source

BSS

Source Field

72155

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_7_TSL_UL

Number of requests for seven TSL in UL TBF allocation or reallocation.

Data Source

BSS

Source Field

72127

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_7_TSL_UL_FOR_EGPRS_MS

Number of requests for seven TSLs in UL EGPRS TBF allocation.

Data Source

BSS

Source Field

72147

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_8_TSL_DL

Number of requests for eight TSL in DL TBF allocation or reallocation.

Data Source

BSS

Source Field

72132

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_8_TSL_DL_FOR_EGPRS_MS

Number of requests for eight TSLs in DL EGPRS TBF allocation

Data Source

BSS

Source Field

72156

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_8_TSL_UL

Number of requests for eight TSL in UL TBF allocation or reallocation.

Data Source

BSS

Source Field

72128

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_8_TSL_UL_FOR_EGPRS_MS

Number of requests for eight TSLs in UL EGPRS TBF allocation.

Data Source

BSS

Source Field

72148

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_9_TSL_DL

Number of requests for 9 TSLs in DL TBF allocation or reallocation.

Data Source

BSS

Source Field

72250

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_DL_TBF_DURING_UL_TBF

Number of downlink TBF establishment requests during uplink TBF.

Data Source

BSS

Source Field

72075

Source Section

P_NBSC_PACKET_CONTROL_UNIT

REQ_UL_TBF_DURING_DL_TBF

Number of uplink TBF establishment requests during downlink TBF.

Data Source

BSS

Source Field

72074

Source Section

P_NBSC_PACKET_CONTROL_UNIT

RES_AV_DENOM1

The denominator of the average Nof unavail radio ts blocked or faulty always0

Data Source

BSS

Source Field

2001

Source Section

P_NBSC_RES_AVAIL

RES_AV_DENOM10

The denominator of the average Nof idle hr TCHs per interference band always0

Data Source

BSS

Source Field

2019

Source Section

P_NBSC_RES_AVAIL

RES_AV_DENOM11

The denominator of the average Nof idle hr TCHs per interference band always0

Data Source

BSS

Source Field

2021

Source Section

P_NBSC_RES_AVAIL

RES_AV_DENOM12

The denominator of the average Nof idle hr TCHs per interference band always0

Data Source

BSS

Source Field

2023

Source Section

P_NBSC_RES_AVAIL

RES_AV_DENOM13

The denominator of the average Nof idle hr TCHs per interference band always0

Data Source

BSS

Source Field

2025

Source Section

P_NBSC_RES_AVAIL

RES_AV_DENOM14

The denominator of the average number of busy TCHs always0

Data Source

BSS

Source Field

2028

Source Section

P_NBSC_RES_AVAIL

RES_AV_DENOM15

The denominator of the average number of busy SDCCH subchannels always0

Data Source

BSS

Source Field

2031

Source Section

P_NBSC_RES_AVAIL

RES_AV_DENOM16

The denominator of the average SDCCH holding time always0

Data Source

BSS

Source Field

2035

Source Section

P_NBSC_RES_AVAIL

RES_AV_DENOM17

The denominator of the average FTCH holding time always0

Data Source

BSS

Source Field

2037

Source Section

P_NBSC_RES_AVAIL

RES_AV_DENOM2

The denominator of the average number of available full rate radio TCHs always0

Data Source

BSS

Source Field

2003

Source Section

P_NBSC_RES_AVAIL

RES_AV_DENOM3

The denominator of the average number of available SDCCH subchannels always0

Data Source

BSS

Source Field

2005

Source Section

P_NBSC_RES_AVAIL

RES_AV_DENOM30

Denominator of the average number of TCHs locked by the user (always > 0).

Data Source

BSS

Source Field

2074

Source Section

P_NBSC_RES_AVAIL

RES_AV_DENOM31

Denominator of the average number of the SDCCHs locked by the user (always > 0).

Data Source

BSS

Source Field

2076

Source Section

P_NBSC_RES_AVAIL

RES_AV_DENOM32

Denominator of the average number of the TCHs allocated for 14k4 data calls (always > 0).

Data Source

BSS

Source Field

2078

Source Section

P_NBSC_RES_AVAIL

RES_AV_DENOM33

Denominator of the mean holding time of TCHs for 14k4 data calls.

Data Source

BSS

Source Field

2080

Source Section

P_NBSC_RES_AVAIL

RES_AV_DENOM4

The denominator of the average Nof idle fr TCHs per interference band always0

Data Source

BSS

Source Field

2007

Source Section

P_NBSC_RES_AVAIL

RES_AV_DENOM5

The denominator of the average Nof idle fr TCHs per interference band always0

Data Source

BSS

Source Field

2009

Source Section

P_NBSC_RES_AVAIL

RES_AV_DENOM6

The denominator of the average Nof idle fr TCHs per interference ban always0

Data Source

BSS

Source Field

2011

Source Section

P_NBSC_RES_AVAIL

RES_AV_DENOM7

The denominator of the average Nof idle fr TCHs per interference band always0

Data Source

BSS

Source Field

2013

Source Section

P_NBSC_RES_AVAIL

RES_AV_DENOM8

The denominator of the average Nof idle hr TCHs per interference band always0

Data Source

BSS

Source Field

2015

Source Section

P_NBSC_RES_AVAIL

RES_AV_DENOM9

The denominator of the average Nof idle hr TCHs per interference band always0

Data Source

BSS

Source Field

2017

Source Section

P_NBSC_RES_AVAIL

RETRA_DATA_BLOCKS_UL_CS1

Number of retransmitted uplink RLC blocks using coding scheme 1(CS1).

Data Source

BSS

Source Field

72173

Source Section

P_NBSC_PACKET_CONTROL_UNIT

RETRA_DATA_BLOCKS_UL_CS2

Number of retransmitted uplink RLC blocks using coding scheme 2(CS2).

Data Source

BSS

Source Field

72174

Source Section

P_NBSC_PACKET_CONTROL_UNIT

RETRA_RLC_DATA_BLOCKS_DL_CS1

Number of retransmitted NACKED RLC data blocks in downlink with CS1.

Data Source

BSS

Source Field

72068

Source Section

P_NBSC_PACKET_CONTROL_UNIT

RETRA_RLC_DATA_BLOCKS_DL_CS2

Number of retransmitted NACKED RLC data blocks in downlink with CS2.

Data Source

BSS

Source Field

72069

Source Section

P_NBSC_PACKET_CONTROL_UNIT

RETRANS_RLC_DATA_BLOCKS_DL0

Nr of retransmitted RLC data blocks in the dl direction. CS 0

Data Source

BSS

Source Field

79009

Source Section

P_NBSC_CODING_SCHEME

RETRANS_RLC_DATA_BLOCKS_DL1

Nr of retransmitted RLC data blocks in the dl direction. CS 1

Data Source

BSS

Source Field

79009

Source Section

P_NBSC_CODING_SCHEME

RETRANS_RLC_DATA_BLOCKS_DL2

Nr of retransmitted RLC data blocks in the dl direction. CS 2

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

RETRANS_RLC_DATA_BLOCKS_DL3

Nr of retransmitted RLC data blocks in the dl direction. CS 3

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

RETRANS_RLC_DATA_BLOCKS_DL4

Nr of retransmitted RLC data blocks in the dl direction. CS 4

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

RETRANS_RLC_DATA_BLOCKS_DL5

Nr of retransmitted RLC data blocks in the dl direction. CS 5

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

RETRANS_RLC_DATA_BLOCKS_DL6

Nr of retransmitted RLC data blocks in the dl direction. CS 6

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

RETRANS_RLC_DATA_BLOCKS_DL7

Nr of retransmitted RLC data blocks in the dl direction. CS 7

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

RETRANS_RLC_DATA_BLOCKS_DL8

Nr of retransmitted RLC data blocks in the dl direction. CS 8

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

RETRANS_RLC_DATA_BLOCKS_DL9

Nr of retransmitted RLC data blocks in the dl direction. CS 9

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

RETRANS_RLC_DATA_BLOCKS_UL0

Nr of retransmitted RLC data blocks in the ul direction. CS 0

Data Source

BSS

Source Field

79008

Source Section

P_NBSC_CODING_SCHEME

RETRANS_RLC_DATA_BLOCKS_UL1

Nr of retransmitted RLC data blocks in the ul direction. CS 1

Data Source

BSS

Source Field

79008

Source Section

P_NBSC_CODING_SCHEME

RETRANS_RLC_DATA_BLOCKS_UL2

Nr of retransmitted RLC data blocks in the ul direction. CS 2

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

RETRANS_RLC_DATA_BLOCKS_UL3

Nr of retransmitted RLC data blocks in the ul direction. CS 3

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

RETRANS_RLC_DATA_BLOCKS_UL4

Nr of retransmitted RLC data blocks in the ul direction. CS 4

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

RETRANS_RLC_DATA_BLOCKS_UL5

Nr of retransmitted RLC data blocks in the ul direction. CS 5

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

RETRANS_RLC_DATA_BLOCKS_UL6

Nr of retransmitted RLC data blocks in the ul direction. CS 6

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

RETRANS_RLC_DATA_BLOCKS_UL7

Nr of retransmitted RLC data blocks in the ul direction. CS 7

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

RETRANS_RLC_DATA_BLOCKS_UL8

Nr of retransmitted RLC data blocks in the ul direction. CS 8

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

RETRANS_RLC_DATA_BLOCKS_UL9

Nr of retransmitted RLC data blocks in the ul direction. CS 9

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

RLC_DATA_BLOCKS_DL_CS1

Nof new RLC data blocks in dl with CS1. Retransmitted data blocks are not counted to this counter

Data Source

BSS

Source Field

72063

Source Section

P_NBSC_PACKET_CONTROL_UNIT

RLC_DATA_BLOCKS_DL_CS2

Nof new RLC data blocks in dl with CS2. Retransmitted data blocks are not counted to this counter

Data Source

BSS

Source Field

72065

Source Section

P_NBSC_PACKET_CONTROL_UNIT

RLC_DATA_BLOCKS_DL_UNACK

Number of new RLC data blocks in dl in unackmode. Retransmitted data blocks are not counted to this counter.

Data Source

BSS

Source Field

72067

Source Section

P_NBSC_PACKET_CONTROL_UNIT

RLC_DATA_BLOCKS_UL_CS1

Number of valid RLC data blocks in uplink with CS1.

Data Source

BSS

Source Field

72062

Source Section

P_NBSC_PACKET_CONTROL_UNIT

RLC_DATA_BLOCKS_UL_CS2

Number of valid RLC data blocks in uplink with CS2.

Data Source

BSS

Source Field

72064

Source Section

P_NBSC_PACKET_CONTROL_UNIT

RLC_DATA_BLOCKS_UL_UNACK

Number of valid RLC data blocks in uplink in unacknowledged mode.

Data Source

BSS

Source Field

72066

Source Section

P_NBSC_PACKET_CONTROL_UNIT

RLC_MAC_CNTRL_BLOCKS_DL

Number of RLC/MAC control blocks in downlink.

Data Source

BSS

Source Field

72077

Source Section

P_NBSC_PACKET_CONTROL_UNIT

RLC_MAC_CNTRL_BLOCKS_UL

Number of RLC/MAC control blocks in uplink.

Data Source

BSS

Source Field

72076

Source Section

P_NBSC_PACKET_CONTROL_UNIT

RLC_RETR_DL_CS1_DUE_OTH_NACK

The number of retransmitted downlink RLC blocks using coding scheme CS1 due to another reason than NACK.

Data Source

BSC

Source Field

72222

Source Section

RBS_PS_PCU_BTS_RAW

RLC_RETR_DL_CS2_DUE_OTH_NACK

The number of retransmitted downlink RLC blocks using coding scheme CS2 due to another reason than NACK.

Data Source

BSC

Source Field

72223

Source Section

RBS_PS_PCU_BTS_RAW

RLC_RETR_DL_DUE_OTH_NACK_0

Number of DL RLC blocks retransmitted due to other reason than NACK. All MCSs are relevant.

Data Source

BSS

Source Field

79013

Source Section

P_NBSC_CODING_SCHEME

RLC_RETR_DL_DUE_OTH_NACK_1

Number of DL RLC blocks retransmitted due to other reason than NACK. All MCSs are relevant.

Data Source

BSS

Source Field

79013

Source Section

P_NBSC_CODING_SCHEME

RLC_RETR_DL_DUE_OTH_NACK_10

Number of DL RLC blocks retransmitted due to other reason than NACK. All MCSs are relevant.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

RLC_RETR_DL_DUE_OTH_NACK_2

Number of DL RLC blocks retransmitted due to other reason than NACK. All MCSs are relevant.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

RLC_RETR_DL_DUE_OTH_NACK_3

Number of DL RLC blocks retransmitted due to other reason than NACK. All MCSs are relevant.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

RLC_RETR_DL_DUE_OTH_NACK_4

Number of DL RLC blocks retransmitted due to other reason than NACK. All MCSs are relevant.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

RLC_RETR_DL_DUE_OTH_NACK_5

Number of DL RLC blocks retransmitted due to other reason than NACK. All MCSs are relevant.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

RLC_RETR_DL_DUE_OTH_NACK_6

Number of DL RLC blocks retransmitted due to other reason than NACK. All MCSs are relevant.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

RLC_RETR_DL_DUE_OTH_NACK_7

Number of DL RLC blocks retransmitted due to other reason than NACK. All MCSs are relevant.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

RLC_RETR_DL_DUE_OTH_NACK_8

Number of DL RLC blocks retransmitted due to other reason than NACK. All MCSs are relevant.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

RLC_RETR_DL_DUE_OTH_NACK_9

Number of DL RLC blocks retransmitted due to other reason than NACK. All MCSs are relevant.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

SAIC_CI_TARGET

The SAIC C/I target level value used for the connection type. This value is calculated by subtracting the value of the SAIC DL C/I offset parameter from the DFCA C/I target value of the connection type in question. The SAIC C/I target level value is read at the end of the measurement period.

Data Source

BSS

Source Field

108000

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_1_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target -1 dB.

Data Source

BSS

Source Field

108061

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_1_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target + 1 dB

Data Source

BSS

Source Field

108040

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_10_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target -10 dB.

Data Source

BSS

Source Field

108070

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_10_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target + 10 dB

Data Source

BSS

Source Field

108049

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_11_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target -11 dB.

Data Source

BSS

Source Field

108071

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_11_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target + 11 dB

Data Source

BSS

Source Field

108050

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_12_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target -12 dB.

Data Source

BSS

Source Field

108072

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_12_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target + 12 dB

Data Source

BSS

Source Field

108051

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_13_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target -13 dB.

Data Source

BSS

Source Field

108073

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_13_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target + 13 dB.

Data Source

BSS

Source Field

108052

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_14_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target -14 dB.

Data Source

BSS

Source Field

108074

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_14_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target + 14 dB.

Data Source

BSS

Source Field

108053

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_15_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target -15 dB.

Data Source

BSS

Source Field

108075

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_15_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target + 15 dB.

Data Source

BSS

Source Field

108054

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_16_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target + 16 dB.

Data Source

BSS

Source Field

108055

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_17_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target + 17 dB.

Data Source

BSS

Source Field

108056

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_18_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target + 18 dB.

Data Source

BSS

Source Field

108057

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_19_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target + 19 dB.

Data Source

BSS

Source Field

108058

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_2_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target -2 dB.

Data Source

BSS

Source Field

108062

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_2_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target + 2 dB

Data Source

BSS

Source Field

108041

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_20_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target + 20 dB.

Data Source

BSS

Source Field

108059

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_3_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target -3 dB.

Data Source

BSS

Source Field

108063

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_3_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target + 3 dB

Data Source

BSS

Source Field

108042

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_4_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target -4 dB.

Data Source

BSS

Source Field

108064

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_4_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target + 4 dB

Data Source

BSS

Source Field

108043

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_5_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target -5 dB.

Data Source

BSS

Source Field

108065

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_5_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target + 5 dB

Data Source

BSS

Source Field

108044

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_6_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target -6 dB.

Data Source

BSS

Source Field

108066

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_6_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target + 6 dB

Data Source

BSS

Source Field

108045

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_7_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target -7 dB.

Data Source

BSS

Source Field

108067

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_7_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target + 7 dB

Data Source

BSS

Source Field

108046

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_8_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target -8 dB.

Data Source

BSS

Source Field

108068

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_8_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target + 8 dB

Data Source

BSS

Source Field

108047

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_9_BELOW_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target -9 dB.

Data Source

BSS

Source Field

108069

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_9_OVER_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target + 9 dB

Data Source

BSS

Source Field

108048

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_BELOW_15_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection is lower than the SAIC C/I target -15 dB.

Data Source

BSS

Source Field

108076

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_OVER_20_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection is higher than the SAIC C/I target + 20 dB.

Data Source

BSS

Source Field

108060

Source Section

P_NBSC_DFCA_SAIC

SAIC_INTRF_CI_TG_DL

The number of DFCA assignments where the downlink C/I level of the most interfered connection equals the SAIC C/I target.

Data Source

BSS

Source Field

108039

Source Section

P_NBSC_DFCA_SAIC

SAIC_TBFS_DL

The number of established DL TBFs using SAIC.

Data Source

BSC

Source Field

72207

Source Section

RBS_PS_PCU_BTS_RAW

SDCCH_A_IF_FAIL

Number of SDCCH transaction failures due to A-interface failure

Data Source

BSS

Source Field

1034

Source Section

P_NBSC_TRAFFIC

SDCCH_A_IF_FAIL_CALL

Nof SD transaction failures due to A-interface failure during a call attempt

Data Source

BSS

Source Field

1079

Source Section

P_NBSC_TRAFFIC

SDCCH_A_IF_FAIL_NEW

Nof SDCCH transaction failures due to A-interface failure on the new ch during an SD ho

Data Source

BSS

Source Field

1081

Source Section

P_NBSC_TRAFFIC

SDCCH_A_IF_FAIL_OLD

Nof SD transaction failures due to A-interface failure on the old ch during an SD-SD or SD-TCH ho

Data Source

BSS

Source Field

1080

Source Section

P_NBSC_TRAFFIC

SDCCH_ABIS_FAIL

Number of SDCCH transaction failures due to Abis interface failure

Data Source

BSS

Source Field

1033

Source Section

P_NBSC_TRAFFIC

SDCCH_ABIS_FAIL_CALL

Nof SD transaction failures due to Abis interface failure during a call

Data Source

BSS

Source Field

1076

Source Section

P_NBSC_TRAFFIC

SDCCH_ABIS_FAIL_NEW

Nof SDCCH transaction failures due to an Abis interface failure on the new ch during ho

Data Source

BSS

Source Field

1078

Source Section

P_NBSC_TRAFFIC

SDCCH_ABIS_FAIL_OLD

Nof SD transaction failures due to Abis interface fail on the old ch during a SD-SD or TCH-SD
ho

Data Source

BSS

Source Field

1077

Source Section

P_NBSC_TRAFFIC

SDCCH_ACT_FAIL

Number of SDCCH transaction failures due to activation failure

Data Source

BSS

Source Field

1027

Source Section

P_NBSC_TRAFFIC

SDCCH_ACT_FAIL_CALL

The number forced handovers

Data Source

BSS

Source Field

1072

Source Section

P_NBSC_TRAFFIC

SDCCH_ACT_FAIL_NEW

Nof SD transaction failures due to an activation failure during the call

Data Source

BSS

Source Field

1074

Source Section

P_NBSC_TRAFFIC

SDCCH_ALLOC_FOR_SMS

SDC channel for allocating SMS.

Data Source

BSS

Source Field

2087

Source Section

P_NBSC_RES_AVAIL

SDCCH_ALLOC_FOR_VOICE_CALL

SDC channel for allocating voice call.

Data Source

BSS

Source Field

2085

Source Section

P_NBSC_RES_AVAIL

SDCCH_ASSIGN

Successful SDCCH seizures for immediate assignment

Data Source

BSS

Source Field

1007

Source Section

P_NBSC_TRAFFIC

SDCCH_ASSIGN_SERVICE

Number of SDCCH assignments.

Data Source

BSS

Source Field

57021

Source Section

P_NBSC_SERVICE

SDCCH_BCSU_RESET

Number of SDCCH transaction failures due to BCSU reset

Data Source

BSS

Source Field

1038

Source Section

P_NBSC_TRAFFIC

SDCCH_BSS_FAIL

Number of SDCCH transaction failures due to BSS failure

Data Source

BSS

Source Field

1002

Source Section

P_NBSC_TRAFFIC

SDCCH_BTS_FAIL

Number of SDCCH transaction failures due to BTS failure

Data Source

BSS

Source Field

1036

Source Section

P_NBSC_TRAFFIC

SDCCH_BUSY_ATT

The SDCCH seizure attempts that are unsuccessful because all SDCCHs are busy

Data Source

BSS

Source Field

1001

Source Section

P_NBSC_TRAFFIC

SDCCH_CONG_TIME

SDCCH congestion time

Data Source

BSS

Source Field

2033

Source Section

P_NBSC_RES_AVAIL

SDCCH_DYNAMIC_RECONF_ATT

Number of SDCCH reconfigurations.

Data Source

BSS

Source Field

1154

Source Section

P_NBSC_TRAFFIC

SDCCH_FAIL_PH_3

Number of all the failures on SDCCH in phase 3 that do not trigger any TCH failure counter in the same phase.

Data Source

BSS

Source Field

1201

Source Section

P_NBSC_TRAFFIC

SDCCH_FAST_SEIZ

Successful SDCCH seizures after a fast call set-up attempt

Data Source

BSS

Source Field

1032

Source Section

P_NBSC_TRAFFIC

SDCCH_HO_CALL_ASSIGN

Number of SDCCH handover call assignments.

Data Source

BSS

Source Field

57024

Source Section

P_NBSC_SERVICE

SDCCH_HO_RELEASE

Number of SDCCH handover releases.

Data Source

BSS

Source Field

57027

Source Section

P_NBSC_SERVICE

SDCCH_HO_SEIZ

Successful SDCCH seizures for a handover

Data Source

BSS

Source Field

1006

Source Section

P_NBSC_TRAFFIC

SDCCH_LAPD_FAIL

Number of SDCCH transaction failures due to LAPD failure

Data Source

BSS

Source Field

1035

Source Section

P_NBSC_TRAFFIC

SDCCH_LU_ATTEMPT

Number of SDCCH location update requests.

Data Source

BSS

Source Field

1231

Source Section

P_NBSC_TRAFFIC

SDCCH_LU_ATTEMPT_FAIL

Number of failed SDCCH location update requests.

Data Source

BSS

Source Field

1232

Source Section

P_NBSC_TRAFFIC

SDCCH_MOC_SEIZ_ATT

Number of SDCCH seizure attempts for a MOC.

Data Source

BSS

Source Field

1135

Source Section

P_NBSC_TRAFFIC

SDCCH_MTC_SEIZ_ATT

Number of SDCCH seizure attempts for a MTC.

Data Source

BSS

Source Field

1136

Source Section

P_NBSC_TRAFFIC

SDCCH_NETW_ACT

Nof SD transaction failures due to radio network reconfiguration actions

Data Source

BSS

Source Field

1039

Source Section

P_NBSC_TRAFFIC

SDCCH_NEW_CALL_ASSIGN

Number of SDCCH new call assignments.

Data Source

BSS

Source Field

57023

Source Section

P_NBSC_SERVICE

SDCCH_RADIO_FAIL

Number of SDCCH transaction failures due to radio failure

Data Source

BSS

Source Field

1003

Source Section

P_NBSC_TRAFFIC

SDCCH_RE_EST_ASSIGN

Number of SDCCH re-establishment assignments.

Data Source

BSS

Source Field

57022

Source Section

P_NBSC_SERVICE

SDCCH_RE_EST_RELEASE

Number of SDCCH re-establishment releases.

Data Source

BSS

Source Field

57026

Source Section

P_NBSC_SERVICE

SDCCH_REQ

Number of SDCCH requests.

Data Source

BSS

Source Field

57017

Source Section

P_NBSC_SERVICE

SDCCH_RF_NEW_HO

Nof SD transaction failures due to radio failure of the new channel during an SD ho

Data Source

BSS

Source Field

1005

Source Section

P_NBSC_TRAFFIC

SDCCH_RF_OLD_HO

Nof SD transaction failures due to radio failure of the former ch during an SD-SD or SD-TCH
ho

Data Source

BSS

Source Field

1004

Source Section

P_NBSC_TRAFFIC

SDCCH_SEIZ_ATT

SDCCH seizure attempts

Data Source

BSS

Source Field

1000

Source Section

P_NBSC_TRAFFIC

SDCCH_SMS_ASSIGN

Number of SDCCH SMS assignments.

Data Source

BSS

Source Field

57025

Source Section

P_NBSC_SERVICE

SDCCH_TRAFFIC_FOR_SMS

SDC channel for SMS.

Data Source

BSS

Source Field

2086

Source Section

P_NBSC_RES_AVAIL

SDCCH_TRAFFIC_FOR_VOICE_CALL

SDC channel for voice traffic.

Data Source

BSS

Source Field

2084

Source Section

P_NBSC_RES_AVAIL

SDCCH_UNSUCC_IMM_ASSIGN_ATT

Number of unsuccessful SDCCH allocation attempts for immediate assignment.

Data Source

BSS

Source Field

1155

Source Section

P_NBSC_TRAFFIC

SDCCH_USER_ACT

Number of SDCCH transaction failures due to user actions

Data Source

BSS

Source Field

1037

Source Section

P_NBSC_TRAFFIC

SEG_SUCC_SDCCH_HO_BTW_BTS_TYPE

Nof completed and succ SD-SD hos between two different types of BTSs between two segments

Data Source

BSS

Source Field

4167

Source Section

P_NBSC_HO

SEG_SUCC_TCH_HO_BTW_BTS_TYPE

Nof completed and succ TCH-TCH hos between two different types of BTSs between two segments

Data Source

BSS

Source Field

4169

Source Section

P_NBSC_HO

SEG_SUCCESS_TCH_HO_BTW_BAND

Nof completed and succ TCH-TCH hos between two BTSs on different freq bands between two segments

Data Source

BSS

Source Field

4168

Source Section

P_NBSC_HO

SEGMENT_ID

Segment identification number

Data Source

BSS

Source Section

P_NBSC_TRAFFIC

SEIZ_AMR_FR_TO_HR

Number of successful TCH seizures in intra-BSC AMR FR to AMR HR handovers.

Data Source

BSC

Source Field

1247

Source Section

RBS_PS_TRAFFIC_EBTS_RAW

SEIZ_AMR_HR_TO_FR

Number of successful TCH seizures in intra-BSC AMR HR to AMR FR handovers.

Data Source

BSC

Source Field

1248

Source Section

RBS_PS_TRAFFIC_EBTS_RAW

SERVED_DR_REQ

Number of served DR requests.

Data Source

BSS

Source Field

57031

Source Section

P_NBSC_SERVICE

SERVED_FACCH_REQ

Number of served FACCH call requests.

Data Source

BSS

Source Field

57018

Source Section

P_NBSC_SERVICE

SERVED_SDCCH_REQ

Number of served SDCCH requests.

Data Source

BSS

Source Field

57019

Source Section

P_NBSC_SERVICE

SERVED_TCH_CALL_REQ

Number of served TCH call requests.

Data Source

BSS

Source Field

57030

Source Section

P_NBSC_SERVICE

SETUP_SUCC

A setup is successfully performed on this cell

Data Source

BSS

Source Field

57014

Source Section

P_NBSC_SERVICE

SPARE001191

Number of TCH requests rejected due to mismatch between the types of the requested channel and the A interface circuit, updated in call set-up phase only

Data Source

BSS

Source Field

1191

Source Section

P_NBSC_TRAFFIC

SPARE001194

Spare counter

Data Source

BSS

Source Field

1194

Source Section

P_NBSC_TRAFFIC

SPARE001219

Spare.

Data Source

BSS

Source Field

1219

Source Section

P_NBSC_TRAFFIC

SPARE001220

Spare.

Data Source

BSS

Source Field

1220

Source Section

P_NBSC_TRAFFIC

SPARE001221

Spare.

Data Source

BSS

Source Field

1221

Source Section

P_NBSC_TRAFFIC

SPARE001222

Spare.

Data Source

BSS

Source Field

1222

Source Section

P_NBSC_TRAFFIC

SPARE001223

Spare.

Data Source

BSS

Source Field

1223

Source Section

P_NBSC_TRAFFIC

SPARE001224

Spare

Data Source

BSS

Source Field

1224

Source Section

P_NBSC_TRAFFIC

SPARE001225

Spare

Data Source

BSS

Source Field

1225

Source Section

P_NBSC_TRAFFIC

SPARE001226

Spare

Data Source

BSS

Source Field

1226

Source Section

P_NBSC_TRAFFIC

SPARE001227

Spare

Data Source

BSS

Source Field

1227

Source Section

P_NBSC_TRAFFIC

SPARE001228

Spare

Data Source

BSS

Source Field

1228

Source Section

P_NBSC_TRAFFIC

SPARE001229

Spare

Data Source

BSS

Source Field

1229

Source Section

P_NBSC_TRAFFIC

SPARE001230

Spare

Data Source

BSS

Source Field

1230

Source Section

P_NBSC_TRAFFIC

SPARE002088

Spare counter.

Data Source

BSS

Source Field

2088

Source Section

P_NBSC_RES_AVAIL

SPARE002089

Spare counter.

Data Source

BSS

Source Field

2089

Source Section

P_NBSC_RES_AVAIL

SPARE004171

Spare counter

Data Source

BSS

Source Field

4171

Source Section

P_NBSC_HO

SPARE004172

Spare counter

Data Source

BSS

Source Field

4172

Source Section

P_NBSC_HO

SPARE004173

Spare counter

Data Source

BSS

Source Field

4173

Source Section

P_NBSC_HO

SPARE004188

Spare counter.

Data Source

BSS

Source Field

4188

Source Section

P_NBSC_HO

SPARE004189

Spare counter.

Data Source

BSS

Source Field

4189

Source Section

P_NBSC_HO

SPARE057053

Spare

Data Source

BSS

Source Field

57053

Source Section

P_NBSC_SERVICE

SPARE057054

Spare

Data Source

BSS

Source Field

57054

Source Section

P_NBSC_SERVICE

SPARE057055

Spare

Data Source

BSS

Source Field

57055

Source Section

P_NBSC_SERVICE

SPARE057056

Spare

Data Source

BSS

Source Field

57056

Source Section

P_NBSC_SERVICE

SPARE057057

Spare

Data Source

BSS

Source Field

57057

Source Section

P_NBSC_SERVICE

SPARE057058

Spare

Data Source

BSS

Source Field

57058

Source Section

P_NBSC_SERVICE

SPARE057059

Spare

Data Source

BSS

Source Field

57059

Source Section

P_NBSC_SERVICE

SPARE057060

Spare

Data Source

BSS

Source Field

57060

Source Section

P_NBSC_SERVICE

SPARE057061

Spare

Data Source

BSS

Source Field

57061

Source Section

P_NBSC_SERVICE

SPARE057062

Spare

Data Source

BSS

Source Field

57062

Source Section

P_NBSC_SERVICE

SPARE072107

Number of retransmitted RLC data blocks using coding scheme 1 in the ACK mode.

Data Source

BSS

Source Field

72107

Source Section

P_NBSC_PACKET_CONTROL_UNIT

SPARE072108

Number of retransmitted RLC data blocks using coding scheme 2 in the ACK mode.

Data Source

BSS

Source Field

72108

Source Section

P_NBSC_PACKET_CONTROL_UNIT

SPARE072193

Spare

Data Source

BSS

Source Field

72193

Source Section

P_NBSC_PACKET_CONTROL_UNIT

SPARE072194

Spare

Data Source

BSS

Source Field

72194

Source Section

P_NBSC_PACKET_CONTROL_UNIT

SPARE072195

Spare

Data Source

BSS

Source Field

72195

Source Section

P_NBSC_PACKET_CONTROL_UNIT

SPARE072196

Spare

Data Source

BSS

Source Field

72196

Source Section

P_NBSC_PACKET_CONTROL_UNIT

SPARE072197

Spare

Data Source

BSS

Source Field

72197

Source Section

P_NBSC_PACKET_CONTROL_UNIT

SPARE072198

Spare

Data Source

BSS

Source Field

72198

Source Section

P_NBSC_PACKET_CONTROL_UNIT

SPARE072199

Spare

Data Source

BSS

Source Field

72199

Source Section

P_NBSC_PACKET_CONTROL_UNIT

SPARE072200

Spare

Data Source

BSS

Source Field

72200

Source Section

P_NBSC_PACKET_CONTROL_UNIT

SPARE072217

Spare counter

Data Source

BSS

Source Field

72217

Source Section

P_NBSC_PACKET_CONTROL_UNIT

SPARE072236

Spare Counter 72236

Data Source

BSS

Source Section

RBS_PS_PCU_BTS_RAW

SPARE072237

Spare Counter 72237

Data Source

BSS

Source Section

RBS_PS_PCU_BTS_RAW

SPARE072238

Spare Counter 72238

Data Source

BSS

Source Section

RBS_PS_PCU_BTS_RAW

SPARE072239

Spare Counter 72239

Data Source

BSS

Source Section

RBS_PS_PCU_BTS_RAW

SPARE072240

Spare Counter 72240

Data Source

BSS

Source Section

RBS_PS_PCU_BTS_RAW

SPARE072241

Spare Counter 72241

Data Source

BSS

Source Section

RBS_PS_PCU_BTS_RAW

SPARE072242

Spare Counter 72242

Data Source

BSS

Source Section

RBS_PS_PCU_BTS_RAW

SPARE072243

Spare Counter 72243

Data Source

BSS

Source Section

RBS_PS_PCU_BTS_RAW

SPARE072244

Spare Counter 72244

Data Source

BSS

Source Section

RBS_PS_PCU_BTS_RAW

SPARE072245

Spare Counter 72245

Data Source

BSS

Source Section

RBS_PS_PCU_BTS_RAW

SPARE072246

Spare Counter 72246

Data Source

BSS

Source Section

RBS_PS_PCU_BTS_RAW

SPARE072247

Spare Counter 72247

Data Source

BSS

Source Section

RBS_PS_PCU_BTS_RAW

SPARE072248

Spare Counter 72248

Data Source

BSS

Source Section

RBS_PS_PCU_BTS_RAW

SPARE072249

Spare Counter 72249

Data Source

BSS

Source Section

RBS_PS_PCU_BTS_RAW

SUCC_AMR_CODEC_SET_DOWNGR

Nof succ AMR codec set downgrades during internal HOs for the source side AMR codec set

Data Source

BSS

Source Field

1185

Source Section

P_NBSC_TRAFFIC

SUCC_AMR_CODEC_SET_UPGR

Nof succ AMR codec set upgrades after internal HOs for the target side AMR codec set

Data Source

BSS

Source Field

1187

Source Section

P_NBSC_TRAFFIC

SUCC_CHANGE_AMR_TO_AMR_WB

CODEC TYPE CHANGE FROM AMR TO WB-AMR SUCCESSFUL

Data Source

BSS

Source Field

1255

Source Section

P_NBSC_TRAFFIC

SUCC_CHANGE_AMR_WB_TO_AMR

CODEC TYPE CHANGE FROM WB-AMR TO AMR SUCCESSFUL

Data Source

BSS

Source Field

1256

Source Section

P_NBSC_TRAFFIC

SUCC_HO_FROM_LRTCH_TO_EXT

Number of successful intra-cell handovers from the long reach TCH to an extended area.

Data Source

BSC

Source Field

4218

Source Section

RBS_PS_HO_EBTS_RAW

SUCC_HO_FROM_LRTCH_TO_NORM

Number of successful intra-cell handovers from the long reach TCH to a normal area.

Data Source

BSC

Source Field

4216

Source Section

RBS_PS_HO_EBTS_RAW

SUCC_HO_INTER_BAND_DUE_LEVEL

Nof succ att to perform a TCH-TCH ho from non-BCCH layer between BTSs on different freq bands of a segment

Data Source

BSS

Source Field

4165

Source Section

P_NBSC_HO

SUCC_LRTCH_SEIZ

Number of succesful Long Reach TCH seizures.

Data Source

BSC

Source Field

1250

Source Section

RBS_PS_TRAFFIC_EBTS_RAW

SUCC_MOC_TEST_CALL

Number of successful moc test calls during the scheduled test

Data Source

BSS

Source Field

1093

Source Section

P_NBSC_TRAFFIC

SUCC_TCH_SEIZ_CALL_ATT_CL_1

Number of successful TCH channel seizures for a call from class 1 subscribers.

Data Source

BSC

Source Field

1238

Source Section

RBS_PS_TRAFFIC_EBTS_RAW

SUCC_TCH_SEIZ_CALL_ATT_CL_2

Number of successful TCH channel seizures for a call from class 2 subscribers. Draft

Data Source

BSC

Source Field

1240

Source Section

RBS_PS_TRAFFIC_EBTS_RAW

SUCC_TCH_SEIZ_CALL_ATT_CL_3

Number of successful TCH channel seizures for a call from class 3 subscribers.

Data Source

BSC

Source Field

1242

Source Section

RBS_PS_TRAFFIC_EBTS_RAW

SUCC_TCH_SEIZ_FOR_96_DAT_CALL

Number of successful TCH seizures for 9.6 kbit/s data call.

Data Source

BSS

Source Field

1190

Source Section

P_NBSC_TRAFFIC

SUCCESSFUL_HO_INTER_BTSTYPE_TCH

Nof succ and completed TCH-TCH hos between different BTS types of a segment due to load

Data Source

BSS

Source Field

4160

Source Section

P_NBSC_HO

SUCCESSFUL_HO_INTER_BAND_TCH

Nof succ and completed TCH-TCH hos between BTSs of different freq bands of a segment due to load

Data Source

BSS

Source Field

4159

Source Section

P_NBSC_HO

T3101_EXPIRED

Number of times when the GSM timer T3101 expires

Data Source

BSS

Source Field

57020

Source Section

P_NBSC_SERVICE

TBF_SERVICE_AREA_REALLOC

The number of TBF reallocations from one extended cell service area to another.

Data Source

BSC

Source Field

72231

Source Section

RBS_PS_PCU_BTS_RAW

TBF_SERVICE_AREA_REALLOC_FAIL

The number of failed TBF reallocations from one extended cell service area to another.

Data Source

BSC

Source Field

72232

Source Section

RBS_PS_PCU_BTS_RAW

TCH_A_IF_FAIL

The number of TCH transaction failures due to an A-interface failure

Data Source

BSS

Source Field

1051

Source Section

P_NBSC_TRAFFIC

TCH_A_IF_FAIL_CALL

Number of TCH transaction failures due to A-interface failure during a call

Data Source

BSS

Source Field

1087

Source Section

P_NBSC_TRAFFIC

TCH_A_IF_FAIL_NEW

Number of TCH transactions ended because of a failure in the A interface on the new channel during a handover attempt.

Data Source

BSS

Source Field

1089

Source Section

P_NBSC_TRAFFIC

TCH_A_IF_FAIL_OLD

Number of TCH transaction failures due to A-interface failure on the old channel during a handover attempt.

Data Source

BSS

Source Field

1088

Source Section

P_NBSC_TRAFFIC

TCH_ABIS_FAIL

Number of TCH transaction failures due to Abis interface failure

Data Source

BSS

Source Field

1045

Source Section

P_NBSC_TRAFFIC

TCH_ABIS_FAIL_CALL

Number of TCH transaction failures due to Abis interface failure during a call

Data Source

BSS

Source Field

1084

Source Section

P_NBSC_TRAFFIC

TCH_ABIS_FAIL_NEW

Number of TCH transactions ended because of a failure in the Abis interface on the new channel during a TCH handover.

Data Source

BSS

Source Field

1086

Source Section

P_NBSC_TRAFFIC

TCH_ABIS_FAIL_OLD

Nof TCH transaction failures due to Abis interface fail on old ch during a TCH ho

Data Source

BSS

Source Field

1085

Source Section

P_NBSC_TRAFFIC

TCH_ACT_FAIL

The number of TCH transaction failures due to activation failure

Data Source

BSS

Source Field

1028

Source Section

P_NBSC_TRAFFIC

TCH_ACT_FAIL_CALL

Nof TCH transaction failures due to activation failure during a call attempt

Data Source

BSS

Source Field

1082

Source Section

P_NBSC_TRAFFIC

TCH_ACT_FAIL_NEW

Nof TCH transaction failures due to activation fail on new ch during an SD-TCH or TCH-TCH
ho

Data Source

BSS

Source Field

1083

Source Section

P_NBSC_TRAFFIC

TCH_BCSU_RESET

Number of TCH transaction failures due to BCSU reset

Data Source

BSS

Source Field

1049

Source Section

P_NBSC_TRAFFIC

TCH_BSS_FAIL

Number of TCH transactions ended due to BSS problems

Data Source

BSS

Source Field

1012

Source Section

P_NBSC_TRAFFIC

TCH_BTS_FAIL

Number of TCH transaction failures due to BTS failure

Data Source

BSS

Source Field

1047

Source Section

P_NBSC_TRAFFIC

TCH_CALL_REQ

Number of TCH requests for normal assignment (successful + unsuccessful)

Data Source

BSS

Source Field

1026

Source Section

P_NBSC_TRAFFIC

TCH_CALL_REQ_FOR_AMR

Number of the TCH requests for an AMR call.

Data Source

BSS

Source Field

1184

Source Section

P_NBSC_TRAFFIC

TCH_CALL_REQ_SERVICE

Number of TCH call requests.

Data Source

BSS

Source Field

57028

Source Section

P_NBSC_SERVICE

TCH_CONG_TIME

Total TCH ch busy time

Data Source

BSS

Source Field

2026

Source Section

P_NBSC_RES_AVAIL

TCH_DR_REQ

Number of TCH DR requests.

Data Source

BSS

Source Field

57029

Source Section

P_NBSC_SERVICE

TCH_ENDED_DUE_TRANSC_FR_RATE1

Nof radio TCH transactions ended due to a transcoder fail when speech fr version 1

Data Source

BSS

Source Field

1127

Source Section

P_NBSC_TRAFFIC

TCH_ENDED_DUE_TRANSC_FR_RATE2

Nof radio TCH transactions ended due to a transcoder fail when speech fr version 2

Data Source

BSS

Source Field

1128

Source Section

P_NBSC_TRAFFIC

TCH_ENDED_DUE_TRANSC_FR_RATE3

Nof radio TCH transactions ended due to a transcoder fail when speech fr version 3

Data Source

BSS

Source Field

1129

Source Section

P_NBSC_TRAFFIC

TCH_ENDED_DUE_TRANSC_HR_RATE1

Nof radio TCH transactions ended due to a transcoder fail when speech hr version 1

Data Source

BSS

Source Field

1130

Source Section

P_NBSC_TRAFFIC

TCH_ENDED_DUE_TRANSC_HR_RATE2

Nof radio TCH transactions ended due to a transcoder fail when speech hr version 2

Data Source

BSS

Source Field

1131

Source Section

P_NBSC_TRAFFIC

TCH_ENDED_DUE_TRANSC_HR_RATE3

Nof radio TCH transactions ended due to a transcoder fail when speech hr version 3

Data Source

BSS

Source Field

1132

Source Section

P_NBSC_TRAFFIC

TCH_ENDED_TRANSC_FAIL_CODEC_5

TCH ENDED DUE TRANSCODER FAILURE CODEC 5

Data Source

BSS

Source Field

1254

Source Section

P_NBSC_TRAFFIC

TCH_FAILS

A failure during TCH signalling. IMPACT Call clear

Data Source

BSS

Source Field

57008

Source Section

P_NBSC_SERVICE

TCH_FAST_CALL_CH_RATE_NOT_DET

T_DET Nof TCH req for a fast call where the ch rate is not determined (successful + unsuccessful)

Data Source

BSS

Source Field

1124

Source Section

P_NBSC_TRAFFIC

TCH_FAST_REQ

Number of TCH requests for a fast call set-up (successful + unsuccessful)

Data Source

BSS

Source Field

1043

Source Section

P_NBSC_TRAFFIC

TCH_FAST_SEIZ

Number of successful TCH seizures for a fast call set-up

Data Source

BSS

Source Field

1044

Source Section

P_NBSC_TRAFFIC

TCH_FR_RADIO_CONGESTION_TIME

Full rate radio TCH congestion time

Data Source

BSS

Source Field

2044

Source Section

P_NBSC_RES_AVAIL

TCH_FULL_REJ_DUE_HR_TRAF

Nof rejected full rate TCH resource req due to hr traffic whether queuing occurred or not

Data Source

BSS

Source Field

1120

Source Section

P_NBSC_TRAFFIC

TCH_FULL_REQ_FAST_CALL

Nof full rate TCH requests for a fast call setup (successful + unsuccessful)

Data Source

BSS

Source Field

1123

Source Section

P_NBSC_TRAFFIC

TCH_FULL_REQ_PREFERRED

Number of TCH requests full rate preferred (successful + unsuccessful)

Data Source

BSS

Source Field

1104

Source Section

P_NBSC_TRAFFIC

TCH_FULL_REQ_SUCC_UNSUCC

Number of full rate TCH requests (successful + unsuccessful)

Data Source

BSS

Source Field

1102

Source Section

P_NBSC_TRAFFIC

TCH_FULL_SEIZ_INT_HO_CH_RATE

Nof successful full rate TCH seizures for internal ho when ch rate changes

Data Source

BSS

Source Field

1116

Source Section

P_NBSC_TRAFFIC

TCH_FULL_SEIZ_NORM_ASS

Number of successful full rate TCH seizures for a normal assignment.

Data Source

BSS

Source Field

1114

Source Section

P_NBSC_TRAFFIC

TCH_FULL_SEIZ_SPEECH_VER1

Nof successful full rate TCH seizures when speech full rate version 1 is used

Data Source

BSS

Source Field

1108

Source Section

P_NBSC_TRAFFIC

TCH_FULL_SEIZ_SPEECH_VER2

Nof successful full rate TCH seizures when speech full rate version 2 is used

Data Source

BSS

Source Field

1109

Source Section

P_NBSC_TRAFFIC

TCH_FULL_SEIZ_SPEECH_VER3

Nof successful full rate TCH seizures when speech full rate version 3 is used

Data Source

BSS

Source Field

1110

Source Section

P_NBSC_TRAFFIC

TCH_FULL_SUCC_SEIZ

Number of successful full rate TCH seizures

Data Source

BSS

Source Field

1106

Source Section

P_NBSC_TRAFFIC

TCH_FULL_TR_FAIL

Total number of full rate TCH transaction failures

Data Source

BSS

Source Field

1133

Source Section

P_NBSC_TRAFFIC

TCH_HALF_REJ_DUE_FR_TRAF

Nof rejected half rate TCH resource req due to fr traffic whether queuing occurred or not

Data Source

BSS

Source Field

1121

Source Section

P_NBSC_TRAFFIC

TCH_HALF_REQ_PREFERRED

Number of TCH requests half rate preferred (successful + unsuccessful)

Data Source

BSS

Source Field

1105

Source Section

P_NBSC_TRAFFIC

TCH_HALF_REQ_SUCC_UNSUCC

Number of half rate TCH requests (successful + unsuccessful)

Data Source

BSS

Source Field

1103

Source Section

P_NBSC_TRAFFIC

TCH_HALF_SEIZ_INT_HO_CH_RATE

Nof successful half rate TCH seizures for internal ho when ch rate changed

Data Source

BSS

Source Field

1117

Source Section

P_NBSC_TRAFFIC

TCH_HALF_SEIZ_NORM_ASS

Number of successful half rate TCH seizures for a normal assignment.

Data Source

BSS

Source Field

1115

Source Section

P_NBSC_TRAFFIC

TCH_HALF_SEIZ_SPEECH_VER1

Nof successful half rate TCH seizures when speech half rate version 1 used

Data Source

BSS

Source Field

1111

Source Section

P_NBSC_TRAFFIC

TCH_HALF_SEIZ_SPEECH_VER2

Nof successful half rate TCH seizures when speech half rate version 2 used

Data Source

BSS

Source Field

1112

Source Section

P_NBSC_TRAFFIC

TCH_HALF_SEIZ_SPEECH_VER3

Nof successful half rate TCH seizures when speech half rate version 3 is used

Data Source

BSS

Source Field

1113

Source Section

P_NBSC_TRAFFIC

TCH_HALF_SUCC_SEIZ

Number of successful half rate TCH seizures

Data Source

BSS

Source Field

1107

Source Section

P_NBSC_TRAFFIC

TCH_HALF_TR_FAIL

Total number of half rate TCH transaction failures

Data Source

BSS

Source Field

1134

Source Section

P_NBSC_TRAFFIC

TCH_HO_ASSIGN

Number of TCH handover assignments.

Data Source

BSS

Source Field

57034

Source Section

P_NBSC_SERVICE

TCH_HO_RELEASE

Number of TCH handover releases.

Data Source

BSS

Source Field

57036

Source Section

P_NBSC_SERVICE

TCH_HO_SEIZ

Number of successful TCH requests for handover purposes

Data Source

BSS

Source Field

1008

Source Section

P_NBSC_TRAFFIC

TCH_HR_RADIO_CONGESTION_TIME

Half rate radio resources TCH congestion time.

Data Source

BSS

Source Field

2045

Source Section

P_NBSC_RES_AVAIL

TCH_LAPD_FAIL

Number of TCH transaction failures due to LAPD failure

Data Source

BSS

Source Field

1046

Source Section

P_NBSC_TRAFFIC

TCH_MOC_SEIZ_ATT

Number of TCH seizure attempts for a MOC.

Data Source

BSS

Source Field

1137

Source Section

P_NBSC_TRAFFIC

TCH_MTC_SEIZ_ATT

Number of TCH seizure attempts for a MTC.

Data Source

BSS

Source Field

1138

Source Section

P_NBSC_TRAFFIC

TCH_NETW_ACT

The nof TCH transaction failures due to radio network reconfiguration actions

Data Source

BSS

Source Field

1050

Source Section

P_NBSC_TRAFFIC

TCH_NEW_CALL_ASSIGN

Number of TCH new call assignments.

Data Source

BSS

Source Field

57033

Source Section

P_NBSC_SERVICE

TCH_NO_PRI_SUBSCR_REFUSED_REQ

Nof refused other than priority subs type TCH req due to no resources available to others than priority subs

Data Source

BSS

Source Field

1097

Source Section

P_NBSC_TRAFFIC

TCH_NORM_RELEASE

Number of TCH normal releases.

Data Source

BSS

Source Field

57035

Source Section

P_NBSC_SERVICE

TCH_NORM_SEIZ

Number of successful TCH requests for a normal assignment

Data Source

BSS

Source Field

1009

Source Section

P_NBSC_TRAFFIC

TCH_PEAK_BUSY_FULL

Peak number of busy full rate TCHs

Data Source

BSS

Source Field

2050

Source Section

P_NBSC_RES_AVAIL

TCH_PEAK_BUSY_HALF

Peak number of busy half rate TCHs

Data Source

BSS

Source Field

2051

Source Section

P_NBSC_RES_AVAIL

TCH_PRI_SUBSCR_REQ

Number of priority subscriber type TCH requests

Data Source

BSS

Source Field

1095

Source Section

P_NBSC_TRAFFIC

TCH_PRI_SUBSCR_SUCC_SEIZ

Number of successful priority subscriber type TCH seizures

Data Source

BSS

Source Field

1096

Source Section

P_NBSC_TRAFFIC

TCH_QD_CALL_ATT

Number of queued call attempts

Data Source

BSS

Source Field

1016

Source Section

P_NBSC_TRAFFIC

TCH_QD_HO_ATT

Number of queued handover attempts

Data Source

BSS

Source Field

1017

Source Section

P_NBSC_TRAFFIC

TCH_RADIO_FAIL_CELL

Number of TCH transaction failures due to radio failure

Data Source

BSS

Source Field

1013

Source Section

P_NBSC_TRAFFIC

TCH_RE_EST_ASSIGN

Number of TCH re-establishment assignments.

Data Source

BSS

Source Field

57032

Source Section

P_NBSC_SERVICE

TCH_RE_EST_RELEASE

Number of TCH re-establishment releases.

Data Source

BSS

Source Field

57037

Source Section

P_NBSC_SERVICE

TCH_REJ_DUE_REQ_CH_A_IF_CRC

Nof rejected TCH req due to mismatch between req ch type and the A-interface circuit type

Data Source

BSS

Source Field

1122

Source Section

P_NBSC_TRAFFIC

TCH_REJ_REQ_DUE_LACK_FR

Nof rejected TCH req due to lack of radio resources FR or preferred FR TCH req

Data Source

BSS

Source Field

1118

Source Section

P_NBSC_TRAFFIC

TCH_REJ_REQ_DUE_LACK_HR

Nof rejected TCH req due to lack of radio resources HR or preferred HR TCH req

Data Source

BSS

Source Field

1119

Source Section

P_NBSC_TRAFFIC

TCH_REJ_UND_OVER

Nof rejected TCH req for an underlay-overlay HO procedure due to lack of resources

Data Source

BSS

Source Field

1092

Source Section

P_NBSC_TRAFFIC

TCH_REL_BSC_BSC_CONFLICT_CALL

Number of TCH releases because of a BSC-BSC conflict. UPDATED: When a TCH is released (with cause bc_t_bsc_bsc_conflict_c in phases 1-8 or 15). RELATED TO FEATURE: BSS11052 Dynamic Frequency and Channel Allocation.

Data Source

BSS

Source Field

1211

Source Section

P_NBSC_TRAFFIC

TCH_REL_BSC_BSC_CONFLICT_TARG

Number of TCH releases because of a BSC-BSC conflict. UPDATED: When a TCH is released (with cause bc_t_bsc_bsc_conflict_c in phases 1-8 or 15). RELATED TO FEATURE: BSS11052 Dynamic Frequency and Channel Allocation.

Data Source

BSS

Source Field

1212

Source Section

P_NBSC_TRAFFIC

TCH_REL_DUE_BSS_FAIL

Number of TCH releases due to BSS failures.

Data Source

BSS

Source Field

1140

Source Section

P_NBSC_TRAFFIC

TCH_REL_DUE_BSS_FAIL_PH_12_14

Number of the TCH releases because of the BSS failures. Counter 001140 is updated together with this counter.

Data Source

BSS

Source Field

1207

Source Section

P_NBSC_TRAFFIC

TCH_REL_DUE_BSS_FAIL_PH_2_3

Number of TCH releases due to BSS failures, updated in phases 2-3 only.

Data Source

BSS

Source Field

1199

Source Section

P_NBSC_TRAFFIC

TCH_REL_DUE_BSS_FAIL_PH_9_11

Number of TCH releases due to BSS failures, updated in phases 9-11 only

Data Source

BSS

Source Field

1200

Source Section

P_NBSC_TRAFFIC

TCH_REL_DUE_RAD_FAIL_PH_12_14

Number of the TCH releases because of the radio failures, Counter 001139 is updated together with this counter.

Data Source

BSS

Source Field

1206

Source Section

P_NBSC_TRAFFIC

TCH_REL_DUE_RAD_FAIL_PH_2_3

Number of the TCH releases because of the radio failures, updated in phases 2-3 only. Same DX causes as in the counter 001139. When the TCH is released in call phase 2 (MM signalling) or 3 (Basic assignment) because of radio failure. DEPENDENCIES WITH OTHER COUNTERS: Counter 001139 is updated together with this counter. RELATED TO FEATURE: BSS115168 CS Measurement Improvements.

Data Source

BSS

Source Field

1205

Source Section

P_NBSC_TRAFFIC

TCH_REL_DUE_RADIO_FAIL

Number of TCH releases due to radio failures.

Data Source

BSS

Source Field

1139

Source Section

P_NBSC_TRAFFIC

TCH_REL_DUE_RADIO_FAIL_PH_9_11

Number of TCH releases due to the radio failures, updated in phases 9-11 only

Data Source

BSS

Source Field

1198

Source Section

P_NBSC_TRAFFIC

TCH_REQ_BSC_TRHO

Number of TCH requests for a BSC controlled TRHO procedure.

Data Source

BSS

Source Field

1167

Source Section

P_NBSC_TRAFFIC

TCH_REQ_DIR_ACC_REJ_DUE_LACK

Nof req for a direct access to a super-reuse TRX rejected due to lack of resources during the call setup

Data Source

BSS

Source Field

1166

Source Section

P_NBSC_TRAFFIC

TCH_REQ_FOR_96_DAT_CALL

Number of TCH requests for 9.6 kbit/s data call.

Data Source

BSS

Source Field

1189

Source Section

P_NBSC_TRAFFIC

TCH_REQ_REJ_BAD_QUAL_ADJ

This counter is not in use.

Data Source

BSS

Source Field

1151

Source Section

P_NBSC_TRAFFIC

TCH_REQ_REJ_BETW_QUAL_ADJ

This counter is not in use.

Data Source

BSS

Source Field

1153

Source Section

P_NBSC_TRAFFIC

TCH_REQ_REJ_BSC_TRHO_DUE_LACK

Nof rejected TCH req for a BSC contr TRHO procedure due to exceeded load in the target cell

Data Source

BSS

Source Field

1169

Source Section

P_NBSC_TRAFFIC

TCH_REQ_REJ_DADLB_HO

Number of TCH requests in DADL/B handover rejected due to lack of TCH.

Data Source

BSS

Source Field

1171

Source Section

P_NBSC_TRAFFIC

TCH_REQ_REJ_LACK

Nof rejected TCH req due to lack of radio resources whether or not queuing has occurred

Data Source

BSS

Source Field

1011

Source Section

P_NBSC_TRAFFIC

TCH_REQUEST

Number of TCH requests (successful + unsuccessful)

Data Source

BSS

Source Field

1010

Source Section

P_NBSC_TRAFFIC

TCH_REQUEST_UND_OVER

Number of TCH requests for an underlay-overlay HO procedure

Data Source

BSS

Source Field

1090

Source Section

P_NBSC_TRAFFIC

TCH_REQUESTS_CALL_ATT_CL_1

Number of TCH channel requests for a call from class 1 subscribers.

Data Source

BSC

Source Field

1237

Source Section

RBS_PS_TRAFFIC_EBTS_RAW

TCH_REQUESTS_CALL_ATT_CL_2

Number of TCH channel requests for a call from class 2 subscribers.

Data Source

BSC

Source Field

1239

Source Section

RBS_PS_TRAFFIC_EBTS_RAW

TCH_REQUESTS_CALL_ATT_CL_3

Number of TCH channel requests for a call from class 3 subscribers.

Data Source

BSC

Source Field

1241

Source Section

RBS_PS_TRAFFIC_EBTS_RAW

TCH_REQUESTS_FOR_AMR_WB

TCH REQUESTS FOR WB-AMR

Data Source

BSS

Source Field

1252

Source Section

P_NBSC_TRAFFIC

TCH_RF_NEW_HO

Nof TCH transaction failures due to radio failure of the new ch during a TCH ho

Data Source

BSS

Source Field

1015

Source Section

P_NBSC_TRAFFIC

TCH_RF_OLD_HO

Nof TCH transaction failures due to a radio failure of the old ch during a TCH ho

Data Source

BSS

Source Field

1014

Source Section

P_NBSC_TRAFFIC

TCH_SEIZ_ATT_DUE_SDCCH_CON

Seizure attempts of TCH due to SDCCH congestion

Data Source

BSS

Source Field

1098

Source Section

P_NBSC_TRAFFIC

TCH_SEIZ_DUE_SDCCH_CON

Successful seizures of TCH due to SDCCH congestion

Data Source

BSS

Source Field

1099

Source Section

P_NBSC_TRAFFIC

TCH_SEIZ_FAILS_DUE_CONG

TCH seizure failures due to congestion during call set-up

Data Source

BSS

Source Field

1141

Source Section

P_NBSC_TRAFFIC

TCH_SEIZ_UND_OVER

Number of TCH seizures for an underlay-overlay procedure

Data Source

BSS

Source Field

1091

Source Section

P_NBSC_TRAFFIC

TCH_SEIZURES

A TCH channel is allocated for HO- or normal signalling (or speech).

Data Source

BSS

Source Field

57016

Source Section

P_NBSC_SERVICE

TCH_SEIZURES_FOR_AMR_WB

TCH SEIZURES FOR WB-AMR

Data Source

BSS

Source Field

1253

Source Section

P_NBSC_TRAFFIC

TCH_SUCC_FULL_SEIZ_FAST_CALL

Number of successful full rate TCH seizures for a fast call setup

Data Source

BSS

Source Field

1125

Source Section

P_NBSC_TRAFFIC

TCH_SUCC_HALF_SEIZ_FAST_CALL

Number of successful half rate TCH seizures for a fast call setup

Data Source

BSS

Source Field

1126

Source Section

P_NBSC_TRAFFIC

TCH_SUCC_SEIZ_BETW_QUAL_ADJ

This counter is not in use.

Data Source

BSS

Source Field

1152

Source Section

P_NBSC_TRAFFIC

TCH_SUCC_SEIZ_BSC_TRHO

Number of successful TCH seizures for a BSC controlled TRHO.

Data Source

BSS

Source Field

1168

Source Section

P_NBSC_TRAFFIC

TCH_SUCC_SEIZ_DADLB_HO

Number of successful TCH seizures due to DADL/B handover.

Data Source

BSS

Source Field

1170

Source Section

P_NBSC_TRAFFIC

TCH_SUCC_SEIZ_FOR_DIR_ACC

Nof succ TCH seizures in direct accesses to a super-reuse TRX during the call setup Phase

Data Source

BSS

Source Field

1165

Source Section

P_NBSC_TRAFFIC

TCH_SUCC_SEIZ_GOOD_QUAL_ADJ

This counter is not in use.

Data Source

BSS

Source Field

1150

Source Section

P_NBSC_TRAFFIC

TCH_T3101_EXPIRED

Number of times the TCH timer T3101 is expired.

Data Source

BSS

Source Field

57038

Source Section

P_NBSC_SERVICE

TCH_TR_FAIL

Number of TCH transaction failures due to transcoder failure

Data Source

BSS

Source Field

1029

Source Section

P_NBSC_TRAFFIC

TCH_TR_FAIL_NEW

Nof TCH transactions ended due to transcoder failure on a new ch during a ho on a TCH

Data Source

BSS

Source Field

1031

Source Section

P_NBSC_TRAFFIC

TCH_TR_FAIL_OLD

Nof TCH transactions ended due to transcoder failure of an old ch during a ho on a TCH

Data Source

BSS

Source Field

1030

Source Section

P_NBSC_TRAFFIC

TCH_TRUNK_REFUSED_FR_REQ

Nof trunk reservation function invocations that result in TCH allocation being refused FR

Data Source

BSS

Source Field

1100

Source Section

P_NBSC_TRAFFIC

TCH_TRUNK_REFUSED_HR_REQ

Nof trunk reservation function invocations that result in a TCH allocation being refused HR

Data Source

BSS

Source Field

1101

Source Section

P_NBSC_TRAFFIC

TCH_USER_ACT

Number of TCH transaction failures due to user actions

Data Source

BSS

Source Field

1048

Source Section

P_NBSC_TRAFFIC

TIME_IN_FORCED_AMR_HR_MODE

The counter counts the time the BTS has been in the forced AMR HR mode. UNIT: 10 ms
RELATED TO FEATURE: BSS11052 DFCA

Data Source

BSS

Source Field

2082

Source Section

P_NBSC_RES_AVAIL

TIME_IN_FORCED_HR_AMR_HR_MODE

The counter counts the time the BTS has been simultaneously in HR forced mode and in AMR HR forced mode. UNIT: 10 ms RELATED TO FEATURE: BSS11052 DFCA

Data Source

BSS

Source Field

2083

Source Section

P_NBSC_RES_AVAIL

TIME_IN_FORCED_HR_MODE

The counter counts the time the BTS has been in the forced HR mode. UNIT: 10 ms RELATED TO FEATURE: BSS11052 DFCA

Data Source

BSS

Source Field

2081

Source Section

P_NBSC_RES_AVAIL

TIME_OF_AMR_WB_CALLS

TIME OF WB-AMR CALLS

Data Source

BSS

Source Field

1251

Source Section

P_NBSC_TRAFFIC

TRHO_ENQ

Number of traffic reason handover enquiries

Data Source

BSS

Source Field

1053

Source Section

P_NBSC_TRAFFIC

TRHO_REQ

Number of traffic reason handover requests

Data Source

BSS

Source Field

1052

Source Section

P_NBSC_TRAFFIC

TRUNK_RES_INVOC

Total number of Trunk Reservation function invocations

Data Source

BSS

Source Field

1040

Source Section

P_NBSC_TRAFFIC

TRUNK_RES_INVOC_REFUSED

Nof Trunk Reservation function invocations that result in resource allocation being refused.

Data Source

BSS

Source Field

1042

Source Section

P_NBSC_TRAFFIC

TRUNK_RES_INVOC_SUCC

Number of successful Trunk Reservation function invocations

Data Source

BSS

Source Field

1041

Source Section

P_NBSC_TRAFFIC

TRX_TYPE_PBCCH_AVAIL

Type of TRX normal TRX = 0 extended TRX = 1

Data Source

BSS

Source Section

P_NBSC_PBCCH_AVAIL

TWO_DTMS_PACKED

Number of events where the CS part of a DTM allocation is packed on the same timeslot with some other DTM-CS connection. In this case both CS connections use HR speech codec mode. Note that by dividing the TWO DTMS PACKED counter by the sum (DTM ALLOCATIONS INITIAL + DTM REALLOCATIONS) it is possible to estimate the probability with which a DTM-CS connection is packed on the same timeslot with some other DTM-CS connection. The PCU increments this counter whenever a DTM allocation or DTM-CS reallocation procedure is successfully made to/within the PS territory so that the DTM-CS connection is packed on the same timeslot with some other DTM-CS connection. FEATURE: BSS20088: Dual Transfer Mode

Data Source

BSS

Source Field

105014

Source Section

P_NBSC_PS_DTM

UL_DATA_CONT_AFTER_COUNTDOWN

Shows how many times mobile stations use the Extended uplink TBF mode to send new data on the same TBF.

Data Source

BSS

Source Field

72115

Source Section

P_NBSC_PACKET_CONTROL_UNIT

UL_EGPRS_TBF_REL_DUE_NO_RESP

Number of failed uplink EGPRS TBF establishments due to no response from MS.

Data Source

BSS

Source Field

72094

Source Section

P_NBSC_PACKET_CONTROL_UNIT

UL_GPRS_TBF_FOR_EGPRS_REQ

Number of GPRS TBF allocations done for EGPRS request in GPRS territory because of congestion in EGPRS area.

Data Source

BSS

Source Field

72119

Source Section

P_NBSC_PACKET_CONTROL_UNIT

UL_GPRS_TBF_IN_EGPRS_TERR

Number of GPRS TBF allocations done in EGPRS territory because of congestion in GPRS area.

Data Source

BSS

Source Field

72117

Source Section

P_NBSC_PACKET_CONTROL_UNIT

UL_RLC_BLOCKS_IN_ACK_MODE0

Nr of uplink RLC blocks in acknowledged mode. CS 0

Data Source

BSS

Source Field

79002

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_BLOCKS_IN_ACK_MODE1

Nr of uplink RLC blocks in acknowledged mode. CS 1

Data Source

BSS

Source Field

79002

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_BLOCKS_IN_ACK_MODE2

Nr of uplink RLC blocks in acknowledged mode. CS 2

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_BLOCKS_IN_ACK_MODE3

Nr of uplink RLC blocks in acknowledged mode. CS 3

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_BLOCKS_IN_ACK_MODE4

Nr of uplink RLC blocks in acknowledged mode. CS 4

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_BLOCKS_IN_ACK_MODE5

Nr of uplink RLC blocks in acknowledged mode. CS 5

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_BLOCKS_IN_ACK_MODE6

Nr of uplink RLC blocks in acknowledged mode. CS 6

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_BLOCKS_IN_ACK_MODE7

Nr of uplink RLC blocks in acknowledged mode. CS 7

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_BLOCKS_IN_ACK_MODE8

Nr of uplink RLC blocks in acknowledged mode. CS 8

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_BLOCKS_IN_ACK_MODE9

Nr of uplink RLC blocks in acknowledged mode. CS 9

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_BLOCKS_IN_UNACK_MODE0

Nr of uplink RLC blocks in unacknowledged mode. CS 0

Data Source

BSS

Source Field

79003

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_BLOCKS_IN_UNACK_MODE1

Nr of uplink RLC blocks in unacknowledged mode. CS 1

Data Source

BSS

Source Field

79003

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_BLOCKS_IN_UNACK_MODE2

Nr of uplink RLC blocks in unacknowledged mode. CS 2

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_BLOCKS_IN_UNACK_MODE3

Nr of uplink RLC blocks in unacknowledged mode. CS 3

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_BLOCKS_IN_UNACK_MODE4

Nr of uplink RLC blocks in unacknowledged mode. CS 4

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_BLOCKS_IN_UNACK_MODE5

Nr of uplink RLC blocks in unacknowledged mode. CS 5

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_BLOCKS_IN_UNACK_MODE6

Nr of uplink RLC blocks in unacknowledged mode. CS 6

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_BLOCKS_IN_UNACK_MODE7

Nr of uplink RLC blocks in unacknowledged mode. CS 7

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_BLOCKS_IN_UNACK_MODE8

Nr of uplink RLC blocks in unacknowledged mode. CS 8

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_BLOCKS_IN_UNACK_MODE9

Nr of uplink RLC blocks in unacknowledged mode. CS 9

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_CS1_BLKs_FROM_DTM_MS

The number of valid RLC data blocks received with CS-1 from mobiles having a DTM allocation.

Data Source

BSC

Source Field

72205

Source Section

RBS_PS_PCU_BTS_RAW

UL_RLC_CS2_BLKs_FROM_DTM_MS

The number of valid RLC data blocks received with CS-2 from mobiles having a DTM allocation.

Data Source

BSC

Source Field

72206

Source Section

RBS_PS_PCU_BTS_RAW

UL_RLC_MCSN_BLKs_FROM_DTM_MS0

Number of RLC data blocks received with MCS-1...9 or CS3...4 from mobiles having a DTM allocation.

Data Source

BSS

Source Field

79011

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_MCSN_BLKs_FROM_DTM_MS1

Number of RLC data blocks received with MCS-1...9 or CS3...4 from mobiles having a DTM allocation.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_MCSN_BLKES_FROM_DTM_MS2

Number of RLC data blocks received with MCS-1...9 or CS3...4 from mobiles having a DTM allocation.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_MCSN_BLKES_FROM_DTM_MS3

Number of RLC data blocks received with MCS-1...9 or CS3...4 from mobiles having a DTM allocation.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_MCSN_BLKES_FROM_DTM_MS4

Number of RLC data blocks received with MCS-1...9 or CS3...4 from mobiles having a DTM allocation.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_MCSN_BLKES_FROM_DTM_MS5

Number of RLC data blocks received with MCS-1...9 or CS3...4 from mobiles having a DTM allocation.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_MCSN_BLKs_FROM_DTM_MS6

Number of RLC data blocks received with MCS-1...9 or CS3...4 from mobiles having a DTM allocation.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_MCSN_BLKs_FROM_DTM_MS7

Number of RLC data blocks received with MCS-1...9 or CS3...4 from mobiles having a DTM allocation.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_MCSN_BLKs_FROM_DTM_MS8

Number of RLC data blocks received with MCS-1...9 or CS3...4 from mobiles having a DTM allocation.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_RLC_MCSN_BLKs_FROM_DTM_MS9

Number of RLC data blocks received with MCS-1...9 or CS3...4 from mobiles having a DTM allocation.

Data Source

BSS

Source Section

P_NBSC_CODING_SCHEME

UL_SACCH_REPEAT_REQUESTS

Number of SACCH repetition requests sent to the mobiles by the BTS.

Data Source

BSC

Source Field

112003

Source Section

RBS_PS_AMRSIG_BTS_RAW

UL_SACCH_SOFT_COMBININGS

Number of successful soft combinings done by the BTS for uplink SACCH frames.

Data Source

BSC

Source Field

112001

Source Section

RBS_PS_AMRSIG_BTS_RAW

UL_TBF_ESTABL_STARTED

Number of started UL TBF establishments.

Data Source

BSS

Source Field

72121

Source Section

P_NBSC_PACKET_CONTROL_UNIT

UL_TBF_ESTABLISHMENT_FAILED

Number of failed uplink TBF establishments due to no response from MS.

Data Source

BSS

Source Field

72092

Source Section

P_NBSC_PACKET_CONTROL_UNIT

UL_TBF_FOR_DATA

Number of established UL TBFs for data transfer.

Data Source

BSS

Source Field

72162

Source Section

P_NBSC_PACKET_CONTROL_UNIT

UL_TBF_FOR_SIGNALLING

Number of established UL TBFs for signalling.

Data Source

BSS

Source Field

72161

Source Section

P_NBSC_PACKET_CONTROL_UNIT

UL_TBF_RE_ALLOCATIONS

Number of uplink TBF reallocations.

Data Source

BSS

Source Field

72027

Source Section

P_NBSC_PACKET_CONTROL_UNIT

UL_TBF_REALLOC_DUE_SIM_DL_TBF

Nof uplink TBF reallocations due to the estab of a simultaneous downlink TBF.

Data Source

BSS

Source Field

72030

Source Section

P_NBSC_PACKET_CONTROL_UNIT

UL_TBF_REALLOC_FAILS

Number of uplink TBF reallocation failures.

Data Source

BSS

Source Field

72032

Source Section

P_NBSC_PACKET_CONTROL_UNIT

UL_TBF_REL_DUE_CSW_TRAFFIC

Number of uplink TBF release due to CSW traffic.

Data Source

BSS

Source Field

72054

Source Section

P_NBSC_PACKET_CONTROL_UNIT

UL_TBF_REL_DUE_NO_RESP_MS

Number of uplink TBF release due to no response from MS.

Data Source

BSS

Source Field

72056

Source Section

P_NBSC_PACKET_CONTROL_UNIT

UL_TBF_REL_DUE_TO_FLUSH

Number of uplink TBF release due to flush.

Data Source

BSS

Source Field

72058

Source Section

P_NBSC_PACKET_CONTROL_UNIT

UL_TBF_REL_DUE_TO_SUSPEND

Number of uplink TBF release due to suspend.

Data Source

BSS

Source Field

72060

Source Section

P_NBSC_PACKET_CONTROL_UNIT

UL_TBF_RELEASES_DUE_DTM

The number of cases where an ongoing UL TBF needs to be released due to a DTM procedure.

Data Source

BSC

Source Field

72201

Source Section

RBS_PS_PCU_BTS_RAW

UL_TBF_UNACK_MODE

The number of established uplinkTBFs in unacknowledged mode.

Data Source

BSS

Source Field

72010

Source Section

P_NBSC_PACKET_CONTROL_UNIT

UL_TBF_WITH_RETRY_BIT_SET

Number of established uplink TBFs with retry Bit set to 1.

Data Source

BSS

Source Field

72020

Source Section

P_NBSC_PACKET_CONTROL_UNIT

UNSRV_QD_CALL_ATT

Number of queued call attempts that have not been served

Data Source

BSS

Source Field

1024

Source Section

P_NBSC_TRAFFIC

UNSRV_QD_HO_ATT

Number of queued handover attempts that have not been served

Data Source

BSS

Source Field

1025

Source Section

P_NBSC_TRAFFIC

UNSUCC_AMR_CODEC_SET_DOWNGR

Nof unsucc AMR codec set downgrades during internal HOs for the source side AMR codec set.

Data Source

BSS

Source Field

1186

Source Section

P_NBSC_TRAFFIC

UNSUCC_AMR_CODEC_SET_UPGR

Nof unsucc AMR codec set upgrades after internal HOs for the target side AMR codec set

Data Source

BSS

Source Field

1188

Source Section

P_NBSC_TRAFFIC

UNSUCC_HO_INTER_BAND_DUE_LEVEL

Nof unsucc att to perform a TCH-TCH ho from non-BCCH layer between BTSs on different freq bands of a segment

Data Source

BSS

Source Field

4164

Source Section

P_NBSC_HO

UNSUCCESSFUL_HO_INTER_BAND_TCH

Nof unsucc TCH-TCH hos between BTSs of different freq bands of a segment due to load

Data Source

BSS

Source Field

4161

Source Section

P_NBSC_HO

UNSUCESSFUL_HO_IN_BTS_TYPE_TCH

Nof unsuccessful TCH-TCH hos between different BTS types of a segment due to load

Data Source

BSS

Source Field

4162

Source Section

P_NBSC_HO

WCDMA_RAN_GSM_HO_FAIL_TARGET

Nof fail during inter-system HO signalling on the target side (WCDMA RAN to GSM HO)

Data Source

BSS

Source Field

57039

Source Section

P_NBSC_SERVICE

WCDMA_RAN_TO_GSM_HO_SUCCESS

Number of successful inter-system handovers from WCDMA RAN to GSM.

Data Source

BSS

Source Field

57040

Source Section

P_NBSC_SERVICE

WEIGHTED_DL_ALLOC_EDGE_4_DEN

The denominator for weighted downlink allocation for 4 or more TSL-capable MSs having EDGE TBFs. All EGPRS MS classes that support 4 or more TSLs in downlink direction are included. The counter contains the sum of downlink TBF allocation durations. Abnormal releases are not included. Average allocation is achieved by dividing 072191 by 072192.

Data Source

BSC

Source Field

72192

Source Section

RBS_PS_PCU_BTS_RAW

WEIGHTED_DL_ALLOC_EDGE_4_NUM

The numerator for weighted downlink allocation for 4 or more TSL-capable MSs having EDGE TBFs. All EGPRS MS classes that support 4 or more TSLs in downlink direction are included. Allocation (the number of TBFs) is multiplied by allocation duration. Abnormal releases are not included. Average allocation is achieved by dividing 072191 by 072192.

Data Source

BSC

Source Field

72191

Source Section

RBS_PS_PCU_BTS_RAW

WEIGHTED_DL_ALLOC_EDGE_DEN

The denominator for weighted downlink allocation for all EDGE TBFs and all MS classes. The counter contains the sum of downlink allocation durations. Abnormal releases are not included. Average allocation is achieved by dividing 072193 by 072194.

Data Source

BSC

Source Field

72194

Source Section

RBS_PS_PCU_BTS_RAW

WEIGHTED_DL_ALLOC_EDGE_NUM

The numerator for weighted downlink allocation for all EDGE TBFs and all MS classes. Allocation (the number of TBFs) is multiplied by allocation duration. Abnormal releases are not included. Average allocation is achieved by dividing 072193 by 072194.

Data Source

BSC

Source Field

72193

Source Section

RBS_PS_PCU_BTS_RAW

WEIGHTED_DL_ALLOC_GPRS_DEN

The denominator for weighted downlink allocation for all GPRS mode TBFs and all MS classes. The counter contains the sum of downlink allocation durations. Abnormal releases are not included. Average allocation is achieved by dividing 072195 by 072196.

Data Source

BSC

Source Field

72196

Source Section

RBS_PS_PCU_BTS_RAW

WEIGHTED_DL_ALLOC_GPRS_NUM

The numerator for weighted downlink allocation for all GPRS mode TBFs and all MS classes. Allocation (the number of TSLs) is multiplied by allocation duration. Abnormal releases are not included. Average allocation is achieved by dividing 072195 by 072196.

Data Source

BSC

Source Field

72195

Source Section

RBS_PS_PCU_BTS_RAW

WEIGHTED_UL_ALLOC_EDGE_4_DEN

The denominator for weighted uplink allocation for 4 or more TSL-capable MSs having EDGE TBFs. All EGPRS MS classes that support 4 or more TSLs in uplink direction are included. The counter contains the sum of uplink allocation durations. Abnormal releases are not included. Average allocation is achieved by dividing 072199 by 072200. Draft

Data Source

BSC

Source Field

72200

Source Section

RBS_PS_PCU_BTS_RAW

WEIGHTED_UL_ALLOC_EDGE_4_NUM

The numerator for weighted uplink allocation for 4 or more TSL-capable MSs having EDGE TBFs. All EGPRS MS classes that support 4 or more TSLs in uplink direction are included. Allocation (the number of TBFs) is multiplied by allocation duration. Abnormal releases are not included. Average allocation is achieved by dividing 072199 by 072200.

Data Source

BSC

Source Field

72199

Source Section

RBS_PS_PCU_BTS_RAW

WEIGHTED_UL_ALLOC_EDGE_DEN

The denominator for uplink allocation for all EDGE TBFs and all MS classes. The counter contains the sum of uplink allocation durations. Abnormal releases are not included. Average allocation is achieved by dividing 072197 by 072198.

Data Source

BSC

Source Field

72198

Source Section

RBS_PS_PCU_BTS_RAW

WEIGHTED_UL_ALLOC_EDGE_NUM

The numerator for weighted uplink allocation for all EDGE TBFs and all MS classes. Allocation (the number of TBFs) is multiplied by allocation duration. Abnormal releases are not included. Average allocation is achieved by dividing 072197 by 072198.

Data Source

BSC

Source Field

72197

Source Section

RBS_PS_PCU_BTS_RAW

WPS_AVE_OCCU_FTCH_COUNT

Average number of full rate traffic channels occupied by WPS users during a measurement period. UPDATED: Every 20 seconds.DEPENDENCIES WITH OTHER COUNTERS: This counter is updated with counter 103001.RELATED TO FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103000

Source Section

P_NBSC_WPS

WPS_AVE_OCCU_HTCH_COUNT

Average number of half rate traffic channels occupied by WPS users during measurement period. UPDATED: Every 20 seconds. DEPENDENCIES WITH OTHER COUNTERS: This counter is updated with counter 103003. RELATED TO FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103002

Source Section

P_NBSC_WPS

WPS_DENOMINATOR_1

Denominator of the average number of full rate traffic channels occupied by WPS users. DEPENDENCIES WITH OTHER COUNTERS: This counter is updated with counter 103001. RELATED TO FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103001

Source Section

P_NBSC_WPS

WPS_DENOMINATOR_2

Denominator of the average number of half rate traffic channels occupied by WPS users. DEPENDENCIES WITH OTHER COUNTERS: This counter is updated with counter 103002. RELATED TO FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103003

Source Section

P_NBSC_WPS

WPS_DENOMINATOR_3

Denominator of the average queuing time for WPS users who are assigned a traffic channel after queuing. DEPENDENCIES WITH OTHER COUNTERS: This counter is updated with counter 103007. RELATED TO FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103008

Source Section

P_NBSC_WPS

WPS_PEAK_BUSY_FTCH_COUNT

Peak number of full rate traffic channels occupied by WPS users during a measurement period. UPDATED: When the number of full rate traffic channels occupied by WPS users exceeds the previous peak value. RELATED TO FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103004

Source Section

P_NBSC_WPS

WPS_PEAK_BUSY_HTCH_COUNT

Peak number of half rate traffic channels occupied by WPS users during a measurement period. UPDATED: When the number of half rate traffic channels occupied by WPS users exceeds the previous peak value. RELATED TO FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103005

Source Section

P_NBSC_WPS

WPS_PRI_1_NOT_ALL_QUE_DUE_LEN

Number of priority level 1 WPS users that are not allowed into the queue because the maximum queue length has been reached. UPDATED: When access to the queue is denied for a WPS user with MS priority level 2 because the maximum queue length has been reached. RELATED TO FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103015

Source Section

P_NBSC_WPS

WPS_PRI_2_NOT_ALL_QUE_DUE_LEN

Number of priority level 2 WPS users that are not allowed into the queue because the maximum queue length has been reached. UPDATED: When queuing is denied for a WPS user with MS priority level 3 because the maximum queue length has been reached or when a WPS user with MS priority level 3 is removed from queue because of the arrival of a higher priority WPS user. RELATED TO FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103016

Source Section

P_NBSC_WPS

WPS_PRI_3_NOT_ALL_QUE_DUE_LEN

Number of priority level 3 WPS users that are not allowed into the queue because the maximum queue length has been reached. UPDATED: When queuing is denied for a WPS user with MS

priority level 4 because the maximum queue length has been reached or when a WPS user with MS priority level 4 is removed from queue because of the arrival of a higher priority WPS user. RELATED TO FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103017

Source Section

P_NBSC_WPS

WPS_PRI_4_NOT_ALL_QUE_DUE_LEN

Number of priority level 4 WPS users that are not allowed into the queue because the maximum queue length has been reached. UPDATED: When queuing is denied for a WPS user with MS priority level 5 because the maximum queue length has been reached or when a WPS user with MS priority level 5 is removed from the queue because of the arrival of a higher priority WPS user. RELATED TO FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103018

Source Section

P_NBSC_WPS

WPS_PRI_5_NOT_ALL_QUE_DUE_LEN

Number of priority level 5 WPS users that are not allowed into the queue because the maximum queue length has been reached. UPDATED: When queuing is denied for a WPS user with MS priority level 6 because the maximum queue length has been reached or when a WPS user with MS priority level 6 is removed from the queue because of the arrival of a higher priority WPS user. RELATED TO FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103019

Source Section

P_NBSC_WPS

WPS_PRI1_REM_FROM_QUE_DUE_TIME

Number of priority level 1 WPS users that are dropped from the queue because the queuing timer has expired. UPDATED: When a WPS user with MS priority level 2 is removed from the queue due to timer expiration. RELATED TO FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103020

Source Section

P_NBSC_WPS

WPS_PRI2_REM_FROM_QUE_DUE_TIME

Number of priority level 2 WPS users that are dropped from the queue because the queuing timer has expired. UPDATED: When a WPS user with MS priority level 3 is removed from the queue due to timer expiration. RELATED TO FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103021

Source Section

P_NBSC_WPS

WPS_PRI3_REM_FROM_QUE_DUE_TIME

Number of priority level 3 WPS users that are dropped from the queue because the queuing timer has expired. UPDATED: When a WPS user with MS priority level 4 is removed from the queue due to timer expiration. RELATED TO FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103022

Source Section

P_NBSC_WPS

WPS_PRI4_REM_FROM_QUE_DUE_TIME

Number of priority level 4 WPS users that are dropped from the queue because the queuing timer has expired. UPDATED: When a WPS user with MS priority level 5 is removed from the queue due to timer expiration. RELATED TO FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103023

Source Section

P_NBSC_WPS

WPS_PRI5_REM_FROM_QUE_DUE_TIME

Number of priority level 5 WPS users that are dropped from the queue because the queuing timer has expired. UPDATED: When a WPS user with MS priority level 6 is removed from the queue due to timer expiration. RELATED TO FEATURE: BSS11149 Wireless Priority Service

Data Source

BSS

Source Field

103024

Source Section

P_NBSC_WPS

WPS_REM_FROM_QUE_DUE_DR

No Description from vendor

Data Source

BSS

Source Field

103026

Source Section

P_NBSC_WPS

WPS_REM_FROM_QUE_DUE_LOSS

No Description from vendor

Data Source

BSS

Source Field

103025

Source Section

P_NBSC_WPS

CallType Primitive Calculations

The following is a list of primitive calculations for the CallType entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

CallType Peg Counts

The following is a list of peg counts for the CallType entity.

DSU_ACCEP

Number of successful call attempts (0...999999), clear codes 0...3FF.

Data Source

MSC

DSU_ANSW

Number of call attempts (0...999999) that have been answered.

Data Source

MSC

DSU_CALLS

Number of call attempts (0...999999) that have been started during the measurement period.

Data Source

MSC

DSU_EFAIL

Number of call attempts (0...999999) that have terminated in an error on the trunk circuit, clear codes 800...BFF.

Data Source

MSC

DSU_IFAIL

Number of failed call attempts (0...99999) terminated in an error in the home exchange, clear codes 400...7FF.

Data Source

MSC

DSU_INVALID_RECORD

The tag appears only with value 1 when every counter in the group contains the 0xFFFFFFFF value.

Data Source

MSC

DSU_ONLINE

Number of successful synchronisations between data terminals (0...999999). This counter indicates the amount of connections where the user data may have been transmitted. When bit transparent mode of operation is used, this field is not updated.

Data Source

MSC

DSU_SEIZURE

Traffic intensity (0.0...999999.9) is amount of total reservation time divided by the length of the measurement period. Total reservation time is measured in seconds from the reservation and release of internal data circuits by call type.

Data Source

MSC

DSU_SFAIL

Number of failed call attempts (0...99999) that have terminated in a subscriber error, clear codes C00...FFF.

Data Source

MSC

DSU_TRANSPARENT_NO_IWF_ACCEP

Number of successful call attempts (0...999999), clear codes 0...3FF.

Data Source

MSC

DSU_TRANSPARENT_NO_IWF_ANSW

Number of call attempts (0...999999) that have been answered.

Data Source

MSC

DSU_TRANSPARENT_NO_IWF_CALLS

Number of call attempts (0...999999) that have been started during the measurement period.

Data Source

MSC

DSU_TRANSPARENT_NO_IWF_EFAIL

Number of call attempts (0...999999) that have terminated in an error on the trunk circuit, clear codes 800...BFF.

Data Source

MSC

DSU_TRANSPARENT_NO_IWF_IFAIL

Number of failed call attempts (0...999999) terminated in an error in the home exchange, clear codes 400...7FF.

Data Source

MSC

DSU_TRANSPARENT_NO_IWF_SEIZUR

Traffic intensity (0.0...999999.9) is amount of total reservation time divided by the length of the measurement period. Total reservation time is measured in seconds from the reservation and release of internal data circuits by call type. In the bit-transparent calls, the Seizure is calculated from the A-interface circuits reservation.

Data Source

MSC

DSU_TRANSPARENT_NO_IWF_SFAIL

Number of failed call attempts (0...99999) that have terminated in a subscriber error, clear codes C00...FFF.

Data Source

MSC

DSU_UMTS TRANSP_NO_IWF_ACCEP

Number of successful call attempts (0...999999), clear codes 0...3FF.

Data Source

MSC

DSU_UMTS TRANSP_NO_IWF_ANSW

Number of call attempts (0...999999) that have been answered.

Data Source

MSC

DSU_UMTS TRANSP_NO_IWF_CALLS

Number of call attempts (0...999999) that have been started during the measurement period.

Data Source

MSC

DSU_UMTS TRANSP_NO_IWF_EFAIL

Number of call attempts (0...99999) that have terminated in an error on the trunk circuit, clear codes 800...BFF.

Data Source

MSC

DSU_UMTS TRANSP_NO_IWF_IFAIL

Number of failed call attempts (0...99999) terminated in an error in the home exchange, clear codes 400...7FF.

Data Source

MSC

DSU_UMTS_TRANSP_NO_IWF_SEIZUR

Traffic intensity (0.0...999999.9) is amount of total reservation time divided by the length of the measurement period. Total reservation time is measured in seconds from the reservation and release of internal data circuits by call type.

Data Source

MSC

DSU_UMTS_TRANSP_NO_IWF_SFAIL

Number of failed call attempts (0...99999) that have terminated in a subscriber error, clear codes C00...FFF.

Data Source

MSC

IWF_CALLTYPE_ANSW

Number of call attempts (0...999999) that have been answered. CODING: DW

Data Source

MSC

IWF_CALLTYPE_CALLS

Number of call attempts (0...999999) that have ended in the measurement period. CODING: DW

Data Source

MSC

IWF_CALLTYPE_FAIL

Number of failed call attempts where the failure has been in IWF. CODING: DW

Data Source

MSC

IWF_CALLTYPE_ONLINE

Number of successful synchronisations between data terminals (0...999999). This counter indicates the amount of connections where the user data may have been transmitted. CODING: DW

Data Source

MSC

IWF_CALLTYPE_SEIZURE

Traffic intensity (0.0...999999.9) is the amount of total reservation time divided by the length of the measurement period. Total reservation time is measured in seconds from the reservation and the release of internal data circuits by call type. CODING: DW (value is multiplied by 100)
NSS Statistics, Reports

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

CircuitGroup Primitive Calculations

The following is a list of primitive calculations for the CircuitGroup entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

CircuitGroup Peg Counts

The following is a list of peg counts for the CircuitGroup entity.

CGRL_AVG_NUM_OF_CIRCUITS_X10

The average number of circuits (0.0...6553.5) available (in WO-EX state) in the circuit group. The average number is calculated in the marker unit by using sampling procedure. The number of WOEX circuits of each circuit group is updated on a counter.

Data Source

MSC

CGRL_ERLANGS_X10

The amount of traffic in erlangs (0.0...99999.9), that is, the total seizure time of the object being measured in relation to the measurement period. All of the circuit reservation time is updated in the results accumulation period in which the circuit is released. For this reason remarkably large values in the ERLANGS field are possible in a case in which there are many calls that have started before the results accumulation period but that end in the results accumulation period.

Data Source

MSC

CGRL_EXTERNAL_FAILURE

The number of call attempts (0...9999999) terminated in an external error situation (clear codes 800H...BFFH), that is, error on trunk circuit. The counter is updated when the circuit is released.

Data Source

MSC

CGRL_FAILURE_RATE_PERCENT_X10

Call failure rate in percents (0.0...100.0). The value is calculated by dividing the number of calls ended in internal or external failure by the total number of calls. Subscriber errors (clear codes C00H...FFFH) are not included in the total number nor in the number of error situations when the failure rate is calculated.

Data Source

MSC

CGRL_INTERNAL_FAILURE

The number of call attempts (0...9999999) terminated in an internal error situation clear codes 400H...7FFH), that is, an error in the home exchange. The counter is updated when the circuit is released.

Data Source

MSC

CGRL_INVALID_RECORD

Tag appears at the end of the given counter group if the field value is 255.

Data Source

MSC

CGRL_NUM_OF_CALLS

The total number of started calls (0...9999999) during the reporting period. The counter is updated when the circuit is reserved. Subscriber errors (clear codes C00H...FFFH) are not included.

Data Source

MSC

CGRL_TIME_CONGEST_PERCENT_X10

The time congestion percentage (0.0...100.0). The counting of time congestion is started when the last free circuit in a circuit group is reserved. The value indicates the proportion of time during which all circuits on the circuit group have been reserved within the observation period.

Data Source

MSC

CGRL_TOTAL_NUM_OF_CIRCUITS

Number of circuits in the circuit group.

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

CircuitPool_BSC Primitive Calculations

The following is a list of primitive calculations for the CircuitPool_BSC entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

CircuitPool_BSC Peg Counts

The following is a list of peg counts for the CircuitPool_BSC entity.

AVE_CIRCUITS_AVAIL_DEN

Denominator for the counter 089001.

Data Source

BSS

Source Field

89002

Source Section

P_NBSC_REVERSED_HUNTING

AVE_CIRCUITS_AVAIL_SUM

Average number of circuits available (in WO-EX state).

Data Source

BSS

Source Field

89001

Source Section

P_NBSC_REVERSED_HUNTING

AVE_RESERVED_CIRCUITS_DEN

Denominator for the counter 089003.

Data Source

BSS

Source Field

89004

Source Section

P_NBSC_REVERSED_HUNTING

AVE_RESERVED_CIRCUITS_SUM

Average number of reserved circuits.

Data Source

BSS

Source Field

89003

Source Section

P_NBSC_REVERSED_HUNTING

BSSRelease

BSS Release

Data Source

BSS

CIRCUITS_IN_POOL

Total number of circuits in the A interface pool.

Data Source

BSS

Source Field

89000

Source Section

P_NBSC_REVERSED_HUNTING

FR1_CALL_ATTEMPTS

Number of attempted Full Rate version 1 calls.

Data Source

BSS

Source Field

89005

Source Section

P_NBSC_REVERSED_HUNTING

FR2_CALL_ATTEMPTS

Number of attempted Full Rate version 2 calls.

Data Source

BSS

Source Field

89006

Source Section

P_NBSC_REVERSED_HUNTING

FR3_CALL_ATTEMPTS

Number of attempted Full Rate version 3 calls.

Data Source

BSS

Source Field

89007

Source Section

P_NBSC_REVERSED_HUNTING

HR1_CALL_ATTEMPTS

Number of attempted Half Rate version 1 calls

Data Source

BSS

Source Field

89008

Source Section

P_NBSC_REVERSED_HUNTING

HR2_CALL_ATTEMPTS

Number of attempted Half Rate version 2 calls.

Data Source

BSS

Source Field

89009

Source Section

P_NBSC_REVERSED_HUNTING

HR3_CALL_ATTEMPTS

Number of attempted Half Rate version 3 calls.

Data Source

BSS

Source Field

89010

Source Section

P_NBSC_REVERSED_HUNTING

MS1_CALL_ATTEMPTS

Number of multi-slot 1 data call attempts.

Data Source

BSS

Source Field

89012

Source Section

P_NBSC_REVERSED_HUNTING

MS2_CALL_ATTEMPTS

Number of multi-slot 2 data call attempts.

Data Source

BSS

Source Field

89013

Source Section

P_NBSC_REVERSED_HUNTING

MS3_CALL_ATTEMPTS

Number of multi-slot 3 data call attempts.

Data Source

BSS

Source Field

89014

Source Section

P_NBSC_REVERSED_HUNTING

MS4_CALL_ATTEMPTS

Number of multi-slot 4 data call attempts.

Data Source

BSS

Source Field

89015

Source Section

P_NBSC_REVERSED_HUNTING

PERIOD_REAL_START_TIME_REV

The real starting time of a period

Data Source

BSS

Source Section

P_NBSC_REVERSED_HUNTING

PERIOD_REAL_STOP_TIME_REV

The real stopping time of a period

Data Source

BSS

Source Section

P_NBSC_REVERSED_HUNTING

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

SINGLE_SLOT_CALL_ATTEMPTS

Number of single-slot data call attempts.

Data Source

BSS

Source Field

89011

Source Section

P_NBSC_REVERSED_HUNTING

CircuitSeizTerm Primitive Calculations

The following is a list of primitive calculations for the CircuitSeizTerm entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

CircuitSeizTerm Peg Counts

The following is a list of peg counts for the CircuitSeizTerm entity.

CISE_STATE_0_FREE_FF_RESERVED2

State of the circuit (PCM-TSL) during the supervision period. Possible values: FREE (0) = the circuit has been free the whole of the supervision period RESERVED (255) = the circuit has been reserved the whole of the supervision period.

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

CircuitSeizure Primitive Calculations

The following is a list of primitive calculations for the CircuitSeizure entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

CircuitSeizure Peg Counts

The following is a list of peg counts for the CircuitSeizure entity.

CISE_STATE_0_FREE_FF_RESERVED

State of the circuit (PCM-TSL) during the supervision period. Possible values: FREE (0) = the circuit has been free the whole of the supervision period RESERVED (255) = the circuit has been reserved the whole of the supervision period.

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

ClearCode Primitive Calculations

The following is a list of primitive calculations for the ClearCode entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

ClearCode Peg Counts

The following is a list of peg counts for the ClearCode entity.

BSSRelease

BSS Release

Data Source

BSS

NBR_OF_CALLS_CC

The number of calls per clear code1

Data Source

BSS

Source Field

50000

Source Section

P_NBSC_CC

PERIOD_REAL_START_TIME_CC

The real starting time of a period

Data Source

BSS

Source Section

P_NBSC_CC

PERIOD_REAL_STOP_TIME_CC

The real stopping time of a period

Data Source

BSS

Source Section

P_NBSC_CC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

ClearCodeDest Primitive Calculations

The following is a list of primitive calculations for the ClearCodeDest entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

ClearCodeDest Peg Counts

The following is a list of peg counts for the ClearCodeDest entity.

CCDEST_RING

The number of clear codes in the ring phase (0...999999999).

Data Source

MSC

CCDEST_SIGNALLING

The number of clear codes in the signalling phase (0...999999999).

Data Source

MSC

CCDEST_SPEECH

The number of clear codes in the speech phase (0...999999999).

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

ClsUpRange_Cell Primitive Calculations

The following is a list of primitive calculations for the ClsUpRange_Cell entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

ClsUpRange_Cell Peg Counts

The following is a list of peg counts for the ClsUpRange_Cell entity.

AVE_POWER_ADV

Average MS power value where the timing advance class is CLASS UPPER RANGE 1

Data Source

BSS

Source Field

55039

Source Section

P_NBSC_TIMING_ADVANCE

BSSRelease

BSS Release

Data Source

BSS

CLASS_UPPER_RANGE_ADV

0...63 one unit is approx. 550 meters 1

Data Source

BSS

Source Field

55000

Source Section

P_NBSC_TIMING_ADVANCE

FREQ_REPORTS

Nof MS power measurements where the timing advance class is CLASS UPPER RANGE 1

Data Source

BSS

Source Field

55009

Source Section

P_NBSC_TIMING_ADVANCE

MAX_POWER_ADV

Maximum MS power value where the timing advance class is CLASS UPPER RANGE 1

Data Source

BSS

Source Field

55029

Source Section

P_NBSC_TIMING_ADVANCE

MIN_POWER_ADV

Minimum MS power value where the timing advance class is CLASS UPPER RANGE 1

Data Source

BSS

Source Field

55019

Source Section

P_NBSC_TIMING_ADVANCE

PERIOD_REAL_START_TIME_ADV

The real starting time of a period

Data Source

BSS

Source Section

P_NBSC_TIMING_ADVANCE

PERIOD_REAL_STOP_TIME_ADV

The real stopping time of a period

Data Source

BSS

Source Section

P_NBSC_TIMING_ADVANCE

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

SEGMENT_ID_ADV

Segment identification number

Data Source

BSS

Source Section

P_NBSC_TIMING_ADVANCE

ClsUpRange_TRX Primitive Calculations

The following is a list of primitive calculations for the ClsUpRange_TRX entity.

AVG_DL_QUAL

Average Downlink Quality

Calculation

$$\frac{(\text{FREQ_DL_QUAL0_CLS} + \text{FREQ_DL_QUAL1_CLS} + \text{FREQ_DL_QUAL2_CLS} + \text{FREQ_DL_QUAL3_CLS} + \text{FREQ_DL_QUAL4_CLS})}{(\text{FREQ_UL_QUAL0_CLS} + \text{FREQ_DL_QUAL1_CLS} + \text{FREQ_DL_QUAL2_CLS} + \text{FREQ_DL_QUAL3_CLS} + \text{FREQ_DL_QUAL4_CLS} + \text{FREQ_DL_QUAL5_CLS} + \text{FREQ_DL_QUAL6_CLS} + \text{FREQ_DL_QUAL7_CLS})}$$

AVG_UL_QUAL

Average Uplink Quality

Calculation

$$\frac{(\text{FREQ_UL_QUAL0_CLS} + \text{FREQ_UL_QUAL1_CLS} + \text{FREQ_UL_QUAL2_CLS} + \text{FREQ_UL_QUAL3_CLS} + \text{FREQ_UL_QUAL4_CLS})}{(\text{FREQ_UL_QUAL0_CLS} + \text{FREQ_UL_QUAL1_CLS} + \text{FREQ_UL_QUAL2_CLS} + \text{FREQ_UL_QUAL3_CLS} + \text{FREQ_UL_QUAL4_CLS} + \text{FREQ_UL_QUAL5_CLS} + \text{FREQ_UL_QUAL6_CLS} + \text{FREQ_UL_QUAL7_CLS})}$$

BAD_DL_QUAL

Bad DL Qual

Calculation

$$\frac{(\text{FREQ_UL_QUAL0_CLS} + \text{FREQ_UL_QUAL1_CLS} + \text{FREQ_UL_QUAL2_CLS} + \text{FREQ_UL_QUAL3_CLS} + \text{FREQ_UL_QUAL4_CLS})}{(\text{FREQ_UL_QUAL0_CLS} + \text{FREQ_UL_QUAL1_CLS} + \text{FREQ_UL_QUAL2_CLS} + \text{FREQ_UL_QUAL3_CLS} + \text{FREQ_UL_QUAL4_CLS})}$$

BAD_UL_QUAL

Bad UL Qual

Calculation

$$\frac{(\text{FREQ_DL_QUAL0_CLS} + \text{FREQ_DL_QUAL1_CLS} + \text{FREQ_DL_QUAL2_CLS} + \text{FREQ_DL_QUAL3_CLS} + \text{FREQ_DL_QUAL4_CLS})}{(\text{FREQ_UL_QUAL0_CLS} + \text{FREQ_DL_QUAL1_CLS} + \text{FREQ_DL_QUAL2_CLS} + \text{FREQ_DL_QUAL3_CLS} + \text{FREQ_DL_QUAL4_CLS} + \text{FREQ_DL_QUAL5_CLS} + \text{FREQ_DL_QUAL6_CLS} + \text{FREQ_DL_QUAL7_CLS})}$$

DOWNLINK_RX_QUALITY

Downlink RX Quality

Calculation

$$100.0 * \left(\frac{(\text{FREQ_DL_QUAL6_CLS} + \text{FREQ_DL_QUAL7_CLS})}{(\text{FREQ_DL_QUAL0_CLS} + \text{FREQ_DL_QUAL1_CLS} + \text{FREQ_DL_QUAL2_CLS} + \text{FREQ_DL_QUAL3_CLS} + \text{FREQ_DL_QUAL4_CLS} + \text{FREQ_DL_QUAL5_CLS} + \text{FREQ_DL_QUAL6_CLS} + \text{FREQ_DL_QUAL7_CLS})} \right)$$

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

TOTAL_DL_QUAL

Total DL Qual

Calculation

$$(FREQ_DL_QUAL0_CLS + FREQ_DL_QUAL1_CLS + FREQ_DL_QUAL2_CLS + FREQ_DL_QUAL3_CLS + FREQ_DL_QUAL4_CLS + FREQ_DL_QUAL5_CLS + FREQ_DL_QUAL6_CLS + FREQ_DL_QUAL7_CLS)$$

TOTAL_UL_QUAL

Total UL Qual

Calculation

$$(FREQ_UL_QUAL0_CLS + FREQ_UL_QUAL1_CLS + FREQ_UL_QUAL2_CLS + FREQ_UL_QUAL3_CLS + FREQ_UL_QUAL4_CLS + FREQ_UL_QUAL5_CLS + FREQ_UL_QUAL6_CLS + FREQ_UL_QUAL7_CLS)$$

UPLINK_RX_QUALITY

Uplink RX Quality

Calculation

$$100.0 * ((FREQ_UL_QUAL6_CLS + FREQ_UL_QUAL7_CLS) / (FREQ_UL_QUAL0_CLS + FREQ_UL_QUAL1_CLS + FREQ_UL_QUAL2_CLS + FREQ_UL_QUAL3_CLS + FREQ_UL_QUAL4_CLS + FREQ_UL_QUAL5_CLS + FREQ_UL_QUAL6_CLS + FREQ_UL_QUAL7_CLS))$$

ClsUpRange_TRX Peg Counts

The following is a list of peg counts for the ClsUpRange_TRX entity.

BSSRelease

BSS Release

Data Source

BSS

BTS_ID_STAT

BTS identification the value may vary from 1 to 248.

Data Source

BSS

Source Field

53000

Source Section

P_NBSC_RX_STATISTICS

CLASS_UPPER_RANGE_1_STAT

Defines the upper range of used subclass 1

Data Source

BSS

Source Field

53002

Source Section

P_NBSC_RX_STATISTICS

CLASS_UPPER_RANGE_2_STAT

Defines the upper range of used subclass 2

Data Source

BSS

Source Field

53003

Source Section

P_NBSC_RX_STATISTICS

CLASS_UPPER_RANGE_3_STAT

Defines the upper range of used subclass 3

Data Source

BSS

Source Field

53004

Source Section

P_NBSC_RX_STATISTICS

CLASS_UPPER_RANGE_4_STAT

Defines the upper range of used subclass 4

Data Source

BSS

Source Field

53005

Source Section

P_NBSC_RX_STATISTICS

CLASS_UPPER_RANGE_5_STAT

Defines the upper range of used subclass 5

Data Source

BSS

Source Field

53006

Source Section

P_NBSC_RX_STATISTICS

FREQ_DL_QUAL0_CLS

Nof dl radio link measurement reports where the dl BER belongs to the band 0.Rx level CLASS
UPPER RANGE 1

Data Source

BSS

Source Field

53055

Source Section

P_NBSC_RX_STATISTICS

FREQ_DL_QUAL1_CLS

Nof dl radio link measurement reports where the dl BER belongs to the band 1.Rx level CLASS
UPPER RANGE 1

Data Source

BSS

Source Field

53061

Source Section

P_NBSC_RX_STATISTICS

FREQ_DL_QUAL2_CLS

Nof dl radio link measurement reports where the dl BER belongs to the band 2.Rx level CLASS
UPPER RANGE 1

Data Source

BSS

Source Field

53067

Source Section

P_NBSC_RX_STATISTICS

FREQ_DL_QUAL3_CLS

Nof dl radio link measurement reports where the dl BER belongs to the band 3.Rx level CLASS
UPPER RANGE 1

Data Source

BSS

Source Field

53073

Source Section

P_NBSC_RX_STATISTICS

FREQ_DL_QUAL4_CLS

Nof dl radio link measurement reports where the dl BER belongs to the band 4.Rx level CLASS
UPPER RANGE 1

Data Source

BSS

Source Field

53079

Source Section

P_NBSC_RX_STATISTICS

FREQ_DL_QUAL5_CLS

Nof dl radio link measurement reports where the dl BER belongs to the band 5.Rx level CLASS
UPPER RANGE 1

Data Source

BSS

Source Field

53085

Source Section

P_NBSC_RX_STATISTICS

FREQ_DL_QUAL6_CLS

Nof dl radio link measurement reports where the dl BER belongs to the band 6.Rx level CLASS
UPPER RANGE 1

Data Source

BSS

Source Field

53091

Source Section

P_NBSC_RX_STATISTICS

FREQ_DL_QUAL7_CLS

Nof dl radio link measurement reports where the dl BER belongs to the band 7.Rx level CLASS UPPER RANGE 1

Data Source

BSS

Source Field

53097

Source Section

P_NBSC_RX_STATISTICS

FREQ_GROUP_ID_RX_STATISTICS

The Identification of frequency group that the TRX belongs to

Data Source

BSS

Source Field

53103

Source Section

P_NBSC_RX_STATISTICS

FREQ_UL_QUAL0_CLS

Nof ul radio link measurement reports where the uplink BER belongs to the band 0.Rx level CLASS UPPER RANGE 1

Data Source

BSS

Source Field

53007

Source Section

P_NBSC_RX_STATISTICS

FREQ_UL_QUAL1_CLS

Nof ul radio link measurement reports where the uplink BER belongs to the band 1.Rx level
CLASS UPPER RANGE 1

Data Source

BSS

Source Field

53013

Source Section

P_NBSC_RX_STATISTICS

FREQ_UL_QUAL2_CLS

Nof ul radio link measurement reports where the uplink BER belongs to the band 2.Rx level
CLASS UPPER RANGE 1

Data Source

BSS

Source Field

53019

Source Section

P_NBSC_RX_STATISTICS

FREQ_UL_QUAL3_CLS

Nof ul radio link measurement reports where the uplink BER belongs to the band 3.Rx level
CLASS UPPER RANGE 1

Data Source

BSS

Source Field

53025

Source Section

P_NBSC_RX_STATISTICS

FREQ_UL_QUAL4_CLS

Nof ul radio link measurement reports where the uplink BER belongs to the band 4.Rx level
CLASS UPPER RANGE 1

Data Source

BSS

Source Field

53031

Source Section

P_NBSC_RX_STATISTICS

FREQ_UL_QUAL5_CLS

Nof ul radio link measurement reports where the uplink BER belongs to the band 5.Rx level
CLASS UPPER RANGE 1

Data Source

BSS

Source Field

53037

Source Section

P_NBSC_RX_STATISTICS

FREQ_UL_QUAL6_CLS

Nof ul radio link measurement reports where the uplink BER belongs to the band 5.Rx level
CLASS UPPER RANGE 6

Data Source

BSS

Source Field

53042

Source Section

P_NBSC_RX_STATISTICS

FREQ_UL_QUAL7_CLS

Nof ul radio link measurement reports where the uplink BER belongs to the band 7.Rx level
CLASS UPPER RANGE 1

Data Source

BSS

Source Field

53049

Source Section

P_NBSC_RX_STATISTICS

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

SEGMENT_ID_STATISTICS

Segment identification number

Data Source

BSS

Source Section

P_NBSC_RX_STATISTICS

TRX_FREQUENCY_RX_STATISTICS

Absolute radio freq Nof TRX from which the Rx level band freq will be collected.

Data Source

BSS

Source Field

53104

Source Section

P_NBSC_RX_STATISTICS

TRX_ID_STAT

1...16

Data Source

BSS

Source Field

53001

Source Section

P_NBSC_RX_STATISTICS

TRX_TYPE_RX_STATISTICS

Type of TRX normal TRX - 0 extended TRX + 1

Data Source

BSS

Source Field

53105

Source Section

P_NBSC_RX_STATISTICS

Codec Primitive Calculations

The following is a list of primitive calculations for the Codec entity.

DOWNLINK_FRAME_ERROR_RATE

Downlink Frame Error Rate (FER)

Calculation

$$100.0 * ((\text{NBR_OF_DL_FER_CL_0} + \text{NBR_OF_DL_FER_CL_1} + \text{NBR_OF_DL_FER_CL_2} + \text{NBR_OF_DL_FER_CL_3} + \text{NBR_OF_DL_FER_CL_4}) / (\text{NBR_OF_DL_FER_CL_0} + \text{NBR_OF_DL_FER_CL_1} + \text{NBR_OF_DL_FER_CL_2} + \text{NBR_OF_DL_FER_CL_3} + \text{NBR_OF_DL_FER_CL_4} + \text{NBR_OF_DL_FER_CL_5} + \text{NBR_OF_DL_FER_CL_6} + \text{NBR_OF_DL_FER_CL_7}))$$

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

UPLINK_FRAME_ERROR_RATE

Uplink Frame Error Rate (FER)

Calculation

$$100.0 * ((\text{NBR_OF_UL_FER_CL_0} + \text{NBR_OF_UL_FER_CL_1} + \text{NBR_OF_UL_FER_CL_2} + \text{NBR_OF_UL_FER_CL_3} + \text{NBR_OF_UL_FER_CL_4}) / (\text{NBR_OF_UL_FER_CL_0} + \text{NBR_OF_UL_FER_CL_1} + \text{NBR_OF_UL_FER_CL_2} + \text{NBR_OF_UL_FER_CL_3} + \text{NBR_OF_UL_FER_CL_4} + \text{NBR_OF_UL_FER_CL_5} + \text{NBR_OF_UL_FER_CL_6} + \text{NBR_OF_UL_FER_CL_7}))$$

Codec Peg Counts

The following is a list of peg counts for the Codec entity.

AVE_WIN_SIZE

Size of the averaging window used in a measurementperiod

Data Source

BSS

Source Field

77014

Source Section

P_NBSC_FER

BSSRelease

BSS Release

Data Source

BSS

BTS_ID_FER

BTS identification the value may vary from 1 to 248

Data Source

BSS

Source Field

77000

Source Section

P_NBSC_FER

CLASS_1_BOUNDARY

The lower limit of FER class 1 for both ul and dl directions used in a measurement period

Data Source

BSS

Source Field

77007

Source Section

P_NBSC_FER

CLASS_2_BOUNDARY

The lower limit of FER class 2 for both ul and dl directions used in a measurement period

Data Source

BSS

Source Field

77008

Source Section

P_NBSC_FER

CLASS_3_BOUNDARY

The lower limit of FER class 3 for both ul and dl directions used in a measurement period

Data Source

BSS

Source Field

77009

Source Section

P_NBSC_FER

CLASS_4_BOUNDARY

The lower limit of FER class 4 for both ul and dl directions used in a measurement period

Data Source

BSS

Source Field

77010

Source Section

P_NBSC_FER

CLASS_5_BOUNDARY

The lower limit of FER class 5 for both ul and dl directions used in a measurement period

Data Source

BSS

Source Field

77011

Source Section

P_NBSC_FER

CLASS_6_BOUNDARY

The lower limit of FER class 6 for both ul and dl directions used in a measurement period

Data Source

BSS

Source Field

77012

Source Section

P_NBSC_FER

CLASS_7_BOUNDARY

The lower limit of FER class 7 for both ul and dl directions used in a measurement period

Data Source

BSS

Source Field

77013

Source Section

P_NBSC_FER

CODEC_TYPE

Identification of the used codec type. 1 = half rate speech traffic channel 2= full rate speech traffic channel 3 = enhanced full rate speech traffic channel Adaptive Multi Rate (AMR)
Codecs: 4 = adaptive multirate half rate speech, 7.95kbit/s 5 = adaptive multirate half rate speech, 7.5kbit/s 6 = adaptive multirate half rate speech, 6.7kbit/s 7 = adaptive multirate half rate speech, 5.9kbit/s 8 = adaptive multirate half rate speech, 5.15kbit/s 9 = adaptive multirate half rate speech, 4.75kbit/s 10 = adaptive multirate full rate speech, 12.2kbit/s 11 = adaptive multirate full rate speech, 10.2kbit/s 12 = adaptive multirate full rate speech, 7.95kbit/s 13 = adaptive multirate full rate speech, 7.4kbit/s 14 = adaptive multirate full rate speech, 6.7kbit/s 15 = adaptive multirate full rate speech, 5.9kbit/s 16 = adaptive multirate full rate speech, 5.15kbit/s 17 = adaptive multirate full rate speech, 4.75kbit/s LIMITS: 1...17 speech, 4.75kbit/s LIMITS: 1...17

Data Source

BSS

Source Field

77002

Source Section

P_NBSC_FER

FH_GROUP_ID

Identification of the frequency hopping group

Data Source

BSS

Source Field

77006

Source Section

P_NBSC_FER

ID_OF_FREQUENCY_GROUP

Identification of the frequency group that the TRX belongs to

Data Source

BSS

Source Field

77004

Source Section

P_NBSC_FER

NBR_OF_DL_FER_CL_0

Number of real downlink FER samples in class 0

Data Source

BSS

Source Field

77023

Source Section

P_NBSC_FER

NBR_OF_DL_FER_CL_1

Number of real downlink FER samples in class 1

Data Source

BSS

Source Field

77024

Source Section

P_NBSC_FER

NBR_OF_DL_FER_CL_2

Number of real downlink FER samples in class 2

Data Source

BSS

Source Field

77025

Source Section

P_NBSC_FER

NBR_OF_DL_FER_CL_3

Number of real downlink FER samples in class 3

Data Source

BSS

Source Field

77026

Source Section

P_NBSC_FER

NBR_OF_DL_FER_CL_4

Number of real downlink FER samples in class 4

Data Source

BSS

Source Field

77027

Source Section

P_NBSC_FER

NBR_OF_DL_FER_CL_5

Number of real downlink FER samples in class 5

Data Source

BSS

Source Field

77028

Source Section

P_NBSC_FER

NBR_OF_DL_FER_CL_6

Number of real downlink FER samples in class 6

Data Source

BSS

Source Field

77029

Source Section

P_NBSC_FER

NBR_OF_DL_FER_CL_7

Number of real downlink FER samples in class 7

Data Source

BSS

Source Field

77030

Source Section

P_NBSC_FER

NBR_OF_DL_FER_EST

Total number of estimated FER values on the downlink direction.

Data Source

BSS

Source Field

77031

Source Section

P_NBSC_FER

NBR_OF_EST_DL_FER_CL_0

Number of estimated DL FER samples in class 0

Data Source

BSS

Source Field

77032

Source Section

P_NBSC_FER

NBR_OF_EST_DL_FER_CL_1

Number of estimated DL FER samples in class 1

Data Source

BSS

Source Field

77033

Source Section

P_NBSC_FER

NBR_OF_EST_DL_FER_CL_2

Number of estimated DL FER samples in class 2

Data Source

BSS

Source Field

77034

Source Section

P_NBSC_FER

NBR_OF_EST_DL_FER_CL_3

Number of estimated DL FER samples in class 3

Data Source

BSS

Source Field

77035

Source Section

P_NBSC_FER

NBR_OF_EST_DL_FER_CL_4

Number of estimated DL FER samples in class 4

Data Source

BSS

Source Field

77036

Source Section

P_NBSC_FER

NBR_OF_EST_DL_FER_CL_5

Number of estimated DL FER samples in class 5

Data Source

BSS

Source Field

77037

Source Section

P_NBSC_FER

NBR_OF_EST_DL_FER_CL_6

Number of estimated DL FER samples in class 6

Data Source

BSS

Source Field

77038

Source Section

P_NBSC_FER

NBR_OF_EST_DL_FER_CL_7

Number of estimated DL FER samples in class 7

Data Source

BSS

Source Field

77039

Source Section

P_NBSC_FER

NBR_OF_UL_FER_CL_0

Number of the uplink FER samples in class 0.

Data Source

BSS

Source Field

77015

Source Section

P_NBSC_FER

NBR_OF_UL_FER_CL_1

Number of the uplink FER samples in class 1.

Data Source

BSS

Source Field

77016

Source Section

P_NBSC_FER

NBR_OF_UL_FER_CL_2

Number of the uplink FER samples in class 2.

Data Source

BSS

Source Field

77017

Source Section

P_NBSC_FER

NBR_OF_UL_FER_CL_3

Number of the uplink FER samples in class 3.

Data Source

BSS

Source Field

77018

Source Section

P_NBSC_FER

NBR_OF_UL_FER_CL_4

Number of the uplink FER samples in class 4

Data Source

BSS

Source Field

77019

Source Section

P_NBSC_FER

NBR_OF_UL_FER_CL_5

Number of the uplink FER samples in class 5.

Data Source

BSS

Source Field

77020

Source Section

P_NBSC_FER

NBR_OF_UL_FER_CL_6

Number of the uplink FER samples in class 6.

Data Source

BSS

Source Field

77021

Source Section

P_NBSC_FER

NBR_OF_UL_FER_CL_7

Number of the uplink FER samples in class 7.

Data Source

BSS

Source Field

77022

Source Section

P_NBSC_FER

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

SAIC_NBR_OF_DL_FER_CL_0

Number of real downlink FER samples in class 0 with SAIC.

Data Source

BSS

Source Field

77040

Source Section

P_NBSC_FER

SAIC_NBR_OF_DL_FER_CL_1

Number of real downlink FER samples in class 1 with SAIC.

Data Source

BSS

Source Field

77041

Source Section

P_NBSC_FER

SAIC_NBR_OF_DL_FER_CL_2

Number of real downlink FER samples in class 2 with SAIC.

Data Source

BSS

Source Field

77042

Source Section

P_NBSC_FER

SAIC_NBR_OF_DL_FER_CL_3

Number of real downlink FER samples in class 3 with SAIC.

Data Source

BSS

Source Field

77043

Source Section

P_NBSC_FER

SAIC_NBR_OF_DL_FER_CL_4

Number of real downlink FER samples in class 4 with SAIC.

Data Source

BSS

Source Field

77044

Source Section

P_NBSC_FER

SAIC_NBR_OF_DL_FER_CL_5

Number of real downlink FER samples in class 5 with SAIC.

Data Source

BSS

Source Field

77045

Source Section

P_NBSC_FER

SAIC_NBR_OF_DL_FER_CL_6

Number of real downlink FER samples in class 6 with SAIC.

Data Source

BSS

Source Field

77046

Source Section

P_NBSC_FER

SAIC_NBR_OF_DL_FER_CL_7

Number of real downlink FER samples in class 7 with SAIC.

Data Source

BSS

Source Field

77047

Source Section

P_NBSC_FER

SEGMENT_ID_FER

Segment identification number

Data Source

BSS

Source Section

P_NBSC_FER

TRX_FREQUENCY_FER

Absolute radio frequency Nof the TRX

Data Source

BSS

Source Field

77005

Source Section

P_NBSC_FER

TRX_ID_FER

Identification of the transceiver (TRX) ranges from 1 to 32

Data Source

BSS

Source Field

77001

Source Section

P_NBSC_FER

TRX_TYPE_FER

Type of TRX normal TRX = 0 extended TRX = 1.

Data Source

BSS

Source Field

77003

Source Section

P_NBSC_FER

ControlUnit Primitive Calculations

The following is a list of primitive calculations for the ControlUnit entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

ControlUnit Peg Counts

The following is a list of peg counts for the ControlUnit entity.

CNTL_ACCEP

Number of successful call attempts (0...999999999), clear codes 0...3FF. The field is updated when the circuit is released. The counter is updated at the same time when the CALLS counter and the call is ended by clear code 0...3FF.

Data Source

MSC

CNTL_ANSW

The number of call attempts (0...999999999) that have reached the conversation state. The field is updated when the circuit is released. The counter is updated at the same time when the CALLS counter and the BSSAP CONNECT message is received from the BSC or the ISUP ANSWER message is received from the exchange.

Data Source

MSC

CNTL_CALLS

Number of call attempts (0...999999999). The field is updated when the circuit is released.

Data Source

MSC

CNTL_EFAIL

Number of call attempts (0...999999999) that have terminated in a trunk circuit error, clear codes 800...BFF. The field is updated when the circuit is released. The counter is updated at the same time when the CALLS counter and the call is ended by clear code 800...BFF.

Data Source

MSC

CNTL_ERLANGS

The amount of traffic handled by the control unit in erlangs (0.0...9999.9). That means the total reservation time of the object being measured in relation to the results accumulation period. The erlangs are calculated from circuit seizure to circuit release.

Data Source

MSC

CNTL_IFAIL

Number of call attempts (0...999999999) that have terminated in an error in the home exchange, clear codes 400...7FF. The field is updated when the circuit is released. The counter is updated at the same time when the CALLS counter and the call is ended by clear code 400...7FF.

Data Source

MSC

CNTL_INVALID_RECORD

The tag appears at the end of the given counter group with field value 1 when the actual record is invalid.

Data Source

MSC

CNTL_SFALL

Number of call attempts (0...999999999) that have terminated in a subscriber error, clear codes C00...FFF. The field is updated when the circuit is released. The counter is updated at the same time when the CALLS counter and the call is ended by clear code C0...FFF.

Data Source

MSC

CNTLL_ERLANGS_X10

The amount of traffic in erlangs (0.0...99999.9), that is, the total seizure time of the object being measured in relation to the measurement period. All of the circuit reservation time is updated in the results accumulation period in which the circuit is released. For this reason remarkably large values in the ERLANGS field are possible in a case in which there are many calls that have started before the results accumulation period but that end in the results accumulation period.

Data Source

MSC

CNTLL_EXTERNAL_FAILURE

The number of call attempts (0...9999999) terminated in an external error situation (clear codes 800H...BFFH), that is, error on trunk circuit. The counter is updated when the circuit is released.

Data Source

MSC

CNTLL_FAILURE_RATE_PERCENT_X10

Call failure rate (0.0...100.0), calculated by dividing the number of calls ended in internal or external failure by the total number of calls. Subscriber errors (clear codes C00H...FFFH) are not included in the total number nor in the number of error situations when the failure rate is calculated.

Data Source

MSC

CNTLL_INTERNAL_FAILURE

The number of call attempts (0...9999999) terminated in an internal error situation (clear codes 400H...7FFH), that is, an error in the home exchange. The counter is updated when the circuit is released.

Data Source

MSC

CNTLL_INVALID_RECORD

Tag appears at the end of the given counter group with field value 1 when the actual record is invalid.

Data Source

MSC

CNTLL_NUM_OF_CALLS

The total number of started calls (0...99999999) during the reporting period. The counter is updated when the circuit is reserved. Subscriber errors (clear codes C00H...FFFH) are not included.

Data Source

MSC

COMPL_INVALID_RECORD

Tag appears at the end of the given counter group with field value 1 when the actual record is invalid.

Data Source

MSC

COMPL_LOAD_PERCENT_X10

The average load rate in percents (0.0...100.0). When the observation object a computer unit (COMP), the value is the arithmetical average of samples taken from the processor load. The length of the sampling period is defined in the PRFILE parameter
LOAD_RATE_SAMPLE_INTERVAL (9:8). The parameter value is given in seconds

Data Source

MSC

COMPL_PEAK_LOAD_PERCENT

The peak load rate in percents (0...100). This is the highest recorded value of the processor load during a measurement period. The value is the average of the sampling interval. The length of the sampling interval is defined in the PRFILE parameter
LOAD_RATE_SAMPLE_INTERVAL (9:8).

Data Source

MSC

COMPL_PEAK_LOAD_TIME_SEC

The time of peak load. It indicates the interval in seconds between the start time and the time when the highest value of the message bus load was obtained.

Data Source

MSC

COMPL_UNRELIABLE_RECORD

Tag appears at the end of the given counter group when the number of load samples is too small compared to the sampling interval and to the length of the observation period and the value of the field is 1.

Data Source

MSC

MBLOAD_ERROR_IN_RECORD

Tag appears at the end of the given counter group with field value 1 when the load data on the message bus is not obtained from the OMU, or the measurement resources of the message bus could not be reserved from the operating system.

Data Source

MSC

MBLOAD_LOAD_X10

The average load rate of the message bus (0.0 - 100.0). This is the average load of the message bus during the measurement period. On the message bus, the load measurement is done by an operating system primitive which reads the load values of the currently used message bus every minute.

Data Source

MSC

MBLOAD_PEAK_LOAD

The peak load rate in percents (0..100). This is the highest recorded value of the message bus load rate during a measurement period. The peak load is an average load of sixty seconds.

Data Source

MSC

MBLOAD_PEAK_LOAD_TIME_IN_SEC

The time of peak load. It indicates the interval in seconds between the start time and the time when the highest value of the message bus load was obtained.

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

NUMDEST_DATA_PROV_RESTARTED

Tag appears with value 1 when data provider in signalling unit or signalling unit(s) is restarted during the period and data might not be reliable.

Data Source

MSC

Source Field

M18B2C11

Source Section

RNS_P_MEAS_CNTL_O2

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

REST_ADM_RESTARTS

Number of unit restarts initiated by the operator with MML commands (0...999999999). The field is updated immediately after a restart.

Data Source

MSC

REST_DISK_TIME_SEC

Time during which the unit has been out of service (0...999999999 seconds). The value is updated in a field of the unit in WO-EX state.

Data Source

MSC

REST_DUPLEX_DTIME_SEC

In duplicated units, time during which both units have been out of service, that is, in some other state but not WO-EX or SP-EX (0...999999999 seconds). The field is updated when the active unit is in WO-EX state and only for the active unit.

Data Source

MSC

REST_DUPLEX_RESTARTS

Number of simultaneous restarts in duplicated units (0...999999999). The value is updated in a field of the unit that was the spare unit before the restart.

Data Source

MSC

REST_PRB_RESTARTS

Number of restarts in the program blocks of the units (0...999999999). The field is updated when the unit state administration service has restarted the program block in question.

Data Source

MSC

REST_PREPROC_RESTARTS

Number of restarts in the preprocessors of the units (0...999999999). The field is updated immediately after a restart.

Data Source

MSC

REST_UNIT_RESTARTS

Number of all unit restarts (0...999999999). The field is updated immediately after a restart.

Data Source

MSC

D_Channel Primitive Calculations

The following is a list of primitive calculations for the D_Channel entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

D_Channel Peg Counts

The following is a list of peg counts for the D_Channel entity.

D_CHANNEL_RATE

D-channel bit rate. The unit of the counter is kbit/s.

Data Source

BSC

Source Field

226003

Source Section

RBS_PS_ABISDCH_TRX_RAW

DL_FRAME_ERRORS

Number of frames in bit errors received in downlink.

Data Source

BSC

Source Field

226004

Source Section

RBS_PS_ABISDCH_TRX_RAW

DL_OCTETS

Number of received octets in downlink.

Data Source

BSC

Source Field

226005

Source Section

RBS_PS_ABISDCH_TRX_RAW

MSCRelease

MSC Release

Data Source

BSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSC

UL_FRAME_ERRORS

Number of frames in bit errors received in uplink.

Data Source

BSC

Source Field

226006

Source Section

RBS_PS_ABISDCH_TRX_RAW

UL_I_FRAME_OCTETS

Number of I frame octets received in uplink.

Data Source

BSC

Source Field

226008

Source Section

RBS_PS_ABISDCH_TRX_RAW

UL_OCTETS

Number of octets received in uplink.

Data Source

BSC

Source Field

226007

Source Section

RBS_PS_ABISDCH_TRX_RAW

UL_UI_FRAME_OCTETS

Number of UI frame octets received in uplink. Draft

Data Source

BSC

Source Field

226009

Source Section

RBS_PS_ABISDCH_TRX_RAW

Destination Primitive Calculations

The following is a list of primitive calculations for the Destination entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

Destination Peg Counts

The following is a list of peg counts for the Destination entity.

CANCEL_LOCATION

The number of CancelLocation operations received from the specific HLR. This counter is printed only with Feature 1627: Super-Charger feature.

Data Source

MSC

Source Field

M339B2C6

Source Section

RNS_P_MEAS_DESVLR_O2

CCGDEST_CLRGR1

The value can be between 0 and 99999999.

Data Source

MSC

CCGDEST_CLRGR2

The value can be between 0 and 99999999.

Data Source

MSC

CCGDEST_CLRGR3

The value can be between 0 and 99999999.

Data Source

MSC

CCGDEST_CLRGR4

The value can be between 0 and 99999999.

Data Source

MSC

CCGDEST_CLRGR5

The value can be between 0 and 99999999.

Data Source

MSC

CCGDEST_CLRGR6

The value can be between 0 and 99999999.

Data Source

MSC

CCGDEST_CLRGR7

The value can be between 0 and 99999999.

Data Source

MSC

CCGDEST_CLRGR8

The value can be between 0 and 99999999.

Data Source

MSC

DCCCGDEST_CLRGR1

The number of calls ended in a specific clear code group.

Data Source

MSC

DCCCGDEST_CLRGR2

The number of calls ended in a specific clear code group.

Data Source

MSC

DCCCGDEST_CLRGR3

The number of calls ended in a specific clear code group.

Data Source

MSC

DCCCGDEST_CLRGR4

The number of calls ended in a specific clear code group.

Data Source

MSC

DCCCGDEST_CLRGR5

The number of calls ended in a specific clear code group.

Data Source

MSC

DCCCGDEST_CLRGR6

The number of calls ended in a specific clear code group.

Data Source

MSC

DCCCGDEST_CLRGR7

The number of calls ended in a specific clear code group.

Data Source

MSC

DCCCGDEST_CLRGR8

The number of calls ended in a specific clear code group.

Data Source

MSC

HSAVERAGE

Average number of home subscribers belonging to the HLR displayed in the same line, during the reporting period. For the calculation of the average, the number of home subscribers is interrogated at five minute intervals. The maximum number of different HLR addresses in a report is 40.

Data Source

MSC

INGAP_MANUAL

The number of calls gapped by the operator.

Data Source

MSC

INGAP_SCP_OVERLOAD

The number of gapped calls due to SCP overload.

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

NUMBEROFANSWERED

Number of successful answers received to the VLR authentication vector requests.

Data Source

MSC

NUMBEROFNOTANSWERED

Number of not answered authentication vector requests.

Data Source

MSC

NUMBEROFQUINTETS

Number of transferred authentication quintets.

Data Source

MSC

NUMBEROFREQUESTS

Number of authentication vector requests that were sent by the VLRs. The REQUEST contains the SYNCHRONISATION REQUEST.

Data Source

MSC

NUMBEROFSYNCREQ

The number of synchronisation request which can be sent when the mobile rejects the authentication because the sequence number is out of range.

Data Source

MSC

NUMBEROFTRIPLETS

Number of transferred authentication triplets.

Data Source

MSC

NUMBEROFUNKNOWNSUBSC

Number of subscribers whose data cannot be found in the AUC of the HLR.

Data Source

MSC

NWEISHLRIFVALUEIS_1

The allowed value for this counter is 1. If counter is sent in XML report with respective value it means that the network element is HLR, which sent the authentication vector. In ASCII report appears HLR in NWE column.

Data Source

MSC

NWEISPLMNIFVALUEIS_1

The allowed value for this counter is 1. If counter is sent in XML report with respective value it means that the network element is PLMN, which sent the authentication vector. In this case the HLR address of the subscriber is unknown and the VLR calculates the HLR address from IMSI. In ASCII report appears PLMN in NWE column.

Data Source

MSC

NWEISVLRIFVALUEIS_1

The allowed value for this counter is 1. If counter is sent in XML report with respective value it means that the network element is VLR, which sent the authentication vector. In ASCII report appears VLR in NWE column and the vectors came from the previous VLR after location update.

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

Equipment_BSC Primitive Calculations

The following is a list of primitive calculations for the Equipment_BSC entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

Equipment_BSC Peg Counts

The following is a list of peg counts for the Equipment_BSC entity.

AVAIL_TIME_DMR

The total duration of the available time

Data Source

BSS

Source Field

62001

Source Section

P_NBSC_DMR

AVAIL_TIME_TRE

The time when the connection of a certain level has been available.

Data Source

BSS

Source Field

680001

Source Section

P_NBSC_TRE

AVAIL_TIME_TRE_SEL

The time when the connection of a certain level has been available.

Data Source

BSS

Source Field

690001

Source Section

P_NBSC_TRE_SEL

BACKGROUND_BLOCK_ERR_TRE

The number of background block errors (BBE).

Data Source

BSS

Source Field

680004

Source Section

P_NBSC_TRE

BACKGROUND_BLOCK_ERR_TRE_SEL

The number of background block errors (BBE).

Data Source

BSS

Source Field

690004

Source Section

P_NBSC_TRE_SEL

BSSRelease

BSS Release

Data Source

BSS

DEGRADED_MIN_DMR

The total duration of the degraded minutes

Data Source

BSS

Source Field

62004

Source Section

P_NBSC_DMR

ERR_BLOCKS_TRE

The number of errored blocks (EB).

Data Source

BSS

Source Field

680005

Source Section

P_NBSC_TRE

ERR_BLOCKS_TRE_SEL

The number of errored blocks (EB).

Data Source

BSS

Source Field

690005

Source Section

P_NBSC_TRE_SEL

ERR_SEC_DMR

The total duration of the errored seconds

Data Source

BSS

Source Field

62002

Source Section

P_NBSC_DMR

ERR_SEC_SEVERE_DMR

The total duration of the severely errored seconds

Data Source

BSS

Source Field

62003

Source Section

P_NBSC_DMR

ERR_SEC_SEVERE_TRE

The severely errored seconds (SES).

Data Source

BSS

Source Field

680003

Source Section

P_NBSC_TRE

ERR_SEC_SEVERE_TRE_SEL

The severely errored seconds (SES).

Data Source

BSS

Source Field

690003

Source Section

P_NBSC_TRE_SEL

ERR_SEC_TRE

The errored seconds (ES).

Data Source

BSS

Source Field

680002

Source Section

P_NBSC_TRE

ERR_SEC_TRE_SEL

The errored seconds (ES).

Data Source

BSS

Source Field

690002

Source Section

P_NBSC_TRE_SEL

PERIOD_REAL_START_TIME_TRE_SEL

The real starting time of a period

Data Source

BSS

Source Section

P_NBSC_TRE_SEL

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

RF_INPUT_LEVEL_MAX_DMR

Incoming RF level max

Data Source

BSS

Source Field

62006

Source Section

P_NBSC_DMR

RF_INPUT_LEVEL_MAX_TRE

This function indicates the maximum value of the input level during the measurement period

Data Source

BSS

Source Field

68007

Source Section

P_NBSC_TRE

RF_INPUT_LEVEL_MAX_TRE_SEL

The maximum input level received during an observation period.

Data Source

BSS

Source Field

690007

Source Section

P_NBSC_TRE_SEL

RF_INPUT_LEVEL_MIN_DMR

Incoming RF level min

Data Source

BSS

Source Field

62005

Source Section

P_NBSC_DMR

RF_INPUT_LEVEL_MIN_TRE

This function indicates the minimum value of the input level during the measurement period

Data Source

BSS

Source Field

68006

Source Section

P_NBSC_TRE

RF_INPUT_LEVEL_MIN_TRE_SEL

The minimum input level received during observation period.

Data Source

BSS

Source Field

690006

Source Section

P_NBSC_TRE_SEL

TOTAL_TIME_DMR

The total duration of the time passed since the last reset of the counter

Data Source

BSS

Source Field

62000

Source Section

P_NBSC_DMR

TOTAL_TIME_TRE

The time passed during the counters have been

Data Source

BSS

Source Field

680000

Source Section

P_NBSC_TRE

TOTAL_TIME_TRE_SEL

The time passed during the counters have been

Data Source

BSS

Source Field

690000

Source Section

P_NBSC_TRE_SEL

Equipment_Cell Primitive Calculations

The following is a list of primitive calculations for the Equipment_Cell entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

1

Equipment_Cell Peg Counts

The following is a list of peg counts for the Equipment_Cell entity.

AVAIL_TIME_DMR

The total duration of the available time

Data Source

BSS

BSSRelease

BSS Release

Data Source

BSS

DEGRADED_MIN_DMR

The total duration of the degraded minutes

Data Source

BSS

ERR_SEC_DMR

The total duration of the errored seconds

Data Source

BSS

ERR_SEC_SEVERE_DMR

The total duration of the severely errored seconds

Data Source

BSS

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

RF_INPUT_LEVEL_MAX_DMR

Incoming RF level max

Data Source

BSS

RF_INPUT_LEVEL_MIN_DMR

Incoming RF level min

Data Source

BSS

TOTAL_TIME_DMR

The total duration of the time passed since the last reset of the counter

Data Source

BSS

Equipment_TRX Primitive Calculations

The following is a list of primitive calculations for the Equipment_TRX entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

1

Equipment_TRX Peg Counts

The following is a list of peg counts for the Equipment_TRX entity.

AVAIL_TIME_DMR

The total duration of the available time

Data Source

BSS

BSSRelease

BSS Release

Data Source

BSS

DEGRADED_MIN_DMR

The total duration of the degraded minutes

Data Source

BSS

ERR_SEC_DMR

The total duration of the errored seconds

Data Source

BSS

ERR_SEC_SEVERE_DMR

The total duration of the severely errored seconds

Data Source

BSS

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

RF_INPUT_LEVEL_MAX_DMR

Incoming RF level max

Data Source

BSS

RF_INPUT_LEVEL_MIN_DMR

Incoming RF level min

Data Source

BSS

TOTAL_TIME_DMR

The total duration of the time passed since the last reset of the counter

Data Source

BSS

ET Primitive Calculations

The following is a list of primitive calculations for the ET entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

ET Peg Counts

The following is a list of peg counts for the ET entity.

ET_AIS_RECEIVED_CTR_1

The number of "AIS received" disturbances of group 1. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_AIS_RECEIVED_CTR_2

The number of "AIS received" disturbances of group 2. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_AIS_RECEIVED_CTR_3

The number of "AIS received" disturbances of group 3. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_AIS_RECEIVED_CTR_4

The number of "AIS received" disturbances of group 4. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_CRC_ERROR_CODE

Error code concerning the CRC counters. Zero value means a successful report, nonzero value indicates that no CRC counters are present. The value is a general DX error code in decimal format.

Data Source

MSC

ET_DIST_ERROR_CODE

Error code concerning the short disturbances counters. Zero value means a successful report, nonzero value indicates that no disturbance counters are present. The value is a general DX error code in decimal format.

Data Source

MSC

ET_DISTURB_CTR_1_LOWER_LIMIT

The limits for statistics counters of disturbances. The disturbances are recorded according to the duration of the disturbance. This field indicates the limits expressed in milliseconds.

Data Source

MSC

ET_DISTURB_CTR_1_UPPER_LIMIT

The limits for statistics counters of disturbances. The disturbances are recorded according to the duration of the disturbance. This field indicates the limits expressed in milliseconds.

Data Source

MSC

ET_DISTURB_CTR_2_LOWER_LIMIT

The limits for statistics counters of disturbances. The disturbances are recorded according to the duration of the disturbance. This field indicates the limits expressed in milliseconds.

Data Source

MSC

ET_DISTURB_CTR_2_UPPER_LIMIT

The limits for statistics counters of disturbances. The disturbances are recorded according to the duration of the disturbance. This field indicates the limits expressed in milliseconds.

Data Source

MSC

ET_DISTURB_CTR_3_LOWER_LIMIT

The limits for statistics counters of disturbances. The disturbances are recorded according to the duration of the disturbance. This field indicates the limits expressed in milliseconds.

Data Source

MSC

ET_DISTURB_CTR_3_UPPER_LIMIT

The limits for statistics counters of disturbances. The disturbances are recorded according to the duration of the disturbance. This field indicates the limits expressed in milliseconds.

Data Source

MSC

ET_DISTURB_CTR_4_LOWER_LIMIT

The limits for statistics counters of disturbances. The disturbances are recorded according to the duration of the disturbance. This field indicates the limits expressed in milliseconds.

Data Source

MSC

ET_ERRONEOUS_V3_LOOPBACK_CTR_1

The number of "erroneous (unintentional) V3 loopback" disturbances of group 1. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_ERRONEOUS_V3_LOOPBACK_CTR_2

The number of "erroneous (unintentional) V3 loopback" disturbances of group 2. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_ERRONEOUS_V3_LOOPBACK_CTR_3

The number of "erroneous (unintentional) V3 loopback" disturbances of group 3. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_ERRONEOUS_V3_LOOPBACK_CTR_4

The number of "erroneous (unintentional) V3 loopback" disturbances of group 4. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_FRA_CTR_1_LOWER_LIMIT

Limits for the statistics counters of frame alignment loss. The bit error ratio is based on the erroneous frame alignment signals received during five seconds. The field indicates the counter limits (errors/5 seconds).

Data Source

MSC

ET_FRA_CTR_1_UPPER_LIMIT

Limits for the statistics counters of frame alignment loss. The bit error ratio is based on the erroneous frame alignment signals received during five seconds. The field indicates the counter limits (errors/5 seconds).

Data Source

MSC

ET_FRA_CTR_2_LOWER_LIMIT

Limits for the statistics counters of frame alignment loss. The bit error ratio is based on the erroneous frame alignment signals received during five seconds. The field indicates the counter limits (errors/5 seconds).

Data Source

MSC

ET_FRA_CTR_2_UPPER_LIMIT

Limits for the statistics counters of frame alignment loss. The bit error ratio is based on the erroneous frame alignment signals received during five seconds. The field indicates the counter limits (errors/5 seconds).

Data Source

MSC

ET_FRA_CTR_3_LOWER_LIMIT

Limits for the statistics counters of frame alignment loss. The bit error ratio is based on the erroneous frame alignment signals received during five seconds. The field indicates the counter limits (errors/5 seconds).

Data Source

MSC

ET_FRA_CTR_3_UPPER_LIMIT

Limits for the statistics counters of frame alignment loss. The bit error ratio is based on the erroneous frame alignment signals received during five seconds. The field indicates the counter limits (errors/5 seconds).

Data Source

MSC

ET_FRA_CTR_4_LOWER_LIMIT

Limits for the statistics counters of frame alignment loss. The bit error ratio is based on the erroneous frame alignment signals received during five seconds. The field indicates the counter limits (errors/5 seconds).

Data Source

MSC

ET_FRA_ERROR_CODE

Error code concerning the frame alignment error counters. Zero value means a successful report, nonzero value indicates that no frame alignment counters are present. The value is a general DX error code in decimal format.

Data Source

MSC

ET_FRAME_ALIGNMENT_ERROR_CTR_1

Counter 1 for frame alignment errors. Errors are counted using four counters depending on the number of errors within five seconds. The error limits are defined in the fields M145B2C49-M145B2C55.

Data Source

MSC

ET_FRAME_ALIGNMENT_ERROR_CTR_2

Counter 2 for frame alignment errors. Errors are counted using four counters depending on the number of errors within five seconds. The error limits are defined in the fields M145B2C49-M145B2C55.

Data Source

MSC

ET_FRAME_ALIGNMENT_ERROR_CTR_3

Counter 3 for frame alignment errors. Errors are counted using four counters depending on the number of errors within five seconds. The error limits are defined in the fields M145B2C49-M145B2C55.

Data Source

MSC

ET_FRAME_ALIGNMENT_ERROR_CTR_4

Counter 4 for frame alignment errors. Errors are counted using four counters depending on the number of errors within five seconds. The error limits are defined in the fields M145B2C49-M145B2C55.

Data Source

MSC

ET_FRAME_ALIGNMENT_LOST_CTR_1

The number of "frame alignment signal lost" disturbances of group 1. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_FRAME_ALIGNMENT_LOST_CTR_2

The number of "frame alignment signal lost" disturbances of group 2. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_FRAME_ALIGNMENT_LOST_CTR_3

The number of "frame alignment signal lost" disturbances of group 3. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_FRAME_ALIGNMENT_LOST_CTR_4

The number of "frame alignment signal lost" disturbances of group 4. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_IN_SIGNAL_MISSING_CTR_1

The number of "incoming signal missing" disturbances of group 1. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6- M145B2C12.

Data Source

MSC

ET_IN_SIGNAL_MISSING_CTR_2

The number of "incoming signal missing" disturbances of group 2. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6- M145B2C12.

Data Source

MSC

ET_IN_SIGNAL_MISSING_CTR_3

The number of "incoming signal missing" disturbances of group 3. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_IN_SIGNAL_MISSING_CTR_4

The number of "incoming signal missing" disturbances of group 4. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_LOCAL_END_AVAIL_TIME

CRC measurement: availability time at local end, given in 1/100 seconds.

Data Source

MSC

ET_LOCAL_END_BBE

Background block errors of local end.

Data Source

MSC

ET_LOCAL_END_DEGRADED_MINUTES

CRC measurement: percentage of degraded minutes at local end, given in 1/100 percents (the percentage value multiplied with 100).

Data Source

MSC

ET_LOCAL_END_ERROR_FREE_SEC

CRC measurement: percentage of error free seconds at local end, given in 1/100 percents (the percentage value multiplied with 100).

Data Source

MSC

ET_LOCAL_END_ERRORED_SECONDS

CRC measurement: percentage of errored seconds at local end, given in 1/100 percents (the percentage value multiplied with 100).

Data Source

MSC

ET_LOCAL_END_SER_ERRORED_SEC

CRC measurement: percentage of seriously errored seconds at local end, given in 1/100 percents (the percentage value multiplied with 100).

Data Source

MSC

ET_LOCAL_END_TOTAL_TIME

CRC measurement: total time at local end, given in 1/100 seconds.

Data Source

MSC

ET_LOCAL_END_UNAVAIL_TIME

CRC measurement: unavailability time at local end, given in 1/100 seconds.

Data Source

MSC

ET_LT_RECEIV_AIS_FROM_ET_CTR_1

The number of "LT has received AIS signal from ET" disturbances of group 1. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_LT_RECEIV_AIS_FROM_ET_CTR_2

The number of "LT has received AIS signal from ET" disturbances of group 2. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_LT_RECEIV_AIS_FROM_ET_CTR_3

The number of "LT has received AIS signal from ET" disturbances of group 5. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_LT_RECEIV_AIS_FROM_ET_CTR_4

The number of "LT has received AIS signal from ET" disturbances of group 4. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_NEGATIVE_SLIPS

Counter value for negative slips.

Data Source

MSC

ET_NT1_LOST_POWER_CTR_1

The number of "NT1 has lost power" disturbances of group 1. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_NT1_LOST_POWER_CTR_2

The number of "NT1 has lost power" disturbances of group 2. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_NT1_LOST_POWER_CTR_3

The number of "NT1 has lost power" disturbances of group 3. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_NT1_LOST_POWER_CTR_4

The number of "NT1 has lost power" disturbances of group 4. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_NT1_LOST_SIGNAL_CTR_1

The number of "NT1 lost signal from ET" disturbances of group 1. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C1-M145B2C7.

Data Source

MSC

ET_NT1_LOST_SIGNAL_CTR_2

The number of "NT1 lost signal from ET" disturbances of group 2. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_NT1_LOST_SIGNAL_CTR_3

The number of "NT1 lost signal from ET" disturbances of group 3. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_NT1_LOST_SIGNAL_CTR_4

The number of "NT1 lost signal from ET" disturbances of group 4. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_NT1_LOST_SIGNAL_OR_FR_CTR_1

The number of "NT1 lost signal or frame alignment" disturbances of group 1. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_NT1_LOST_SIGNAL_OR_FR_CTR_2

The number of "NT1 lost signal or frame alignment" disturbances of group 2. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_NT1_LOST_SIGNAL_OR_FR_CTR_3

The number of "NT1 lost signal or frame alignment" disturbances of group 3. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_NT1_LOST_SIGNAL_OR_FR_CTR_4

The number of "NT1 lost signal or frame alignment" disturbances of group 4. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_NT1_T_AVAIL_TIME

CRC measurement: availability time at NT1 T reference point, given in 1/100 seconds.

Data Source

MSC

ET_NT1_T_DEGRADED_MINUTES

CRC measurement: percentage of degraded minutes at NT1 T reference point, given in 1/100 percents (the percentage value multiplied with 100).

Data Source

MSC

ET_NT1_T_ERROR_FREE_SEC

CRC measurement: percentage of error free seconds at NT1 T reference point, given in 1/100 percents (the percentage value multiplied with 100).

Data Source

MSC

ET_NT1_T_ERRORED_SECONDS

CRC measurement: percentage of errored seconds at NT1 T reference point, given in 1/100 percents (the percentage value multiplied with 100).

Data Source

MSC

ET_NT1_T_SER_ERRORED_SEC

CRC measurement: percentage of seriously errored seconds at NT1 T reference point, given in 1/100 percents (the percentage value multiplied with 100).

Data Source

MSC

ET_NT1_T_TOTAL_TIME

CRC measurement: total time at NT1 T reference point, given in 1/100 seconds.

Data Source

MSC

ET_NT1_T_UNAVAIL_TIME

CRC measurement: unavailability time at NT1 T reference point, given in 1/100 seconds.

Data Source

MSC

ET_POSITIVE_SLIPS

Counter value for positive slips.

Data Source

MSC

ET_REMOTE_END_ALARM_CTR_1

The number of "remote end alarm" disturbances of group 1. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_REMOTE_END_ALARM_CTR_2

The number of "remote end alarm" disturbances of group 2. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_REMOTE_END_ALARM_CTR_3

The number of "remote end alarm" disturbances of group 3. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_REMOTE_END_ALARM_CTR_4

The number of "remote end alarm" disturbances of group 4. Disturbances are divided into four groups according to the duration of the disturbance. The disturbance limits are defined in the fields M145B2C6-M145B2C12.

Data Source

MSC

ET_REMOTE_END_AVAIL_TIME

CRC measurement: availability time at remote end, given in 1/100 seconds.

Data Source

MSC

ET_REMOTE_END_BBE

Background block errors of remote end.

Data Source

MSC

ET_REMOTE_END_DEGRADED_MINUTES

CRC measurement: percentage of degraded minutes at remote end, given in 1/100 percents (the percentage value multiplied with 100).

Data Source

MSC

ET_REMOTE_END_ERROR_FREE_SEC

CRC measurement: percentage of error free seconds at remote end, given in 1/100 percents (the percentage value multiplied with 100).

Data Source

MSC

ET_REMOTE_END_ERRORED_SECONDS

CRC measurement: percentage of errored seconds at remote end, given in 1/100 percents (the percentage value multiplied with 100).

Data Source

MSC

ET_REMOTE_END_SER_ERRORED_SEC

CRC measurement: percentage of seriously errored seconds at remote end, given in 1/100 percents (the percentage value multiplied with 100).

Data Source

MSC

ET_REMOTE_END_TOTAL_TIME

CRC measurement: total time at remote end, given in 1/100 seconds.

Data Source

MSC

ET_REMOTE_END_UNAVAIL_TIME

CRC measurement: unavailability time at remote end, given in 1/100 seconds.

Data Source

MSC

ET_SLIP_ERROR_CODE

Error code concerning the slip counters. Zero value means a successful report, nonzero value indicates that no slip counters are present. The value is a general DX error code in decimal format.

Data Source

MSC

ET_TE_AVAIL_TIME

CRC measurement: availability time at TE, given in 1/100 seconds.

Data Source

MSC

ET_TE_DEGRADED_MINUTES

CRC measurement: percentage of degraded minutes at TE, given in 1/100 percents (the percentage value multiplied with 100).

Data Source

MSC

ET_TE_ERROR_FREE_SEC

CRC measurement: percentage of error free seconds at TE, given in 1/100 percents (the percentage value multiplied with 100).

Data Source

MSC

ET_TE_ERRORED_SECONDS

CRC measurement: percentage of errored seconds at TE, given in 1/100 percents (the percentage value multiplied with 100).

Data Source

MSC

ET_TE_SER_ERRORED_SEC

CRC measurement: percentage of seriously errored seconds at TE, given in 1/100 percents (the percentage value multiplied with 100).

Data Source

MSC

ET_TE_TOTAL_TIME

CRC measurement: total time at TE, given in 1/100 seconds.

Data Source

MSC

ET_TE_UNAVAIL_TIME

CRC measurement: unavailability time at TE, given in 1/100 seconds.

Data Source

MSC

ET_TOTAL_ERROR_CODE

Error code concerning the whole report. Zero value means a successful report, nonzero value indicates that no counters are present. The value is a general DX error code in decimal format.

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

Ethernet_BSC Primitive Calculations

The following is a list of primitive calculations for the Ethernet_BSC entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Ethernet_BSC Peg Counts

The following is a list of peg counts for the Ethernet_BSC entity.

ERRORED_ETH_FRAMES_BSC

Number of received error Ethernet frames. Unit of the counter is 1000 Ethernet frames.

Data Source

BSS

Source Field

115001

Source Section

P_NBSC_ETHERNET_BSC

RECEIVED_ETH_FRAMES_BSC

Number of received Ethernet frames contain errored and non-errored frames. Unit of the counter is 1000 Ethernet frames.

Data Source

BSS

Source Field

115000

Source Section

P_NBSC_ETHERNET_BSC

RECEIVED_OCTETS_BSC

Number of octets in valid frames received on the interface.

Data Source

BSS

Source Field

115003

Source Section

P_NBSC_ETHERNET_BSC

TRANSMITTED_ETH_FRAMES_BSC

Number of transmitted Ethernet frames. Unit of the counter is 1000 Ethernet frames.

Data Source

BSS

Source Field

115002

Source Section

P_NBSC_ETHERNET_BSC

TRANSMITTED_OCTETS_BSC

Number of octets in valid frames sent on the interface.

Data Source

BSS

Source Field

115004

Source Section

P_NBSC_ETHERNET_BSC

Ethernet_TCSM Primitive Calculations

The following is a list of primitive calculations for the Ethernet_TCSM entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Ethernet_TCSM Peg Counts

The following is a list of peg counts for the Ethernet_TCSM entity.

ERRORED_ETH_FRAMES_TCSM

Number of received errored Ethernet frames.

Data Source

BSS

Source Field

117001

Source Section

P_NBSC_ETHERNET_TCSM

RECEIVED_ETH_FRAMES_TCSM

Number of received Ethernet frames containing errored and non-errored frames.

Data Source

BSS

Source Field

117000

Source Section

P_NBSC_ETHERNET_TCSM

RECEIVED_OCTETS_TCSM

Number of octets in valid frames received on the interface.

Data Source

BSS

Source Field

117003

Source Section

P_NBSC_ETHERNET_TCSM

TRANSMITTED_ETH_FRAMES_TCSM

Number of transmitted Ethernet frames.

Data Source

BSS

Source Field

117002

Source Section

P_NBSC_ETHERNET_TCSM

TRANSMITTED_OCTETS_TCSM

Number of octets in valid frames sent on the interface.

Data Source

BSS

Source Field

117004

Source Section

P_NBSC_ETHERNET_TCSM

GBS_Data_AIUR Primitive Calculations

The following is a list of primitive calculations for the GBS_Data_AIUR entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

GBS_Data_AIUR Peg Counts

The following is a list of peg counts for the GBS_Data_AIUR entity.

DSA_NTP_HANDOVER_14_4

Number of handovers that have resulted a channel configuration change are updated in a following way. A channel configuration change that enables the data rate requested (AIUR) by MS are counted separately from changes that have resulted a downgrade to channel configuration. The following separate counters are used for both cases above.

Data Source

MSC

DSA_NTP_HANDOVER_9_6

Number of handovers that have resulted a channel configuration change are updated in a following way. A channel configuration change that enables the data rate requested (AIUR) by MS are counted separately from changes that have resulted a downgrade to channel configuration. The following separate counters are used for both cases above.

Data Source

MSC

DSA_NTP_HO_DWNGR_14_4

Number of handovers that have resulted a channel configuration change are updated in a following way. A channel configuration change that enables the data rate requested (AIUR) by MS are counted separately from changes that have resulted a downgrade to channel configuration.

Data Source

MSC

DSA_NTP_HO_DWNGR_9_6

Number of handovers that have resulted channel configuration change are updated in a following way. A channel configuration change that enables the data rate requested (AIUR) by MS are counted separately from changes that have resulted a downgrade to channel configuration.

Data Source

MSC

DSA_NTP_MODIFY_14_4

Number of user initiated service level upand downgrading attempts (0...999999) that have been started during the measurement period. The requested speed is updated according to highest accepted channel.

Data Source

MSC

DSA_NTP_MODIFY_9_6

Number of user initiated service level upand downgrading attempts (0...999999) that have been started during the measurement period. The requested speed is updated according to highest accepted channel.

Data Source

MSC

DSA_NTP_SETUP_14_4

Number of setup attempts (0...999999) that have been started during the measurement period are counted per requested data rate. The requested data rate is updated according to highest accepted channel.

Data Source

MSC

DSA_NTP_SETUP_9_6

Number of setup attempts (0...999999) that have been started during the measurement period are counted per requested data rate. The requested data rate is updated according to highest accepted channel.

Data Source

MSC

DSA_NTP_TCH1

Maximum number of traffic channels (MS to network direction) allowed by MS. Possible values are TCH1..TCH8.

Data Source

MSC

DSA_NTP_TCH2

Maximum number of traffic channels (MS to network direction) allowed by MS. Possible values are TCH1..TCH8.

Data Source

MSC

DSA_NTP_TCH3

Maximum number of traffic channels (MS to network direction) allowed by MS. Possible values are TCH1..TCH8.

Data Source

MSC

DSA_NTP_TCH4

Maximum number of traffic channels (MS to network direction) allowed by MS. Possible values are TCH1..TCH8.

Data Source

MSC

DSA_NTP_TCH5

Maximum number of traffic channels (MS to network direction) allowed by MS. Possible values are TCH1..TCH8.

Data Source

MSC

DSA_NTP_TCH6

Maximum number of traffic channels (MS to network direction) allowed by MS. Possible values are TCH1..TCH8.

Data Source

MSC

DSA_NTP_TCH7

Maximum number of traffic channels (MS to network direction) allowed by MS. Possible values are TCH1..TCH8.

Data Source

MSC

DSA_NTP_TCH8

Maximum number of traffic channels (MS to network direction) allowed by MS. Possible values are TCH1..TCH8.

Data Source

MSC

DSA_NTP_USAGE_14_4

Number of successful attempts that have been started with the speed requested during the measurement period are counted per used channel.

Data Source

MSC

DSA_NTP_USAGE_9_6

Number of successful attempts that have been started with the speed requested during the measurement period are counted per used channel.

Data Source

MSC

DSA_NTP_USG_DWNGR_14_4

Number of successful attempts that have been started with the speed requested during the measurement period are counted per used channel coding. If the channel configuration does not

enable the requested speed, the used speed and channel coding are counted into separate counters.

Data Source

MSC

DSA_NTP_USG_DWNGR_9_6

Number of successful attempts that have been started with the speed requested during the measurement period are counted per used channel coding. If the channel configuration does not enable the requested speed, the used speed and channel coding are counted into separate counters.

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

GBS_Data_AIUR_UMTS Primitive Calculations

The following is a list of primitive calculations for the GBS_Data_AIUR_UMTS entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

GBS_Data_AIUR_UMTS Peg Counts

The following is a list of peg counts for the GBS_Data_AIUR_UMTS entity.

DSA_UMTS_NTP_RATE_CHG

Number of in-band informed rate changes (0...999999) that have been started during the measurement period. Those cases are counted separately when the mobile gets lower data rate than requested (downgraded). When the rate is changed due to the handover it is also updated in this counters.

Data Source

MSC

DSA_UMTS_NTP_RATECH_DWNGR

Number of in-band informed rate changes (0...999999) that have been started during the measurement period. Those cases are counted separately when the mobile gets lower data rate than requested (downgraded). When the rate is changed due to the handover it is also updated in this counters.

Data Source

MSC

DSA_UMTS_NTP_SETUP

Number of setup attempts (0...999999) that have been started during the measurement period are counted per requested data rate.

Data Source

MSC

DSA_UMTS_NTP_USAGE

Number of successful attempts (0...999999) that have been started during the measurement period are counted per used data rate. If the network cannot provide the requested speed than it is counted separately (downgraded).

Data Source

MSC

DSA_UMTS_NTP_USAGE_DWNGR

Number of successful attempts (0...999999) that have been started during the measurement period are counted per used data rate. If the network cannot provide the requested speed than it is counted separately (downgraded).

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

GBS_Data_FNUR Primitive Calculations

The following is a list of primitive calculations for the GBS_Data_FNUR entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

GBS_Data_FNUR Peg Counts

The following is a list of peg counts for the GBS_Data_FNUR entity.

DSA_TP_HANDOVER_14_4

Number of channel configuration changes resulting the use of 14.4 kbit/s channel.

Data Source

MSC

DSA_TP_HANDOVER_9_6

Number of channel configuration changes resulting the use of 9.6 kbit/s channel.

Data Source

MSC

DSA_TP_SETUP_14_4

Number of setup attempts (0...999999) that have been started during the measurement period are counted per requested data rate. The requested data rate is updated according to highest accepted channel

Data Source

MSC

DSA_TP_SETUP_9_6

Number of setup attempts (0...999999) that have been started during the measurement period are counted per requested data rate. The requested data rate is updated according to highest accepted channel.

Data Source

MSC

DSA_TP_TCH1

Maximum number of traffic channels (MS to network direction) allowed by MS. Possible values are TCH1..TCH8.

Data Source

MSC

DSA_TP_TCH2

Maximum number of traffic channels (MS to network direction) allowed by MS. Possible values are TCH1..TCH8.

Data Source

MSC

DSA_TP_TCH3

Maximum number of traffic channels (MS to network direction) allowed by MS. Possible values are TCH1..TCH8.

Data Source

MSC

DSA_TP_TCH4

Maximum number of traffic channels (MS to network direction) allowed by MS. Possible values are TCH1..TCH8.

Data Source

MSC

DSA_TP_TCH5

Maximum number of traffic channels (MS to network direction) allowed by MS. Possible values are TCH1..TCH8.

Data Source

MSC

DSA_TP_TCH6

Maximum number of traffic channels (MS to network direction) allowed by MS. Possible values are TCH1..TCH8.

Data Source

MSC

DSA_TP_TCH7

Maximum number of traffic channels (MS to network direction) allowed by MS. Possible values are TCH1..TCH8.

Data Source

MSC

DSA_TP_TCH8

Maximum number of traffic channels (MS to network direction) allowed by MS. Possible values are TCH1..TCH8.

Data Source

MSC

DSA_TP_USAGE_14_4

Number of successful call attempts using 14.4 kbit/s channel.

Data Source

MSC

DSA_TP_USAGE_9_6

Number of successful call attempts using 9.6 kbit/s channel.

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

GBS_Data_FNUR_UMTS Primitive Calculations

The following is a list of primitive calculations for the GBS_Data_FNUR_UMTS entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

GBS_Data_FNUR_UMTS Peg Counts

The following is a list of peg counts for the GBS_Data_FNUR_UMTS entity.

DSA_UMTS_TP_FALLBACK

DSA_UMTS_TP_FALLBACK

Data Source

MSC

DSA_UMTS_TP_HANDOVER

The number of successful inter system handover from GSM to UMTS (0...999999). This also contains the number of intra UMTS handovers.

Data Source

MSC

DSA_UMTS_TP_SETUP

Number of setup attempts (0...999999) that have been started during the measurement period are counted per requested data rate.

Data Source

MSC

DSA_UMTS_TP_USAGE

Number of successful attempts (0...999999) that have been started during the measurement period are counted per used data rate. There is a separate counter for fallback. This can happen when the mobile request 33.6 kbit/s connection.

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

IN_Service Primitive Calculations

The following is a list of primitive calculations for the IN_Service entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

IN_Service Peg Counts

The following is a list of peg counts for the IN_Service entity.

INGAP_MANUAL

The number of calls gapped by the operator.

Data Source

MSC

INGAP_SCP_OVERLOAD

The number of gapped calls due to SCP overload.

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

LA Primitive Calculations

The following is a list of primitive calculations for the LA entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

LA Peg Counts

The following is a list of peg counts for the LA entity.

AnswerTime

The average time between the last paging request message and the corresponding paging response (during a paging) is shown in the ANS.TIME field in tenth of second. If there is not any successful paging this counter is not applicable.

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

NSAVERAGE

Average number of normal subscribers for each location area during the reporting period. For the calculation of the average, the number of subscribers in the location area is interrogated at five-minute intervals. The maximum number of location areas in a report is 40.

Data Source

MSC

NSCURRENT

Number of normal subscribers for each location area at the reporting time. The maximum number of location areas in a report is 40.

Data Source

MSC

PagingAttemptPerLA

Number of initiated pagings from the VLR to the specific LA. This counter contains the paging of both Normal and Telemetric subscribers. Searchings, PS domain pagings are not included in this counter. This counter is not updated when the subscriber is busy during the paging.

Data Source

MSC

PagingAttemptWithIMSiFail

The number of paging attempt with IMSI for failed pagings (ATT#(FAIL)) counters show how many paging requests were sent to the A and Iu interfaces (from MSC) per LAC when the paging failed.

Data Source

MSC

PagingAttemptWithIMSiSucc

The number of paging attempt with IMSI for successful pagings (ATT#(SUCC)) counters show how many paging requests were sent to the A and Iu interfaces (from MSC) per LAC when the paging was successful.

Data Source

MSC

PagingAttemptWithTMSiFail

The number of paging attempt with TMSI for failed pagings (ATT#(FAIL)) counters show how many paging requests were sent to the A and Iu interfaces (from MSC) per LAC when the paging failed.

Data Source

MSC

PagingAttemptWithTMSiSucc

The number of paging attempt with TMSI for successful pagings (ATT#(SUCC)) counters show how many paging requests were sent to the A and Iu interfaces (from MSC) per LAC when the paging was successful.

Data Source

MSC

PagingSuccPerLA

Number of successful pagings in VLR in the specific LA. This counter contains the paging of both Normal and Telemetric subscribers. Searchings, PS domain pagings are not included in this counter. This counter is not updated when the subscriber is busy during the paging.

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

PREVENTED_PAGING

Indicates the number of pagings failed in the specific LA because of paging prevention. The trigger point for this counter update is when the VLR receives a Paging Result with NOK and the cause code is CALL TERMINATED BY OPER. The counter is optional and available only when the LAC based paging prevention feature is active.

Data Source

MSC

Source Field

M353B3C8

Source Section

RNS_P_MEAS_PPLAC_O2

TELEMETRICSUBSCRIBERSCAT1

Current number of telemetric subscribers category 1 for each location area at the reporting time. The maximum number of location areas in a report is 40. The telemetric subscribers category 1, 2, and 3 will be presented only in case when the feature is active.

Data Source

MSC

TELEMETRICSUBSCRIBERSCAT2

Current number of telemetric subscribers category 2 for each location area at the reporting time. The maximum number of location areas in a report is 40. The telemetric subscribers category 1, 2, and 3 will be presented only in case when the feature is active.

Data Source

MSC

TELEMETRICSUBSCRIBERSCAT3

Current number of telemetric subscribers category 3 for each location area at the reporting time. The maximum number of location areas in a report is 40. The telemetric subscribers category 1, 2, and 3 will be presented only in case when the feature is active.

Data Source

MSC

LAPD Primitive Calculations

The following is a list of primitive calculations for the LAPD entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

LAPD Peg Counts

The following is a list of peg counts for the LAPD entity.

CLOCK_SGN_MISS

Clock signal missings

Data Source

MSC

CRC_ERR

CRC errors

Data Source

MSC

DL_DATA_IND

Number of DL-DATA-INDICATIONS

Data Source

MSC

DL_DATA_REQ

Number of DL-DATA-REQUESTS

Data Source

MSC

DL_DATA_REQ_DEL

Deleted DL-DATA-REQUESTS

Data Source

MSC

DL_UNIT_DATA_IND

Number of DL-UNIT-DATA-INDICATIONS

Data Source

MSC

DL_UNIT_DATA_REQ

Number of DL-UNIT-DATA-REQUESTS

Data Source

MSC

DMC_MSG_BUFF_OVERFL

DMC message buffer overflows

Data Source

MSC

FRAME_ERR

Frame errors

Data Source

MSC

I_FRAME_OCT_REC

Received I frame octets

Data Source

MSC

I_FRAME_OCT_TRANS

Transmitted I frame octets

Data Source

MSC

I_FRAMES_DEL

Deleted I frames in window

Data Source

MSC

I_FRAMES_REC

Received I frames

Data Source

MSC

I_FRAMES_TRANS

Transmitted I frames

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

N201_ERR

N201 error (cntr O)

Data Source

MSC

NR_ERR

N(R) error (cntr J)

Data Source

MSC

PEER_INIT_RE_ESTAB

Peer initiated re-establishment (cntr F)

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

REC_FRAME_WRONG_SIZE

Receipt of frame with wrong size (cntr N)

Data Source

MSC

REC_FRMR_RESP

Receipt of FRMR response (cntr K)

Data Source

MSC

REC_I_FIELD_NOT_PERM

Receipt of I field not permitted (cntr M)

Data Source

MSC

REC_NON_IMPL_FRAME

Receipt of non-implemented frame (cntr L)

Data Source

MSC

REC_UNCON_DM_F0

Receipt of unsolicited DM, F=0 (cntr E)

Data Source

MSC

REC_UNCON_DM_F1

Receipt of unsolicited DM, F=1 (cntr B)

Data Source

MSC

REC_UNCON_RR_RNR_REJ_F1

Receipt of unsolicited RR/RNR/REJ, F=1 (cntr A)

Data Source

MSC

REC_UNCON_UA_F0

Receipt of unsolicited UA, F=0 (cntr D)

Data Source

MSC

REC_UNCON_UA_F1

Receipt of unsolicited UA, F=1 (cntr C)

Data Source

MSC

T200_EXP

T200 expiries

Data Source

MSC

TOT_OCT_REC

Received total octet count

Data Source

MSC

TOT_OCT_TRANS

Transmitted total octet count

Data Source

MSC

UI_FRAME_OCT_REC

Received UI frame octets

Data Source

MSC

UI_FRAME_OCT_TRANS

Transmitted UI frame octets

Data Source

MSC

UI_FRAMES_REC

Received UI frames

Data Source

MSC

UI_FRAMES_TRANS

Transmitted UI frames

Data Source

MSC

UNSUC_RETRANS_DISC

Unsuccessful retransmission of DISC (cntr H)

Data Source

MSC

UNSUC_RETRANS_SABME

Unsuccessful retransmission of SABME (cntr G)

Data Source

MSC

UNSUC_RETRANS_STAT_ENQ

Unsuccessful retransmission of status inquiry (cntr I)

Data Source

MSC

Link Primitive Calculations

The following is a list of primitive calculations for the Link entity.

CHANNEL_UTIL_SLR

Peak load in milli Erlangs for incoming and outgoing traffic during a 30-minute period.

Calculation

`MIN_30_PEAKLOAD_TRAFFIC_IN + MIN_30_PEAKLOAD_TRAFFIC_OUT`

DURATION_CONG1_3

Duration of Congestion (all 3 levels)

Calculation

`CUMULATIVE_DURATION_LEVEL1 + CUMULATIVE_DURATION_LEVEL2 +
CUMULATIVE_DURATION_LEVEL3`

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

`" "`

MSU_LOSS_CONG1_3_SLR

Number of lost events due to Congestion (all 3 levels)

Calculation

`EVENTS_RES_IN_LOSS_OF_MSUS_L1 + EVENTS_RES_IN_LOSS_OF_MSUS_L2 +
EVENTS_RES_IN_LOSS_OF_MSUS_L3`

NUMDAYS

of days in Report

Calculation

`DAYSINREPORT ()`

NUMHOURS

of hours in Summation Data

Calculation

PER_RETRANSMITS_SLR

Percentage of SIF Octets Retransmitted

Calculation

$$100 * (\text{OCTETS_RETRANSMITTED} / \text{SIF_AND_SIO_OCTETS_TRANSMITTED})$$

rg_reap

ReportGenerator Internal Count

Calculation

$$\text{PERLENSEC}$$

SIF_TRANSMITTED_SLR

SIF Transmitted Octets per MSU

Calculation

$$1.0 * (\text{SIF_AND_SIO_OCTETS_TRANSMITTED} - \text{MSUS_TRANSMITTED}) / \text{MSUS_TRANSMITTED}$$

Link Peg Counts

The following is a list of peg counts for the Link entity.

AUTOMATIC_CHANGEBACKS

Automatic changeback (1.11 in ITU-TQ.752)

Data Source

MSC

AUTOMATIC_CHANGEOVERS

Automatic changeover (1.10 in ITU-TQ.752)

Data Source

MSC

BITRATE

Signalling link bit rate Kbit/s

Data Source

MSC

CUMULATIVE_DURATION_LEVEL1

Cumulative duration of signalling link congestion (level 1) (3.7 in ITU-T Q.752). Unit is in seconds.

Data Source

MSC

CUMULATIVE_DURATION_LEVEL2

Cumulative duration of signalling link congestion (level 2). Unit is in seconds.

Data Source

MSC

CUMULATIVE_DURATION_LEVEL3

Cumulative duration of signalling link congestion (level 3). Unit is in seconds.

Data Source

MSC

DUR_IN_SERVICE_STATE

Duration of signalling link in the in-service state (1.1 in ITU-T Q.752) (seconds)

Data Source

MSC

DUR_OF_INHIBIT_LOC_MANAG_ACT

Duration of signalling link inhibition due to local management actions (2.5 in ITU-T Q.752) (seconds)

Data Source

MSC

DUR_OF_INHIBIT_REM_MANAG_ACT

Duration of signalling link inhibition due to remote management actions (2.6 in ITU-T Q.752) (seconds)

Data Source

MSC

DUR_OF_LOCAL_BUSY

Duration of local busy (number of SIBs). (2.15 in ITU-T Q.752)

Data Source

MSC

DUR_OF_LOCAL_BUSY_ATM

Duration of local busy (ATM) (2.15 in ITU-T Q.752).

Data Source

MSC

DUR_OF_UNAVAIL

Duration of signalling link unavailability for any reason (2.1 in ITU-T Q.752) (seconds)

Data Source

MSC

DUR_OF_UNAVAIL_LINK_FAILURE

Duration of signalling link unavailability due to link failure (2.7 in ITU-T Q.752) (seconds)

Data Source

MSC

DUR_OF_UNAVAIL_LOCAL_BLOCKING

Duration of signalling link unavailability due to local blocking (2.8 in ITU-T Q.752) (seconds)

Data Source

MSC

DUR_OF_UNAVAIL_REM_PROC_OUTAGE

Duration of signalling link unavailability due to remote processor outage (2.9 in ITU-T Q.752) (seconds)

Data Source

MSC

EVENTS_RES_IN_LOSS_OF_MSUS_L1

Number of times congestion discard level 1 threshold exceeded.

Data Source

MSC

EVENTS_RES_IN_LOSS_OF_MSUS_L2

Number of times congestion discard level 2 threshold exceeded.

Data Source

MSC

EVENTS_RES_IN_LOSS_OF_MSUS_L3

Number of times congestion discard level 3 threshold exceeded.

Data Source

MSC

LINK_FAILURES_ABNORM_FIBR_BSNR

Signalling link failure - abnormal FIBR/BSNR (TDM) (1.3 in ITU-T Q.752, not used if link type = 1)

Data Source

MSC

LINK_FAILURES_ALI_OR_PROV_FAIL

Signalling link alignment or proving failure (1.7 in ITU-T Q.752)

Data Source

MSC

LINK_FAILURES_ALL_REASONS

Signalling link failures - all reasons (1.2 in ITU-T Q.752)

Data Source

MSC

LINK_FAILURES_EXC_DEL_OF_ACK

Caused by excessive delay of acknowledgement (TDM)(1.4 in ITU-T Q.752),

Data Source

MSC

LINK_FAILURES_EXC_DUR_OF_CONG

Signalling link failure - excessive duration of congestion (1.6 in ITU-T Q.752)

Data Source

MSC

LINK_FAILURES_EXC_ERROR_RATE

Signalling link failure - excessive error rate (1.5 in ITU-T Q.752)

Data Source

MSC

LINK_FAILURES_M_ERR_IND_SD_LOS

MAA-ERROR indication with Error Type SD loss (ATM) (1.7 in ITU-T Q.2144, not used if link type = 0)

Data Source

MSC

LINK_RESTORATIONS

Signalling link restoration (1.12 in ITU-T Q.752)

Data Source

MSC

LINK_TYPE_MTPMSC

Link type (0=TDM, 1=ATM)

Data Source

MSC

LINK_TYPE_SLMSC

Link type (0=TDM, 1=ATM)

Data Source

MSC

LINK_TYPE_SLPMSC

Link type (0=TDM, 1=ATM)

Data Source

MSC

LOC_MANAG_INHIBIT

Local management inhibit (2.13 in ITU-T Q.752)

Data Source

MSC

LOC_MANAG_UNINHIBITED

Local management uninhibit (2.14 in ITU-T Q.752)

Data Source

MSC

LOCAL_MANUAL_CHANGEOVERS

Local manual changeovers and changeovers due to system recovery actions (2.2 in ITU-T Q.752)

Data Source

MSC

MIN_30_PEAK_TRAF_IN_STARTED

Start time of the 30 minutes freezing period when the peak congestion for the incoming traffic was noticed. (Measured as minutes from measurement period start time.)

Data Source

MSC

MIN_30_PEAK_TRAF_OUT_STARTED

Start time of the 30 minutes freezing period when the peak congestion for the outgoing traffic was noticed. (Measured as minutes from measurement period start time.)

Data Source

MSC

MIN_30_PEAKLOAD_TRAFFIC_IN

30 minutes peak load in milliErlangs for incoming traffic

Data Source

MSC

MIN_30_PEAKLOAD_TRAFFIC_OUT

30 minutes peak load in milliErlangs for outgoing traffic

Data Source

MSC

MIN_5_PEAK_TRAF_IN_STARTED

Start time of the 5 minutes freezing period when the peak congestion for incoming traffic was noticed (Measured as minutes from measurement period start time.)

Data Source

MSC

MIN_5_PEAK_TRAF_OUT_STARTED

Start time of the 5 minutes freezing period when the peak congestion for outgoing traffic was noticed. (Measured as minutes from measurement period start time.)

Data Source

MSC

MIN_5_PEAKLOAD_TRAFFIC_IN

5 minutes peak load in milliErlangs for incoming traffic

Data Source

MSC

MIN_5_PEAKLOAD_TRAFFIC_OUT

5 minutes peak load in milliErlangs for outgoing traffic

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

MSUS_DISCARDED_LEVEL1

Number of message signal units (MSU) discarded due to signalling link congestion (level 1)
(3.10 in ITU-T Q.752)

Data Source

MSC

MSUS_DISCARDED_LEVEL2

Number of message signal units (MSU) discarded due to signalling link congestion (level 2).

Data Source

MSC

MSUS_DISCARDED_LEVEL3

Number of message signal units (MSU) discarded due to signalling link congestion (level 3)

Data Source

MSC

MSUS_RECEIVED

Number of message signal units received (3.5 in ITU-T Q.752)

Data Source

MSC

MSUS_TRANSMITTED

Number of message signal units transmitted 3.3 in ITU-T Q.752)

Data Source

MSC

NEGATIVE_ACKS

Number of negative acknowledgements received (TDM) (1.9 in ITU-T Q.752, not used if link is ATM link)

Data Source

MSC

OCTETS_RETRANSMITTED

Number of octets retransmitted (3.2 in ITU-T Q.752)

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

REM_INHIBIT

Start of remote inhibition (2.18 in ITU-T Q.752)

Data Source

MSC

REM_PROC_OUTAGE_START

Start of remote processor outage (2.10 in ITU-T Q.752)

Data Source

MSC

REM_PROC_OUTAGE_STOP

Stop of remote processor outage (2.11 in ITU-T Q.752)

Data Source

MSC

REM_UNINHIBITED

End of remote inhibition (2.19 in ITU-T Q.752)

Data Source

MSC

REMOTE_INITIATIVE_CHANGEOVERS

Remote initiative changeovers (2.3 in ITU-T Q.752)

Data Source

MSC

SIF_AND_SIO_OCTETS_RECEIVED

Number of received SIF and SIO octets (3.4 in ITU-T Q.752)

Data Source

MSC

SIF_AND_SIO_OCTETS_TRANSMITTED

Number of SIF and SIO octets transmitted (3.1 in ITU-T Q.752).

Data Source

MSC

SIGN_UNITS_RECEIVED_IN_ERROR

Number of signal units received in error (TDM) (1.8 in ITU-T Q.752, not used if link is ATM link)

Data Source

MSC

SL_CONGESTION_LEVEL1

Number of times congestion onset level 1 threshold exceeded.

Data Source

MSC

SL_CONGESTION_LEVEL2

Number of times congestion onset level 2 threshold exceeded.

Data Source

MSC

SL_CONGESTION_LEVEL3

Number of times congestion onset level 3 threshold exceeded.

Data Source

MSC

MEGACO Primitive Calculations

The following is a list of primitive calculations for the MEGACO entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

MEGACO Peg Counts

The following is a list of peg counts for the MEGACO entity.

DUPLICTRANSACTIONSFORREQUESTS

Represents the total number of duplicated transactions detected in incoming requests during the measurement period

Data Source

MSC

LOSTTRANSACTIONSFORREQUESTS

Represents the total number of lost transactions in incoming replies during the measurement period

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

NotReliable

If counter is sent with value 1 it means that counters for different events and the counters in GENERAL DATA and LINK RELATED POINTERS part are not reliable

Data Source

MSC

NUMBOFEVENTSINREPLIES

Total number of the respective event (event presented in local Moid by its code), detected in incoming replies during the measurement period.

Data Source

MSC

NUMBOFEVENTSINREQUESTS

Total number of the respective event (event presented in local Moid by its code), detected in incoming requests during the measurement period.

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

RETRANTRANSACTIONSFORREQUESTS

Representsthetotalnumberofretransmitted transactions in incoming replies during the measurement period

Data Source

MSC

TOTALNUMBEROFERRONEOUSMESSAGES

Represents the total number of erroneous incoming messages (including requests and replies) during the measurement period but doesnotcontaintheerroneouseventslisted under the requests and replies part.

Data Source

MSC

TOTALNUMBEROFHANDLEDMESSAGES

Represents the total number of handled messages in incoming requests during the measurement period

Data Source

MSC

TOTALNUMBEROFSUCCMESSAGES

Represents the total number of successful incoming messages (including requests and replies) during the measurement period.

Data Source

MSC

TOTHANDACTIONSFORREPLIES

Represents the total number of handled actions in incoming replies during the measurement period

Data Source

MSC

TOTHANDACTIONSFORREQUESTS

Represents the total number of handled actions in incoming requests during the measurement period

Data Source

MSC

TOTHANDCOMMANDSFORREPLIES

Represents the total number of handled commands in incoming replies during the measurement period

Data Source

MSC

TOTHANDCOMMANDSFORREQUESTS

Represents the total number of handled commands in incoming requests during the measurement period

Data Source

MSC

TOTHANDMESSAGESFORREPLIES

Not a valid counter. Remains in the view as an empty column.

Data Source

MSC

TOTHANDMESSAGESFORREQUESTS

Not a valid counter. Remains in the view as an empty column.

Data Source

MSC

TOTHANDTRANSACTIONSFORREPLIES

Represents the total number of handled transactions in incoming replies during the measurement period

Data Source

MSC

TOTHANDTRANSACTIONSFORREQUESTS

Represents the total number of handled transactions in incoming requests during the measurement period

Data Source

MSC

TOTSUCCACTIONSFORREPLIES

Represents the total number of successful actions in incoming replies during the measurement period

Data Source

MSC

TOTSUCCACTIONSFORREQUESTS

Represents the total number of successful actions in incoming requests during the measurement period

Data Source

MSC

TOTSUCCOMMANDSFORREPLIES

Represents the total number of successful commands in incoming replies during the measurement period

Data Source

MSC

TOTSUCCOMMANDSFORREQUESTS

Represents the total number of successful commands in incoming requests during the measurement period

Data Source

MSC

TOTSUCCMESSAGESFORREPLIES

Not a valid counter. Remains in the view as an empty column.

Data Source

MSC

TOTSUCCMESSAGESFORREQUESTS

Not a valid counter. Remains in the view as an empty column.

Data Source

MSC

TOTSUCCTRANSACTIONSFORREPLIES

Represents the total number of successful transactions in incoming replies during the measurement period

Data Source

MSC

TOTSUCCTRANSACTIONSFORREQUESTS

Represents the total number of successful transactions in incoming requests during the measurement period

Data Source

MSC

MSC Primitive Calculations

The following is a list of primitive calculations for the MSC entity.

ANS_CALLS_TCR

Calls registered in clear code group 1.

Calculation

`AGGR(TraffCategory, ANS_CALLS_TCR)`

AVG_HOLD_TIME

Average Hold Time in seconds

Calculation

`AGGR(TraffCategory, AVG_HOLD_TIME)`

BLOCKING_ATTEMPTS

Number of Blocked Calls

Calculation

`AGGR(TraffCategory, BLOCKING_ATTEMPTS)`

BLOCKING_PERC

Number of Blocked Calls as a Percentage

Calculation

`AGGR(TraffCategory, BLOCKING_PERC)`

CALL_ATTEMPTS

Call Attempts

Calculation

`AGGR(TraffCategory, CALL_ATTEMPTS)`

CARRIED_TRAFFIC

Carried Traffic in Erlangs in sec

Calculation

`AGGR(TraffCategory, CARRIED_TRAFFIC)`

CHANNEL_AVAIL

Average Number of Available T1s

Calculation

AGGR(CircuitGroup.MSC_Trunkroute, CHANNEL_AVAIL)

CHANNEL_UNASS

Unassigned Number of T1s

Calculation

AGGR(CircuitGroup.MSC_Trunkroute, CHANNEL_UNASS)

CSM_ACCEPTED_LOCAL

Acceptance of a coordinated state modification request by a local subsystem

Calculation

AGGR(Subsystem.Transaction, SS_OOS_REQUEST_GRANTED_LOCAL)

CSM_ACCEPTED_REMOTE

Acceptance of a coordinated state modification request by a remote subsystem

Calculation

AGGR(Subsystem.Transaction, SS_OOS_REQUEST_GRANTED_REMOTE)

CSM_REJECTED_LOCAL

Rejection of a coordinated state modification request by a local subsystem

Calculation

AGGR(Subsystem.Transaction, SS_OOS_REQUEST_DENIED_LOCAL)

CSM_REJECTED_REMOTE

Rejection of a coordinated state modification request by a remote subsystem

Calculation

AGGR(Subsystem.Transaction, SS_OOS_REQUEST_DENIED_REMOTE)

DT1_RECEIVED

DT1 messages received from MTP per sink SSN

Calculation

AGGR(Subsystem.Transaction, DT1_MESSAGES_RECEIVED_FROM_MTP)

DT1_TRANS

DT1 messages sent to MTP per source SSN

Calculation

AGGR(Subsystem.Transaction, DT1_MESSAGES_SENT_TO_MTP)

DT2_RECEIVED

DT2 messages received from MTP per sink SSN

Calculation

AGGR(Subsystem.Transaction, DT2_MESSAGES_RECEIVED_FROM_MTP)

DT2_TRANS

DT2 messages sent to MTP per source SSN

Calculation

AGGR(Subsystem.Transaction, DT2_MESSAGES_SENT_TO_MTP)

DURATION_CONG1_3

Duration of Congestion (all 3 levels)

Calculation

AGGR(Link, DURATION_CONG1_3)

ED_RECEIVED

EDmessagesreceivedfromMTPpersink SSN

Calculation

AGGR(Subsystem.Transaction, ED_MESSAGES_RECEIVED_FROM_MTP)

ED_TRANS

ED messages sent to MTP per source SSN

Calculation

AGGR(Subsystem.Transaction, ED_MESSAGES_SENT_TO_MTP)

EXT_CONG_TCR

Calls registered in clear code group 4.

Calculation

AGGR(TraffCategory, TCAT_GROUP4)

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

INT_CONG_TCR

Calls registered in clear code group 3.

Calculation

AGGR(TraffCategory, TCAT_GROUP3)

MINUTES_OF_USE

Minutes Of Use. This is the hourly minutes of use day or week selection will still show the average minutes of use per hour

Calculation

AGGR(CircuitGroup.MSC_Trunkroute, MINUTES_OF_USE)

MOU

Minutes Of Use min

Calculation

AGGR(TraffCategory, MOU)

MOU_INC

Incoming Minutes Of Use

Calculation

AGGR(CircuitGroup.MSC_Trunkroute, MOU_INC)

MOU_OUTG

Outgoing Minutes Of Use

Calculation

AGGR(CircuitGroup.MSC_Trunkroute, MOU_OUTG)

MSG_ALL_LOCAL

All messages related to a localsubsystem

Calculation

AGGR(Subsystem.Transaction, TOTAL_MESSAGES_FOR_LOCAL_SS)

MSG_FROM_LOCAL_WITH_GT

Messages from a local subsystem that require GT translation

Calculation

AGGR(Subsystem.Transaction, TOTAL_MSGS_FROM_LOC_SS_WITH_GT)

MSG_FROM_LOCAL_WITHOUT_GT

Messages from a local subsystem that do not require GT translation

Calculation

AGGR(Subsystem.Transaction, TOTAL_MSGS_TO_LOC_SS_WITH_GT)

MSG_RECEIVED_CLASS0

All received messages in protocol class 0

Calculation

AGGR(Subsystem.Transaction, TOTAL_MESSAGES_RXED_CLASS_0)

MSG_RECEIVED_CLASS1

All received messages in protocol class 1.

Calculation

AGGR(Subsystem.Transaction, TOTAL_MESSAGES_RXED_CLASS_1)

MSG_REDUNDANT

All messages transmitted to the redundant subsystem

Calculation

AGGR(Subsystem.Transaction, MESSAGES_SENT_TO_BACKUP_SS)

MSG_TO_LOCAL_WITH_GT

Messages addressed to a local subsystem that require GT translation

Calculation

AGGR(Subsystem.Transaction, TOTAL_MSGS_FROM_LOC_SS_NO_GT)

MSG_TO_LOCAL_WITHOUT_GT

Messages addressed to a local subsystem that do not require GT translation

Calculation

AGGR(Subsystem.Transaction, TOTAL_MSGS_TO_LOC_SS_NO_GT)

MSG_TRANS_CLASS0

All transmitted messages in protocol class 0

Calculation

AGGR(Subsystem.Transaction, TOTAL_MESSAGES_SENT_CLASS_0)

MSG_TRANS_CLASS1

All transmitted messages in protocolclass 1.

Calculation

AGGR(Subsystem.Transaction, TOTAL_MESSAGES_SENT_CLASS_1)

NOF_INEFFECTIVE_ATT

Number of Ineffective Attempts

Calculation

AGGR(TraffCategory, NOF_INEFFECTIVE_ATT)

NOF_INEFFECTIVE_ATTEMPTS

Number of Ineffective Attempts.

Calculation

AGGR(CircuitGroup.MSC_Trunkroute, NOF_INEFFECTIVE_ATTEMPTS)

NUMDAYS

of days in Report

Calculation

DAYSINREPORT()

NUMHOURS

of hours in Summation Data

Calculation

RADIO_INTF_TCR

Calls registered in clear code group 6.

Calculation

AGGR(TraffCategory, RADIO_INTF_TCR)

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

SUB_ERR_TCR

Calls registered in clear code group 5.

Calculation

AGGR(TraffCategory, SUB_ERR_TCR)

SUCC_CALL_COMPLETION

The number of successful calls.

Calculation

AGGR(TraffCategory, SUCC_CALL_COMPLETION)

TECH_SUCC_CALLS_TCH

Calls registered in clear code group 2.

Calculation

AGGR(TraffCategory, TECH_SUCC_CALLS_TCH)

TOTAL_SWITCHED_DIGITAL_MOU

Total Switched Digital Minutes of Use

Calculation

AGGR(TraffCategory, TOTAL_SWITCHED_DIGITAL_MOU)

MSC Peg Counts

The following is a list of peg counts for the MSC entity.

ABORT_RXED_BADLY_FORMATTED_TAP

Protocol error in transaction portion (abort received) - badly formatted transaction portion (14.1c in ITU-T Q.752)

Data Source

MSC

ABORT_RXED_INCOR_TRANSACT_PORT

Protocol error in transaction portion (abort received) - incorrect transaction portion (14.1b in ITU-T Q.752)

Data Source

MSC

ABORT_RXED_RESOURCE_LIMITATION

Protocol error in transaction portion - (abort received) - resource limitation (14.1e in ITU-T Q.752)

Data Source

MSC

ABORT_RXED_UNREC_MESSAGE_TYPE

Protocol error in transaction portion (abort received) - unrecognized message type (14.1a in ITU-T Q.752)

Data Source

MSC

ABORT_RXED_UNREC_TRANSACT_ID

Protocol error in transaction portion (abort received) - unrecognized transaction identifier(14.1d in ITU-T Q.752)

Data Source

MSC

ABORT_SENT_BADLY_FORMATTED_TAP

Protocol error in transaction portion (abort sent) - badly formatted transaction portion (14.4c in ITU-T Q.752)

Data Source

MSC

ABORT_SENT_INCOR_TRANSACT_PORT

Protocol error in transaction portion (abort sent) - incorrect transaction portion (14.4b in ITU-T Q.752)

Data Source

MSC

ABORT_SENT_RESOURCE_LIMITATION

Protocol error in transaction portion (abort sent) - resource limitation (14.4e in ITU-T Q.752)

Data Source

MSC

ABORT_SENT_UNREC_MESSAGE_TYPE

Protocol error in transaction portion (abort sent) - unrecognized message type (14.4a in ITU-T Q.752)

Data Source

MSC

ABORT_SENT_UNREC_TRANSACT_ID

Protocol error in transaction portion (abort sent) - unrecognized transaction identifier (14.4d in ITU-T Q.752)

Data Source

MSC

ACTIVEARRIVINGSC

The number of inter-VLR Location Updates when the arriving subscriber was already in active state in the database. This counter is printed only with the supercharger feature.

Data Source

MSC

Source Field

M82B20C8

Source Section

RNS_P_MEAS_VLR1MSC_O2

ACTIVEAVEIDLETIMESC

Idle time for the DB cleaning represents the time passed between the deletion and the last activity of the active subscriber in minutes. Shows the average of the idle times during the measurement period. This counter is printed only with the supercharger feature.

Data Source

MSC

Source Field

M82B20C17

Source Section

RNS_P_MEAS_VLR1MSC_O2

ACTIVEMAXIDLETIMESC

Idle time for the DB cleaning represents the time passed between the deletion and the last activity of the active subscriber in minutes. Shows the maximum of the idle times during the measurement period. This counter is printed only with the supercharger feature.

Data Source

MSC

Source Field

M82B20C18

Source Section

RNS_P_MEAS_VLR1MSC_O2

ACTIVEMINIDLETIMESC

Idle time for the DB cleaning represents the time passed between the deletion and the last activity of the active subscriber in minutes. Shows the minimum of the idle times during the measurement period. This counter is printed only with the supercharger feature.

Data Source

MSC

Source Field

M82B20C16

Source Section

RNS_P_MEAS_VLR1MSC_O2

ACTIVESUBSCRTARGETSC

This counter shows the target for the active subscribers. Equals to the Target DB fill ratio (configurable parameter) multiplied by the limit for the active subscribers. This counter is printed only with the supercharger feature

Data Source

MSC

Source Field

M82B20C3

Source Section

RNS_P_MEAS_VLR1MSC_O2

ACTIVETOPASSIVESC

The number of inter-VLR Location Updates when the arriving subscriber was already in active state in the database. This counter is printed only with the supercharger feature.

Data Source

MSC

Source Field

M82B20C9

Source Section

RNS_P_MEAS_VLR1MSC_O2

ALTERPAGINGTHROUGHSGSNATTEMPTS

This counter contains the number of successful alternate pagings through A and Iu interface when the paging via Gs interface was unsuccessful. The trigger point for updating this counter is when VLR receives Paging Result message from MSC.

Data Source

MSC

ALTERPAGINGTHROUGHSGSNATTTM1

This counter contains the number of successful alternate pagings through A and Iu interface when the paging via Gs interface was unsuccessful. The trigger point for updating this counter is when VLR receives Paging Result message from MSC. This counter is updated when Result is OK. Telemetric subscriber category 1.

Data Source

MSC

ALTERPAGINGTHROUGHSGSNATTTM2

This counter contains the number of successful alternate pagings through A and Iu interface when the paging via Gs interface was unsuccessful. The trigger point for updating this counter is when VLR receives Paging Result message from MSC.

Data Source

MSC

ALTERPAGINGTHROUGHSGSNATTTM3

This counter contains the number of successful alternate pagings through A and Iu interface when the paging via Gs interface was unsuccessful. The trigger point for updating this counter is when VLR receives Paging Result message from MSC. This counter is updated when Result is OK. Telemetric subscriber category 3.

Data Source

MSC

ALTERPAGINGTHROUGHSGSNSUCC

This counter is optional. It contains the number of alternate paging attempts through A and Iu interface when the paging via Gs interface was unsuccessful. The trigger point for updating this counter is when VLR receives Paging Result message from MSC.

Data Source

MSC

ALTERPAGINGTHROUGHSGSNSUCCTM1

This counter contains the number of alternate paging attempts through A and Iu interface when the paging via Gs interface was unsuccessful. The trigger point for updating this counter is when VLR receives Paging Result message from MSC.

Data Source

MSC

ALTERPAGINGTHROUGHSGSNSUCCTM2

This counter contains the number of alternate paging attempts through A and Iu interface when the paging via Gs interface was unsuccessful. The trigger point for updating this counter is when VLR receives Paging Result message from MSC.

Data Source

MSC

ALTERPAGINGTHROUGHSGSNSUCCTM3

This counter contains the number of alternate paging attempts through A and Iu interface when the paging via Gs interface was unsuccessful. The trigger point for updating this counter is when VLR receives Paging Result message from MSC.

Data Source

MSC

ARRIV_VISITOR_OTH_P_UMA_ATT

UMA location update attempts for all visiting subscribers arriving from another visiting PLMN. The location updates in this field are already included in the value of the INTER VLR, ROAMING SUBSCRIBERS field. New roaming subscribers (who have just purchased their SIMs) are updated in this field. This field is also updated if there is no location information in the SIM. (See the figure 'Update of fields in a VLR measurement (1/2)' and the comments before it.) In the ATTEMPT field, both the normal and telemetric subscribers are counted. The trigger point for updating this counter is the point when the VMSC receives the LOCATION UPDATING REQUEST message from UMA network.

Data Source

MSC

Source Field

M82B3C148

Source Section

RNS_P_MEAS_VLR1MSC_O2

ARRIV_VISITOR_OTH_P_UMA_SUCC

Successful UMA location updates for all visiting subscribers arriving from another visiting PLMN. The location updates in this field are already included in the value of the INTER VLR, ROAMING SUBSCRIBERS field. New roaming subscribers (who have just purchased their SIMs) are updated in this field. This field is also updated if there is no location information in the SIM. (See the figure 'Update of fields in a VLR measurement (1/2)' and the comments before it.) In the SUCCESSFUL field, only the normal subscribers are counted. The trigger point for updating this counter is the point when the VMSC sends the LOCATION UPDATING ACCEPT message to UMA network.

Data Source

MSC

Source Field

M82B3C149

Source Section

RNS_P_MEAS_VLR1MSC_O2

ARRIVVISITOROTHPLMNGSMATTEMPT

GSM location update attempts for all visiting subscribers arriving from another visiting PLMN. The location updates in this field are already included in the value of the field INTER VLR, ROAMING SUBSCRIBERS. New roaming subscribers (just purchased SIM) are updated in this field.

Data Source

MSC

Source Field

M82B3C126

ARRIVVISITOROTHPLMNGSMSUCC

GSM successful Location updates for all visiting subscribers arriving from another visiting PLMN. The location updates in this field are already included in the value of the field INTER VLR, ROAMING SUBSCRIBERS. New roaming subscribers just purchased SIM) are updated in this field.

Data Source

MSC

Source Field

M82B3C127

ARRIVVISITOROTHPLMNGSMSUCCTM1

GSM successful location updates for all visiting telemetric subscribers category 1 arriving from another visiting PLMN.

Data Source

MSC

Source Field

M82B8C127

ARRIVVISITOROTHPLMNGSMSUCCTM2

GSM successful location updates for all visiting telemetric subscribers category 2 arriving from another visiting PLMN.

Data Source

MSC

Source Field

M82B11C127

ARRIVVISITOROTHPLMNGSMSUCCTM3

GSM successful location updates for all visiting telemetric subscribers category 3 arriving from another visiting PLMN.

Data Source

MSC

Source Field

M82B14C127

ARRIVVISITOROTHPLMNUMTSATTEMPT

UMTS location update attempts for all visiting subscribers arriving from another visiting PLMN. The location updates in this field are already included in the value of the field INTER VLR, ROAMING SUBSCRIBERS. New roaming subscribers (just purchased SIM) are updated in this field.

Data Source

MSC

Source Field

M82B3C128

ARRIVVISITOROTHPLMNUMTSSUCC

UMTS successful Location updates for all visiting subscribers arriving from another visiting PLMN. The location updates in this field are already included in the value of the field INTER VLR, ROAMING SUBSCRIBERS. New roaming subscribers just purchased SIM) are updated in this field.

Data Source

MSC

Source Field

M82B3C129

ARRIVVISITOROTHPLMNUMTSSUCCTM1

UMTS successful location updates for all visiting telemetric subscribers category 1 arriving from another visiting PLMN.

Data Source

MSC

Source Field

M82B8C129

ARRIVVISITOROTHPLMNUMTSSUCCTM2

UMTS successful location updates for all visiting telemetric subscribers category 2 arriving from another visiting PLMN.

Data Source

MSC

Source Field

M82B11C129

ARRIVVISITOROTHPLMNUMTSSUCCTM3

UMTS successful location updates for all visiting telemetric subscribers category 3 arriving from another visiting PLMN.

Data Source

MSC

Source Field

M82B14C129

ATTEMPTAUTHWITHQUINTET

Number of authentication attempts with quintet.

Data Source

MSC

ATTEMPTAUTHWITHTRIPLET

Number of authentication attempts with triplet.

Data Source

MSC

AVEIDLETIMECL

Idle time presents the time passed between the deletion and the last activity of the subscriber in minutes. Shows the average of the idle times during the measurement period. This counter is printed only with the advanced database cleaning feature.

Data Source

MSC

Source Field

M82B19C7

Source Section

RNS_P_MEAS_VLR1MSC_O2

CAPACITYDATAMISSING

Missing capacity data from vlr application. This counter is printed only with the supercharger/advanced database handling feature. The XML counter contains value 1 if there was missing data.

Data Source

MSC

Source Field

M82B21C1

Source Section

RNS_P_MEAS_VLR1MSC_O2

CELLMEAS_AVE_PAGETIME_SEC_x100

Average paging time for successful pagings given in milliseconds (0...99999)

Data Source

MSC

CELLMEAS_CORRUPT_MESSAGE

This tag appears with value 1 when there are no records or the whole report is corrupted.

Data Source

MSC

CELLMEAS_INC_AVE_CALL_TIME_SEC

The average reservation time of the entire exchange given in seconds for incoming calls. Only calls finished during the period are taken into account. The calls from and to private branch exchange (PBX) circuits are included. Range of the counter is 0...999999.

Data Source

MSC

CELLMEAS_INT_AVE_CALL_TIME_SEC

The average reservation time of the entire exchange given in seconds for internal calls. Only calls finished during the period are taken into account. Range of the counter is 0...999999.

Data Source

MSC

CELLMEAS_OUT_AVE_CALL_TIME_SEC

The average reservation time of the entire exchange given in seconds for outgoing calls. Only calls finished during the period are taken into account. The calls from and to private branch exchange (PBX) circuits are included. Range of the counter is 0...999999.

Data Source

MSC

CELLMEAS_TRA_AVE_CALL_TIME_SEC

The average reservation time of the entire exchange given in seconds for transit calls. Only calls finished during the period are taken into account. Range of the counter is 0...999999.

Data Source

MSC

CODEC_MODIFICATION_ATTEMPT

Shows the number of attempted codec modification procedures. The counter is updated when MSC Server sends the APM message and where the actionindicator is set to "modify codec".

Data Source

MSC

Source Field

M388B2C12

Source Section

RNS_PS_TRFO_MSC_RAW

CODEC_NEGOTIATION_ATTEMPT

Shows the number of codec negotiation attempt procedures. The counter is updated when Codec List IE is sent in the IAM message.

Data Source

MSC

Source Field

M388B2C10

Source Section

RNS_PS_TRFO_MSC_RAW

CSSMT_DATA_PROV_RESTARTED

Tag appears with value 1 when the data provider in the signalling unit or the signalling unit(s) is restarted during the report period, and data might not be reliable.

Data Source

MSC

Source Field

M387B2C5

Source Section

RNS_P_MEAS_CSSM_O2

CSSMT_FAILED_BIDS

Number of unsuccessful call setup service attempts in the MSC level.

Data Source

MSC

Source Field

M387B2C3

Source Section

RNS_P_MEAS_CSSM_O2

CSSMT_FAILED_MEAN_TIME

Mean time of unsuccessful call setup service attempts in seconds in ASCII reports and in 10 ms in XML reports. Mean time is calculated by dividing the value of the unsuccessful total call setup service time reservation by the value of unsuccessful call setup service attempts.

Data Source

MSC

Source Field

M387B2C4

Source Section

RNS_P_MEAS_CSSM_O2

CSSMT_SUCC_BIDS

Number of successful call setup service attempts in MSC level.

Data Source

MSC

Source Field

M387B2C1

Source Section

RNS_P_MEAS_CSSM_O2

CSSMT_SUCC_MEAN_TIME

Mean time of successful call setup service attempts in seconds in ASCII reports and in 10 ms in XML reports. Mean time is calculated by dividing the value of the successful total call setup service time reservation by the value of successful call setup service attempts.

Data Source

MSC

Source Field

M387B2C2

Source Section

RNS_P_MEAS_CSSM_O2

CSTS_ALL_SUCC_SETUPS

Number of all successful setup attempts during the report period. The counter is updated when the signalling phase is ended, that is, before sending the ALERT message.

Data Source

MSC

Source Field

M386B2C3

Source Section

RNS_P_MEAS_CSTS_O2

CSTS_DATA_PROV_RESTARTED

If the result corruption flag is true, this means that the data provider in signalling unit or signalling unit(s) is restarted during the period. In this case, M386B2C30 counter is written (with value '1'). Otherwise, the counter is omitted.

Data Source

MSC

Source Field

M386B2C30

Source Section

RNS_P_MEAS_CSTS_O2

CSTS_EXT_FAIL_UNSUCC_SETUP_AVE

The average call setup time of the durations of the external released connections during the period. Clear code range for internal failure released connection: 800...BFF. The unit of measure is seconds in ASCII reports and 10 milliseconds in XML reports.

Data Source

MSC

Source Field

M386B2C22

Source Section

RNS_P_MEAS_CSTS_O2

CSTS_EXTFAIL_ALL_UNSUCC_SETUP

Number of failed call setup attempts due to external failure. The counter is updated when the call is interrupted during the setup phase, and the clear code is in the range of 800-BFF. It means that the MSC either receives the CM_SERVICE_ABORT message, receives or sends the BSSAP RELEASE COMPLETE message, receives or sends the CC RELEASE COMPLETE message, receives the ISUP Release Complete or the ISUP Release message from the other exchange, or sends the CLEAR COMMAND message to the MS.

Data Source

MSC

Source Field

M386B2C18

Source Section

RNS_P_MEAS_CSTS_O2

CSTS_EXTFAIL_LONG_UNSUCC_SETUP

Number of failed call setup attempts due to external failure, and the call setup time is over the time defined by the LONG_SETUP_TIMEPRFILE parameter. The counter is updated when the call is interrupted during the setup phase, and the clear code is in the range of 800-BFF. It means that the MSC either receives the CM_SERVICE_ABORT message, receives or sends the BSSAPRELEASE COMPLETE message, receives or sends the CCRELEASE COMPLETE

message, receives the ISUP Release Complete or the ISUP Release message from the other exchange, or sends the CLEAR COMMAND message to the MS

Data Source

MSC

Source Field

M386B2C20

Source Section

RNS_P_MEAS_CSTS_O2

CSTS_EXTFAIL_X_UNSUCC_SETUPTIM

The longest call setup time in report period for external failure released connections. Clear code range for internal failure released connection: 800...BFF. The unit of time in ASCII report is seconds, and in XML reports, it is 10 milliseconds.

Data Source

MSC

Source Field

M386B2C21

Source Section

RNS_P_MEAS_CSTS_O2

CSTS_INT_FAIL_UNSUCC_SETUP_AVE

The average time of the durations of the internal released connections during the period. Clear code range for internal failure released connection: 400...7FF. The unit of time in ASCII report is seconds, and in XML reports, it is 10 milliseconds.

Data Source

MSC

Source Field

M386B2C17

Source Section

RNS_P_MEAS_CSTS_O2

CSTS_INTFAIL_ALL_UNSUCC_SETUP

Number of failed call setup attempts due to internal failure. The counter is updated when the call is interrupted during the setup phase, and the clear code is in the range of 400-7FF. It means that the MSC either receives the CM_SERVICE_ABORT message, receives or sends the BSSAP RELEASE COMPLETE message, receives or sends the CC RELEASE COMPLETE message, receives the ISUP Release Complete or the ISUP Release message from the other exchange, or sends the CLEAR COMMAND message to the MS.

Data Source

MSC

Source Field

M386B2C13

Source Section

RNS_P_MEAS_CSTS_O2

CSTS_INTFAIL_LONG_UNSUCC_SETUP

Number of failed call setup attempts due to internal failure, and the call setup time is over the time defined by the LONG_SETUP_TIMEPRFILE parameter. The counter is updated when the call is interrupted during the setup phase, and the clear code is in the range of 400-7FF. It means that the MSC either receives the CM_SERVICE_ABORT message, receives or sends the BSSAPRELEASE COMPLETE message, receives or sends the CCRELEASE COMPLETE message, receives the ISUP Release Complete or the ISUP Release message from the other exchange, or sends the CLEAR COMMAND message to the MS

Data Source

MSC

Source Field

M386B2C15

Source Section

RNS_P_MEAS_CSTS_O2

CSTS_INTFAIL_X_UNSUCC_SETUPTIM

The longest call setup time in the report period for internal failure released connections. Clear code range for internal failure released connection: 400...7FF. The unit of time in ASCII report is seconds, and in XML reports, it is 10 milliseconds.

Data Source

MSC

Source Field

M386B2C16

Source Section

RNS_P_MEAS_CSTS_O2

CSTS_LONG_SETUP_TIME

Long setup time is a PROFILE parameter which describes the time limit for the long call setups, that is, if the call setup time exceeds long setup time limit, it will be counted in M386B2C4 counter. The unit of time in ASCII report is seconds, in XML reports, it is 10 milliseconds.

Data Source

MSC

Source Field

M386B2C2

Source Section

RNS_P_MEAS_CSTS_O2

CSTS_LONG_SUCC_SETUPS

Number of long successful setups when the setup time is over the time defined by the PROFILE parameter. The counter is updated when the signalling phase ends, that is before sending the ALERT message.

Data Source

MSC

Source Field

M386B2C4

Source Section

RNS_P_MEAS_CSTS_O2

CSTS_MAX_SUCC_SETUP_TIME

The longest successful setup time in the report period. The unit of time in ASCII report is seconds, in XML reports, it is 10 milliseconds.

Data Source

MSC

Source Field

M386B2C6

Source Section

RNS_P_MEAS_CSTS_O2

CSTS_MIN_SUCC_SETUP_TIME

The shortest successful setup time in report period. The unit of time in ASCII report is seconds, in XML reports, it is 10 milliseconds.

Data Source

MSC

Source Field

M386B2C5

Source Section

RNS_P_MEAS_CSTS_O2

CSTS_NORM_RL_ALL_UNSUCC_SETUPS

Number of failed call setup attempts that have terminated in a normal release.

Data Source

MSC

Source Field

M386B2C8

Source Section

RNS_P_MEAS_CSTS_O2

CSTS_NORM_RL_LONG_UNSUCC_SETUP

Number of failed call setup attempts that have terminated in normal release, and the setup time is over the defined time by the LONG_SETUP_TIME PROFILE parameter.

Data Source

MSC

Source Field

M386B2C10

Source Section

RNS_P_MEAS_CSTS_O2

CSTS_NORM_RL_UNSUCC_SETUP_AVE

The average call setup time of the failed call setup attempts, which terminated in the normal release (where the clear code is in the range of 001-3FF). The unit of the average call setup time in ASCII report is seconds, in XML reports, it is 10 milliseconds.

Data Source

MSC

Source Field

M386B2C12

Source Section

RNS_P_MEAS_CSTS_O2

CSTS_NORM_RL_X_UNSUCC_SETUPTIM

The longest call setup time from the failed call setup attempts, which terminated in the normal release (where the clear code is in the range of 001-3FF). The unit of time in ASCII report is seconds, in XML reports, it is 10 milliseconds.

Data Source

MSC

Source Field

M386B2C11

Source Section

RNS_P_MEAS_CSTS_O2

CSTS_SUBSFALL_ALL_UNSUCC_SETUP

Number of failed call setup attempts due to subscriber failure.

Data Source

MSC

Source Field

M386B2C23

Source Section

RNS_P_MEAS_CSTS_O2

CSTS_SUBSFALL_LONG_UNSUCC_SETUP

Number of failed call setup attempts due to subscriber failure, and the call setup time is over the defined time by the LONG_SETUP_TIMEPRFILE parameter.

Data Source

MSC

Source Field

M386B2C25

Source Section

RNS_P_MEAS_CSTS_O2

CSTS_SUBSFALL_UNSUCC_SETUP_AVE

The average call setup time of the durations of the subscriber released connections during the period. Clear code range for internal failure released connection: C00...FFF. The unit of time in ASCII report is seconds, in XML reports it is 10 milliseconds.

Data Source

MSC

Source Field

M386B2C27

Source Section

RNS_P_MEAS_CSTS_O2

CSTS_SUBSFALL_X_UNSUCC_SETUPTIME

The longest call setup time in the report period for subscriber failure released connections. Clear code range for internal failure released connection: C00...FFF. The unit of time in ASCII report is seconds, in XML reports it is 10 milliseconds.

Data Source

MSC

Source Field

M386B2C26

Source Section

RNS_P_MEAS_CSTS_O2

CSTS_SUCC_SETUP_AVE

The longest successful setup time in the report period. The unit of time in ASCII report is seconds, in XML reports, it is 10 milliseconds.

Data Source

MSC

Source Field

M386B2C7

Source Section

RNS_P_MEAS_CSTS_O2

DATA_MISSING_IN_LU_PER_LAC_VAL

This line is printed in the first part of this report if data transfer from one or more VLRUs failed during one or more inquiries; that is, only a subset of the data can be collected. It means that the printed counters per LAC are not reliable. Overloaded VLRUs or a VLRU startup can be the cause of the problem. Measured object: The measured object is the MSC.

Data Source

MSC

Source Field

M240B2C1

Source Section

RNS_PS_GVLR_MSC_RAW

DATAMISSINGIFVALUEIS_1

This line appears in the ASCII report if a fault happened during the data collecting. It means that the printed authentication counters are not reliable. (The problem can be: some of the VLRUs dont work, overloaded situation)

Data Source

MSC

DATAMISSINGINLA_VLRMSC

This line is printed if data transfer from one or several VLRUs failed during one or more inquiries, i.e. only a subset of the data could be collected. It means that the printed LAC values are not reliable. (The problem can be overloaded VLRUs, a VLRU startup.)

Data Source

MSC

DATAMISSINGINLA_VLRNMSC

This line is printed if data transfer from one or several VLRUs failed during one or more inquiries, i.e. only a subset of the data could be collected. It means that the printed LAC values are not reliable. (The problem can be overloaded VLRUs, a VLRU startup.)

Data Source

MSC

DATAMISSINGINPAGINGPERLA

This line is printed if data transfer from one or several VLRUs failed during one or more inquiries, that is, only a subset of the data could be collected. It means that the printed counters per LAC are not reliable. (The problem can be overloaded VLRUs, a VLRU startup.)

Data Source

MSC

DATAMISSINGINSUBSCVALUESHLR

This line is printed if data transfer from one or several VLRUs failed during one or more inquiries, that is, only a subset of the data could be collected. It means that the printed subscriber numbers per HLR are not reliable. (The problem can be overloaded VLRUs, a VLRU startup.)

Data Source

MSC

DATAMISSINGINSUBSCVALUESPLMN

This line is printed if data transfer from one or several VLRUs failed during one or more inquiries, that is, only a subset of the data could be collected. It means that the printed subscriber numbers per PLMN are not reliable. (The problem can be overloaded VLRUs, a VLRU startup.)

Data Source

MSC

DEFAULT_PRIORITY_CALLS

Total number of incoming PRIORITY calls without the Precedence parameter (CPC=PRIORITY Call, ISUP/BICC MLPP field is not filled). This counter is updated in the VMSC in MT call case (counter 0.8).

Data Source

MSC

Source Field

M392B2C9

Source Section

RNS_P_MEAS_PRCA_O9

DEPARTINGVISITORSATTEMPT

Shows number of the normal subscribers (both home subscribers and visitors) departing from the VLR. The field is updated when a cancel location is received from the HLR.

Data Source

MSC

DEPARTINGVISITORSATTEMPTTM1

Shows number of the telemetric subscribers category 1 (both home subscribers and visitors) departing from the VLR. The field is updated when a cancel location is received from the HLR.

Data Source

MSC

DEPARTINGVISITORSATTEMPTTM2

Shows number of the telemetric subscribers category 2 (both home subscribers and visitors) departing from the VLR. The field is updated when a cancel location is received from the HLR.

Data Source

MSC

DEPARTINGVISITORSATTEMPTTM3

Shows number of the telemetric subscribers category 3 (both home subscribers and visitors) departing from the VLR. The field is updated when a cancel location is received from the HLR.

Data Source

MSC

ERRORS_IN_TRANSACTION_PORTION

Number of errors detected in transaction portion (14.12 in ITU-T Q.752)

Data Source

MSC

FAILEDAUTHWITHQUINTET

Number of failed authentications with quintet.

Data Source

MSC

FAILEDAUTHWITHTRIPLET

Number of failed authentications with triplet.

Data Source

MSC

GETS_CALL_REQUESTS

Total number of MO GETS call requests (CPC=PRIORITY Call, but eMLPP is not used) (counter 0.3).

Data Source

MSC

Source Field

M392B2C4

Source Section

RNS_P_MEAS_PRCA_O4

GPRSINITIATEDLUATTEMPT

This counter shows the number of events happened when the mobile is GPRS and GSM/UMTS attached and MS makes a location update attempt. These events are also counted to the attempt LU counters.

Data Source

MSC

GPRSINITIATEDLUATTEMPTTM1

This counter shows the number of events happened when the mobile is GPRS and GSM/UMTS attached and the MS makes a location update attempt. These events are also counted to the attempt LU counters.

Data Source

MSC

GPRSINITIATEDLUATTEMPTTM2

This counter shows the number of events happened when the mobile is GPRS and GSM/UMTS attached and the MS makes a location update attempt. These events are also counted to the attempt LU counters. The trigger point for updating this counter is the point when VMSC receives the LOCATION UPDATING REQUEST message. Telemetric subscriber category 2.

Data Source

MSC

GPRSINITIATEDLUATTEMPTTM3

This counter shows the number of events happened when the mobile is GPRS and GSM/UMTS attached and the MS makes a location update attempt. These events are also counted to the attempt LU counters.

Data Source

MSC

GPRSINITIATEDLUSUCC

This counter shows the number of events happened when the mobile is GPRS and GSM/UMTS attached and MS makes a successful location update. These events are also counted to the successful LU counters.

Data Source

MSC

GPRSINITIATEDLUSUCCTM1

This counter shows the number of events happened when the mobile is GPRS and GSM/UMTS attached and the MS makes a successful location update. These events are also counted to the successful LU counters.

Data Source

MSC

GPRSINITIATEDLUSUCCTM2

This counter shows the number of events happened when the mobile is GPRS and GSM/UMTS attached and the MS makes a successful location update. These events are also counted to the successful LU counters. The trigger point for updating this counter is the point when VMSC sends the LOCATION UPDATING ACCEPT message. Telemetric subscriber category 2.

Data Source

MSC

GPRSINITIATEDLUSUCCTM3

This counter shows the number of events happened when the mobile is GPRS and GSM/UMTS attached and the MS makes a successful location update. These events are also counted to the successful LU counters.

Data Source

MSC

GPRSINITIMSIATTACHATTEMPT

Attempts of events when the SGSN sends the IMSI attach. These events are also counted to the general attach counters

Data Source

MSC

GPRSINITIMSIATTACHATTEMPTTM1

Attempts of events when the SGSN sends the IMSI attach. These events are also counted to the general attach counters. The trigger point for updating this counter is when the VMSC receives the LOCATION UPDATING REQUEST message. Telemetric subscriber category 1.

Data Source

MSC

GPRSINITIMSIATTACHATTEMPTTM2

Attempts of events when the SGSN sends the IMSI attach. These events are also counted to the general attach counters. The trigger point for updating this counter is when the VMSC receives the LOCATION UPDATING REQUEST message. Telemetric subscriber category 2.

Data Source

MSC

GPRSINITIMSIATTACHATTEMPTTM3

Attempts of events when the SGSN sends the IMSI attach. These events are also counted to the general attach counters. The trigger point for updating this counter is when the VMSC receives the LOCATION UPDATING REQUEST message. Telemetric subscriber category 3.

Data Source

MSC

GPRSINITIMSIATTACHSUCC

Successfulness of events when the SGSN sends the IMSI attach. These events are also counted to the general attach counters

Data Source

MSC

GPRSINITIMSIATTACHSUCCTM1

Successfulness of events when the SGSN sends the IMSI attach. These events are also counted to the general attach counters. The trigger point for updating this counter is when VMSC sends the LOCATION UPDATING ACCEPT message. Telemetric subscriber category 1.

Data Source

MSC

GPRSINITIMSIATTACHSUCCTM2

Successfulness of events when the SGSN sends the IMSI attach. These events are also counted to the general attach counters. The trigger point for updating this counter is when VMSC sends the LOCATION UPDATING ACCEPT message. Telemetric subscriber category 2.

Data Source

MSC

GPRSINITIMSIATTACHSUCCTM3

Successfulness of events when the SGSN sends the IMSI attach. These events are also counted to the general attach counters. The trigger point for updating this counter is when VMSC sends the LOCATION UPDATING ACCEPT message. Telemetric subscriber category 3.

Data Source

MSC

GPRSINITIMSIDETACHATTEMPT

Successfulness of events when the SGSN initiates an explicit IMSI detach to VLR. These events are also counted to the general detach counters.

Data Source

MSC

GPRSINITIMSIDETACHATTEMPTTM1

Successfulness of events when the SGSN initiates an explicit IMSI detach to the VLR. These events are also counted to the general detach counters. The trigger point for updating this counter is the VMSC receives the IMSI DETACH INDICATION message. Telemetric subscriber category 1.

Data Source

MSC

GPRSINITIMSIDETACHATTEMPTTM2

Successfulness of events when the SGSN initiates an explicit IMSI detach to the VLR. These events are also counted to the general detach counters. The trigger point for updating this counter is the VMSC receives the IMSI DETACH INDICATION message. Telemetric subscriber category 2.

Data Source

MSC

GPRSINITIMSIDETACHATTEMPTTM3

Successfulness of events when the SGSN initiates an explicit IMSI detach to the VLR. These events are also counted to the general detach counters. The trigger point for updating this counter is the VMSC receives the IMSI DETACH INDICATION message. Telemetric subscriber category 3.

Data Source

MSC

HOP_COUNTER_VIOLATIONS

Hop counter violation (7.13 in ITU-T Q.752

Data Source

MSC

IAMSCGSMTOUMTSCLEAR

Number of calls dropped due to failed intra-MSC GSM-UMTS handovers

Data Source

MSC

Source Field

M81B3C66

Source Section

RNS_P_MEAS_HO1_O2

IAMSCGSMTOUMTSREEST

Number of successful re-establishments in failed intra-MSC GSM-UMTS handovers

Data Source

MSC

Source Field

M81B3C65

Source Section

RNS_P_MEAS_HO1_O2

IAMSCIAGSMCLEAR

Number of calls dropped due to failed intra-MSC intra-GSM handovers

Data Source

MSC

Source Field

M81B3C64

Source Section

RNS_P_MEAS_HO1_O2

IAMSCIAGSMREEST

GCN60 Number of successful re-establishments in failed intra-MSC intra-GSM handovers

Data Source

MSC

Source Field

M81B3C63

Source Section

RNS_P_MEAS_HO1_O2

IAMSCIAUMTSCLEAR

Number of calls dropped due to failed intra-MSC intra-UMTS handovers

Data Source

MSC

Source Field

M81B3C70

Source Section

RNS_P_MEAS_HO1_O2

IAMSCIAUMTSREEST

Number of successful re-establishments in failed intra-MSC intra-UMTS handovers

Data Source

MSC

Source Field

M81B3C69

Source Section

RNS_P_MEAS_HO1_O2

IAMSCUMTSTOGSMCLEAR

Number of calls dropped due to failed intra-MSC UMTS-GMS handovers

Data Source

MSC

Source Field

M81B3C68

Source Section

RNS_P_MEAS_HO1_O2

IAMSCUMTSTOGSMREEST

Number of successful re-establishments in failed intra-MSC UMTS-GMS handovers

Data Source

MSC

Source Field

M81B3C67

Source Section

RNS_P_MEAS_HO1_O2

IEPLMNIAMSCGSMTOUMTSCLEAR

Number of calls dropped due to failed inter-PLMN intra-MSC GSM-UMTS handovers

Data Source

MSC

Source Field

M81B3C74

Source Section

RNS_P_MEAS_HO1_O2

IEPLMNIAMSCGSMTOUMTSREEST

Number of successful re-establishments in failed inter-PLMN intra-MSC GSMUMTS handovers

Data Source

MSC

Source Field

M81B3C73

Source Section

RNS_P_MEAS_HO1_O2

IEPLMNIAMSCIAGSMCLEAR

Number of calls dropped due to failed inter-PLMN intra-MSC intra-GSM handovers

Data Source

MSC

Source Field

M81B3C72

Source Section

RNS_P_MEAS_HO1_O2

IEPLMNIAMSCIAGSMREEST

Number of successful re-establishments in failed inter-PLMN intra-MSC intra-GSM handovers

Data Source

MSC

Source Field

M81B3C71

Source Section

RNS_P_MEAS_HO1_O2

IEPLMNIAMSCIAUMTS CLEAR

Number of calls dropped due to failed inter-PLMN intra-MSC intra-UMTS handovers

Data Source

MSC

Source Field

M81B3C78

Source Section

RNS_P_MEAS_HO1_O2

IEPLMNIAMSCIAUMTS REEST

Number of successful re-establishments in failed inter-PLMN intra-MSC intra- UMTS handovers

Data Source

MSC

Source Field

M81B3C77

Source Section

RNS_P_MEAS_HO1_O2

IEPLMNIAMSCUMTSTOGSMCLEAR

Number of calls dropped due to failed inter-PLMN intra-MSC UMTS-GSM handovers

Data Source

MSC

Source Field

M81B3C76

Source Section

RNS_P_MEAS_HO1_O2

IEPLMNIAMSCUMTSTOGSMREEST

Number of successful re-establishments in failed inter-PLMN intra- MSC UMTSGSM handovers

Data Source

MSC

Source Field

M81B3C75

Source Section

RNS_P_MEAS_HO1_O2

IMSI_ATTACH_SIP_ATTEMPT

It is updated during an initial registration when the SPD makes an IMSI attach. It is printed only if the NVS feature is active.

Data Source

MSC

Source Field

M82B5C107

IMSI_ATTACH_SIP_SUCC

It is updated when VLR sends IMSI_Attach_Ack in case of initial registration. It is printed only if the NVS feature is active.

Data Source

MSC

Source Field

M82B5C108

IMSI_ATTACH_UMA_ATTEMPT

Number of UMA IMSI attachments. This operation is only performed when the subscriber switches the mobile station on in the same location area where it was switched off.

Data Source

MSC

Source Field

M82B5C110

IMSI_ATTACH_UMA_SUCC

Number of UMA IMSI attachments. This operation is only performed when the subscriber switches the mobile station on in the same location area where it was switched off.

Data Source

MSC

Source Field

M82B5C111

IMSI_DETACH_SIP_ATTEMPT

After registration timer expires IMSI detach is carried out, that is, network initiated deregistration, or user can initiate deregistration also. It is printed only if the NVS feature is active.

Data Source

MSC

Source Field

M82B5C109

IMSI_DETACH_UMA_ATTEMPT

Number of UMA IMSI detachments. This operation is performed when the subscriber switches the mobile station off. The trigger point for updating this counter is when the VMSC receives the IMSI DETACH INDICATION message.

Data Source

MSC

Source Field

M82B5C112

IMSIATTACHGSMATTEMPT

Number of GSM IMSI attachments. This operation is only performed when the subscriber switches the mobile phone on in the same location area where it was switched off.

Data Source

MSC

Source Field

M82B5C101

IMSIATTACHGSM SUCC

Number of GSM IMSI attachments. This operation is only performed when the subscriber switches the mobile phone on in the same location area where it was switched off. The SUCCESSFUL field contains only the normal subscribers IMSI attachments.

Data Source

MSC

Source Field

M82B5C103

IMSIATTACHGSM SUCCTM1

Number of GSM IMSI attachments. This operation is only performed when the subscriber switches the mobile phone on in the same location area where it was switched off. The SUCCESSFUL field contains only the normal subscribers IMSI attachments. Telemetric subscriber category 1.

Data Source

MSC

IMSIATTACHGSMSCCTM2

Number of GSM IMSI attachments. This operation is only performed when the subscriber switches the mobile phone on in the same location area where it was switched off. The SUCCESSFUL field contains only the normal subscribers IMSI attachments. Telemetric subscriber category 2.

Data Source

MSC

IMSIATTACHGSMSCCTM3

Number of GSM IMSI attachments. This operation is only performed when the subscriber switches the mobile phone on in the same location area where it was switched off. The SUCCESSFUL field contains only the normal subscribers IMSI attachments. Telemetric subscriber category 3.

Data Source

MSC

IMSIATTACHUMTSATTEMPT

Number of UMTS IMSI attachments. This operation is only performed when the subscriber switches the mobile phone on in the same location area where it was switched off. The ATTEMPT field includes both the normal and telemetric subscribers IMSI attachments.

Data Source

MSC

Source Field

M82B5C102

IMSIATTACHUMTSSUCC

Number of UMTS IMSI attachments. This operation is only performed when the subscriber switches the mobile phone on in the same location area where it was switched off. The SUCCESSFUL field contains only the normal subscribers IMSI attachments.

Data Source

MSC

Source Field

M82B5C104

IMSIATTACHUMTSSUCCTM1

Number of UMTS IMSI attachments. This operation is only performed when the subscriber switches the mobile phone on in the same location area where it was switched off. The SUCCESSFUL field contains only the normal subscribers IMSI attachments. Telemetric subscriber category 1.

Data Source

MSC

IMSIATTACHUMTSSUCCTM2

Number of UMTS IMSI attachments. This operation is only performed when the subscriber switches the mobile phone on in the same location area where it was switched off. The SUCCESSFUL field contains only the normal subscribers IMSI attachments. Telemetric subscriber category 2.

Data Source

MSC

IMSIATTACHUMTSSUCCTM3

Number of UMTS IMSI attachments. This operation is only performed when the subscriber switches the mobile phone on in the same location area where it was switched off. The SUCCESSFUL field contains only the normal subscribers IMSI attachments. Telemetric subscriber category 3.

Data Source

MSC

IMSIDETACHGSMATTEMPT

Number of GSM IMSI detachments. This operation is performed when the subscriber switches the mobile phone off.

Data Source

MSC

Source Field

M82B5C105

IMSIDETACHGSMATTEMPTTM1

GSM attempts of events when the SGSN initiates an explicit IMSI detach to VLR. These events are also counted to the general detach counters. Telemetric subscriber category 1.

Data Source

MSC

IMSIDETACHGSMATTEMPTTM2

GSM attempts of events when the SGSN initiates an explicit IMSI detach to VLR. These events are also counted to the general detach counters. Telemetric subscriber category 2.

Data Source

MSC

IMSIDETACHGSMATTEMPTTM3

GSM attempts of events when the SGSN initiates an explicit IMSI detach to VLR. These events are also counted to the general detach counters. Telemetric subscriber category 3.

Data Source

MSC

IMSIDETACHUMTSATTEMPT

Number of UMTS IMSI detachments. This operation is performed when the subscriber switches the mobile phone off.

Data Source

MSC

Source Field

M82B5C6

IMSIDETACHUMTSATTEMPTTM1

UMTS attempts of events when the SGSN initiates an explicit IMSI detach to VLR. These events are also counted to the general detach counters. Telemetric subscriber category 1.

Data Source

MSC

INSIDETACHUMTSATTEMPTTM2

UMTS attempts of events when the SGSN initiates an explicit IMSI detach to VLR. These events are also counted to the general detach counters. Telemetric subscriber category 2.

Data Source

MSC

INSIDETACHUMTSATTEMPTTM3

UMTS attempts of events when the SGSN initiates an explicit IMSI detach to VLR. These events are also counted to the general detach counters. Telemetric subscriber category 3.

Data Source

MSC

INC_NSEP_CALLS

Total number of PRIORITY calls received on incoming trunks (counter 0.5).

Data Source

MSC

Source Field

M392B2C6

Source Section

RNS_P_MEAS_PRCA_O6

INC_NSEP_MT_CALLS

The total number of PRIORITY calls received on incoming trunks whose destination is an MS served by that MSC/VLR (counter 0.4).

Data Source

MSC

Source Field

M392B2C5

Source Section

RNS_P_MEAS_PRCA_O5

INCOMINGINTERMSCGSMTOUMTSNOK

Number of unsuccessful incoming inter-MSC GSM-UMTS handovers

Data Source

MSC

INCOMINGINTERMSCGSMTOUMTSOK

Number of successful incoming inter-MSC GSM-UMTS handovers

Data Source

MSC

INCOMINGINTERMSCINTRAGSMNOK

Number of unsuccessful incoming inter-MSC intra-GSM handovers

Data Source

MSC

INCOMINGINTERMSCINTRAGSMOK

Number of successful incoming inter-MSC intra-GSM handovers

Data Source

MSC

INCOMINGINTERMSCINTRAUMTSNOK

Number of unsuccessful incoming inter-MSC intra-UMTS handovers

Data Source

MSC

INCOMINGINTERMSCINTRAUMTSOK

Number of successful incoming inter-MSC intra-UMTS handovers

Data Source

MSC

INCOMINGINTERMSCUMTSTOGSMNOK

Number of unsuccessful incoming inter-MSC UMTS-GSM handovers

Data Source

MSC

INCOMINGINTERMSCUMTSTOGSMOK

Number of successful incoming inter-MSC UMTS-GSM handovers

Data Source

MSC

INGAP_SCP_OVERLOAD

The number of gapped calls due to SCP overload.

Data Source

MSC

INIEMSCGSMTOUMTSCLEAR

Number of calls dropped due to failed inter-MSC GSM-UMTS handovers

Data Source

MSC

Source Field

M81B3C82

Source Section

RNS_P_MEAS_HO1_O2

INIEMSCIAGSMCLEAR

Number of calls dropped due to failed inter-MSC intra-GSM handovers

Data Source

MSC

Source Field

M81B3C80

Source Section

RNS_P_MEAS_HO1_O2

INIEMSCIAUMTSCLEAR

Number of calls dropped due to failed inter-MSC intra-UMTS handovers

Data Source

MSC

Source Field

M81B3C86

Source Section

RNS_P_MEAS_HO1_O2

INIEMSCUMTSTOGSMCLEAR

Number of calls dropped due to failed inter-MSC UMTS-GSM handovers

Data Source

MSC

Source Field

M81B3C84

Source Section

RNS_P_MEAS_HO1_O2

INIEPLMNGSMTUUMTSCLEAR

Number of calls dropped due to failed incoming inter-PLMN inter-MSC GSMUMTS handovers

Data Source

MSC

Source Field

M81B3C98

Source Section

RNS_P_MEAS_HO1_O2

INIEPLMNIAGSMCLEAR

Number of calls dropped due to failed incoming inter-PLMN inter-MSC intra- GSM handovers

Data Source

MSC

Source Field

M81B3C96

Source Section

RNS_P_MEAS_HO1_O2

INIEPLMNIAUMTSCLEAR

Number of calls dropped due to failed incoming inter-PLMN inter-MSC intra- UMTS handovers

Data Source

MSC

Source Field

M81B3C102

Source Section

RNS_P_MEAS_HO1_O2

INIEPLMNUMTSTOGSMCLEAR

Number of calls dropped due to failed incoming inter-PLMN inter-MSC UMTSGSM handovers

Data Source

MSC

Source Field

M81B3C100

Source Section

RNS_P_MEAS_HO1_O2

INIERPLMNIERMSCGSMTOUMTSNOK

Number of unsuccessful incoming inter-PLMN GSM-UMTS handovers

Data Source

MSC

INIERPLMNIERMSCGSMTOUMTSOK

Number of successful incoming inter-PLMN GSM-UMTS handovers

Data Source

MSC

INIERPLMNIERMSCINTRAGSMNOK

Number of unsuccessful incoming inter-PLMN intra-GSM handovers

Data Source

MSC

INIERPLMNIERMSCINTRAGSMOK

Number of successful incoming inter-PLMN intra-GSM handovers

Data Source

MSC

INIERPLMNIERMSCINTRAUMTSNOK

Number of unsuccessful incoming inter-PLMN intra-UMTS handovers

Data Source

MSC

INIERPLMNIERMSCINTRAUMTSOK

Number of successful incoming inter-PLMN intra-UMTS handovers

Data Source

MSC

INIERPLMNIERMSCUMTSTOGSMNOK

Number of unsuccessful incoming inter-PLMN UMTS-GSM handovers

Data Source

MSC

INIERPLMNIERMSCUMTSTOGSMOK

Number of successful incoming inter-PLMN UMTS-GSM handovers

Data Source

MSC

INTER_VLR_HS_UMA_ATT

UMA location update attempts between VLRs performed by home subscribers (both those coming from another PLMN and the ones inside the network changing the VLR). New home subscribers (who have just purchased their SIMs) are updated in this field. This field is also updated if there is no location information in the SIM. In the ATTEMPT field both the normal and telemetric subscribers are counted. The trigger point for updating this counter is the point when the VMSC receives the LOCATION UPDATING REQUEST message from UMA network.

Data Source

MSC

Source Field

M82B3C138

Source Section

RNS_P_MEAS_VLR1MSC_O2

INTER_VLR_HS_UMA_SUCC

UMA successful location updates between VLRs performed by home subscribers (both those coming from another PLMN and the ones inside the network changing the VLR). New home subscribers (who have just purchased SIM) are updated in this field. This field is also updated if there is no location information in the SIM. In the SUCCESSFUL field, only the normal subscribers are counted. The trigger point for updating this counter is the point when the VMSC sends the LOCATION UPDATING ACCEPT message to UMA network.

Data Source

MSC

Source Field

M82B3C139

Source Section

RNS_P_MEAS_VLR1MSC_O2

INTER_VLR_RS_UMA_ATT

UMA location update attempts performed by visiting subscribers arriving from other PLMN or changing the VLR within the same PLMN. This field is also updated if there is no location information in the SIM. In the ATTEMPT field, both the normal and telemetric subscribers are counted. The trigger point for updating this counter is the point when the VMSC receives the LOCATION UPDATING REQUEST message from UMA network.

Data Source

MSC

Source Field

M82B3C144

Source Section

RNS_P_MEAS_VLR1MSC_O2

INTER_VLR_RS_UMA_SUCC

Successful UMA location updates performed by visiting normal subscribers arriving from other PLMN or changing the VLR within the same PLMN. This field is also updated if there is no location information in the SIM. In the SUCCESSFUL field, only the normal subscribers are counted. The trigger point for updating this counter is the point when the VMSC sends the LOCATION UPDATING ACCEPT message to UMA network

Data Source

MSC

Source Field

M82B3C145

Source Section

RNS_P_MEAS_VLR1MSC_O2

INTERPLMNINTRAMSCGSMTOUMTSNOK

Number of unsuccessful inter-PLMN intra-MSC GSM-UMTS handovers

Data Source

MSC

INTERPLMNINTRAMSCGSMTOUMTSOK

Number of successful inter-PLMN intra-MSC GSM-UMTS handovers

Data Source

MSC

INTERPLMNINTRAMSCINTRAGSMNOK

Number of unsuccessful inter-PLMN intra-MSC intra-GSM handovers

Data Source

MSC

INTERPLMNINTRAMSCINTRAGSMOK

Number of successful inter-PLMN intra-MSC intra-GSM handovers

Data Source

MSC

INTERPLMNINTRAMSCINTRAUMTSNOK

Number of unsuccessful inter-PLMN intra-MSC intra-UMTS handovers

Data Source

MSC

INTERPLMNINTRAMSCINTRAUMTSOK

Number of successful inter-PLMN intra-MSC intra-UMTS handovers

Data Source

MSC

INTERPLMNINTRAMSCUMTSTOGSMNOK

Number of unsuccessful inter-PLMN intra-MSC UMTS-GSM handovers

Data Source

MSC

INTERPLMNINTRAMSCUMTSTOGSMOK

Number of successful inter-PLMN intra-MSC UMTS-GSM handovers

Data Source

MSC

INTERVLRHSGSMATTEMPT

GSM location update attempts between VLRs performed by home subscribers (both those coming from another PLMN and the ones inside the network changing the VLR). New home subscribers (just purchased SIM) are updated in this field.

Data Source

MSC

Source Field

M82B3C106

INTERVLRHSGSMSUCC

GSM successful location updates between VLRs performed by home subscribers (both those coming from another PLMN and the ones inside the network changing the VLR). New home subscribers (just purchased SIM) are updated in this field.

Data Source

MSC

Source Field

M82B3C107

INTERVLRHSGSMSUCCTM1

GSM location updates between VLRs performed by home subscribers (both those coming from another PLMN and the ones inside the network changing the VLR).

Data Source

MSC

Source Field

M82B8C107

INTERVLRHSGSMSUCCTM2

GSM location updates between VLRs performed by home subscribers (both those coming from another PLMN and the ones inside the network changing the VLR).

Data Source

MSC

Source Field

M82B11C107

INTERVLRHSGSMSUCCTM3

GSM location updates between VLRs performed by home subscribers (both those coming from another PLMN and the ones inside the network changing the VLR).

Data Source

MSC

Source Field

M82B14C107

INTERVLRHSUMTSATTEMPT

UMTS location update attempts between VLRs performed by home subscribers (both those coming from another PLMN and the ones inside the network changing the VLR). New home subscribers (just purchased SIM) are updated in this field.

Data Source

MSC

Source Field

M82B3C108

INTERVLRHSUMTSSUCC

UMTS successful location updates between VLRs performed by home subscribers (both those coming from another PLMN and the ones inside the network changing the VLR). New home subscribers (just purchased SIM) are updated in this field.

Data Source

MSC

Source Field

M82B3C109

INTERVLRHSUMTSSUCCTM1

UMTS location updates between VLRs performed by home subscribers (both those coming from another PLMN and the ones inside the network changing the VLR).

Data Source

MSC

Source Field

M82B8C109

INTERVLRHSUMTSSUCCTM2

UMTS location updates between VLRs performed by home subscribers (both those coming from another PLMN and the ones inside the network changing the VLR).

Data Source

MSC

Source Field

M82B11C109

INTERVLRHSUMTSSUCCTM3

UMTS location updates between VLRs performed by home subscribers (both those coming from another PLMN and the ones inside the network changing the VLR).

Data Source

MSC

Source Field

M82B14C109

INTERVLRRS GSMATTEMPT

GSM location update attempts performed by visiting normal subscribers arriving from other PLMN or changing the VLR within the same PLMN. This field is also updated if there is no location information in the SIM. In the ATTEMPT field both the normal and telemetric subscribers are counted.

Data Source

MSC

Source Field

M82B3C118

INTERVLRRSGSMSUCC

GSM successful Location updates performed by visiting normal subscribers arriving from other PLMN or changing the VLR within the same PLMN. This field is also updated if there is no location information in the SIM. In the SUCCESSFUL field only the normal subscribers are counted.

Data Source

MSC

Source Field

M82B3C119

INTERVLRRSGSMSUCCTM1

GSM successful location updates performed by visiting telemetric subscribers category 1 arriving from other PLMN or changing the VLR within the same PLMN. This field is also updated if there is no location information in the SIM.

Data Source

MSC

Source Field

M82B8C119

INTERVLRRSGSMSUCCTM2

GSM successful location updates performed by visiting telemetric subscribers category 2 arriving from other PLMN or changing the VLR within the same PLMN. This field is also updated if there is no location information in the SIM.

Data Source

MSC

Source Field

M82B11C119

INTERVLRRSGSMSUCCTM3

GSM successful location updates performed by visiting telemetric subscribers category 3 arriving from other PLMN or changing the VLR within the same PLMN. This field is also updated if there is no location information in the SIM.

Data Source

MSC

Source Field

M82B14C119

INTERVLRRSUMTSATTEMPT

UMTS location update attempts performed by visiting normal subscribers arriving from other PLMN or changing the VLR within the same PLMN. This field is also updated if there is no location information in the SIM. In the ATTEMPT field both the normal and telemetric subscribers are counted.

Data Source

MSC

Source Field

M82B3C120

INTERVLRRSUMTSSUCC

UMTS successful Location updates performed by visiting normal subscribers arriving from other PLMN or changing the VLR within the same PLMN. This field is also updated if there is no location information in the SIM. In the SUCCESSFUL field only the normal subscribers are counted.

Data Source

MSC

Source Field

M82B3C121

INTERVLRRSUMTSSUCCTM1

UMTS successful location updates performed by visiting telemetric subscribers category 1 arriving from other PLMN or changing the VLR within the same PLMN. This field is also updated if there is no location information in the SIM.

Data Source

MSC

Source Field

M82B8C121

INTERVLRRSUMTSSUCCTM2

UMTS successful location updates performed by visiting telemetric subscribers category 2 arriving from other PLMN or changing the VLR within the same PLMN. This field is also updated if there is no location information in the SIM.

Data Source

MSC

Source Field

M82B11C121

INTERVLRRSUMTSSUCCTM3

UMTS successful location updates performed by visiting telemetric subscribers category 3 arriving from other PLMN or changing the VLR within the same PLMN. This field is also updated if there is no location information in the SIM.

Data Source

MSC

Source Field

M82B14C121

INTRA_VLR_INTER_P_HS_UMA_ATT

UMA location update attempts between location areas made by home normal subscribers inside the VLR but the original and target location areas belong to different PLMNs. The trigger point for updating this counter is the point when the VMSC receives the LOCATION UPDATING REQUEST message from UMA network

Data Source

MSC

Source Field

M82B3C136

Source Section

RNS_P_MEAS_VLR1MSC_O2

INTRA_VLR_INTER_P_HS_UMA_SUCC

Successful UMA location updates between location areas made by home normal subscribers inside the VLR but the original and target location areas belong to different PLMNs. The trigger

point for updating this counter is the point when the VMSC sends the LOCATION UPDATING ACCEPT message to UMA network.

Data Source

MSC

Source Field

M82B3C137

Source Section

RNS_P_MEAS_VLR1MSC_O2

INTRA_VLR_INTER_P_RS_UMA_ATT

UMA location update attempts performed by visiting normal subscribers inside the VLR but the original and target location areas belong to different PLMNs. The trigger point for updating this counter is the point when the VMSC receives the LOCATION UPDATING REQUEST message from UMA network.

Data Source

MSC

Source Field

M82B3C142

Source Section

RNS_P_MEAS_VLR1MSC_O2

INTRA_VLR_INTER_P_RS_UMA_SUCC

Successful UMA location updates performed by visiting normal subscribers inside the VLR but the original and target location areas belong to different PLMNs. The trigger point for updating this counter is the point when the VMSC sends the LOCATION UPDATING ACCEPT message to UMA network.

Data Source

MSC

Source Field

M82B3C143

Source Section

RNS_P_MEAS_VLR1MSC_O2

INTRA_VLR_INTRA_P_HS_UMA_ATT

UMA location update attempts between location areas made by home normal subscribers inside the VLR and within the same PLMN. The trigger point for updating this counter is the point when the VMSC receives the LOCATION UPDATING REQUEST message from UMA network.

Data Source

MSC

Source Field

M82B3C134

Source Section

RNS_P_MEAS_VLR1MSC_O2

INTRA_VLR_INTRA_P_HS_UMA_SUCC

Successful UMA location updates between location areas made by home normal subscribers inside the VLR and within the same PLMN. The trigger point for updating this counter is the point when the VMSC sends the LOCATION UPDATING ACCEPT message to UMA network.

Data Source

MSC

Source Field

M82B3C135

Source Section

RNS_P_MEAS_VLR1MSC_O2

INTRA_VLR_INTRA_P_RS_UMA_ATT

UMA location update attempts performed by visiting normal subscribers inside the VLR and within the same PLMN. The trigger point for updating this counter is the point when the VMSC receives the LOCATION UPDATING REQUEST message from UMA network.

Data Source

MSC

Source Field

M82B3C140

Source Section

RNS_P_MEAS_VLR1MSC_O2

INTRA_VLR_INTRA_P_RS_UMA_SUCC

Successful UMA location updates performed by visiting normal subscribers inside the VLR and within the same PLMN. The trigger point for updating this counter is the point when the VMSC sends the LOCATION UPDATING ACCEPT message to UMA network.

Data Source

MSC

Source Field

M82B3C141

Source Section

RNS_P_MEAS_VLR1MSC_O2

INTRABSCOK

Number of successful intra-BSC handovers

Data Source

MSC

INTRACELLOK

Number of successful intra-cell handovers

Data Source

MSC

INTRAMSCGSMTOUMTSNOK

Number of unsuccessful intra-MSC GSMUMTS handovers

Data Source

MSC

INTRAMSCGSMTOUMTSOK

Number of successful intra-MSC GSMUMTS handovers

Data Source

MSC

INTRAMSCINTRAGSMNOK

Number of unsuccessful intra-MSC intra-GSM handovers

Data Source

MSC

INTRAMSCINTRAGSMOK

Number of successful intra-MSC intra-GSM handovers

Data Source

MSC

INTRAMSCINTRAUMTSNOK

Number of unsuccessful intra-MSC intra-UMTS handovers

Data Source

MSC

INTRAMSCINTRAUMTSOK

Number of successful intra-MSC intra-UMTS handovers

Data Source

MSC

INTRAMSCUMTSTOGSMNOK

Number of unsuccessful intra-MSC UMTS-GMS handovers

Data Source

MSC

INTRAMSCUMTSTOGSMOK

Number of successful intra-MSC UMTSGMS handovers

Data Source

MSC

INTRAVLRIAPLMNHSGSMATTEMPTTM1

GSM location update attempts between location areas made by home telemetric subscribers category 1 inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B8C101

INTRAVLRIAPLMNHSGSMATTEMPTTM2

GSM location update attempts between location areas made by home telemetric subscribers category 2 inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B11C101

INTRAVLRIAPLMNHSGSMATTEMPTTM3

GSM location update attempts between location areas made by home telemetric subscribers category 3 inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B14C101

INTRAVLRIAPLMNHSGSMSUCCTM1

GSM successful location updates between location areas made by home telemetric subscribers category 1 inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B8C102

INTRAVLRIAPLMNHSGSMSUCCTM2

GSM successful location updates between location areas made by home telemetric subscribers category 2 inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B11C102

INTRAVLRIAPLMNHSGSMSUCCTM3

GSM successful location updates between location areas made by home telemetric subscribers category 3 inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B14C102

INTRAVLRIAPLMNHSUMTSATTEMPTTM1

UMTS location update attempts between location areas made by home telemetric subscribers category 1 inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B8C103

INTRAVLRIAPLMNHSUMTSATTEMPTTM2

UMTS location update attempts between location areas made by home telemetric subscribers category 2 inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B11C103

INTRAVLRIAPLMNHSUMTSATTEMPTTM3

UMTS location update attempts between location areas made by home telemetric subscribers category 3 inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B14C103

INTRAVLRIAPLMNHSUMTSSUCCTM1

UMTS successful location updates between location areas made by home telemetric subscribers category 1 inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B8C104

INTRAVLRIAPLMNHSUMTSSUCCTM2

UMTS successful location updates between location areas made by home telemetric subscribers category 2 inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B11C104

INTRAVLRIAPLMNHSUMTSSUCCTM3

UMTS successful location updates between location areas made by home telemetric subscribers category 3 inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B14C104

INTRAVLRIAPLMNRSGSMATTEMPTTM1

GSM location update attempts performed by visiting telemetric subscribers category 1 inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B8C110

INTRAVLRIAPLMNRSGSMATTEMPTTM2

GSM location update attempts performed by visiting telemetric subscribers category 2 inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B11C110

INTRAVLRIAPLMNRSGSMATTEMPTTM3

GSM location update attempts performed by visiting telemetric subscribers category 3 inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B14C110

INTRAVLRIAPLMNRSGSMSUCCTM1

GSM successful location updates performed by visiting telemetric subscribers category 1 inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B8C111

INTRAVLRIAPLMNRSGSMSUCCTM2

GSM successful location updates performed by visiting telemetric subscribers category 2 inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B11C111

INTRAVLRIAPLMNRSGSMSUCCTM3

GSM successful location updates performed by visiting telemetric subscribers category 3 inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B14C111

INTRAVLRIAPLMNRSUMTSATTEMPTTM1

UMTS location update attempts performed by visiting telemetric subscribers category 1 inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B8C112

INTRAVLRIAPLMNRSUMTSATTEMPTTM2

UMTS location update attempts performed by visiting telemetric subscribers category 2 inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B11C112

INTRAVLRIAPLMNRSUMTSATTEMPTTM3

UMTS location update attempts performed by visiting telemetric subscribers category 3 inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B14C112

INTRAVLRIAPLMNRSUMTSSUCCTM1

UMTS successful location updates performed by visiting telemetric subscribers category 1 inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B8C113

INTRAVLRIAPLMNRSUMTSSUCCTM2

UMTS successful location updates performed by visiting telemetric subscribers category 2 inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B11C113

INTRAVLRIAPLMNRSUMTSSUCCTM3

UMTS successful location updates performed by visiting telemetric subscribers category 3 inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B14C113

INTRAVLRIEPLMNHSGSMATTEMPTTM1

GSM location update attempts between location areas made by home telemetric subscribers category 1 inside the VLR but the original and target location areas belong to different PLMNs

Data Source

MSC

Source Field

M82B8C105

INTRAVLRIEPLMNHSGSMATTEMPTTM2

GSM location update attempts between location areas made by home telemetric subscribers category 2 inside the VLR but the original and target location areas belong to different PLMNs

Data Source

MSC

Source Field

M82B11C105

INTRAVLRIEPLMNHSGSMATTEMPTTM3

GSM location update attempts between location areas made by home telemetric subscribers category 3 inside the VLR but the original and target location areas belong to different PLMNs

Data Source

MSC

Source Field

M82B14C105

INTRAVLRIEPLMNHSGSMSUCCTM1

GSM successful location updates between location areas made by home telemetric subscribers category 1 inside the VLR but the original and target location areas belong to different PLMNs

Data Source

MSC

Source Field

M82B8C131

INTRAVLRIEPLMNHSGSMSUCCTM2

GSM successful location updates between location areas made by home telemetric subscribers category 2 inside the VLR but the original and target location areas belong to different PLMNs

Data Source

MSC

Source Field

M82B11C131

INTRAVLRIEPLMNHSGSMSUCCTM3

GSM successful location updates between location areas made by home telemetric subscribers category 3 inside the VLR but the original and target location areas belong to different PLMNs

Data Source

MSC

Source Field

M82B14C131

INTRAVLRIEPLMNHSUMTSATTEMPTTM1

UMTS location update attempts between location areas made by home telemetric subscribers category 1 inside the VLR but the original and target location areas belong to different PLMNs

Data Source

MSC

Source Field

M82B8C132

INTRAVLRIEPLMNHSUMTSATTEMPTTM2

UMTS location update attempts between location areas made by home telemetric subscribers category 2 inside the VLR but the original and target location areas belong to different PLMNs

Data Source

MSC

Source Field

M82B11C132

INTRAVLRIEPLMNHSUMTSATTEMPTTM3

UMTS location update attempts between location areas made by home telemetric subscribers category 3 inside the VLR but the original and target location areas belong to different PLMNs

Data Source

MSC

Source Field

M82B14C132

INTRAVLRIEPLMNHSUMTSSUCCTM1

UMTS successful location updates between location areas made by home telemetric subscribers category 1 inside the VLR but the original and target location areas belong to different PLMNs

Data Source

MSC

Source Field

M82B8C133

INTRAVLRIEPLMNHSUMTSSUCCTM2

UMTS successful location updates between location areas made by home telemetric subscribers category 2 inside the VLR but the original and target location areas belong to different PLMNs

Data Source

MSC

Source Field

M82B11C133

INTRAVLRIEPLMNHSUMTSSUCCTM3

UMTS successful location updates between location areas made by home telemetric subscribers category 3 inside the VLR but the original and target location areas belong to different PLMNs

Data Source

MSC

Source Field

M82B14C133

INTRAVLRIEPLMNRSGSMATTEMPTTM1

GSM location update attempts performed by visiting telemetric subscribers category 1 inside the VLR but the original and target location areas belong to different PLMNs.

Data Source

MSC

Source Field

M82B8C114

INTRAVLRIEPLMNRSGSMATTEMPTTM2

GSM location update attempts performed by visiting telemetric subscribers category 2 inside the VLR but the original and target location areas belong to different PLMNs.

Data Source

MSC

Source Field

M82B11C114

INTRAVLRIEPLMNRSGSMATTEMPTTM3

GSM location update attempts performed by visiting telemetric subscribers category 3 inside the VLR but the original and target location areas belong to different PLMNs.

Data Source

MSC

Source Field

M82B14C114

INTRAVLRIEPLMNRSGSMSUCCTM1

GSM successful location updates performed by visiting telemetric subscribers category 1 inside the VLR but the original and target location areas belong to different PLMNs.

Data Source

MSC

Source Field

M82B8C115

INTRAVLRIEPLMNRSGSMSUCCTM2

GSM successful location updates performed by visiting telemetric subscribers category 2 inside the VLR but the original and target location areas belong to different PLMNs.

Data Source

MSC

Source Field

M82B11C115

INTRAVLRIEPLMNRSGSMSUCCTM3

GSM successful location updates performed by visiting telemetric subscribers category 3 inside the VLR but the original and target location areas belong to different PLMNs.

Data Source

MSC

Source Field

M82B14C115

INTRAVLRIEPLMNRSUMTSATTEMPTTM1

UMTS location update attempts performed by visiting telemetric subscribers category 1 inside the VLR but the original and target location areas belong to different PLMNs.

Data Source

MSC

Source Field

M82B8C116

INTRAVLRIEPLMNRSUMTSATTEMPTTM2

UMTS location update attempts performed by visiting telemetric subscribers category 2 inside the VLR but the original and target location areas belong to different PLMNs.

Data Source

MSC

Source Field

M82B11C116

INTRAVLRIEPLMNRSUMTSATTEMPTTM3

UMTS location update attempts performed by visiting telemetric subscribers category 3 inside the VLR but the original and target location areas belong to different PLMNs.

Data Source

MSC

Source Field

M82B14C116

INTRAVLRIEPLMNRSUMTSSUCCTM1

UMTS successful location updates performed by visiting telemetric subscribers category 1 inside the VLR but the original and target location areas belong to different PLMNs.

Data Source

MSC

Source Field

M82B8C117

INTRAVLRIEPLMNRSUMTSSUCCTM2

UMTS successful location updates performed by visiting telemetric subscribers category 2 inside the VLR but the original and target location areas belong to different PLMNs.

Data Source

MSC

Source Field

M82B11C117

INTRAVLRIEPLMNRSUMTSSUCCTM3

UMTS successful location updates performed by visiting telemetric subscribers category 3 inside the VLR but the original and target location areas belong to different PLMNs.

Data Source

MSC

Source Field

M82B14C117

INTRAVLRINTERPLMNHSGSMATTEMPT

GSM location update attempts between location areas made by home normal subscribers inside the VLR but the original and target location areas belong to different PLMNs.

Data Source

MSC

Source Field

M82B3C105

INTRAVLRINTERPLMNHSGSMSUCC

GSM successful location updates between location areas made by home normal subscribers inside the VLR but the original and target location areas belong to different PLMNs.

Data Source

MSC

Source Field

M82B3C131

INTRAVLRINTERPLMNHSUMTSATTEMPT

UMTS location update attempts between location areas made by home normal subscribers inside the VLR but the original and target location areas belong to different PLMNs.

Data Source

MSC

Source Field

M82B3C132

INTRAVLRINTERPLMNHSUMTSSUCC

UMTS successful location updates between location areas made by home normal subscribers inside the VLR but the original and target location areas belong to different PLMNs.

Data Source

MSC

Source Field

M82B3C133

INTRAVLRINTERPLMNRSGSMATTEMPT

GSM location update attempts performed by visiting normal subscribers inside the VLR but the original and target location areas belong to different PLMNs.

Data Source

MSC

Source Field

M82B3C114

INTRAVLRINTERPLMNRSGSMSUCC

GSM successful location updates performed by visiting normal subscribers inside the VLR but the original and target location areas belong to different PLMNs.

Data Source

MSC

Source Field

M82B3C115

INTRAVLRINTERPLMNRSUMTSATTEMPT

UMTS location update attempts performed by visiting normal subscribers inside the VLR but the original and target location areas belong to different PLMNs.

Data Source

MSC

Source Field

M82B3C116

INTRAVLRINTERPLMNRSUMTSSUCC

UMTS successful location updates performed by visiting normal subscribers inside the VLR but the original and target location areas belong to different PLMNs.

Data Source

MSC

Source Field

M82B3C117

INTRAVLRINTRAPLMNHSGSMATTEMPT

GSM location update attempts between location areas made by home normal subscribers inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B3C101

INTRAVLRINTRAPLMNHSGSMSUCC

GSM successful location updates between location areas made by home normal subscribers inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B3C102

INTRAVLRINTRAPLMNHSUMTSATTEMPT

UMTS location update attempts between location areas made by home normal subscribers inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B3C103

INTRAVLRINTRAPLMNHSUMTSSUCC

UMTS successful location updates between location areas made by home normal subscribers inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B3C104

INTRAVLRINTRAPLMNRSGSMATTEMPT

GSM location update attempts performed by visiting normal subscribers inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B3C110

INTRAVLRINTRAPLMNRSGSMSUCC

GSM successful Location updates performed by visiting normal subscribers inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B3C111

INTRAVLRINTRAPLMNRSUMTSATTEMPT

UMTS location update attempts performed by visiting normal subscribers inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B3C112

INTRAVLRINTRAPLMNRSUMTSSUCC

UMTS successful location updates performed by visiting normal subscribers inside the VLR and within the same PLMN.

Data Source

MSC

Source Field

M82B3C113

LUATTEMPTNATIONALROAMSUBS

This counter is updated when a national roaming subscriber attempts to change location areas under the same VLR (normally during an intra-VLR LU). There is no differentiation between normal and telemetric subscribers and between GSM and UMTS location updates. This counter is optional. It appears in the reports only if the national roaming feature is ON. Note: This counter includes all requests independently of their result and indicates whether the subscriber data update was finally skipped or not.

Data Source

MSC

Source Field

M82B6C9

LUREJECTDUEDATABASECL

The number of rejected Location Updates because of the VLR DB is full. This counter is printed only with the advanced database cleaning feature.

Data Source

MSC

Source Field

M82B19C4

Source Section

RNS_P_MEAS_VLR1MSC_O2

LUREJECTDUEDATABASESC

The number of rejected Location Updates because of the VLR DB is full. This counter is printed only with the supercharger feature.

Data Source

MSC

Source Field

M82B20C6

Source Section

RNS_P_MEAS_VLR1MSC_O2

LUREJECTEDNATIONALROAMSUBS

This counter is updated when a national roaming subscriber tries to change location areas under the same VLR (normally during an intra-VLR LU) but the LU is rejected with the 'Roaming Not Allowed' cause code.

Data Source

MSC

Source Field

M82B6C10

LUREQUESTGSMATTEMPT

Shows the total number of the requested GSM location update attempts from A interface

Data Source

MSC

Source Field

M82B7C3

LUREQUESTUMTSATTEMPT

Shows the total number of the requested UMTS location update attempts from A interface

Data Source

MSC

Source Field

M82B7C4

LUSUCCESSNATIONALROAMSUBS

This counter is updated when a national roaming subscriber successfully changes location areas under the same VLR (normally during an intra-VLR LU) and the VLR triggers an extra UpdateLocation procedure towards the HLR. There is no differentiation between normal and telemetric subscribers and between GSM and UMTS location updates. The successful attempts are responded to immediately without updating the subscriber data to the VLR. This counter is optional. It appears in the reports only if the national roaming feature is ON.

Data Source

MSC

Source Field

M82B6C11

LUWITHOUTSDSC

The number of inter-VLR Location Update procedures without Insert Subscriber Data procedure. This counter is printed only with the supercharger feature.

Data Source

MSC

Source Field

M82B20C7

Source Section

RNS_P_MEAS_VLR1MSC_O2

MAXIDLETIMECL

Idle time presents the time passed between the deletion and the last activity of the subscriber in minutes. Shows the maximum of the idle times during the measurement period. This counter is printed only with the advanced database cleaning feature.

Data Source

MSC

Source Field

M82B19C8

Source Section

RNS_P_MEAS_VLR1MSC_O2

MAXIMUMSUBSCRIBERSCL

The limit for the number of subscribers in the VLR (maximum number of subscribers). This counter is printed only with the advanced database cleaning feature.

Data Source

MSC

Source Field

M82B19C3

Source Section

RNS_P_MEAS_VLR1MSC_O2

MESSAGES_DISCARDED

Number of messages discarded (14.8 in ITU-T Q.752)

Data Source

MSC

MGWC_DATA_PROV_RESTARTED

If the statistics data provider program block is restarted in any of the signalling unit(s) during the period, the M389B2C3 counter is written (with value '1') under every record. Otherwise, the counter is omitted. Measured object is the used codec. The possible values for the CODEC:- GSM FR: GSM full rate codec.- GSM EFR: GSM Enhanced full rate codec- FR AMR: Full rate AMR codec. It is used for Edge calls.- HR AMR: Half rate AMR codec. It is used for Edge calls.- UMTS AMR: UMTS AMR codec.- UMTS AMR2: UMTS AMR codec in mode 2. This codec is compatible with FRAMR, HRAMR, and UMTSAMR codecs.- G711A: G.711 codec used for TDM connections with A-law coding.- G711U: G.711 codec used for TDM connections with -law codings.- CLEARMODE: CLEARMODE pseudo-codec used for 64 kbit/s data streams carried transparently in RTP packets.- G7231: G.723.1 Codec used over IP especially for Audio+Video conferencing- G 7231 A NN A: G.723.1

Data Source

MSC

Source Field

M389B2C3

Source Section

RNS_PS_MGWCM_MSC_RAW

MINIDLETIMECL

Idle time presents the time passed between the deletion and the last activity of the subscriber in minutes. Shows the minimum of the idle times during the measurement period. This counter is printed only with the advanced database cleaning feature.

Data Source

MSC

Source Field

M82B19C6

Source Section

RNS_P_MEAS_VLR1MSC_O2

MSCRelease

MSC Release

Data Source

MSC

MSGS_REQ_GTT_FROM_LOCAL_SUBSYS

Messages requiring GT translation from local subsystem

Data Source

MSC

MSGS_REQ_GTT_TO_LOCAL_SUBSYS

Messages requiring GT translation to local subsystem

Data Source

MSC

MSSEARCHATTEMPTS

Search attempts done through all A and Iu interface and Serving GPRS Support Node (SGSN).

Data Source

MSC

MSSEARCHATTEMPTSTM1

Search attempts done through all A and Iu interface and Serving GPRS Support Node (SGSN).
Telemetric subscriber category 1.

Data Source

MSC

MSSEARCHATTEMPTSTM2

Search attempts done through all A and Iu interface and Serving GPRS Support Node (SGSN).
Telemetric subscriber category 2.

Data Source

MSC

MSSEARCHATTEMPTSTM3

Search attempts done through all A and Iu interface and Serving GPRS Support Node (SGSN).
Telemetric subscriber category 3.

Data Source

MSC

MSSEARCHATTFAIL

This counter shows the number of paging requests sent to A and Iu interface (from MSC) during
the measurement period when the paging result is failed. (available for SEARCHING only)

Data Source

MSC

MSSEARCHATTFAILTM1

This counter shows the number of paging requests sent to A and Iu interface (from MSC) during
the measurement period when the paging result is failed. (available for SEARCHING only)
Telemetric subscriber category 1.

Data Source

MSC

MSSEARCHATTFAILTM2

This counter shows the number of paging requests sent to A and Iu interface (from MSC) during
the measurement period when the paging result is failed. (available for SEARCHING only)
Telemetric subscriber category 2.

Data Source

MSC

MSSEARCHATTFAILTM3

This counter shows the number of paging requests sent to A and Iu interface (from MSC) during the measurement period when the paging result is failed. (available for SEARCHING only)
Telemetric subscriber category 3.

Data Source

MSC

MSSEARCHATTSUCC

This counter shows the number of paging requests sent to A and Iu interface (from MSC) during the measurement period when the paging result is successful. (available for SEARCHING only)

Data Source

MSC

MSSEARCHATTSUCCTM1

This counter shows the number of paging requests sent to A and Iu interface (from MSC) during the measurement period when the paging result is successful. (available for SEARCHING only)
Telemetric subscriber category 1.

Data Source

MSC

MSSEARCHATTSUCCTM2

This counter shows the number of paging requests sent to A and Iu interface (from MSC) during the measurement period when the paging result is successful. (available for SEARCHING only)
Telemetric subscriber category 2.

Data Source

MSC

MSSEARCHATTSUCCTM3

This counter shows the number of paging requests sent to A and Iu interface (from MSC) during the measurement period when the paging result is successful. (available for SEARCHING only)
Telemetric subscriber category 3.

Data Source

MSC

MSSEARCHSUCC

Successful search attempts done through all A and Iu interface and Serving GPRS Support Node (SGSN).

Data Source

MSC

MSSEARCHSUCCTM1

Successful search attempts done through all A and Iu interface and Serving GPRS Support Node (SGSN). Telemetric subscriber category 1.

Data Source

MSC

MSSEARCHSUCCTM2

Successful search attempts done through all A and Iu interface and Serving GPRS Support Node (SGSN). Telemetric subscriber category 2.

Data Source

MSC

MSSEARCHSUCCTM3

Successful search attempts done through all A and Iu interface and Serving GPRS Support Node (SGSN). Telemetric subscriber category 3.

Data Source

MSC

NBROFDELETEDSUBSACTIVESC

Number of active subscribers deleted from the VLR during the measurement period. This counter is printed only with the supercharger feature.

Data Source

MSC

Source Field

M82B20C14

Source Section

RNS_P_MEAS_VLR1MSC_O2

NBROFDELETEDSUBSCL

Number of subscribers deleted from the VLR during the measurement period. This counter is printed only with the advanced database cleaning feature.

Data Source

MSC

Source Field

M82B19C5

Source Section

RNS_P_MEAS_VLR1MSC_O2

NBROFDELETEDSUBPASSIVESC

Number of passive subscribers deleted from the VLR during the measurement period. This counter is printed only with the supercharger feature.

Data Source

MSC

Source Field

M82B20C15

Source Section

RNS_P_MEAS_VLR1MSC_O2

NSEP_ABANDON

The total number of times when the PRIORITY calls are removed from a trunk queue because the MS has disconnected the call, radio contact with the MS has been lost, or a release message is received on the incoming ISUP trunk (counter 0.16).

Data Source

MSC

Source Field

M392B3C9

Source Section

RNS_P_MEAS_PRCA_O17

NSEP_ATTEMPTS

Requires trunks to point outside the MSC (counter 0.10).

Data Source

MSC

Source Field

M392B3C3

Source Section

RNS_P_MEAS_PRCA_O11

NSEP_CALLS

Shows which trunks are successfully set up to a succeeding MSC, that is, an ACM, ANM, or REL message (for an ISUP trunk), or an acknowledgement wink (for an MF trunk) is received (counter 0.11).

Data Source

MSC

Source Field

M392B3C4

Source Section

RNS_P_MEAS_PRCA_O12

NSEP_CHANNEL_ASSIGNED

Total number of incoming PRIORITY calls for which radio traffic channel has been assigned (counter 0.6).

Data Source

MSC

Source Field

M392B2C7

Source Section

RNS_P_MEAS_PRCA_O7

NSEP_NO_CIRC

These are the calls that cannot be routed on any trunk to point outside the MSC because no idle trunks are available (counter 0.12).

Data Source

MSC

Source Field

M392B3C5

Source Section

RNS_P_MEAS_PRCA_O13

NSEP_OVERFLOW

The total number of times that the PRIORITY calls fail to queue for a trunk in a trunk group because the maximum trunk queue length for that trunk group has been reached (counter 0.14).

Data Source

MSC

Source Field

M392B3C7

Source Section

RNS_P_MEAS_PRCA_O15

NSEP_QUEUED

The total number of PRIORITY calls that are queued for a trunk to point outside the MSC (counter 0.13).

Data Source

MSC

Source Field

M392B3C6

Source Section

RNS_P_MEAS_PRCA_O14

NSEP_TIME_OUT

The total number of times when the PRIORITY calls are removed from a trunk queue because the call exceeded the maximum trunk queue time for that trunk group (counter 0.15).

Data Source

MSC

Source Field

M392B3C8

Source Section

RNS_P_MEAS_PRCA_O16

NUMBEROFANSWLRUS_ACVMSC

Number of VLR units which responded to inquiry. This number can be different from the NUMBER OF VLRUS in the case when some of the VLRUs are temporarily out of order or they are overloaded.

Data Source

MSC

NUMBEROFANSWLRUS_VLR1MSC

Number of VLRUs which responded to inquiry. This number can be different from the NUMBER OF VLRUS in the case when some of the VLRUs are temporarily out of order or they are overloaded.

Data Source

MSC

NUMBEROFREUSEDTRIPLETS

The number of reused authentication triplets. If the report contains more than one page, this data is printed out only in the first part of the report.

Data Source

MSC

NUMBEROFSYNCFAIL

The number of synchronisation fails of UMTS subscribers, this data is printed only on the first part of the report.

Data Source

MSC

NUMBEROFUSERREJECT

UMTS MS can decide if it is attached to a valid (not fraudulent) network, and can reject the authentication, this data is printed only in the first part of the report.

Data Source

MSC

NUMBEROFVLRUS_ACVMSC

Number of the installed VLR units in the MSC.

Data Source

MSC

NUMBEROFVLRUS_VLR1MSC

Total number of VLRU pairs in VLR.

Data Source

MSC

NUMOFACTIVESUBSCRSC

Number of active subscribers in the VLR DB at the report generation time. This counter is printed only with the supercharger feature.

Data Source

MSC

Source Field

M82B20C1

Source Section

RNS_P_MEAS_VLR1MSC_O2

NUMOFPASSIVESUBSCRSC

Number of passive subscribers in the VLR DB at the report generation time. This counter is printed only with the supercharger feature.

Data Source

MSC

Source Field

M82B20C2

Source Section

RNS_P_MEAS_VLR1MSC_O2

NUMOFSUBSCRACTUALCL

Number of subscribers in the VLR DB at the report generation time. This counter is printed only with the advanced database cleaning feature.

Data Source

MSC

Source Field

M82B19C1

Source Section

RNS_P_MEAS_VLR1MSC_O2

OUTGOINGINTERMSCGSMTOUMTSNOK

Number of unsuccessful outgoing inter-MSC GSM-UMTS handovers

Data Source

MSC

OUTGOINGINTERMSCGSMTOUMTSOK

Number of successful outgoing inter-MSC GSM-UMTS handovers

Data Source

MSC

OUTGOINGINTERMSCINTRAGSMNOK

Number of unsuccessful outgoing inter-MSC intra-GSM handovers

Data Source

MSC

OUTGOINGINTERMSCINTRAGSMOK

Number of successful outgoing inter-MSC intra-GSM handovers

Data Source

MSC

OUTGOINGINTERMSCINTRAUMTSNOK

Number of unsuccessful outgoing inter-MSC intra-UMTS handovers

Data Source

MSC

OUTGOINGINTERMSCINTRAUMTSOK

Number of successful outgoing inter-MSC intra-UMTS handovers

Data Source

MSC

OUTGOINGINTERMSCUMTSTOGSMNOK

Number of unsuccessful outgoing inter-MSC UMTS-GSM handovers

Data Source

MSC

OUTGOINGINTERMSCUMTSTOGSMOK

Number of successful outgoing inter-MSC UMTS-GSM handovers

Data Source

MSC

OUTIEMSCGSMTOUMTSCLEAR

Number of calls dropped due to failed outgoing inter-MSC GSM-UMTS handovers

Data Source

MSC

Source Field

M81B3C90

Source Section

RNS_P_MEAS_HO1_O2

OUTIEMSCGSMTOUMTSREEST

Number of successful re-establishments in failed outgoing inter-MSC GSM-UMTS handovers

Data Source

MSC

Source Field

M81B3C89

Source Section

RNS_P_MEAS_HO1_O2

OUTIEMSCIAGSMCLEAR

Number of calls dropped due to failed outgoing inter-MSC intra-GSM handovers

Data Source

MSC

Source Field

M81B3C88

Source Section

RNS_P_MEAS_HO1_O2

OUTIEMSCIAGSMREEST

Number of successful re-establishments in failed outgoing inter-MSC intra-GSM handovers

Data Source

MSC

Source Field

M81B3C87

Source Section

RNS_P_MEAS_HO1_O2

OUTIEMSCIAUMTSCLEAR

Number of calls dropped due to failed outgoing inter-MSC intra-UMTS handovers

Data Source

MSC

Source Field

M81B3C94

Source Section

RNS_P_MEAS_HO1_O2

OUTIEMSCIAUMTSREEST

Number of successful re-establishments in failed outgoing inter-MSC intra-UMTS handovers

Data Source

MSC

Source Field

M81B3C93

Source Section

RNS_P_MEAS_HO1_O2

OUTIEMSCUMTSTOGSMCLEAR

Number of calls dropped due to failed outgoing inter-MSC UMTS- GSM handovers

Data Source

MSC

Source Field

M81B3C92

Source Section

RNS_P_MEAS_HO1_O2

OUTIEMSCUMTSTOGSMREEST

Number of successful re-establishments in failed outgoing inter-MSC UMTS-GSM handovers

Data Source

MSC

Source Field

M81B3C91

Source Section

RNS_P_MEAS_HO1_O2

OUTIEPLMNGSMTUUMTSCLR

Number of calls dropped due to failed outgoing inter-PLMN inter-MSC GSMUMTS handovers

Data Source

MSC

Source Field

M81B3C106

Source Section

RNS_P_MEAS_HO1_O2

OUTIEPLMNGSMTUUMTSREEST

Number of successful re-establishments in failed outgoing inter- PLMN inter-MSC GSM-UMTS handovers

Data Source

MSC

Source Field

M81B3C105

Source Section

RNS_P_MEAS_HO1_O2

OUTIEPLMNIAGSMCLEAR

Number of calls dropped due to failed outgoing inter-PLMN inter-MSC intra- GSM handovers

Data Source

MSC

Source Field

M81B3C104

Source Section

RNS_P_MEAS_HO1_O2

OUTIEPLMNIAGSMREEST

Number of successful re-establishments in failed outgoing inter-PLMN inter-MSC intra-GSM handovers

Data Source

MSC

Source Field

M81B3C103

Source Section

RNS_P_MEAS_HO1_O2

OUTIEPLMNIAUMTSCLEAR

Number of calls dropped due to failed outgoing inter-PLMN inter-MSC intra- UMTS handovers

Data Source

MSC

Source Field

M81B3C110

Source Section

RNS_P_MEAS_HO1_O2

OUTIEPLMNIAUMTSREEST

Number of successful re-establishments in failed outgoing inter-PLMN inter-MSC intra-UMTS handovers

Data Source

MSC

Source Field

M81B3C109

Source Section

RNS_P_MEAS_HO1_O2

OUTIEPLMNUMTSTOGSMCLEAR

Number of calls dropped due to failed outgoing inter-PLMN inter-MSC UMTSGSM handovers

Data Source

MSC

Source Field

M81B3C108

Source Section

RNS_P_MEAS_HO1_O2

OUTIEPLMNUMTSTOGSMREEST

Number of successful re-establishments in failed outgoing inter-PLMN inter-MSC UMTS-GSM handovers

Data Source

MSC

Source Field

M81B3C107

Source Section

RNS_P_MEAS_HO1_O2

OUTIERPLMNIERMSCGSMTOUMTSNOK

Number of unsuccessful outgoing inter-PLMN GSM-UMTS handovers

Data Source

MSC

OUTIERPLMNIERMSCGSMTOUMTSOK

Number of successful outgoing inter-PLMN GSM-UMTS handovers

Data Source

MSC

OUTIERPLMNIERMSCINTRAGSMNOK

Number of unsuccessful outgoing inter-PLMN intra-GSM handovers

Data Source

MSC

OUTIERPLMNIERMSCINTRAGSMOK

Number of successful outgoing inter-PLMN intra-GSM handovers

Data Source

MSC

OUTIERPLMNIERMSCINTRAUMTSNOK

Number of unsuccessful outgoing inter-PLMN intra-UMTS handovers

Data Source

MSC

OUTIERPLMNIERMSCINTRAUMTSOK

Number of successful outgoing inter-PLMN intra-UMTS handovers

Data Source

MSC

OUTIERPLMNIERMSCUMTSTOGSMNOK

Number of unsuccessful outgoing inter-PLMN UMTS-GSM handovers

Data Source

MSC

OUTIERPLMNIERMSCUMTSTOGSMOK

Number of successful outgoing inter-PLMN UMTS-GSM handovers

Data Source

MSC

PAGING_FOR_VOICE_ATTEMPTS

The number of paging requests without repagings that were sent on the A interface for mobile terminated voice calls. The counter is updated when MSC sends first Paging message on A interface and the reason of the paging is mobile terminated voice call.

Data Source

MSC

Source Field

M82B4C12

PAGING_FOR_VOICE_SUCC

The number of paging response messages received on the A interface for mobile terminated voice calls.

Data Source

MSC

Source Field

M82B4C13

PAGING_ON_AIF_ATTEMPTS

The number of paging requests without repagings, which were actually sent out on the A-interface. This counter is updated when the MSC sends the first Paging message on the A-interface. The repagings are not counted.

Data Source

MSC

Source Field

M82B4C14

PAGING_ON_AIF_SUCC

The number of paging response messages that were actually received on the Ainterface. This counter is updated when the MSC receives a Paging Response message on the A-interface.

Data Source

MSC

Source Field

M82B4C15

PAGINGTHROUGHHAIFATTEMPTS

Counters for paging when the paging attempt is sent via Iu or A interface

Data Source

MSC

PAGINGTHROUGHHAIFATTEMPTSTM1

Paging attempts done through SGSN. The trigger point for updating this counter is when VLR receives Paging Result message from MSC. This counter is updated independently from the result of the paging operation. Telemetric subscriber category 1.

Data Source

MSC

PAGINGTHROUGHHAIFATTEMPTSTM2

Paging attempts done through SGSN. The trigger point for updating this counter is when VLR receives Paging Result message from MSC. This counter is updated independently from the result of the paging operation. Telemetric subscriber category 2.

Data Source

MSC

PAGINGTHROUGHHAIFATTEMPTSTM3

Paging attempts done through SGSN. The trigger point for updating this counter is when VLR receives Paging Result message from MSC. This counter is updated independently from the result of the paging operation. Telemetric subscriber category 3.

Data Source

MSC

PAGINGTHROUGHHAIFSUCC

Counters for paging when the paging is sent via Iu or A interface and was successful

Data Source

MSC

PAGINGTHROUGHHAIFSUCCTM1

Counters for successful paging when the paging is sent via Iu or A interface. The trigger point for updating this counter is when VLR receives Paging Result message from MSC. This counter is updated when Result is OK. Telemetric subscriber category 1.

Data Source

MSC

PAGINGTHROUGHHAIFSUCCTM2

Counters for successful paging when the paging is sent via Iu or A interface. The trigger point for updating this counter is when VLR receives Paging Result message from MSC. This counter is updated when Result is OK. Telemetric subscriber category 2.

Data Source

MSC

PAGINGTHROUGHHAIFSUCCTM3

Counters for successful paging when the paging is sent via Iu or A interface. The trigger point for updating this counter is when VLR receives Paging Result message from MSC. This counter is updated when Result is OK. Telemetric subscriber category 3.

Data Source

MSC

PAGINGTHROUGHSGSNATTEMPTS

Paging attempts done through SGSN.

Data Source

MSC

PAGINGTHROUGHSGSNATTEMPTSTM1

Paging attempts done through SGSN. The trigger point for updating this counter is when VLR receives Paging Result message from MSC. This counter is updated independently from the result of the paging operation. Telemetric subscriber category 1.

Data Source

MSC

PAGINGTHROUGHSGSNATTEMPTSTM2

Paging attempts done through SGSN. The trigger point for updating this counter is when VLR receives Paging Result message from MSC. This counter is updated independently from the result of the paging operation. Telemetric subscriber category 2.

Data Source

MSC

PAGINGTHROUGHSGSNATTEMPTSTM3

Paging attempts done through SGSN. The trigger point for updating this counter is when VLR receives Paging Result message from MSC. This counter is updated independently from the result of the paging operation. Telemetric subscriber category 3.

Data Source

MSC

PAGINGTHROUGHSGSNSUCC

Successful pagings done through SGSN.

Data Source

MSC

PAGINGTHROUGHSGSNSUCCTM1

Successful pagings done through SGSN. The trigger point for updating this counter is when VLR receives Paging Result message from MSC. This counter is updated when Result is OK. Telemetric subscriber category 1.

Data Source

MSC

PAGINGTHROUGHSGSNSUCCTM2

Successful pagings done through SGSN. The trigger point for updating this counter is when VLR receives Paging Result message from MSC. This counter is updated when Result is OK. Telemetric subscriber category 2.

Data Source

MSC

PAGINGTHROUGHSGSNSUCCTM3

Successful pagings done through SGSN. The trigger point for updating this counter is when VLR receives Paging Result message from MSC. This counter is updated when Result is OK. Telemetric subscriber category 3.

Data Source

MSC

PASSIVEAVEIDLETIMESC

Idle time for the DB cleaning represents the time passed between the deletion and the last activity of the passive subscriber in minutes. Shows the average of the idle times during the measurement period. This counter is printed only with the supercharger feature.

Data Source

MSC

Source Field

M82B20C20

Source Section

RNS_P_MEAS_VLR1MSC_O2

PASSIVEMAXIDLETIMESC

Idle time for the DB cleaning represents the time passed between the deletion and the last activity of the passive subscriber in minutes. Shows the maximum of the idle times during the measurement period. This counter is printed only with the supercharger feature.

Data Source

MSC

Source Field

M82B20C21

Source Section

RNS_P_MEAS_VLR1MSC_O2

PASSIVEMINIDLETIMESC

Idle time for the DB cleaning represents the time passed between the deletion and the last activity of the passive subscriber in minutes. Shows the minimum of the idle times during the measurement period. This counter is printed only with the supercharger feature.

Data Source

MSC

Source Field

M82B20C19

Source Section

RNS_P_MEAS_VLR1MSC_O2

PASSIVESUBSCRTARGETSC

Shows the limit for the active subscribers. This counter is printed only with the supercharger feature.

Data Source

MSC

Source Field

M82B20C4

Source Section

RNS_P_MEAS_VLR1MSC_O2

PASSIVETOACTIVESC

Number of state changes of subscribers from passive to active in the VLR DB during the measurement period. This counter is printed only with the supercharger feature.

Data Source

MSC

Source Field

M82B20C10

Source Section

RNS_P_MEAS_VLR1MSC_O2

PASSTOACTAVEIDLETIMESC

Idle time for the state changes represents the time passed between the actual state change (Passive to Active) and the last activity of the subscriber in minutes. Shows the average of the idle times during the measurement period. This counter is printed only with the supercharger feature.

Data Source

MSC

Source Field

M82B20C12

Source Section

RNS_P_MEAS_VLR1MSC_O2

PASSTOACTMAXIDLETIMESC

Idle time for the state changes represents the time passed between the actual state change (Passive to Active) and the last activity of the subscriber in minutes. Shows the maximum of the idle times during the measurement period. This counter is printed only with the supercharger feature.

Data Source

MSC

Source Field

M82B20C13

Source Section

RNS_P_MEAS_VLR1MSC_O2

PASSTOACTMINIDLETIMESC

Idle time for the state changes represents the time passed between the actual state change (Passive to Active) and the last activity of the subscriber in minutes. Shows the minimum of the idle times during the measurement period. This counter is printed only with the supercharger feature.

Data Source

MSC

Source Field

M82B20C11

Source Section

RNS_P_MEAS_VLR1MSC_O2

PERIODIC_LOC_REG_UMA_ATT

UMA periodic location update attempts for all normal subscribers. The trigger point for updating this counter is the point when the VMSC receives the LOCATION UPDATING REQUEST message from UMA network.

Data Source

MSC

Source Field

M82B3C146

Source Section

RNS_P_MEAS_VLR1MSC_O2

PERIODIC_LOC_REG_UMA_SUCC

Successful UMA periodic location updates for all normal subscribers. The trigger point for updating this counter is the point when the VMSC sends the LOCATION UPDATING ACCEPT message to UMA network.

Data Source

MSC

Source Field

M82B3C147

Source Section

RNS_P_MEAS_VLR1MSC_O2

PERIODICLOCREGGSMATTEMPT

GSM periodic location update attempts for all normal subscribers.

Data Source

MSC

Source Field

M82B3C122

PERIODICLOCREGGSMATTEMPTTM1

GSM periodic location update attempts for all telemetric subscribers category 1

Data Source

MSC

Source Field

M82B8C122

PERIODICLOCREGGSMATTEMPTTM2

GSM periodic location update attempts for all telemetric subscribers category 2

Data Source

MSC

Source Field

M82B11C122

PERIODICLOCREGGSMATTEMPTTM3

GSM periodic location update attempts for all telemetric subscribers category 3

Data Source

MSC

Source Field

M82B14C122

PERIODICLOCREGGSMSCC

GSM successful periodic location update attempts for all normal subscribers.

Data Source

MSC

Source Field

M82B3C123

PERIODICLOCREGGSMSCCTM1

GSM successful periodic location updates for all telemetric subscribers category 1

Data Source

MSC

Source Field

M82B8C123

PERIODICLOCREGGSMSCCTM2

GSM successful periodic location updates for all telemetric subscribers category 2

Data Source

MSC

Source Field

M82B11C123

PERIODICLOCREGGSMSCCTM3

GSM successful periodic location updates for all telemetric subscribers category 3

Data Source

MSC

Source Field

M82B14C123

PERIODICLOCREGUMTSATTEMPT

UMTS periodic location update attempts for all normal subscribers.

Data Source

MSC

Source Field

M82B3C124

PERIODICLOCREGUMTSATTEMPTTM1

UMTS periodic location update attempts for all telemetric subscribers category 1

Data Source

MSC

Source Field

M82B8C124

PERIODICLOCREGUMTSATTEMPTTM2

UMTS periodic location update attempts for all telemetric subscribers category 2

Data Source

MSC

Source Field

M82B11C124

PERIODICLOCREGUMTSATTEMPTTM3

UMTS periodic location update attempts for all telemetric subscribers category 3

Data Source

MSC

Source Field

M82B14C124

PERIODICLOCREGUMTSSUCC

UMTS successful periodic location update attempts for all normal subscribers.

Data Source

MSC

Source Field

M82B3C125

PERIODICLOCREGUMTSSUCCTM1

UMTS successful periodic location updates for all telemetric subscribers category 1

Data Source

MSC

Source Field

M82B8C125

PERIODICLOCREGUMTSSUCCTM2

UMTS successful periodic location updates for all telemetric subscribers category 2

Data Source

MSC

Source Field

M82B11C125

PERIODICLOCREGUMTSSUCCTM3

UMTS successful periodic location updates for all telemetric subscribers category 3

Data Source

MSC

Source Field

M82B14C125

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

PREVENTED_PAGING

The number of pagings failed because of paging prevention. The trigger point for the counter update is when the VLR receives a Paging Result message with NOK and the cause code is CALL TERMINATED BY OPER. This counter is optional and available only when the LAC based paging prevention feature is active

Data Source

MSC

Source Field

M82B23C1

PROVIDER_ABORTS_RECEIVED

Number of provider aborts received (14.10 in ITU-T Q.752)

Data Source

MSC

REASS_ERRORS_NO_REASS_SPACE

Reassembly error - No reassembly space (7.12 in ITU-T Q.752)

Data Source

MSC

REASS_ERRORS_REASSEMBLY_FAILED

Reassembly error - Reassembly failed (7.21 in ITU-T Q.752)

Data Source

MSC

REASS_ERRORS_SEGM_OUT_OF_SEQ

Reassembly error - Segment received out of sequence (7.11 in ITU-T Q.752)

Data Source

MSC

REASS_ERRORS_TIMER_EXPIRES

Reassembly error - Timer T(reass) expiry (7.10 in ITU-T Q.752)

Data Source

MSC

REESTABLISHMENTNOK

Number of unsuccessful re-establishment handovers

Data Source

MSC

REESTABLISHMENTOK

Number of successful re-establishment handovers

Data Source

MSC

REJ_ERROR_FOUND

Tag appears at the end of the given counter group with field value 244 if an unexpected error situation has occurred.

Data Source

MSC

REJ_EXCHG_INC

The total sum of rejected incoming service requests (0...999999999) at the ticket service of all the signalling units of the exchange regardless of the computer units that have been under observation.

Data Source

MSC

REJ_EXCHG_INC_PERCENTX10

The ticket service rejection percentage (0.0...100.0) of all the signalling units of the exchange regardless of the computer units that have been under observation.

Data Source

MSC

REJ_EXCHG_OUTGOING

The number of rejected service requests (0...999999999) that have exceeded the higher rejection limit of the message buffer on the outgoing side. The number of rejected service requests that have exceeded the higher rejection limit of the CPU load on the incoming side.

Data Source

MSC

REJ_NO_RESP_FROM_LRMPRO

Tag appears at the end of the given counter group with field value 242 if the signalling unit has not sent the required information for the following exchange-related counters:
REJ_EXCHG_INC, REJ_EXCHG_INC_PERCENT*10, REJ_EXCHG_OUTGOING.

Data Source

MSC

REJ_NO_RESP_FROM_SIGNPRB

Tag appears at the end of the given counter group with field value 243 if the required information has not been received from the signalling process family that provides counters of the measured object.

Data Source

MSC

REJ_OBSERV_RESTARTED

Tag appears at the end of the given counter group with field value 16 if the signalling unit has not responded during the previous results accumulation period. Therefore, the observation has been restarted during the current results accumulation period. The counters is printed out during the following period.

Data Source

MSC

REJ_REPORT_INQUIRY_FAIL

Tag appears at the end of the given counter group with field value 241 if only part of the required information is received from the signalling process family that provides the counters of the measured object.

Data Source

MSC

REJECT_RXED_BADLY_STRUCT_COMP

Protocol error in comp. portion (reject rec.)- problem code: badly structured component (14.2c in ITU-T Q.752)

Data Source

MSC

REJECT_RXED_DUPLIC_INVOKE_ID

TC user generated problem (Reject received) - duplicate invoke id. (14.3a in ITU-T Q.752)

Data Source

MSC

REJECT_RXED_INITIATING_RELEASE

TC user generated problem (Reject received) - initiating release (14.3e in ITU-T Q.752)

Data Source

MSC

REJECT_RXED_LINKED_RESP_UNEXP

TC user generated problem (Reject received) - linked response unexpected (14.3f in ITU-T Q.752)

Data Source

MSC

REJECT_RXED_MISTYPED_COMPONENT

Protocol error in comp. portion (reject rec.)- problem code: mistyped component (14.2b in ITU-T Q.752)

Data Source

MSC

REJECT_RXED_MISTYPED_PARAM_RE

TC user generated problem (Reject received) - mistyped parameter (RE) (14.3k in ITU-T Q.752)

Data Source

MSC

REJECT_RXED_MISTYPED_PARAM_RR

TC user generated problem (Reject received) - mistyped parameter (RR) (14.3j in ITU-T Q.752)

Data Source

MSC

REJECT_RXED_MISTYPED_PARAMETER

TC user generated problem (Reject received) - mistyped parameter (14.3c in ITU-T Q.752)

Data Source

MSC

REJECT_RXED_RESOURCE_LIMITAT

TC user generated problem (Reject received) - resource limitation (14.3d in ITUT Q.752)

Data Source

MSC

REJECT_RXED_RETURN_ERROR_UNEXP

Protocol error in comp. portion (reject rec.)-problem code: return error unexpected (14.2h in ITU-T Q.752)

Data Source

MSC

REJECT_RXED_RETURN_RESULT_UNEX

Protocol error in comp. portion (reject rec.)-problem code: return result unexpected (14.2f in ITU-T Q.752)

Data Source

MSC

REJECT_RXED_UNEXP_LINKED_OPER

TC user generated problem (Reject received) - unexpected linked operation (14.3g in ITU-T Q.752)

Data Source

MSC

REJECT_RXED_UNEXPECTED_ERROR

TC user generated problem (Reject received) - unexpected error (14.3i in ITU-T Q.752)

Data Source

MSC

REJECT_RXED_UNREC_COMPONENT

Protocol error in comp. portion (reject rec.)- problem code: unrecognized component (14.2a in ITU-T Q.752)

Data Source

MSC

REJECT_RXED_UNREC_INVOKE_ID_RE

Protocol error in comp. portion (reject rec.)-problem code: unrecognized invoke id. (RE) (14.2g in ITU-T Q.752)

Data Source

MSC

REJECT_RXED_UNREC_INVOKE_ID_RR

Protocol error in comp. portion (reject rec.)-problem code: unrecognized invoke id. (RR) (14.2e in ITU-T Q.752)

Data Source

MSC

REJECT_RXED_UNREC_LINKED_ID

Protocol error in comp. portion (reject rec.)- problem code: unrecognized linked id. (14.2d in ITU-T Q.752)

Data Source

MSC

REJECT_RXED_UNREC_OPERATION

TC user generated problem (Reject received) - unrecognized operation (14.3b in ITU-T Q.752)

Data Source

MSC

REJECT_RXED_UNRECOGNIZED_ERROR

TC user generated problem (Reject received) - unrecognized error (14.3h in ITU-T Q.752)

Data Source

MSC

REJECT_SENT_BADLY_STRUCT_COMP

Protocol error in comp. portion (reject sent)- problem code: badly structured component (14.5c in ITU-T Q.752)

Data Source

MSC

REJECT_SENT_DUPLIC_INVOKE_ID

TC user generated problem (Reject sent) - duplicate invoke id. (14.6a in ITU-T Q.752)

Data Source

MSC

REJECT_SENT_INITIATING_RELEASE

TC user generated problem (Reject sent) - initiating release (14.6e in ITU-T Q.752)

Data Source

MSC

REJECT_SENT_LINKED_RESP_UNEXP

TC user generated problem (Reject sent) - linked response unexpected (14.6f in ITU-T Q.752)

Data Source

MSC

REJECT_SENT_MISTYPED_COMPONENT

Protocol error in comp. portion (reject sent)- problem code: mistyped component (14.5b in ITU-T Q.752)

Data Source

MSC

REJECT_SENT_MISTYPED_PARAM_RE

TC user generated problem (Reject sent) - mistyped parameter (RE) (14.6k in ITU-T Q.752)

Data Source

MSC

REJECT_SENT_MISTYPED_PARAM_RR

TC user generated problem (Reject sent) - mistyped parameter (RR) (14.6j in ITU-T Q.752)

Data Source

MSC

REJECT_SENT_MISTYPED_PARAMETER

TC user generated problem (Reject sent) - mistyped parameter (14.6c in ITU-T Q.752)

Data Source

MSC

REJECT_SENT_RESOURCE_LIMITAT

TC user generated problem (Reject sent) - resource limitation (14.6d in ITU-T Q.752)

Data Source

MSC

REJECT_SENT_RETURN_ERROR_UNEXP

Protocol error in comp. portion (reject sent)-problem code: return error unexpected (14.5h in ITU-T Q.752)

Data Source

MSC

REJECT_SENT_RETURN_RESULT_UNEX

Protocol error in comp. portion (reject sent)-problem code: return result unexpected (14.5f in ITU-T Q.752)

Data Source

MSC

REJECT_SENT_UNEXP_LINKED_OPER

TC user generated problem (Reject sent) - unexpected linked operation (14.6g in ITU-T Q.752)

Data Source

MSC

REJECT_SENT_UNEXPECTED_ERROR

TC user generated problem (Reject sent) - unexpected error (14.6i in ITU-T Q.752)

Data Source

MSC

REJECT_SENT_UNREC_COMPONENT

Protocol error in comp. portion (reject sent)- problem code: unrecognized component (14.5a in ITU-T Q.752)

Data Source

MSC

REJECT_SENT_UNREC_INVOKE_ID_RE

Protocol error in comp. portion (reject sent)-problem code: unrecognized invoke id. (RE) (14.5g in ITU-T Q.752)

Data Source

MSC

REJECT_SENT_UNREC_INVOKE_ID_RR

Protocol error in comp. portion (reject sent)-problem code: unrecognized invoke id. (RR) (14.5e in ITU-T Q.752)

Data Source

MSC

REJECT_SENT_UNREC_LINKED_ID

Protocol error in comp. portion (reject sent)-problem code: unrecognized linked id. (14.5d in ITU-T Q.752)

Data Source

MSC

REJECT_SENT_UNREC_OPERATION

TC user generated problem (Reject sent) - unrecognized operation (14.6b in ITU-T Q.752)

Data Source

MSC

REJECT_SENT_UNRECOGNIZED_ERROR

TC user generated problem (Reject sent) - unrecognized error (14.6h in ITU-T Q.752)

Data Source

MSC

REJECTS_RECEIVED

Number of rejects received (14.11 in ITU-T Q.752)

Data Source

MSC

RESTART_IN_STU

Indicates that duplex restart occurred in STU(s) during the measurement. The counters are unreliable. The field has an effect on all report parts. The possible value is 1, or this field does not appear in the report.

Data Source

M 13.2

Source Field

M357B1C3

Source Section

RNS_P_MEAS_SIPM_O2

ROUT_DEF_BUND_RATEE

The default highest possible passed call rate (per second) for a gapping gate (0...100).

Data Source

MSC

ROUT_DEF_TOKEN_BANK

Default token bank size (1...32767).

Data Source

MSC

RXED_TC_ABORT_MESSAGES

Number of received ABORT messages (13.2 in ITU-T Q.752)

Data Source

MSC

RXED_TC_BEGIN_MESSAGES

Number of received BEGIN messages (13.2 in ITU-T Q.752)

Data Source

MSC

RXED_TC_COMPONENTS

Number of received TC components (13.4 in ITU-T Q.752)

Data Source

MSC

RXED_TC_CONTINUE_MESSAGES

Number of received CONTINUE messages (13.2 in ITU-T Q.752)

Data Source

MSC

RXED_TC_END_MESSAGES

Number of received END messages (13.2 in ITU-T Q.752)

Data Source

MSC

RXED_TC_UNIDIRECTIONAL_MSGS

Number of received UNIDIRECTIONAL messages (13.2 in ITU-T Q.752)

Data Source

MSC

SCCP_MSGS_FROM_LOCAL_SUBSYSTEM

Processed SCCP messages from local subsystem

Data Source

MSC

SCCP_MSGS_TO_LOCAL_SUBSYSTEM

Processed SCCP messages to local subsystem

Data Source

MSC

SCCP_STP_MESSAGES_HANDLED

Processed STP messages

Data Source

MSC

SCCP_STP_MSGS_REQUIRING_GTT

STP messages requiring GT translation

Data Source

MSC

SEGM_ERRORS_SEGM_NOT_SUPPORTED

Segmentation error - Segmenting not supported (7.19 in ITU-T Q.752)

Data Source

MSC

SEGM_ERRORS_SEGMENTATION_FAIL

Segmentation error - Segmentation failed (7.20 in ITU-T Q.752)

Data Source

MSC

SENT_TC_ABORT_MESSAGES

Number of transmitted ABORT messages (13.1 in ITU-T Q.752)

Data Source

MSC

SENT_TC_BEGIN_MESSAGES

Number of transmitted BEGIN messages (13.1 in ITU-T Q.752)

Data Source

MSC

SENT_TC_COMPONENTS

Number of transmitted TC components (13.3 in ITU-T Q.752)

Data Source

MSC

SENT_TC_CONTINUE_MESSAGES

Number of transmitted CONTINUE messages (13.1 in ITU-T Q.752)

Data Source

MSC

SENT_TC_END_MESSAGES

Number of transmitted END messages (13.1 in ITU-T Q.752)

Data Source

MSC

SENT_TC_UNIDIRECTIONAL_MSGS

Number of transmitted UNIDIRECTIONAL messages (13.1 in ITU-T Q.752)

Data Source

MSC

SIMUL_DATA_PROV_RESTARTED

Shows that if the statistics data provider program block is restarted in any of the signalling unit(s) during the period, the M396B3C1 counter is written (with value '1') under every record. Otherwise the counter is omitted.

Data Source

MSC

Source Field

M396B3C1

Source Section

RNS_PS_SIMCMSC_MSC_RAW

SIMUL_MSC_AVG_SIM_CALL

Shows the average number of simultaneous calls (0...999999999). A sampling is done in each 30 seconds to determine the number of simultaneous calls in the MSC. The average is calculated by dividing the cumulative number of simultaneous calls by the number of samples.

Data Source

MSC

Source Field

M396B2C2

Source Section

RNS_PS_SIMCMSC_MSC_RAW

SIMUL_MSC_PEAK_SIM_CALL

Provides the peak number of simultaneous calls during the measurement period (0...999999999).

Data Source

MSC

Source Field

M396B2C3

Source Section

RNS_PS_SIMCMSC_MSC_RAW

SIP_PERIODIC_LU_ATTEMPT

The periodic location update attempts during a SIP reregistration procedure. It is printed only if the NVS feature is active.

Data Source

MSC

Source Field

M82B6C12

SIP_PERIODIC_LU_SUCC

The successful periodic location update, that is, MAP UpdateLocationAck received, during a reregistration. It is printed only if the NVS feature is active.

Data Source

MSC

Source Field

M82B6C13

SSCCGEN_CGR_1

The number of the circuit group.

Data Source

MSC

SSCCGEN_CGR_10

The number of the circuit group.

Data Source

MSC

SSCCGEN_CGR_2

The number of the circuit group.

Data Source

MSC

SSCCGEN_CGR_3

The number of the circuit group.

Data Source

MSC

SSCCGEN_CGR_4

The number of the circuit group.

Data Source

MSC

SSCCGEN_CGR_5

The number of the circuit group.

Data Source

MSC

SSCCGEN_CGR_6

The number of the circuit group.

Data Source

MSC

SSCCGEN_CGR_7

The number of the circuit group.

Data Source

MSC

SSCCGEN_CGR_8

The number of the circuit group.

Data Source

MSC

SSCCGEN_CGR_9

The number of the circuit group.

Data Source

MSC

SUBSCRIBERBUSY

This counter shows the number of pagings both CS and PS domain) and searchings when the subscriber is busy.

Data Source

MSC

SUBSCRIBERBUSYTM1

This counter shows the number of pagings (both CS and PS domain) and searchings when the subscriber is busy. Telemetric subscriber category 1.

Data Source

MSC

SUBSCRIBERBUSYTM2

This counter shows the number of pagings both (CS and PS domain) and searchings when the subscriber is busy. Telemetric subscriber category 2.

Data Source

MSC

SUBSCRIBERBUSYTM3

This counter shows the number of pagings (both CS and PS domain) and searchings when the subscriber is busy. Telemetric subscriber category 3.

Data Source

MSC

SUBSCRTARGETCL

The target number of subscribers in the VLR DB. Equals to Target DB fill ratio (configurable parameter) multiplied by the limit for the number of subscribers in the VLR (maximum number of subscribers). This counter is printed only with the advanced database cleaning feature.

Data Source

MSC

Source Field

M82B19C2

Source Section

RNS_P_MEAS_VLR1MSC_O2

SUCCESSFAUTHWITHQUINTET

Number of successful authentications with quintet.

Data Source

MSC

SUCCESSFAUTHWITHTRIPLET

Number of successful authentications with triplet.

Data Source

MSC

SUCCESSFUL_CODEC_MODIFICATION

Shows the number of successful codec modification procedures. The counter is updated when the MSC Server receives the APM message and the action indicator is set to "successful codec modification".

Data Source

MSC

Source Field

M388B2C13

Source Section

RNS_PS_TRFO_MSC_RAW

SUCCESSFUL_CODEC_NEGOTIATION

Shows the number of successful codec negotiation procedure. The counter is updated if APM message is received and the action indicator field is set to "selected codec" and the message contains the selected codec.

Data Source

MSC

Source Field

M388B2C11

Source Section

RNS_PS_TRFO_MSC_RAW

SUCCSUBSEQINTERMSCTOMSCANOK

Number of unsuccessful subsequent inter-MSC handovers which are handled back to the first MSC. This counter is updated only in MSC-A (anchor MSC).

Data Source

MSC

SUCCSUBSEQINTERMSCTOMSCAOK

Number of successful subsequent inter-MSC handovers which are handled back to the first MSC. This counter is updated only in MSC-A (anchor MSC).

Data Source

MSC

SUCCSUBSEQINTERMSCTOMSCCNOK

Number of unsuccessful subsequent inter-MSC handovers which are handled towards to a third MSC. This counter is updated only in MSC-A (anchor MSC).

Data Source

MSC

SUCCSUBSEQINTERMSCTOMSCCOK

Number of successful subsequent inter-MSC handovers which are handled towards to a third MSC. This counter is updated only in MSC-A (anchor MSC).

Data Source

MSC

TC_L_CANCEL_IND_FOR_CL_1_OPER

Number of TC_L_CANCEL indications for class 1 operations (14.7 in ITU-T Q.752

Data Source

MSC

TERM_NSEP_CALLS

Total number of PRIORITY calls whose destination is an MS served by that MSC/VLR. This counter is regardless of the origin of calls, for example, it is updated in the case of a mobile-originating, PSTNoriginating call (counter 0.7).

Data Source

MSC

Source Field

M392B2C8

Source Section

RNS_P_MEAS_PRCA_O8

TMSIALLOCATIONATTEMPT

TMSI allocation initiated by the VLR application. This counter is updated both for normal and telemetric subscribers.

Data Source

MSC

Source Field

M82B5C7

Source Section

RNS_P_MEAS_VLR1MSC_O2

TMSIALLOCATIONFAIL

The TMSI allocation did not succeed, because the VLR could not allocate a new TMSI. This counter is updated both for normal and telemetric subscribers.

Data Source

MSC

Source Field

M82B5C9

Source Section

RNS_P_MEAS_VLR1MSC_O2

TMSIALLOCATIONSUCC

TMSI allocation is successfully performed and confirmed by the MS. This counter is updated both for normal and telemetric subscribers.

Data Source

MSC

Source Field

M82B5C8

Source Section

RNS_P_MEAS_VLR1MSC_O2

TOTAL_MESSAGES_REQUIRING_GTT

Messages requiring GT translation, total (9.5 in ITU-T Q.752)

Data Source

MSC

TOTAL_RXED_TC_MESSAGES

Total number of TC messages received (13.2bis in ITU-T Q.752)

Data Source

MSC

TOTAL_SCCP_MESSAGES_HANDLED

Processed SCCP messages, total (9.3 in ITU-T Q.752)

Data Source

MSC

TOTAL_SENT_TC_MESSAGES

Total number of TC messages sent (13.1bis in ITU-T Q.752)

Data Source

MSC

TOTALAVERAGE

Sum of the average numbers of normal subscribers in all location area. The maximum number of location areas in a report is 40.

Data Source

MSC

TOTALCURRENT

Number of normal subscribers in all location area at the reporting time. The maximum number of location areas in a report is 40.

Data Source

MSC

TOTALHOCLEAR

Total number of calls dropped due to failed handovers

Data Source

MSC

Source Field

M81B3C112

Source Section

RNS_P_MEAS_HO1_O2

TOTALHOREEST

Total number of successful reestablishments in failed handovers

Data Source

MSC

Source Field

M81B3C111

Source Section

RNS_P_MEAS_HO1_O2

TOTALNOK

Total number of unsuccessful handovers

Data Source

MSC

TOTALNUMBOFANSWERED

Total number of successful answers received to the VLR authentication vector requests.

Data Source

MSC

TOTALNUMBOFNOTANSWERED

Total number of not answered authentication vector requests.

Data Source

MSC

TOTALNUMBOFQUINTETS

Total number of transferred authentication quintets.

Data Source

MSC

TOTALNUMBOFREQUEST

Total number of authentication vector requests that have been sent by the VLRs. The TOTAL REQUEST contains the TOTAL SYNCHRONISATION REQUEST. This counter is printed in the last part of a multipart report. This field is not shown if there is no any data of transferred authentication vectors.

Data Source

MSC

TOTALNUMBOFSYNCREQ

The total number of synchronisation request which can be sent when the mobile rejects the authentication because the sequence number is out of range. This counter is printed in the last

part of a multi-part report. This field is not shown if there is no any data of transferred authentication vectors.

Data Source

MSC

TOTALNUMBOFTRIPLETS

Total number of transferred authentication triplets.

Data Source

MSC

TOTALNUMBOFUNKNOWNSUBSC

Total number of subscribers whose data cannot be found in the AUC of the HLR.

Data Source

MSC

TOTALOK

Total number of successful handovers

Data Source

MSC

TOTALSUBSCRIBERLIMITSC

Limit of subscribers in the VLR DB (maximum number of active and passive subscribers all together) This counter is printed only with the supercharger feature.

Data Source

MSC

Source Field

M82B20C5

Source Section

RNS_P_MEAS_VLR1MSC_O2

TOTALTELEMETRICSUBCAT1

Number of telemetric subscribers category 1 in all location area at the reporting time. The maximum number of location areas in a report is 40. The telemetric subscribers category 1, 2, and 3 will be presented only in case when the feature is active.

Data Source

MSC

TOTALTELEMETRICSUBCAT2

Number of telemetric subscribers category 2 in all location area at the reporting time. The maximum number of location areas in a report is 40. The telemetric subscribers category 1, 2, and 3 will be presented only in case when the feature is active.

Data Source

MSC

TOTALTELEMETRICSUBCAT3

Number of telemetric subscribers category 3 in all location area at the reporting time. The maximum number of location areas in a report is 40. The telemetric subscribers category 1, 2, and 3 will be presented only in case when the feature is active.

Data Source

MSC

TRFO_ALL_TIME

Total number of calls in the MSS that do not use transcoder resources during the whole call.

Data Source

MSC

Source Field

M388B2C2

Source Section

RNS_P_MEAS_TRFO_O3

TRFO_ALL_TIME_WBAMR

Counter which is updated if the call was full time TRFO and the WB-AMR codec was used.

Data Source

MSC

Source Field

M388B2C14

Source Section

RNS_PS_TRFO_MSC_RAW

TRFO_CANDIDATE_FAILED

Number of calls in the MSS that may not use transcoder resources by the nature of the call, but for some reason transcoding is needed.

Data Source

MSC

Source Field

M388B2C3

Source Section

RNS_P_MEAS_TRFO_O4

TRFO_DATA_PROV_RESTARTED

If the data provider in the signalling unit or some signalling units have been restarted during the reporting period, the report data might not be reliable. In this case, the DATA PROVIDER RESTARTED DURING THE PERIOD text appears at the end of the ASCII report, and the M388B2C9 XML counter appears with the value '1'.

Data Source

MSC

Source Field

M388B2C9

Source Section

RNS_P_MEAS_TRFO_O10

TRFO_INTERNAL_ALL_TIME

Total number of calls originating and terminating in the MSS that do not use transcoder resources during the whole call.

Data Source

MSC

Source Field

M388B2C6

Source Section

RNS_P_MEAS_TRFO_O7

TRFO_INTERNAL_CANDIDATE_FAILED

Total number of calls originating and terminating in the MSS that may not use transcoder resources by the nature of the call, but for some reason transcoding is needed.

Data Source

MSC

Source Field

M388B2C7

Source Section

RNS_P_MEAS_TRFO_O8

TRFO_INTERNAL_NON_CANDIDATE

Total number of calls originating and terminating in the MSS that use transcoder resources by the nature of the call.

Data Source

MSC

Source Field

M388B2C8

Source Section

RNS_P_MEAS_TRFO_O9

TRFO_INTERNAL_PART_TIME

Total number of calls originating and terminating in the MSS that do not use transcoder resources for some time during the call.

Data Source

MSC

Source Field

M388B2C5

Source Section

RNS_P_MEAS_TRFO_O6

TRFO_NON_CANDIDATE

Total number of calls in the MSS that use transcoder resources by the nature of the call.

Data Source

MSC

Source Field

M388B2C4

Source Section

RNS_P_MEAS_TRFO_O5

TRFO_PART_TIME

Total number of calls in the MSS that do not use transcoder resources for some time during the call.

Data Source

MSC

Source Field

M388B2C1

Source Section

RNS_P_MEAS_TRFO_O2

TRP_ANSWERED_CALLS_X100

The number of calls in per cents. If the percentage contains 4 digits then the last 2 digits express the decimal value. If the percentage contains 3 digits then the last digit expresses the decimal value.

Data Source

MSC

TRP_ASNWERED_CALLS_TOTAL

The number of calls is stored in this counter.

Data Source

MSC

TRP_CC_GROUP1_TOTAL

The number of calls ended in release code that belongs to release code group 1-8 is stored in this counter.

Data Source

MSC

TRP_CC_GROUP1_X100

The number of calls ended in current release code group per cents. If the percentage contains 4 digits then the last 2 digits express the decimal value. If the percentage contains 3 digits then the last digit expresses the decimal value.

Data Source

MSC

TRP_CC_GROUP2_TOTAL

The number of calls ended in release code that belongs to release code group 1-8 is stored in this counter.

Data Source

MSC

TRP_CC_GROUP2_X100

The number of calls ended in current release code group per cents. If the percentage contains 4 digits then the last 2 digits express the decimal value. If the percentage contains 3 digits then the last digit expresses the decimal value.

Data Source

MSC

TRP_CC_GROUP3_TOTAL

The number of calls ended in release code that belongs to release code group 1-8 is stored in this counter.

Data Source

MSC

TRP_CC_GROUP3_X100

The number of calls ended in current release code group per cents. If the percentage contains 4 digits then the last 2 digits express the decimal value. If the percentage contains 3 digits then the last digit expresses the decimal value.

Data Source

MSC

TRP_CC_GROUP4_TOTAL

The number of calls ended in release code that belongs to release code group 1-8 is stored in this counter.

Data Source

MSC

TRP_CC_GROUP4_X100

The number of calls ended in current release code group per cents. If the percentage contains 4 digits then the last 2 digits express the decimal value. If the percentage contains 3 digits then the last digit expresses the decimal value.

Data Source

MSC

TRP_CC_GROUP5_TOTAL

The number of calls ended in release code that belongs to release code group 1-8 is stored in this counter.

Data Source

MSC

TRP_CC_GROUP5_X100

The number of calls ended in current release code group per cents. If the percentage contains 4 digits then the last 2 digits express the decimal value. If the percentage contains 3 digits then the last digit expresses the decimal value.

Data Source

MSC

TRP_CC_GROUP6_TOTAL

The number of calls ended in release code that belongs to release code group 1-8 is stored in this counter.

Data Source

MSC

TRP_CC_GROUP6_X100

The number of calls ended in current release code group per cents. If the percentage contains 4 digits then the last 2 digits express the decimal value. If the percentage contains 3 digits then the last digit expresses the decimal value.

Data Source

MSC

TRP_CC_GROUP7_TOTAL

The number of calls ended in release code that belongs to release code group 1-8 is stored in this counter.

Data Source

MSC

TRP_CC_GROUP7_X100

The number of calls ended in current release code group per cents. If the percentage contains 4 digits then the last 2 digits express the decimal value. If the percentage contains 3 digits then the last digit expresses the decimal value.

Data Source

MSC

TRP_CC_GROUP8_TOTAL

The number of calls ended in release code that belongs to release code group 1-8 is stored in this counter.

Data Source

MSC

TRP_CC_GROUP8_X100

The number of calls ended in current release code group per cents. If the percentage contains 4 digits then the last 2 digits express the decimal value. If the percentage contains 3 digits then the last digit expresses the decimal value.

Data Source

MSC

TRP_NO_OF_BIDS_TOTAL

The number of calls is stored in this counter.

Data Source

MSC

TRP_NO_OF_BIDS_X100

The number of answered calls in per cents. If the percentage contains 4 digits then the last 2 digits express the decimal value. If the percentage contains 3 digits then the last digit expresses the decimal value.

Data Source

MSC

TRP_NOT_ANSW_CALLS_TOTAL

The number of the not answered calls is stored in this counter.

Data Source

MSC

TRP_NOT_ANSW_CALLS_X100

The number of the not answered calls in per cents. If the percentage contains 4 digits then the last 2 digits express the decimal value. If the percentage contains 3 digits then the last digit expresses the decimal value.

Data Source

MSC

ULMC_DATA_MISSING

It shows that load control measurement data is missing from some or all units. If the data is missing from all units then the load management counters won't be printed afterwards at all. The possible value is 1 or this field does not appear in the report.

Data Source

MSC

Source Field

M82B22C1

Source Section

RNS_P_MEAS_VLR1MSC_O2

ULMC_INTER_VLRLU_ATTEMPTS

All inter VLR location update attempts during measurement period. The trigger point for updating this counter is the point when the VLR receives the LOCATION UPDATING REQUEST message from a subscriber that is not currently registered in it.

Data Source

MSC

Source Field

M82B22C12

Source Section

RNS_P_MEAS_VLR1MSC_O2

ULMC_INTER_VLRLU_REJECTIONS

All inter VLR location update rejections during measurement period made by traffic control. The trigger point for updating this counter is the point when VLR updates counter INTER-VLR LOCATION UPDATE ATTEMPTS and decides to reject the transaction because of the CPU load.

Data Source

MSC

Source Field

M82B22C13

Source Section

RNS_P_MEAS_VLR1MSC_O2

ULMC_INTRA_VLRLU_ATTEMPTS

All intra VLR location update attempts during measurement period. The trigger point for updating this counter is the point when the VLR receives the LOCATION UPDATING REQUEST message from a subscriber that is already registered in it.

Data Source

MSC

Source Field

M82B22C10

Source Section

RNS_P_MEAS_VLR1MSC_O2

ULMC_INTRA_VLRLU_REJECTIONS

All intra VLR location update rejections during measurement period made by traffic control. The trigger point for updating this counter is the point when VLR updates counter INTRA-VLR LOCATION UPDATE ATTEMPTS and decides to reject the transaction because of the CPU load.

Data Source

MSC

Source Field

M82B22C11

Source Section

RNS_P_MEAS_VLR1MSC_O2

ULMC_MO_CALL_ATTEMPTS

All mobile originating call transaction attempts during measurement period. The trigger point for updating this counter is the point when the VLR receives the access request message for mobile originated call.

Data Source

MSC

Source Field

M82B22C2

Source Section

RNS_P_MEAS_VLR1MSC_O2

ULMC_MO_CALL_REJECTIONS

All mobile originating call transaction rejections during measurement period made by traffic control. The trigger point for updating this counter is the point when VLR updates counter MOBILE ORIGINATING CALL ATTEMPTS and decides to reject the transaction because of the CPU load.

Data Source

MSC

Source Field

M82B22C3

Source Section

RNS_P_MEAS_VLR1MSC_O2

ULMC_MO_SMS_ATTEMPTS

All mobile originating SMS attempts during measurement period. The trigger point for updating this counter is the point when the VLR receives the access request message for mobile originated short message.

Data Source

MSC

Source Field

M82B22C6

Source Section

RNS_P_MEAS_VLR1MSC_O2

ULMC_MO_SMS_REJECTIONS

All mobile originating SMS rejections during measurement period made by traffic control. The trigger point for updating this counter is the point when VLR updates counter MOBILE ORIGINATING SMS ATTEMPTS and decides to reject the transaction because of the CPU load.

Data Source

MSC

Source Field

M82B22C7

Source Section

RNS_P_MEAS_VLR1MSC_O2

ULMC_MT_CALL_ATTEMPTS

All mobile terminating call transaction attempts during measurement period. The trigger point for updating this counter is the point when the VMSC asks for subscriber's basic service from VLR after receiving the IAM from the GMSC.

Data Source

MSC

Source Field

M82B22C4

Source Section

RNS_P_MEAS_VLR1MSC_O2

ULMC_MT_CALL_REJECTIONS

All mobile terminating call transaction rejections during measurement period made by traffic control. The trigger point for updating this counter is the point when VLR updates counter MOBILE TERMINATING CALL ATTEMPTS and decides to reject the transaction because of the CPU load.

Data Source

MSC

Source Field

M82B22C5

Source Section

RNS_P_MEAS_VLR1MSC_O2

ULMC_MT_SMS_ATTEMPTS

All mobile terminating SMS attempts during measurement period. The trigger point for updating this counter is the point when the VLR receives the request for subscriber information for forwarding a mobile terminated short message.

Data Source

MSC

Source Field

M82B22C8

Source Section

RNS_P_MEAS_VLR1MSC_O2

ULMC_MT_SMS_REJECTIONS

All mobile terminating SMS rejections during measurement period made by traffic control. The trigger point for updating this counter is the point when VLR updates counter MOBILE TERMINATING SMS ATTEMPTS and decides to reject the transaction because of the CPU load.

Data Source

MSC

Source Field

M82B22C9

Source Section

RNS_P_MEAS_VLR1MSC_O2

USEDSPACE

The filling rate of the VLR database is calculated as the average of the filling rates of the active VLRU pairs.

Data Source

MSC

USER_INDEPENDENT_MESSAGES

Processed users independent SCCP messages

Data Source

MSC

WPS_ATTEMPTS

Requires trunks to point outside the MSC (counter 0.9).

Data Source

MSC

Source Field

M392B3C2

Source Section

RNS_P_MEAS_PRCA_O10

WPS_CALLS_INVOKED

Total number of WPS calls invoked (counter 0.1). This counter is updated both in the VMSC and GMSC, and transit MSC.

Data Source

MSC

Source Field

M392B2C2

Source Section

RNS_P_MEAS_PRCA_O2

WPS_CHANNEL_ASSIGNED

Total number of WPS call invocations for which radio traffic channel has been assigned (counter 0.2).

Data Source

MSC

Source Field

M392B2C3

Source Section

RNS_P_MEAS_PRCA_O3

MSC_Cell Primitive Calculations

The following is a list of primitive calculations for the MSC_Cell entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

MSC_Cell Peg Counts

The following is a list of peg counts for the MSC_Cell entity.

CELLMEAS_INVALID_RECORD_FOUND

The tag appears at the end of the given counter group with field value 1 when the actual record is invalid.

Data Source

MSC

CELLMEAS_MOBIL_ORIG_BIDS

Number of originating bids started during the measurement period (0...999999). Bid is an attempt to reserve a radio channel. The field is updated when the call setup has started.

Data Source

MSC

CELLMEAS_MOBIL_ORIG_EST_CALLS

Number of originating bids that have been answered (0...999999). The field is updated when a call attempt reaches the conversation state.

Data Source

MSC

CELLMEAS_MOBIL_ORIG_SUCC_BIDS

Number of successful originating bids (0...999999). The bid is successful when radio channel has been successfully reserved. The field is updated when an MSC-BSC circuit has been successfully reserved.

Data Source

MSC

CELLMEAS_MOBIL_TERM_BIDS

Number of terminating bids started during the measurement period (0...999999). Bid is an attempt to reserve a radio channel. The field is updated when an MSC-BSC circuit is seized or the seizure fails.

Data Source

MSC

CELLMEAS_MOBIL_TERM_EST_CALLS

Number of terminating bids that have been answered (0...999999). The field is updated when a call attempt reaches the conversation state.

Data Source

MSC

CELLMEAS_MOBIL_TERM_SUCC_BIDS

Number of successful terminating bids (0...999999). The bid is successful when radio channel has been successfully reserved. The field is updated when an MSC-BSC circuit has been successfully reserved.

Data Source

MSC

CELLMEAS_TOTAL_EST_CALLS

Number of originating and terminating bids that have been answered (0...999999). The field is updated when a call attempt reaches the conversation state.

Data Source

MSC

CELLMEAS_TOTAL_NUM_OF_BIDS

Number of originating and terminating bids started during the measurement period (0...999999). Bid is an attempt to reserve a radio channel.

Data Source

MSC

CELLMEAS_TOTAL_SUCC_BIDS

Number of successful originating and terminating bids (0...999999). The bid is successful when a radio channel has been successfully reserved. The field is updated when an MSC-BSC circuit has been successfully reserved.

Data Source

MSC

FROMNEIGHBOURCELLNOK

Unsuccessful handovers from adjacent cell/SA

Data Source

MSC

FROMNEIGHBOURCELLOK

Successful handovers from adjacent cell/SA

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

TONEIGHBOURCELLNOK

Unsuccessful handovers to adjacent cell/SA

Data Source

MSC

TONEIGHBOURCELLOK

Successful handovers to adjacent cell/SA

Data Source

MSC

MSC_Cell_HO Primitive Calculations

The following is a list of primitive calculations for the MSC_Cell_HO entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

MSC_Cell_HO Peg Counts

The following is a list of peg counts for the MSC_Cell_HO entity.

FromNeighbourCellNOK

Unsuccessful handovers from adjacent cell/SA

Data Source

MSC

FromNeighbourCellOK

Successful handovers from adjacent cell/SA

Data Source

MSC

INTRACELLOK

Number of successful intra-cell handovers

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

ToNeighbourCellNOK

Unsuccessful handovers to adjacent cell/SA

Data Source

MSC

ToNeighbourCellOK

Successful handovers to adjacent cell/SA

Data Source

MSC

MSC_ClearCode Primitive Calculations

The following is a list of primitive calculations for the MSC_ClearCode entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

MSC_ClearCode Peg Counts

The following is a list of peg counts for the MSC_ClearCode entity.

CCMEAS_RING

The number of calls ending with clear code in ring phase.

Data Source

MSC

CCMEAS_SIGNALLING

The number of calls ending with clear code in signalling phase.

Data Source

MSC

CCMEAS_SPEECH

The number of calls ending with clear code in speech phase.

Data Source

MSC

DCCC_RING

The number of clear codes in the signalling phase (0...999999999).

Data Source

MSC

DCCC_SIGNALLING

The number of clear codes in the signalling phase (0...999999999).

Data Source

MSC

DCCC_SPEECH

The number of clear codes in the signalling phase (0...999999999).

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

MSC_OutDestination Primitive Calculations

The following is a list of primitive calculations for the MSC_OutDestination entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

MSC_OutDestination Peg Counts

The following is a list of peg counts for the MSC_OutDestination entity.

DTD_ACCEP

Number of successful call attempts, clear codes 0...3FF.

Data Source

MSC

DTD_ANSW

The number of call attempts (0...999999) that have reached the conversation state. The field is updated when the first circuit is released.

Data Source

MSC

DTD_CALLS

Number of call attempts (0...9999999). The field is updated when the first circuit is released.

Data Source

MSC

DTD_DATA_PROV_RESTARTED

Tag appears with value 1 when the data provider in the signalling unit or the signalling unit(s) is restarted during the period and data might not be reliable.

Data Source

MSC

Source Field

M25B2C15

Source Section

RNS_P_MEAS_DTD_O2

DTD_EFAIL

Number of failed call attempts (0...65535) that have terminated in an error in the trunk circuit, clear codes 800...BFF. The field is updated when the first circuit is released.

Data Source

MSC

DTD_ERLANGS

Calculation is started when the incoming number and the outgoing number are known.
Calculation is stopped when the circuit is released. The amount of traffic measured from number destination to number destination in erlangs.

Data Source

MSC

DTD_IFAIL

Number of failed call attempts (0...65535) that have terminated in an error in the home exchange, clear codes 400...7FF. The field is updated when the first circuit is released.

Data Source

MSC

DTD_INVALID_RECORD

The tag appears at the end of the given counter group with field value 1 when the actual record is invalid or if the destination information is corrupted.

Data Source

MSC

DTD_OVERL_CNTRL_ACTIVE

This tag appears at the end of the given counter group if the field value is 10 (In this case the Automatic Overload Control of Statistics has been activated.).

Data Source

MSC

DTD_SFAIL

Number of failed call attempts that have terminated in a subscriber error, clear codes C00...FFF.
The field is updated when the first circuit is released.

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

MSC_SPC Primitive Calculations

The following is a list of primitive calculations for the MSC_SPC entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

MSC_SPC Peg Counts

The following is a list of peg counts for the MSC_SPC entity.

MSCRelease

MSC Release

Data Source

MSC

NUMBEROFANSWERED

Number of successful answers received to the VLR authentication vector requests.

Data Source

MSC

NUMBEROFNOTANSWERED

Number of not answered authentication vector requests.

Data Source

MSC

NUMBEROFQUINTETS

Number of transferred authentication quintets.

Data Source

MSC

NUMBEROFREQUESTS

Number of authentication vector requests that were sent by the VLRs. The REQUEST contains the SYNCHRONISATION REQUEST.

Data Source

MSC

NUMBEROFSYNCREQ

The number of synchronisation request which can be sent when the mobile rejects the authentication because the sequence number is out of range.

Data Source

MSC

NUMBEROFTRIPLETS

Number of transferred authentication triplets.

Data Source

MSC

NUMBEROFUNKNOWNSUBSC

Number of subscribers whose data cannot be found in the AUC of the HLR.

Data Source

MSC

NWEISHLRIFVALUEIS_1

The allowed value for this counter is 1. If counter is sent in XML report with respective value it means that the network element is HLR, which sent the authentication vector. In ASCII report appears HLR in NWE column.

Data Source

MSC

NWEISPLMNIFVALUEIS_1

The allowed value for this counter is 1. If counter is sent in XML report with respective value it means that the network element is PLMN, which sent the authentication vector. In this case the HLR address of the subscriber is unknown and the VLR calculates the HLR address from IMSI. In ASCII report appears PLMN in NWE column.

Data Source

MSC

NWEISVLRIFVALUEIS_1

The allowed value for this counter is 1. If counter is sent in XML report with respective value it means that the network element is VLR, which sent the authentication vector. In ASCII report appears VLR in NWE column and the vectors came from the previous VLR after location update.

Data Source

MSC

PERLENSC

Measurement collection interval (in seconds)

Data Source

MSC

SSCC_RING

The number of clear codes in the ringing phase (0...999999999).

Data Source

MSC

SSCC_SIGNALLING

The number of clear codes in the signalling phase (0...999999999).

Data Source

MSC

SSCC_SPEECH

The number of clear codes in the speech phase (0...999999999).

Data Source

MSC

MSC_TrunkDest Primitive Calculations

The following is a list of primitive calculations for the MSC_TrunkDest entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

MSC_TrunkDest Peg Counts

The following is a list of peg counts for the MSC_TrunkDest entity.

CTD_ANSWERED_CALLS

The number of calls (0...999999) that have reached the conversation state. The field is updated when the first released circuit is released.

Data Source

MSC

CTD_DATA_PROV_RESTARTED

Tag appears with value 1 when the data provider in the signalling unit or the signalling unit(s) is restarted during the period and data might not be reliable.

Data Source

MSC

Source Field

M24B2C15

Source Section

RNS_P_MEAS_CTD_O2

CTD_ERLANGS_x100

The amount of traffic from a circuit group to a number destination in erlangs (0.0...9999.9). That means the total reservation time of the measured object in relation to the results accumulation period. The erlang calculation starts when both circuits are seized.

Data Source

MSC

CTD_EXT_ERROR

Number of failed call attempts (0...65535) that have terminated in an error in the trunk circuit, clear codes 800...BFF. The field is updated when the first released circuit is released.

Data Source

MSC

CTD_INT_ERROR

Number of failed call attempts (0...65535) that have terminated in an error in the home exchange, clear codes 400...7FF. The field is updated when the first released circuit is released.

Data Source

MSC

CTD_INVALID_REC_FOUND

The tag appears at the end of the given counter group with field value 1 when the actual record is invalid.

Data Source

MSC

CTD_NUM_OF_CALL_ATT

Number of call attempts (0...999999). The field is updated when the first released circuit is released.

Data Source

MSC

CTD_OVERLOAD_CTRL_ACT

The tag appears at the end of the given counter group if the field value is 10 (In this case the Automatic Overload Control of Statistics has been activated.).

Data Source

MSC

CTD_SUBSC_ERROR

Number of failed call attempts (0...65535) that have terminated in a subscriber error, clear codes C00...FFF. The field is updated when the first released circuit is released.

Data Source

MSC

CTD_SUCCESSFUL_CALLS

Number of successful call attempts (0...999999), clear codes 0...3FF. The field is updated when the first released circuit is released.

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

MSC_TrunkDestination Primitive Calculations

The following is a list of primitive calculations for the MSC_TrunkDestination entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

MSC_TrunkDestination Peg Counts

The following is a list of peg counts for the MSC_TrunkDestination entity.

MSCRelease

MSC Release

Data Source

MSC

NUMDEST_ANSWERED_CALLS

The number of call attempts (0...65535) that have reached the conversation state. The field is updated when the circuit is released.

Data Source

MSC

NUMDEST_DATA_PROV_RESTARTED

Tag appears with value 1 when data provider in signalling unit or signalling unit(s) is restarted during the period and data might not be reliable.

Data Source

MSC

Source Field

M17B2C14

Source Section

RNS_P_MEAS_NUMD_O2

NUMDEST_ERLANGS_x100

The amount of traffic in the number destination in erlangs. That means the total reservation time of the object being measured in relation to the results accumulation period. The erlangs are calculated from circuit seizure to circuit release.

Data Source

MSC

NUMDEST_EXT_ERROR

Number of failed attempts that have terminated in an error in the trunk circuit, clear codes 800...BFF (0...65535). The field is updated when the circuit is released.

Data Source

MSC

NUMDEST_INT_ERROR

Number of failed attempts that have terminated in an error in the home exchange, clear codes 400...7FF (0...65535). The field is updated when the circuit is released.

Data Source

MSC

NUMDEST_INVALID_REC_FOUND

The tag appears at the end of the given counter group with field value 1 when the actual record is invalid.

Data Source

MSC

NUMDEST_NUM_OF_CALL_ATT

Number of call attempts (0...9999999). The field is updated when the circuit is released.

Data Source

MSC

NUMDEST_OVERLOAD_CTRL_ACT

The tag appears at the end of the given counter group with field value 10 when the Automatic Overload Control of Statistics feature has been activated.

Data Source

MSC

NUMDEST_SUBSC_ERROR

Number of failed attempts that have terminated in a subscriber error, clear codes C00...FFF (0...65535). The field is updated when the circuit is released.

Data Source

MSC

NUMDEST_SUCCESSFUL_CALLS

Number of successful call attempts (0...9999999), clear codes 0...3FF. The field is updated when the circuit is released.

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

MSC_Trunkroute Primitive Calculations

The following is a list of primitive calculations for the MSC_Trunkroute entity.

AVG_HOLD_TIME_INC

Average Hold Time in seconds Incoming Traffic

Calculation

$$\frac{((\text{PERLENSEC} * 60 * \text{CGRCGROUP_ERLANGS_IN_x_100}) / 100.0)}{\text{CGRCGROUP_ACCEPTED_IN}}$$

AVG_HOLD_TIME_OUT

Average Hold Time in seconds Outgoing Traffic

Calculation

$$\frac{((\text{PERLENSEC} * 60 * \text{CGRCGROUP_ERLANGS_OUT_x_100}) / 100.0)}{\text{CGRCGROUP_ACCEPTED_OUT}}$$

AVG_NUMBER_AVAIL_CH

Average number of available Devices

Calculation

$$1.0 * \text{CGRCGROUP_NOF_WOEX_CRTS_IN} + \text{CGRCGROUP_NOF_WOEX_CRTS_OUT} / 2$$

B_ANSW

B answers

Calculation

$$\text{CGRCGROUP_ANSWERED_OUT}$$

B_ANSW_PERC

B answers as a % of Outgoing Success

Calculation

$$100.0 * (\text{CGRCGROUP_ANSWERED_OUT}) / (\text{CGRCGROUP_ACCEPTED_OUT})$$

CALL_ATTEMPTS

Call Attempts.

Calculation

$\text{CGRCGROUP_CALL_AMOUNT_IN} + \text{CGRCGROUP_CALL_AMOUNT_OUT}$

CARRIED_TRAFFIC

Carried Traffic incoming and outgoing in Erlang

Calculation

$((\text{CGRCGROUP_ERLANGS_IN_x_100} / 100.0) + (\text{CGRCGROUP_ERLANGS_OUT_x_100} / 100))$

CHANNEL_AVAIL

Average Number of Available T1s

Calculation

$(1.0 * \text{CGRCGROUP_NOF_WOEX_CRTS_IN} + \text{CGRCGROUP_NOF_WOEX_CRTS_OUT}) / 2 / 100 / 24$

CHANNEL_UNASS

Unassigned Number of T1s

Calculation

$1318 - (\text{CGRCGROUP_NOF_CIRCUITS} / 24)$

CHANNEL_UTILIZATION

Channel Utilization %

Calculation

$100.0 * ((\text{CGRCGROUP_ERLANGS_IN_x_100} / 100) + (\text{CGRCGROUP_ERLANGS_OUT_x_100} / 100)) / ((\text{CGRCGROUP_ERLANGS_OUT_x_100} / 100 + \text{CGRCGROUP_NOF_WOEX_CRTS_OUT} / 100) / 2)$

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

INEF_AT_TOTAL_CALL_INC_ATT

Ineffective Attempts as a % of Total Incoming Call Attempts.

Calculation

$100.0 * ((\text{CGRCGROUP_CALL_AMOUNT_IN} - \text{CGRCGROUP_ACCEPTED_IN}) / \text{CGRCGROUP_CALL_AMOUNT_IN})$

INEF_AT_TOTAL_CALL_OUT_ATT

Ineffective Attempts as a % of Total Outgoing Call Attempts.

Calculation

$$100.0 * ((\text{CGRCGROUP_CALL_AMOUNT_OUT} - \text{CGRCGROUP_ACCEPTED_OUT} - \text{CGRCGROUP_CALL_CONG_x_100}) / \text{CGRCGROUP_CALL_AMOUNT_OUT})$$

MINUTES_OF_USE

Minutes Of Use. This is the hourly minutes of use day or week selection will still show the average minutes of use per hour

Calculation

$$((\text{CGRCGROUP_ERLANGS_IN_x_100} / 100.0) + (\text{CGRCGROUP_ERLANGS_OUT_x_100} / 100.0)) * 60 / 2$$

MOU_INC

Incoming Minutes Of Use

Calculation

$$(\text{CGRCGROUP_ERLANGS_IN_x_100} / 100.0) * 60 / 2$$

MOU_OUTG

Outgoing Minutes Of Use

Calculation

$$(\text{CGRCGROUP_ERLANGS_OUT_x_100} / 100.0) * 60 / 2$$

NOF_BLOCKED_HUNTS

Number of Blocked Hunts

Calculation

$$\text{CGRCGROUP_CALL_CONG_x_100}$$

NOF_BLOCKED_HUNTS_PERC

Outgoing Blocking as a % of Total Attempts

Calculation

$$100.0 * \text{CGRCGROUP_CALL_CONG_x_100} / \text{CGRCGROUP_CALL_AMOUNT_OUT}$$

NOF_INEFFECTIVE_ATTEMPTS

Number of Ineffective Attempts.

Calculation

$$\frac{(CGRCGROUP_CALL_AMOUNT_IN + CGRCGROUP_CALL_AMOUNT_OUT) - (CGRCGROUP_ACCEPTED_IN + CGRCGROUP_ACCEPTED_OUT)}{}$$

NUMBER_CHANNELS_EQUIP

Number of Devices Equipped and Assigned

Calculation

$$CGRCGROUP_NOF_CIRCUITS$$

NUMDAYS

of days in Report

Calculation

$$DAYSINREPORT()$$

NUMHOURS

of hours in Summation Data

Calculation

OFFERED_TRAFFIC

% of Offered Traffic to the Assigned Channels

Calculation

$$100.0 * ((CGRCGROUP_ERLANGS_IN_x_100 / 100.0) + (CGRCGROUP_ERLANGS_OUT_x_100 / 100.0)) / CGRCGROUP_NOF_CIRCUITS$$

RATIO_REP_ROUTE_EXT_F

Ratio of Reported Route External Faults to Call attempts

Calculation

$$100.0 * (1.0 * CGRCGROUP_EXT_FAIL_IN + CGRCGROUP_EXT_FAIL_OUT) / (1.0 * CGRCGROUP_CALL_AMOUNT_IN + CGRCGROUP_CALL_AMOUNT_OUT)$$

RATIO_REP_ROUTE_INT_F

Ratio of Reported Route Int Faults to Call attempts

Calculation

$$100.0 * (1.0 * CGRCGROUP_INT_FAIL_IN + CGRCGROUP_INT_FAIL_OUT) / (1.0 * CGRCGROUP_CALL_AMOUNT_IN + CGRCGROUP_CALL_AMOUNT_OUT)$$

RATIO_REP_ROUTE_SUB_F

Ratio of Reported Route Subscriber Faults to Call attempts

Calculation

$$100.0 * (1.0 * \text{CGRCGROUP_SUBS_FAIL_IN} + \text{CGRCGROUP_SUBS_FAIL_OUT}) / (1.0 * \text{CGRCGROUP_CALL_AMOUNT_IN} + \text{CGRCGROUP_CALL_AMOUNT_OUT})$$

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

SUCC_CALL_COMPLETION

Successful Call Completion.

Calculation

$$\text{CGRCGROUP_ACCEPTED_IN} + \text{CGRCGROUP_ACCEPTED_OUT}$$

UNAVAIL_CHANNELS

Number of Unavailable Devices

Calculation

$$\text{CGRCGROUP_NOF_CIRCUITS} - (\text{CGRCGROUP_NOF_WOEX_CRTS_IN} / 100.0 + \text{CGRCGROUP_NOF_WOEX_CRTS_OUT} / 100.0) / 2$$

MSC_Trunkroute Peg Counts

The following is a list of peg counts for the MSC_Trunkroute entity.

CGRCGROUP_ACCEPTED_IN

Number of successful call attempts (0...999999), clear codes 0...3FF. The field is updated when the first released circuit is released.

Data Source

MSC

CGRCGROUP_ACCEPTED_OUT

Number of successful call attempts (0...999999), clear codes 0...3FF. The field is updated when the first released circuit is released.

Data Source

MSC

CGRCGROUP_ANSWERED_IN

Number of call attempts (0...999999) that have reached the conversation state. The field is updated when the first released circuit is released.

Data Source

MSC

CGRCGROUP_ANSWERED_OUT

Number of call attempts (0...999999) that have reached the conversation state. The field is updated when the first released circuit is released.

Data Source

MSC

CGRCGROUP_CALL_AMOUNT_IN

Number of call attempts (0...999999) that have been started during the measurement period. The field is updated when the circuit is released.

Data Source

MSC

CGRCGROUP_CALL_AMOUNT_OUT

Number of call attempts (0...999999) that have been started during the measurement period. The field is updated when the circuit is released.

Data Source

MSC

CGRCGROUP_CALL_CONG_x_100

Number of call attempts (0...65535) terminated in call congestion. A call attempt terminates in call congestion if all the available circuits have already been reserved, or if the Automatic Congestion Control (ACC) or Selective Circuit Reservation (SCR) features are used to limit the traffic.

Data Source

MSC

CGRCGROUP_CORRUPT_MESSAGE

If record_count is zero (0), then tag is output (with value 1) along with the header informations, and no other data is processed.

Data Source

MSC

CGRCGROUP_DATA_PROV_RESTARTED

Tag appears with value 1 when data provider in signalling unit or signalling unit(s) is restarted during the period and data might not be reliable.

Data Source

MSC

Source Field

M16B2C30

Source Section

RNS_P_MEAS_CGR_O2

CGRCGROUP_ERLANGS_IN_x_100

The amount of traffic on the circuit group in erlangs (0.0...9999.9). That means the total reservation time of the object being measured in relation to the results accumulation period. The erlangs are calculated from circuit seizure to circuit release.

Data Source

MSC

CGRCGROUP_ERLANGS_OUT_x_100

The amount of traffic on the circuit group in erlangs (0.0...9999.9). That means the total reservation time of the object being measured in relation to the results accumulation period. The erlangs are calculated from circuit seizure to circuit release.

Data Source

MSC

CGRCGROUP_EXT_FAIL_IN

Number of failed call attempts (0...65535) that have terminated in an error in the trunk circuit, clear codes 800...BFF. The field is updated when the first released circuit is released.

Data Source

MSC

CGRCGROUP_EXT_FAIL_OUT

Number of failed call attempts (0...65535) that have terminated in an error in the trunk circuit, clear codes 800...BFF. The field is updated when the first released circuit is released.

Data Source

MSC

CGRCGROUP_INT_FAIL_IN

Number of failed call attempts (0...65535) terminated in an error in the home exchange, clear codes 400...7FF. The field is updated when the first released circuit is released.

Data Source

MSC

CGRCGROUP_INT_FAIL_OUT

Number of failed call attempts (0...65535) terminated in an error in the home exchange, clear codes 400...7FF. The field is updated when the first released circuit is released.

Data Source

MSC

CGRCGROUP_INVALID_RECORD

Tag appears at the end of the given counter group if the field value is 0xFF.

Data Source

MSC

CGRCGROUP_MIN_FREE

Minimum number of free circuits in the circuit group during the measurement period. The field is empty if the value is not available.

Data Source

MSC

CGRCGROUP_NOF_CIRCUITS

Number of circuits in the circuit group (1...4096).

Data Source

MSC

CGRCGROUP_NOF_WOEX_CRTS_IN

The average number of circuits available (WO-EX) in the circuit group (0.0...4096.0). The field is empty if the value is not available.

Data Source

MSC

CGRCGROUP_NOF_WOEX_CRTS_OUT

The average number of circuits available (WO-EX) in the circuit group (0.0...4096.0). The field is empty if the value is not available.

Data Source

MSC

CGRCGROUP_RING_IN

Number of call attempts (0...999999) that have reached the ringing phase. When MSS receives the ACM message from the other MSS, Statistics saves that the call has reached the ringing phase.

Data Source

MSC

Source Field

M16B2C31

Source Section

RNS_P_MEAS_CGR_O3

CGRCGROUP_RING_OUT

Number of call attempts (0...999999) that have reached the ringing phase. When MSS receives the ACM message from the other MSS, Statistics saves that the call has reached the ringing phase.

Data Source

MSC

Source Field

M16B2C32

Source Section

RNS_P_MEAS_CGR_O4

CGRCGROUP_SUBS_FAIL_IN

Number of failed call attempts (0...65535) that have terminated in a subscriber error, clear codes C00...FFF. The field is updated when the first released circuit is released.

Data Source

MSC

CGRCGROUP_SUBS_FAIL_OUT

Number of failed call attempts (0...65535) that have terminated in a subscriber error, clear codes C00...FFF. The field is updated when the first released circuit is released.

Data Source

MSC

CGRCGROUP_TIMECONG_PERCENTx100

Time congestion percentage (0.0...100.0) in the circuit group in relation to the results accumulation period. Principle of time congestion (TC) calculation: Time congestion in a circuit group is calculated in relation to the results accumulation period.

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

PERLENSC

Measurement collection interval (in seconds)

Data Source

MSC

NBCell_HO Primitive Calculations

The following is a list of primitive calculations for the NBCell_HO entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

NBCell_HO Peg Counts

The following is a list of peg counts for the NBCell_HO entity.

AVE_NCCR_DURATION_SUM

Sum of NCCR durations. Average NCCR duration is calculated by dividing this counter by number of received flush messages.

Data Source

BSS

Source Field

95016

Source Section

P_NBSC_CELL_RESELECTION

BSSRelease

BSS Release

Data Source

BSS

CI

Cell ID of adjacent cell.

Data Source

BSS

Source Field

15000

Source Section

P_NBSC_HO_ADJ

ECNO_REPORTS_ABOVE_UPPER

Nof Chip Energy per Total Received ch Power Density (Ec/No)

Data Source

BSS

Source Field

94007

Source Section

P_NBSC_UTRAN_NEIGH_CELL_SIG_LEV

ECNO_REPORTS_BELOW_LOWER_LIMIT

Nof Chip Energy per Total Received ch Power Density (Ec/No)

Data Source

BSS

Source Field

94005

Source Section

P_NBSC_UTRAN_NEIGH_CELL_SIG_LEV

ECNO_REPORTS_BETWEEN_LIMITS

Nof Chip Energy per Total Received ch Power Density (Ec/No)

Data Source

BSS

Source Field

94006

Source Section

P_NBSC_UTRAN_NEIGH_CELL_SIG_LEV

EMERGENCY_LR_TO_LB_IF

Number of emergency location requests sent to an external SMLC over Lb interface.

Data Source

BSC

Source Field

78033

Source Section

RBS_PS_PBS_CI_RAW

FAILED_EME_LR_IN_LB_BSC_ABORT

Number of failed emergency location requests in Lb interface when the BSC aborts the location procedure.

Data Source

BSC

Source Field

78038

Source Section

RBS_PS_PBS_CI_RAW

FAILED_EME_LR_IN_LB_CONGEST

Number of failed emergency location requests in Lb interface with a congestion cause.

Data Source

BSC

Source Field

78035

Source Section

RBS_PS_PBS_CI_RAW

FAILED_EME_LR_IN_LB_CONNECT

Number of failed emergency location requests in Lb interface with no connection.

Data Source

BSC

Source Field

78036

Source Section

RBS_PS_PBS_CI_RAW

FAILED_EME_LR_IN_LB_MSC_ABORT

Number of failed emergency location requests in Lb interface when the core (MSC) aborts the location procedure.

Data Source

BSC

Source Field

78037

Source Section

RBS_PS_PBS_CI_RAW

FAILED_EME_LR_IN_LB_TIMEOUT

Number of failed emergency location requests in Lb interface with a timeout cause.

Data Source

BSC

Source Field

78034

Source Section

RBS_PS_PBS_CI_RAW

FEATURE_NOT_SUPPORTED

Number of location requests which are rejected because the PBS feature is not supported.

Data Source

BSS

Source Field

78017

Source Section

P_NBSC_PBS

HO_ATT_FROM_ADJ

The number of handover attempts from the adjacent cell.

Data Source

BSS

Source Field

15003

Source Section

P_NBSC_HO_ADJ

HO_ATT_FROM_WCDMA_RAN

Number of inter-system handover attempts from the WCDMA RAN cell

Data Source

BSS

Source Field

93005

Source Section

P_NBSC_UTRAN_HO_ADJ_CELL

HO_ATT_TO_ADJ

The number of handover attempts to the adjacent cell.

Data Source

BSS

Source Field

15001

Source Section

P_NBSC_HO_ADJ

HO_ATT_TO_WCDMA_RAN_CELL

Number of inter-system handover attempts to the WCDMA RAN cell

Data Source

BSS

Source Field

93002

Source Section

P_NBSC_UTRAN_HO_ADJ_CELL

HO_FAIL_DUE_RES_FROM_WCDMA_RAN

Nof inter-system hos from the WCDMA RAN cell failed due to the lack of resources

Data Source

BSS

Source Field

93007

Source Section

P_NBSC_UTRAN_HO_ADJ_CELL

HO_FAIL_DUE_RES_TO_WCDMA_RAN

Nof inter-system hos failed due to lack of radio resources to the WCDMA RAN cell.

Data Source

BSS

Source Field

93004

Source Section

P_NBSC_UTRAN_HO_ADJ_CELL

HO_FAIL_RES_FROM_ADJ

Number of lack of radio resources during outgoing handovers.

Data Source

BSS

Source Field

15006

Source Section

P_NBSC_HO_ADJ

HO_FAIL_RES_TO_ADJ

Number of lack of radio resources during incoming handovers.

Data Source

BSS

Source Field

15005

Source Section

P_NBSC_HO_ADJ

HO_SUCC_FROM_ADJ

The number of successful handovers from the adjacent cell.

Data Source

BSS

Source Field

15004

Source Section

P_NBSC_HO_ADJ

HO_SUCC_FROM_WCDMA_RAN_CELL

Number of successful inter-system handovers from the WCDMA RAN cell

Data Source

BSS

Source Field

93006

Source Section

P_NBSC_UTRAN_HO_ADJ_CELL

HO_SUCC_TO_ADJ

The number of successful handovers to the adjacent cell.

Data Source

BSS

Source Field

15002

Source Section

P_NBSC_HO_ADJ

HO_SUCC_WCDMA_RAN_CELL

Number of successful inter-system handovers to the WCDMA RAN cell

Data Source

BSS

Source Field

93003

Source Section

P_NBSC_UTRAN_HO_ADJ_CELL

INSUFFICIENT_BTTS_INFORMATION

Number of location requests from the MS.

Data Source

BSS

Source Field

78012

Source Section

P_NBSC_PBS

LAC

Location area code of adjacent cell.

Data Source

BSS

Source Field

15000

Source Section

P_NBSC_HO_ADJ

LOC_REQ_SEND_TO_EXT_SMLC

Number of location requests sent to an external SMLC.

Data Source

BSS

Source Field

78022

Source Section

P_NBSC_PBS

LOWER_EC_NO_LIMIT

Lower limit for Ec/No classification

Data Source

BSS

Source Field

94000

Source Section

P_NBSC_UTRAN_NEIGH_CELL_SIG_LEV

MS_NOT_E_OTD_SUPPORTED

No longer in use.

Data Source

BSS

Source Field

78009

Source Section

P_NBSC_PBS

NACC_WITH_NC0

Added when a PACKET CELL CHANGE CONTINUE message is sent to the MS.

Data Source

BSS

Source Field

95017

Source Section

P_NBSC_CELL_RESELECTION

NACC_WITH_NC2

Added when a PACKET CELL CHANGE CONTINUE message is sent to the MS. Number of times when NACC has been used to assist MS in network control mode 2.

Data Source

BSS

Source Field

95018

Source Section

P_NBSC_CELL_RESELECTION

NBR_LOC_CALC_STAND_ALONE_GPS

Number of successful location calculations using the GPS standalone method.

Data Source

BSS

Source Field

78007

Source Section

P_NBSC_PBS

NBR_OF_ASS_REQ_REJ_BY_LIC

Spare

Data Source

BSS

Source Field

78025

Source Section

P_NBSC_PBS

NBR_OF_CI_CALC

Number of location requests calculated in integrated SMLC with CI method.

Data Source

BSS

Source Field

78031

Source Section

P_NBSC_PBS

NBR_OF_CITARX_CALCULATIONS

No longer in use.

Data Source

BSS

Source Field

78020

Source Section

P_NBSC_PBS

NBR_OF_E_OTD_CALCULATIONS

No longer in use.

Data Source

BSS

Source Field

78004

Source Section

P_NBSC_PBS

NBR_OF_INT_PLR_REJ_BY_LIC

This is used when location requests are blocked by BSC integrated SMLC calculation capacity licence.

Data Source

BSS

Source Field

78030

Source Section

P_NBSC_PBS

NBR_OF_KEY_REQ_REJ_BY_LIC

Spare

Data Source

BSS

Source Field

78026

Source Section

P_NBSC_PBS

NBR_OF_LOC_CALC_CELL_ID_TA

Number of location requests calculated in integrated SMLC with CITA method.

Data Source

BSS

Source Field

78029

Source Section

P_NBSC_PBS

NBR_OF_LOC_REQ_EMERGENCY

Number of successful location calculations requested by emergency calls.

Data Source

BSS

Source Field

78002

Source Section

P_NBSC_PBS

NBR_OF_LOC_REQ_FROM_LCS

Number of successful location calculations requested by external LCS clients.

Data Source

BSS

Source Field

78000

Source Section

P_NBSC_PBS

NBR_OF_LOC_REQ_FROM_MS

Number of successful location calculations requested by the MS.

Data Source

BSS

Source Field

78013

Source Section

P_NBSC_PBS

NBR_OF_LOC_REQ_FROM_OPER

Number of location requests from the operator.

Data Source

BSS

Source Field

78015

Source Section

P_NBSC_PBS

NBR_OF_LOC_REQ_REJ_BY_LIC

Number of the commercial locations requests rejected by the Lb Interface Licencing Manager.

Data Source

BSS

Source Field

78024

Source Section

P_NBSC_PBS

NBR_OF_MCATCH_1_LCS_REQ

Number of location requests which are served using Mcatch 1.0 solution.

Data Source

BSS

Source Field

78018

Source Section

P_NBSC_PBS

NBR_OF_POS_CMD_REJ_BY_LIC

Number of measurement position requests rejected by the Lb Interface Licencing Manager.

Data Source

BSS

Source Field

78027

Source Section

P_NBSC_PBS

NBR_OF_SUCC_CI_CALC

Number of location requests calculated in integrated SMLC with CI method successfully.

Data Source

BSS

Source Field

78032

Source Section

P_NBSC_PBS

NBR_OF_UTDOA_REQ_REJ_BY_LIC

Number of U-TDOA requests rejected by the Lb Interface Licencing Manager.

Data Source

BSS

Source Field

78028

Source Section

P_NBSC_PBS

NCCR_FAIL_ASSIGNMENT_REJECT

NCCR failed with assignment reject cause

Data Source

BSS

Source Field

95008

Source Section

P_NBSC_CELL_RESELECTION

NCCR_FAIL_MS_STANDBY

NCCR failed with "MS in GMM Standby" cause or "Forced to Standby" cause

Data Source

BSS

Source Field

95010

Source Section

P_NBSC_CELL_RESELECTION

NCCR_FAIL_NO_FLUSH_IN_TIME

Abnormal NCCR complete, because FLUSH was not received in time from SGSN

Data Source

BSS

Source Field

95013

Source Section

P_NBSC_CELL_RESELECTION

NCCR_FAIL_NO_RESPONSE

NCCR failed with no response cause.

Data Source

BSS

Source Field

95007

Source Section

P_NBSC_CELL_RESELECTION

NCCR_FAIL_ONGOING_CS_CONN

NCCR failed with ongoing CS connection cause

Data Source

BSS

Source Field

95009

Source Section

P_NBSC_CELL_RESELECTION

NCCR_FAIL_OTHER_CAUSE

NCCR failed with frequency not implemented or other cause

Data Source

BSS

Source Field

95011

Source Section

P_NBSC_CELL_RESELECTION

NCCR_NOT_STARTED_DUE_AC

New NCCR is not started because of target cell admission control.

Data Source

BSS

Source Field

95015

Source Section

P_NBSC_CELL_RESELECTION

NCCR_SUCC_FLUSH_RECEIVED

NCCR completed successfully, as flush was received from SGSN

Data Source

BSS

Source Field

95012

Source Section

P_NBSC_CELL_RESELECTION

NCCR_SUCC_MS_RET_TO_OLD_CELL

MS returned to old cell soon after successful NCCR

Data Source

BSS

Source Field

95014

Source Section

P_NBSC_CELL_RESELECTION

NOT_ENOUGH_OTD_VALUES

No longer in use.

Data Source

BSS

Source Field

78010

Source Section

P_NBSC_PBS

NOT_RIT_COVERAGE

No longer in use.

Data Source

BSS

Source Field

78011

Source Section

P_NBSC_PBS

PCCO_SENT_DUE_COVERAGE_ISNCCR

Number of started NCCR procedures due to coverage based criteria for Inter-System NCCR depending on WCDMA FDD NCCR. Preferred parameter coverage based NCCR is triggered as soon as appropriate WCDMA FDD cell is available, or only in case there is not an appropriate GSM/EDGE cell available and an appropriate WCDMA FDD cell is available

Data Source

BSS

Source Field

95005

Source Section

P_NBSC_CELL_RESELECTION

PCCO_SENT_DUE_QUAL_CTRL

Number of started NCCR procedures due to quality control (QC) criteria

Data Source

BSS

Source Field

95006

Source Section

P_NBSC_CELL_RESELECTION

PCCO_SENT_DUE_SERV_ISNCCR

Number of started NCCR procedures due to service based criteria for Inter-System NCCR.

Data Source

BSS

Source Field

95004

Source Section

P_NBSC_CELL_RESELECTION

PCCO_TO_EGPRS_MS_DUE_PWR_BDGT

Number of started NCCR procedures for GPRS mobiles due to power budget criteria

Data Source

BSS

Source Field

95003

Source Section

P_NBSC_CELL_RESELECTION

PCCO_TO_GPRS_MS_DUE_PWR_BDGT

Number of started NCCR procedures for GPRS mobiles due to power budget criteria

Data Source

BSS

Source Field

95002

Source Section

P_NBSC_CELL_RESELECTION

PERIOD_REAL_START_TIME_UTRAN_N

The real starting time of a period

Data Source

BSS

Source Section

P_NBSC_UTRAN_NEIGH_CELL_SIG_LEV

PERIOD_REAL_START_TIME_UTRANHO

The real starting time of a period

Data Source

BSS

Source Section

P_NBSC_UTRAN_HO_ADJ_CELL

PERIOD_REAL_STOP_TIME_UTRAN_N

The real stopping time of a period

Data Source

BSS

Source Section

P_NBSC_UTRAN_NEIGH_CELL_SIG_LEV

PERIOD_REAL_STOP_TIME_UTRANHO

The real stopping time of a period

Data Source

BSS

Source Section

P_NBSC_UTRAN_HO_ADJ_CELL

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

SEGMENT_ID_HO_ADJ

Segment identification number

Data Source

BSS

Source Section

P_NBSC_HO_ADJ

SEGMENT_ID_UTRAN_HO

Segment identification number

Data Source

BSS

Source Section

P_NBSC_UTRAN_HO_ADJ_CELL

SEGMENT_ID_UTRAN_NEIGH

Segment identification number

Data Source

BSS

Source Section

P_NBSC_UTRAN_NEIGH_CELL_SIG_LEV

SPARE095019

No Description

Data Source

BSS

Source Field

95019

Source Section

P_NBSC_CELL_RESELECTION

SPARE095020

No Description

Data Source

BSS

Source Field

95020

Source Section

P_NBSC_CELL_RESELECTION

SPARE095021

No Description

Data Source

BSS

Source Field

95021

Source Section

P_NBSC_CELL_RESELECTION

SPARE095022

No Description

Data Source

BSS

Source Field

95022

Source Section

P_NBSC_CELL_RESELECTION

SPARE095023

No Description

Data Source

BSS

Source Field

95023

Source Section

P_NBSC_CELL_RESELECTION

SPARE095024

No Description

Data Source

BSS

Source Field

95024

Source Section

P_NBSC_CELL_RESELECTION

SUCC_CITARX_CALCULATIONS

No longer in use.

Data Source

BSS

Source Field

78021

Source Section

P_NBSC_PBS

SUCC_LOC_CALC_BY_LCS_REQ

Number of location requests from emergency calls.

Data Source

BSS

Source Field

78001

Source Section

P_NBSC_PBS

SUCC_LOC_CALC_BY_MS_REQ

Number of location requests from the operator.

Data Source

BSS

Source Field

78014

Source Section

P_NBSC_PBS

SUCC_LOC_CALC_BY_OPER_REQ

Number of successful location calculations requested by the operator.

Data Source

BSS

Source Field

78016

Source Section

P_NBSC_PBS

SUCC_LOC_CALC_CELLID_TA

Number of location calculations using the stand-alone GPS method.

Data Source

BSS

Source Field

78006

Source Section

P_NBSC_PBS

SUCC_LOC_CALC_E_OTD

Number of successful location calculations using only the Cell Id+TA method.

Data Source

BSS

Source Field

78005

Source Section

P_NBSC_PBS

SUCC_LOC_CALC_EMERGENCY

No longer in use.

Data Source

BSS

Source Field

78003

Source Section

P_NBSC_PBS

SUCC_LOC_CALC_FROM_EXT_SMLC

Number of successful location responses received from the external SMLC.

Data Source

BSS

Source Field

78023

Source Section

P_NBSC_PBS

SUCC_LOC_CALC_STAND_ALONE_GPS

No longer in use.

Data Source

BSS

Source Field

78008

Source Section

P_NBSC_PBS

SUCC_MCATCH_1_MEASUREMENTS

Number of successful CI+TA+RXlevel measurements which are served using Mcatch 1.0 solution.

Data Source

BSS

Source Field

78019

Source Section

P_NBSC_PBS

UPPER_EC_NO_LIMIT

Upper limit for Ec/No classification

Data Source

BSS

Source Field

94001

Source Section

P_NBSC_UTRAN_NEIGH_CELL_SIG_LEV

NBCell_Signal Primitive Calculations

The following is a list of primitive calculations for the NBCell_Signal entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

NBCell_Signal Peg Counts

The following is a list of peg counts for the NBCell_Signal entity.

AVE_DL_SIG_STR

Average strength of the downlink signal received from an undefined adjacent cell, the value ranges from 0 to 73

Data Source

BSS

Source Field

13001

Source Section

P_NBSC_UNDEF_ADJ_CELL

BCC_UNDEF_ADJ_CELL

BTS colour code ID of base station identification code. Values are 0...7.

Data Source

BSS

Source Field

13003

Source Section

P_NBSC_UNDEF_ADJ_CELL

BCCH_UNDEF_ADJ_CELL

The Nof the BCCH carrier (absolute radio frequency number)

Data Source

BSS

Source Field

13004

Source Section

P_NBSC_UNDEF_ADJ_CELL

BSSRelease

BSS Release

Data Source

BSS

CHANGED_FLAG

This value is zero if the BA list is not changed during the period.

Data Source

BSS

Source Field

13000

Source Section

P_NBSC_UNDEF_ADJ_CELL

NCC_UNDEF_ADJ_CELL

National colour code ID of base station identification code. Values are 0...7.

Data Source

BSS

Source Field

13003

Source Section

P_NBSC_UNDEF_ADJ_CELL

PERIOD_REAL_START_TIME_ADJ_C

The real starting time of a period

Data Source

BSS

Source Section

P_NBSC_UNDEF_ADJ_CELL

PERIOD_REAL_STOP_TIME_ADJ_C

The real stopping time of a period

Data Source

BSS

Source Section

P_NBSC_UNDEF_ADJ_CELL

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

SEGMENT_ID_ADJ_CELL

Segment identification number

Data Source

BSS

Source Section

P_NBSC_UNDEF_ADJ_CELL

UNDEF_DENOM1

The denominator of the average downlink signal strength received from undefined adjacent cell(always > 0)

Data Source

BSS

Source Field

13002

Source Section

P_NBSC_UNDEF_ADJ_CELL

NS_VCI Primitive Calculations

The following is a list of primitive calculations for the NS_VCI entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

NS_VCI Peg Counts

The following is a list of peg counts for the NS_VCI entity.

BSSRelease

BSS Release

Data Source

BSS

INACTIVITY_TIME

Inactivity time of created NS-VC.NSVC is inactive when it is blocked or non-operational

Data Source

BSS

Source Field

98014

Source Section

P_NBSC_GB_OVER_IP

NBR_BYTES_DISCARD_REC_PACKETS

Number of bytes in discarded NS-XXX messages received from SGSN

Data Source

BSS

Source Field

98010

Source Section

P_NBSC_GB_OVER_IP

NBR_DISCARD_RECEIVED_PACKETS

Number of discarded NS-XXX messages received from SGSN

Data Source

BSS

Source Field

98009

Source Section

P_NBSC_GB_OVER_IP

NBR_KBYTES_SENT_TO_SGSN

Number of kilobytes of UDP payload sent to SGSN

Data Source

BSS

Source Field

98012

Source Section

P_NBSC_GB_OVER_IP

NBR_NS_ALIVE_ACK_MSG_RCVD_SGSN

Nof NS_NS_ALIVE_ACK messages received from SGSN by PCU

Data Source

BSS

Source Field

98001

Source Section

P_NBSC_GB_OVER_IP

NBR_NS_ALIVE_MSG_PCU_FOR_RETRY

Nof NS_ALIVE message retries sent to SGSN by PCU

Data Source

BSS

Source Field

98002

Source Section

P_NBSC_GB_OVER_IP

NBR_NS_ALIVE_MSG_RCVD_SGSN

Nof NS_ALIVE messages sent to PCU by SGSN

Data Source

BSS

Source Field

98003

Source Section

P_NBSC_GB_OVER_IP

NBR_NS_ALIVE_MSG_SENT_BY_PCU

Nof NS_ALIVE messages sent to SGSN by PCU

Data Source

BSS

Source Field

98000

Source Section

P_NBSC_GB_OVER_IP

NBR_NSVC_STATUS_CHANGES

Number of NS-VC status changes from active (WO-EX) to inactive (BLSY BL-US)

Data Source

BSS

Source Field

98013

Source Section

P_NBSC_GB_OVER_IP

NBR_RCVD_DATA_PACKETS

Number of NS-UNITDATAs received from SGSN.Note

Data Source

BSS

Source Field

98008

Source Section

P_NBSC_GB_OVER_IP

NBR_RCVD_SIGNALLING_PACKETS

Nof NS signals (all NS-xxxx and SNS-xxxx messages excl NS-UNITDATA) received from SGSN

Data Source

BSS

Source Field

98011

Source Section

P_NBSC_GB_OVER_IP

NBR_RDF_OPERATIONS

Nof RDF operations reqby SGSN.RDF-request incoming within NS-UNITDATA message

Data Source

BSS

Source Field

98004

Source Section

P_NBSC_GB_OVER_IP

NBR_SENT_DATA_PACKETS

Number of NS-UNITDATAs sent to SGSN.Note

Data Source

BSS

Source Field

98006

Source Section

P_NBSC_GB_OVER_IP

NBR_SENT_SIGNALLING_PACKETS

Nof NS signals (all NS-xxxx and SNS-xxxx messages excluding NS-UNITDATA) sent to SGSN

Data Source

BSS

Source Field

98007

Source Section

P_NBSC_GB_OVER_IP

NBR_UDP_SIGNALLING_FAILURES

Number of failed UDP sending and receiving attempts

Data Source

BSS

Source Field

98005

Source Section

P_NBSC_GB_OVER_IP

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

SEGMENT_ID_GB_OVER_IP

Segment identification number

Data Source

BSS

Source Section

P_NBSC_GB_OVER_IP

OSI_Channel Primitive Calculations

The following is a list of primitive calculations for the OSI_Channel entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

OSI_Channel Peg Counts

The following is a list of peg counts for the OSI_Channel entity.

BSSRelease

BSS Release

Data Source

BSS

CALLS_DUR_A

The number of calls of duration A $0 < A < 10$.

Data Source

BSS

Source Field

8323

Source Section

P_NBSC_OSI3

CALLS_DUR_B

The number of calls of duration B $10 < B < 300$.

Data Source

BSS

Source Field

8324

Source Section

P_NBSC_OSI3

CALLS_DUR_C

The number of calls of duration C $300 < C < 3600$.

Data Source

BSS

Source Field

8325

Source Section

P_NBSC_OSI3

CALLS_DUR_D

The number of calls of duration D $D > 3600$.

Data Source

BSS

Source Field

8326

Source Section

P_NBSC_OSI3

FRAMES_CRC_ERR

The number of frames received with a CRC error.

Data Source

BSS

Source Field

8101

Source Section

P_NBSC_OSI1

FRAMES_REJ

The number of rejected frames received Rejection cause Frame too long.

Data Source

BSS

Source Field

8103

Source Section

P_NBSC_OSI1

FRAMES_SHORT

The number of frames received with less than 32 bits length.

Data Source

BSS

Source Field

8100

Source Section

P_NBSC_OSI1

FRMR_FRM_REC1

The number of FRMR frames received type 1 (invalid control field).

Data Source

BSS

Source Field

8210

Source Section

P_NBSC_OSI2

FRMR_FRM_REC2

The number of FRMR frames received type 2 (invalid information field).

Data Source

BSS

Source Field

8211

Source Section

P_NBSC_OSI2

FRMR_FRM_REC3

The number of FRMR frames received type 3 (information field too large).

Data Source

BSS

Source Field

8212

Source Section

P_NBSC_OSI2

FRMR_FRM_REC4

The Nof FRMR frames received type 4 (invalid N(R) receive sequence number).

Data Source

BSS

Source Field

8213

Source Section

P_NBSC_OSI2

FRMR_FRM_TRANS1

The number of FRMR frames transmitted type 1 (invalid control field).

Data Source

BSS

Source Field

8206

Source Section

P_NBSC_OSI2

FRMR_FRM_TRANS2

The number of FRMR frames transmitted type2 (invalid information field).

Data Source

BSS

Source Field

8207

Source Section

P_NBSC_OSI2

FRMR_FRM_TRANS3

The number of FRMR frames transmitted type 3 (information field too large).

Data Source

BSS

Source Field

8208

Source Section

P_NBSC_OSI2

FRMR_FRM_TRANS4

The Nof FRMR frames transmitted type 4 (invalid N(R) receive sequence number).

Data Source

BSS

Source Field

8209

Source Section

P_NBSC_OSI2

INFO_FRM_REC

The number of received information frames.

Data Source

BSS

Source Field

8201

Source Section

P_NBSC_OSI2

INFO_FRM_RETRANS

The number of retransmitted information frames.

Data Source

BSS

Source Field

8214

Source Section

P_NBSC_OSI2

INFO_FRM_TRANS

The number of transmitted information frames.

Data Source

BSS

Source Field

8200

Source Section

P_NBSC_OSI2

INV_TPDU_REC

The number of invalid TPDU received (transport protocol data unit).

Data Source

BSS

Source Field

8408

Source Section

P_NBSC_OSI4

LAYER_RESETS

The number of data link layer resets.

Data Source

BSS

Source Field

8215

Source Section

P_NBSC_OSI2

LOC_ERR_DIS

The number of locally initiated error disconnections.

Data Source

BSS

Source Field

8400

Source Section

P_NBSC_OSI4

LOC_NORM_DIS

The number of locally initiated normal disconnections.

Data Source

BSS

Source Field

8401

Source Section

P_NBSC_OSI4

LOC_SUCC_CON

The number of locally initiated successful connections.

Data Source

BSS

Source Field

8402

Source Section

P_NBSC_OSI4

LOC_UNSUCC_CON

The number of locally initiated unsuccessful connections.

Data Source

BSS

Source Field

8403

Source Section

P_NBSC_OSI4

OCTET_REC

The number of received octets.

Data Source

BSS

Source Field

8409

Source Section

P_NBSC_OSI4

OCTET_RETRAN

The number of retransmitted octets.

Data Source

BSS

Source Field

8411

Source Section

P_NBSC_OSI4

OCTET_SENT

The number of octets sent.

Data Source

BSS

Source Field

8410

Source Section

P_NBSC_OSI4

OUT_CALLS_REJ

The number of rejected outgoing calls All channels are in use.

Data Source

BSS

Source Field

8327

Source Section

P_NBSC_OSI3

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

PHYS_NOTIF

Physical layer down notifications.

Data Source

BSS

Source Field

8104

Source Section

P_NBSC_OSI1

REC_CL_PCTS1

The number of received clear packets cause = 0.

Data Source

BSS

Source Field

8302

Source Section

P_NBSC_OSI3

REC_CL_PCTS2

The number of received clear packets cause = 0.

Data Source

BSS

Source Field

8303

Source Section

P_NBSC_OSI3

REC_DATA_PCTS

The number of received data packets.

Data Source

BSS

Source Field

8314

Source Section

P_NBSC_OSI3

REC_DATA_PCTS_DIS

The number of received data packets discarded.

Data Source

BSS

Source Field

8315

Source Section

P_NBSC_OSI3

REC_DATA_SEGM

The number of received data segments.

Data Source

BSS

Source Field

8316

Source Section

P_NBSC_OSI3

REC_MR_PCTS

The number of received RNR packets (Receiver Not Ready).

Data Source

BSS

Source Field

8305

Source Section

P_NBSC_OSI3

REC_RESTART_PCTS

The number of received restart packets.

Data Source

BSS

Source Field

8304

Source Section

P_NBSC_OSI3

REC_RST_PCTS1

The number of received reset packets cause = 0.

Data Source

BSS

Source Field

8300

Source Section

P_NBSC_OSI3

REC_RST_PCTS2

The number of received reset packets cause = 0.

Data Source

BSS

Source Field

8301

Source Section

P_NBSC_OSI3

REJ_FRM_REC

The number of received REJ frames (Rejected Frames).

Data Source

BSS

Source Field

8203

Source Section

P_NBSC_OSI2

REJ_FRM_TRANS

The number of transmitted REJ frames (Rejected Frames).

Data Source

BSS

Source Field

8202

Source Section

P_NBSC_OSI2

REM_ERR_DIS

The number of remotely initiated error disconnections.

Data Source

BSS

Source Field

8404

Source Section

P_NBSC_OSI4

REM_NORM_DIS

The number of remotely initiated normal disconnections.

Data Source

BSS

Source Field

8405

Source Section

P_NBSC_OSI4

REM_SUCC_CON

The number of remotely initiated successful connections.

Data Source

BSS

Source Field

8406

Source Section

P_NBSC_OSI4

REM_UNSUCC_CON

The number of remotely initiated unsuccessful connections.

Data Source

BSS

Source Field

8407

Source Section

P_NBSC_OSI4

RNR_FRM_REC

The number of received RNR frames (Receiver Not Ready).

Data Source

BSS

Source Field

8205

Source Section

P_NBSC_OSI2

RNR_FRM_TRANS

The number of transmitted RNR frames (Receiver Not Ready).

Data Source

BSS

Source Field

8204

Source Section

P_NBSC_OSI2

SUCC_INC_CALLS

The number of successful incoming calls.

Data Source

BSS

Source Field

8319

Source Section

P_NBSC_OSI3

SUCC_OUT_CALLS

The number of successful outgoing calls.

Data Source

BSS

Source Field

8320

Source Section

P_NBSC_OSI3

T1_EXPIRATIONS

The timer T1 specifies the time limit within which the remote side of the connection must ack

Data Source

BSS

Source Field

8216

Source Section

P_NBSC_OSI2

T20_EXPIRATIONS

The Nof timer T20 time-outs. The timer is started when the PLP issues a Restart req

Data Source

BSS

Source Field

8310

Source Section

P_NBSC_OSI3

T21_EXPIRATIONS

The Nof timer T21 time-outs. The timer is started when the PLP issues a Call req

Data Source

BSS

Source Field

8311

Source Section

P_NBSC_OSI3

T22_EXPIRATIONS

The Nof timer T22 time-outs. The timer is started when the PLP issues a Reset re

Data Source

BSS

Source Field

8312

Source Section

P_NBSC_OSI3

T23_EXPIRATIONS

The Nof timer T23 time-outs. The timer is started when the PLP issues a Clear req

Data Source

BSS

Source Field

8313

Source Section

P_NBSC_OSI3

TPDU_DISCARD

The number of check sum TPDU's discarded (transport protocol data unit).

Data Source

BSS

Source Field

8415

Source Section

P_NBSC_OSI4

TPDU_REC

The number of TPDU's received (transport protocol data unit).

Data Source

BSS

Source Field

8412

Source Section

P_NBSC_OSI4

TPDU_RETRAN

The number of TPDU's retransmitted (transport protocol data unit).

Data Source

BSS

Source Field

8414

Source Section

P_NBSC_OSI4

TPDU_SENT

The number of TPDU's sent (transport protocol data unit).

Data Source

BSS

Source Field

8413

Source Section

P_NBSC_OSI4

TRANS_CL_PCTS

The number of transmitted clear packets.

Data Source

BSS

Source Field

8307

Source Section

P_NBSC_OSI3

TRANS_DATA_PCTS

The number of transmitted data packets.

Data Source

BSS

Source Field

8317

Source Section

P_NBSC_OSI3

TRANS_DATA_SEGM

The number of transmitted data segments.

Data Source

BSS

Source Field

8318

Source Section

P_NBSC_OSI3

TRANS_RESTART_PCTS

The number of transmitted restart packets.

Data Source

BSS

Source Field

8308

Source Section

P_NBSC_OSI3

TRANS_RNR_PCTS

The number of transmitted RNR packets (Receiver Not Ready).

Data Source

BSS

Source Field

8309

Source Section

P_NBSC_OSI3

TRANS_RST_PCTS

The number of transmitted reset packets.

Data Source

BSS

Source Field

8306

Source Section

P_NBSC_OSI3

TRANSM_ABORT

The number of frames received with transmission aborted.

Data Source

BSS

Source Field

8102

Source Section

P_NBSC_OSI1

UNSUCC_INC_CALLS

The number of unsuccessful incoming calls.

Data Source

BSS

Source Field

8321

Source Section

P_NBSC_OSI3

UNSUCC_OUT_CALLS

The number of unsuccessful outgoing calls.

Data Source

BSS

Source Field

8322

Source Section

P_NBSC_OSI3

Phase Primitive Calculations

The following is a list of primitive calculations for the Phase entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

1

PMGW Primitive Calculations

The following is a list of primitive calculations for the PMGW entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

PMGW Peg Counts

The following is a list of peg counts for the PMGW entity.

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

SIMUL_MGW_AVG_SIM_CALL

Shows the average number of simultaneous calls (0...999999999).A sampling is done in each 30 seconds to determine the number of simultaneous calls in the physical MGW address. The average is calculated by dividing the cumulative number of simultaneous calls by the number of samples.

Data Source

MSC

Source Field

M396B4C2

Source Section

RNS_PS_SIMCMGW_PMGW1_RAW

SIMUL_MGW_PEAK_SIM_CALL

Provides the peak number of simultaneous calls during the measurement period (0...999999999).

Data Source

MSC

Source Field

M396B4C3

Source Section

RNS_PS_SIMCMGW_PMGW1_RAW

PMGW_TCAT Primitive Calculations

The following is a list of primitive calculations for the PMGW_TCAT entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

PMGW_TCAT Peg Counts

The following is a list of peg counts for the PMGW_TCAT entity.

MGWTCAT_ANSWERED_TRAFFIC

Shows the answered traffic in erlangs. This means that the traffic is counted from the beginning of the conversation phase (ANM/CONNECT ACK) till the end of the call (Release Complete). The field is updated at the end of the call. The value is represented in integers in the XML report and in decimal numbers in the ASCII report.

Data Source

MSC

Source Field

M395B2C14

Source Section

RNS_PS_MGWTCP_TCAT2_RAW

MGWTCAT_CALL_ATTEMPTS

Shows the number of call attempts. The counter is updated at the end of the call, that is, when the Release Complete message is received. A call attempt is considered only when the MGW is selected for the given category.

Data Source

MSC

Source Field

M395B2C2

Source Section

RNS_PS_MGWTCP_TCAT2_RAW

MGWTCAT_CALL_ATTEMPTS_ANSWERED

The number of call attempts that were answered, that is, the CONNECT ACK or ANM message was received. This counter is updated at the same time as the CALLS counter.

Data Source

MSC

Source Field

M395B2C4

Source Section

RNS_PS_MGWTCP_TCAT2_RAW

MGWTCAT_CALL_ATTEMPTS_RINGING

Shows the number of successful call attempts, which reached the ringing phase, that is, ALERTING or ACM/CON message is received. The counter is updated at the same time as the CALLS counter.

Data Source

MSC

Source Field

M395B2C3

Source Section

RNS_PS_MGWTCP_TCAT2_RAW

MGWTCAT_CC_GROUP1

Shows how many call attempts are terminated in the clear code group defined in the TMH command. The field is updated at the same time as the CALLS counter.

Data Source

MSC

Source Field

M395B2C5

Source Section

RNS_PS_MGWTCR_TCAT2_RAW

MGWTCAT_CC_GROUP2

Shows how many call attempts are terminated in the clear code group defined in the TMH command. The field is updated at the same time as the CALLS counter.

Data Source

MSC

Source Field

M395B2C6

Source Section

RNS_PS_MGWTCR_TCAT2_RAW

MGWTCAT_CC_GROUP3

Shows how many call attempts are terminated in the clear code group defined in the TMH command. The field is updated at the same time as the CALLS counter.

Data Source

MSC

Source Field

M395B2C7

Source Section

RNS_PS_MGWTCR_TCAT2_RAW

MGWTCAT_CC_GROUP4

Shows how many call attempts are terminated in the clear code group defined in the TMH command. The field is updated at the same time as the CALLS counter.

Data Source

MSC

Source Field

M395B2C8

Source Section

RNS_PS_MGWTCP_TCAT2_RAW

MGWTCAT_CC_GROUP5

Shows how many call attempts are terminated in the clear code group defined in the TMH command. The field is updated at the same time as the CALLS counter.

Data Source

MSC

Source Field

M395B2C9

Source Section

RNS_PS_MGWTCP_TCAT2_RAW

MGWTCAT_CC_GROUP6

Shows how many call attempts are terminated in the clear code group defined in the TMH command. The field is updated at the same time as the CALLS counter.

Data Source

MSC

Source Field

M395B2C10

Source Section

RNS_PS_MGWTCP_TCAT2_RAW

MGWTCAT_CC_GROUP7

Shows how many call attempts are terminated in the clear code group defined in the TMH command. The field is updated at the same time as the CALLS counter.

Data Source

MSC

Source Field

M395B2C11

Source Section

RNS_PS_MGWTCP_TCAT2_RAW

MGWTCAT_CC_GROUP8

Shows how many call attempts are terminated in the clear code group defined in the TMH command. The field is updated at the same time as the CALLS counter.

Data Source

MSC

Source Field

M395B2C12

Source Section

RNS_PS_MGWTCP_TCAT2_RAW

MGWTCAT_DATA_PROV_RESTARTED

Shows that the Data provider was restarted during the operation.

Data Source

MSC

Source Field

M395B3C1

Source Section

RNS_PS_MGWTCP_TCAT2_RAW

MGWTCAT_SUCCESSFUL_TRAFFIC

Shows how many call attempts are terminated in the clear code group defined in the TMH command. The field is updated at the same time as the CALLS counter.

Data Source

MSC

Source Field

M395B2C13

Source Section

RNS_PS_MGWTCP_TCAT2_RAW

MGWTCP_TOTAL_TRAFFIC

Shows the total traffic in erlangs. The traffic is counted from the beginning of the call till the end of the call (Release Complete) in the circuit reservation (ASSIGNMENT COMPLETE/RAB ASSIGNMENT RESPONSE/IAM). The field is updated at the end of the call. It is given in integers in the XML report and in decimal numbers in the ASCII report.

Data Source

MSC

Source Field

M395B2C15

Source Section

RNS_PS_MGWTCP_TCAT2_RAW

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

Proc_BSC Primitive Calculations

The following is a list of primitive calculations for the Proc_BSC entity.

COLUMN_MIN_LOAD_RATIO

Detailed information about Column Minimum Load Ratio

Calculation

`MIN (LOAD_RATIO)`

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

`""`

LOAD_RATIO

Load Ratio

Calculation

`1.0 * (LOAD_RATE / LOAD_DENOM1)`

MAX_LOAD_RATIO

Detailed information about Column Maximum Load Ratio

Calculation

`MAX (LOAD_RATIO)`

MAX_PROC_PEAK_LOAD

Detailed information about Column Maximum Processor Peak Load

Calculation

`MAX (PROC_PEAK_LOAD)`

MIN_PROC_PEAK_LOAD

Detailed information about Column Minimum Processor Peak

Calculation

`MIN (PROC_PEAK_LOAD)`

NUMDAYS

of days in Report

Calculation

`DAYSINREPORT ()`

NUMHOURS

of hours in Summation Data

Calculation

PEAK_TIME

Detailed information about Column Peak Time

Calculation

MAX (TIME_PROC_PEAK_LOAD)

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

Proc_BSC Peg Counts

The following is a list of peg counts for the Proc_BSC entity.

ADM_RESTARTS

The number of administrative restarts of the unit.

Data Source

BSS

Source Field

7009

Source Section

P_NBSC_AVAIL

BSSRelease

BSS Release

Data Source

BSS

DCONN_TIME

The disconnection time when the object unit is not in WO-EX or SP- EX state.

Data Source

BSS

Source Field

7004

Source Section

P_NBSC_AVAIL

DCONN_TIME_DUPLEX

The disconnection time when neither one of the duplicated units is in WO-EX or SP-EX state

Data Source

BSS

Source Field

7005

Source Section

P_NBSC_AVAIL

DUPLEX_RESTARTS

The number of simultaneous restarts of duplicated units.

Data Source

BSS

Source Field

7012

Source Section

P_NBSC_AVAIL

LOAD_DENOM1

The denominator of the average load rate of the processor (always> 0).

Data Source

BSS

Source Field

6006

Source Section

P_NBSC_LOAD

LOAD_RATE

The average load rate of the object unit processor in percentages (%).

Data Source

BSS

Source Field

6005

Source Section

P_NBSC_LOAD

OBJ_INDEX

Object Index

Data Source

BSS

OBJ_STATE_AVAIL

This field is not relevant. The value is always 0x00 = WO-EX

Data Source

BSS

Source Field

7003

Source Section

P_NBSC_AVAIL

OBJ_STATE_LOAD

The state of the object unit 00 = WO-EX 37 = SP-EX

Data Source

BSS

Source Field

6003

Source Section

P_NBSC_LOAD

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

PREPROC_RESTARTS

The number of restarts in the preprocessor which are subordinate to the unit.

Data Source

BSS

Source Field

7011

Source Section

P_NBSC_AVAIL

PROC_PEAK_LOAD

The peak load rate of the object unit processor in percentages (%).

Data Source

BSS

Source Field

6004

Source Section

P_NBSC_LOAD

PROCESS_RESTARTS

The number of program block restarts of the unit.

Data Source

BSS

Source Field

7010

Source Section

P_NBSC_AVAIL

SUCC_SAMPLES

The number of successful samples of the load rate.

Data Source

BSS

Source Field

6009

Source Section

P_NBSC_LOAD

TIME_PROC_PEAK_LOAD

The peak load time of the processor during the measurement period

Data Source

BSS

Source Field

6007

Source Section

P_NBSC_LOAD

UNIT_RESTARTS

The number of restarts of the unit.

Data Source

BSS

Source Field

7008

Source Section

P_NBSC_AVAIL

Protect_Group Primitive Calculations

The following is a list of primitive calculations for the Protect_Group entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PROT_GR_PSC

Protect_Group Peg Counts

The following is a list of peg counts for the Protect_Group entity.

BSSRelease

BSS Release

Data Source

BSS

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

PROT_GR_PSC

This counter contains the number of switches to the protection section and switches to the working section.

Data Source

BSS

Source Field

516001

Source Section

P_NBSC_SONET_SDH

PROT_GR_PSD

The value of this counter is the number of seconds the traffic is in protection section.

Data Source

BSS

Source Field

516002

Source Section

P_NBSC_SONET_SDH

PW_BSC Primitive Calculations

The following is a list of primitive calculations for the PW_BSC entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

PW_BSC Peg Counts

The following is a list of peg counts for the PW_BSC entity.

AVE_PACKET_DELAY_VARIATION

The average of jitter buffer packet delay variation over a measurement period.

Data Source

BSS

Source Field

114003

Source Section

P_NBSC_PSEUDO_WIRE_BSC

BACKGROUND_BLOCK_ERRORS

Number of background block errors (BBE) based on the definition at RFC 5086 in accordance with ITU-T G.826.

Data Source

BSS

Source Field

114009

Source Section

P_NBSC_PSEUDO_WIRE_BSC

ERRORED_BLOCKS

Number of errored blocks (EB) based on the definition at RFC 5086 in accordance with ITU-T G.826. EBs are blocks of data played out to the TDM attachment circuit that have experienced at least one error event. An error event is the loss of a packet, leading to inability to play out payload data at the TDM attachment circuit for the time duration of the lost payload.

Data Source

BSS

Source Field

114008

Source Section

P_NBSC_PSEUDO_WIRE_BSC

ERRORED_SECONDS

Number of errored seconds (ES) based on the definition at RFC 5086 in accordance with ITU-T G.826.

Data Source

BSS

Source Field

114006

Source Section

P_NBSC_PSEUDO_WIRE_BSC

LOST_PW_PACKETS

Number of lost PW packets that are dropped during packet processing or lost during transport at the PSN.

Data Source

BSS

Source Field

114001

Source Section

P_NBSC_PSEUDO_WIRE_BSC

MAX_PACKET_DELAY_VARIATION

The maximum of jitter buffer packet delay variation over a measurement period.

Data Source

BSS

Source Field

114004

Source Section

P_NBSC_PSEUDO_WIRE_BSC

MIN_PACKET_DELAY_VARIATION

The minimum of jitter buffer packet delay variation over a measurement period.

Data Source

BSS

Source Field

114005

Source Section

P_NBSC_PSEUDO_WIRE_BSC

RECEIVED_PW_PACKETS

Number of received PW packets containing errored and non-errored packets.

Data Source

BSS

Source Field

114000

Source Section

P_NBSC_PSEUDO_WIRE_BSC

SEVERELY_ERRORED_SECONDS

Number of severely errored seconds (SES) based on the definition at RFC 5086 in accordance with ITU-T G.826. SES is a subset of ES.

Data Source

BSS

Source Field

114007

Source Section

P_NBSC_PSEUDO_WIRE_BSC

TRANSMITTED_PW_PACKETS

Number of transmitted PW packets.

Data Source

BSS

Source Field

114002

Source Section

P_NBSC_PSEUDO_WIRE_BSC

UNAVAILABLE_SECONDS

The unavailable seconds (UAS) based on the definition at RFC 5086 in accordance with ITU-T G.826.

Data Source

BSS

Source Field

114010

Source Section

P_NBSC_PSEUDO_WIRE_BSC

PW_TCSM Primitive Calculations

The following is a list of primitive calculations for the PW_TCSM entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

PW_TCSM Peg Counts

The following is a list of peg counts for the PW_TCSM entity.

AVE_PACKET_DELAY_VARIATION

The average of jitter buffer packet delay variation over a measurement period.

Data Source

BSS

Source Field

116003

Source Section

P_NBSC_PSEUDO_WIRE_TCSM

BACKGROUND_BLOCK_ERRORS

Number of background block errors (BBE) based on the definition at RFC 5086 in accordance with ITU-T G.826.

Data Source

BSS

Source Field

116009

Source Section

P_NBSC_PSEUDO_WIRE_TCSM

ERRORED_BLOCKS

Number of errored blocks (EB) based on the definition at RFC 5086 in accordance with ITU-T G.826. EBs are blocks of data played out to the TDM attachment circuits that have experienced at least one error event. An error event is the loss of a packet, leading to inability to play out payload data at the TDM attachment circuit for time duration of the lost payload.

Data Source

BSS

Source Field

116008

Source Section

P_NBSC_PSEUDO_WIRE_TCSM

ERRORED_SECONDS

Number of errored seconds (ES) based on the definition at RFC 5086 in accordance with ITU-T G.826.

Data Source

BSS

Source Field

116006

Source Section

P_NBSC_PSEUDO_WIRE_TCSM

LOST_PW_PACKETS

The number of PW packets that are dropped during packet processing or lost during transport at the PSN.

Data Source

BSS

Source Field

116001

Source Section

P_NBSC_PSEUDO_WIRE_TCSM

MAX_PACKET_DELAY_VARIATION

The maximum of jitter buffer packet delay variation over a measurement period.

Data Source

BSS

Source Field

116004

Source Section

P_NBSC_PSEUDO_WIRE_TCSM

MIN_PACKET_DELAY_VARIATION

The minimum of jitter buffer packet delay variation over a measurement period.

Data Source

BSS

Source Field

116005

Source Section

P_NBSC_PSEUDO_WIRE_TCSM

RECEIVED_PW_PACKETS

The number of received PW packets containing errored and non-errored packets.

Data Source

BSS

Source Field

116000

Source Section

P_NBSC_PSEUDO_WIRE_TCSM

SEVERELY_ERRORED_SECONDS

Number of severely errored seconds (SES) based on the definition at RFC 5086 in accordance with ITU-T G.826. SES is a subset of ES.

Data Source

BSS

Source Field

116007

Source Section

P_NBSC_PSEUDO_WIRE_TCSM

TRANSMITTED_PW_PACKETS

Number of transmitted PW packets.

Data Source

BSS

Source Field

116002

Source Section

P_NBSC_PSEUDO_WIRE_TCSM

UNAVAILABLE_SECONDS

Number of unavailable seconds (UAS) based on the definition at RFC 5086 in accordance with ITU-T G.826.

Data Source

BSS

Source Field

116010

Source Section

P_NBSC_PSEUDO_WIRE_TCSM

QOS Primitive Calculations

The following is a list of primitive calculations for the QOS entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

QOS Peg Counts

The following is a list of peg counts for the QOS entity.

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

QOS_PrioClass Primitive Calculations

The following is a list of primitive calculations for the QOS_PrioClass entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

QOS_PrioClass Peg Counts

The following is a list of peg counts for the QOS_PrioClass entity.

AVE_MS_BSSGP_FLOW_RATE_DEN

Number of samples for counter 090005

Data Source

BSS

Source Field

90006

Source Section

P_NBSC_QOS

AVE_MS_BSSGP_FLOW_RATE_SUM

The average transmission rate of downlink TBF controlled by MS specific flow control algorithm

Data Source

BSS

Source Field

90005

Source Section

P_NBSC_QOS

BSSRelease

BSS Release

Data Source

BSS

DROPPED_DL_LLC_PDUS_LIFETIME

Dropped downlink LLC PDUs due to lifetime expiry

Data Source

BSS

Source Field

90004

Source Section

P_NBSC_QOS

DROPPED_DL_LLC_PDUS_OVERFLOW

Dropped downlink LLC PDUs due to either MS or BVC buffer overflow

Data Source

BSS

Source Field

90003

Source Section

P_NBSC_QOS

LLC_BYTES_FOR_EGPRS

This counter is not in use.

Data Source

BSS

Source Field

90008

Source Section

P_NBSC_QOS

LLC_BYTES_FOR_GPRS

This counter is not in use.

Data Source

BSS

Source Field

90007

Source Section

P_NBSC_QOS

NBR_OF_TBF_ALLOCATIONS

Number of allocated TBFs

Data Source

BSS

Source Field

90000

Source Section

P_NBSC_QOS

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

QOS_PRIORITY_CLASS

QOS PRIORITY CLASS

Data Source

BSS

Source Section

P_NBSC_QOS

SEGMENT_ID_QOS

Segment identification number

Data Source

BSS

Source Section

P_NBSC_QOS

TBF_DURATION_FOR_EGPRS

This counter is not in use.

Data Source

BSS

Source Field

90010

Source Section

P_NBSC_QOS

TBF_DURATION_FOR_GPRS

This counter is not in use.

Data Source

BSS

Source Field

90009

Source Section

P_NBSC_QOS

TOTAL_DURATION_OF_TBFS

The sum of normally released TBF durations.

Data Source

BSS

Source Field

90002

Source Section

P_NBSC_QOS

TOTAL_NBR_OF_RLC_BLOCKS

Total number of RLC blocks transferred

Data Source

BSS

Source Field

90001

Source Section

P_NBSC_QOS

VWTHR_DENOMINATOR_DLDC

Denominator for Volume Weighted (VW) LLC throughput for DLDC capable MSs in a cell which includes DLDC capable BTS(s). The counter contains all the bytes transmitted within the TBFs. The average VW throughput for DLDC users is achieved by dividing 090013 by 090014.

Data Source

BSS

Source Field

90014

Source Section

P_NBSC_QOS

VWTHR_DENOMINATOR_EDGE_4

Denominator for Volume Weighted (VW) LLC throughput in EDGE mode, for MS classes 8, 10, and 12. The average VW throughput in EDGE mode is achieved by dividing 090011 by 090012.

Data Source

BSS

Source Field

90012

Source Section

P_NBSC_QOS

VWTHR_DENOMINATOR_EDGE_OTH_4

Denominator for Volume Weighted (VW) LLC throughput in EDGE mode, for MS classes other than 8, 10, or 12. The average VW throughput in EDGE mode is achieved by dividing 090009 by 090010.

Data Source

BSS

Source Field

90010

Source Section

P_NBSC_QOS

VWTHR_DENOMINATOR_GPRS

Denominator for Volume Weighted (VW) LLC throughput in GPRS mode. The average VW throughput in GPRS mode is achieved by dividing 090007 by 090008.

Data Source

BSS

Source Field

90008

Source Section

P_NBSC_QOS

VWTHR_NUMERATOR_DLDC

Numerator for Volume Weighted (VW) LLC throughput for DLDC capable MSs in a cell which includes DLDC capable BTS(s). The counter contains the sum of the throughputs weighted by the volume of each LLC transmission burst within the TBF. The unit of the counter is 100 bytes²/10 ms. The average VW throughput for DLDC users is achieved by dividing 090013 by 090014.

Data Source

BSS

Source Field

90013

Source Section

P_NBSC_QOS

VWTHR_NUMERATOR_EDGE_4

Numerator for VolumeWeighted (VW) LLC throughput in EDGE mode, for MS classes 8, 10, and 12. Longer data bursts are weighted more than short bursts. The average VW throughput in EDGE mode is achieved by dividing 090011 by 090012.

Data Source

BSS

Source Field

90011

Source Section

P_NBSC_QOS

VWTHR_NUMERATOR_EDGE_OTH_4

Numerator for Volume Weighted (VW) LLC throughput in EDGE mode, for MS classes other than 8, 10, or 12. Longer data bursts are weighted more than short bursts. The average VW throughput in EDGE mode is achieved by dividing 090009 by 090010.

Data Source

BSS

Source Field

90009

Source Section

P_NBSC_QOS

VWTHR_NUMERATOR_GPRS

Numerator for Volume Weighted (VW) LLC throughput in GPRS mode. Longer data bursts are weighted more than short bursts. The average VW throughput in GPRS mode is achieved by dividing 090007 by 090008.

Data Source

BSS

Source Field

90007

Source Section

P_NBSC_QOS

RejectedCalls Primitive Calculations

The following is a list of primitive calculations for the RejectedCalls entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

RejectedCalls Peg Counts

The following is a list of peg counts for the RejectedCalls entity.

MSCRelease

MSC Release

Data Source

MSC

PERLENSC

Measurement collection interval (in seconds)

Data Source

MSC

REJ_ERROR_FOUND

Tag appears at the end of the given counter group with field value 244 if an unexpected error situation has occurred.

Data Source

MSC

REJ_NO_RESP_FROM_LRMPRO

Tag appears at the end of the given counter group with field value 242 if the signalling unit has not sent the required information for the following exchange-related counters:
REJ_EXCHG_INC, REJ_EXCHG_INC_PERCENT*10, REJ_EXCHG_OUTGOING.

Data Source

MSC

REJ_NO_RESP_FROM_SIGNPRB

Tag appears at the end of the given counter group with field value 243 if the required information has not been received from the signalling process family that provides counters of the measured object.

Data Source

MSC

REJ_OBSERV_RESTARTED

Tag appears at the end of the given counter group with field value 16 if the signalling unit has not responded during the previous results accumulation period. Therefore, the observation has been restarted during the current results accumulation period. The counters is printed out during the following period.

Data Source

MSC

REJ_REPORT_INQUIRY_FAIL

Tag appears at the end of the given counter group with field value 241 if only part of the required information is received from the signalling process family that provides the counters of the measured object.

Data Source

MSC

REJ_UNIT_INC_PERCENTX10

The ticket service rejection percentage (0.0...100.0), that is, the proportion of incoming service requests rejected at the ticket service to the total number of service requests received at the ticket service.

Data Source

MSC

REJ_UNIT_INCOMING

The number of rejected incoming service requests (0...999999999) at the ticket service.

Data Source

MSC

REJ_UNIT_OUTGOING

The number of rejected service requests (0...999999999) that have exceeded the higher rejection limit of the message buffer on the outgoing side. The number of rejected service requests that have exceeded the higher rejection limit of the CPU load on the incoming side.

Data Source

MSC

Route Primitive Calculations

The following is a list of primitive calculations for the Route entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

WPS_ATTEMPTS

Route Peg Counts

The following is a list of peg counts for the Route entity.

NSEP_ABANDON

Total number of times when PRIORITY calls are removed from the trunk group because the MS has disconnected the call, the radio contact with the MS has been lost, or a release message is received on the incoming ISUP trunk (counter 0.23).

Data Source

MSC

Source Field

M392B4C8

Source Section

RNS_P_MEAS_PRCA_O24

NSEP_ATTEMPTS

Total number of outgoing PRIORITY Call Attempts which require an outgoing trunk on the specified route /trunk group/ (counter 0.18).

Data Source

MSC

Source Field

M392B4C3

Source Section

RNS_P_MEAS_PRCA_O19

NSEP_CALLS

Total number of outgoing PRIORITY Calls for which trunks are successfully set up to a succeeding switch on the specified route/trunk group/ (counter 0.19).

Data Source

MSC

Source Field

M392B4C4

Source Section

RNS_P_MEAS_PRCA_O20

NSEP_OVERFLOW

Total number of outgoing PRIORITY Calls that fail to queue because the maximum trunk queue length has been reached on the specified route /trunk group/ (counter 0.21).

Data Source

MSC

Source Field

M392B4C6

Source Section

RNS_P_MEAS_PRCA_O22

NSEP_QUEUED

Total number of outgoing PRIORITY Calls that are queued for a trunk on the specified route / trunk group/ (counter 0.20).

Data Source

MSC

Source Field

M392B4C5

Source Section

RNS_P_MEAS_PRCA_O21

NSEP_TIME_OUT

Total number of times when PRIORITY calls are removed from a trunk queue because the call exceeded the maximum trunk queue time on the specified route (counter 0.22).

Data Source

MSC

Source Field

M392B4C7

Source Section

RNS_P_MEAS_PRCA_O23

PERLENSC

Measurement collection interval (in seconds)

Data Source

MSC

ROUTE_ACCEP

The counter shows amount of calls on the given route that were ended with clear code 00x3FF.

Data Source

MSC

Source Field

M391B2C6

Source Section

RNS_P_MEAS_ROU_O2

ROUTE_ANSWER

The counter shows amount of calls on the given route that were answered.

Data Source

MSC

Source Field

M391B2C7

Source Section

RNS_P_MEAS_ROU_O2

ROUTE_ATTEMPT

The counter shows the amount of routing attempts on the given route.

Data Source

MSC

Source Field

M391B2C4

Source Section

RNS_P_MEAS_ROU_O2

ROUTE_CONGREL

Counter indicates the number of unsuccessful routing attempts, which were unsuccessful because of congestion, and the call was released, that is, there is no other alternative route possibility. The following clear codes are considered as congestion: 81A, 8

Data Source

MSC

Source Field

M391B2C16

Source Section

RNS_P_MEAS_ROU_O2

ROUTE_CRA

Counter indicates the number of unsuccessful routing attempts, which were unsuccessful because of congestion. The following clear codes are considered as congestion: 81A, 804, 80F, 814, 843, 81F.

Data Source

MSC

Source Field

M391B2C14

Source Section

RNS_P_MEAS_ROU_O2

ROUTE_DATA_PROV_RESTARTED

Counter is printed with value 1 if the data provider in signalling unit or the signalling unit is restarted during the measurement period, otherwise, the counter is omitted.

Data Source

MSC

Source Field

M391B2C13

Source Section

RNS_P_MEAS_ROU_O2

ROUTE_EFAIL

The counter shows the amount of calls on the given route that were ended with clear code 0x8000xBFF.

Data Source

MSC

Source Field

M391B2C10

Source Section

RNS_P_MEAS_ROU_O2

ROUTE_ERLANGS_x100

The counter shows the erlang value of all attempts on the given route, when circuit reservation was made. Erlang is calculated on the basis of circuit reservation.

Data Source

MSC

Source Field

M391B2C11

Source Section

RNS_P_MEAS_ROU_O2

ROUTE_IFAIL

The counter shows the amount of calls on the given route that were ended with clear code 0x4000x7FF.

Data Source

MSC

Source Field

M391B2C9

Source Section

RNS_P_MEAS_ROU_O2

ROUTE_INVALID_RECORD

Counter is printed with value 1 if the measurement record was corrupted during the measurement period, otherwise, the counter is omitted. If SUBDEST in localMoid was UNKNOWN, then whole record was corrupted, else only that route was corrupted.

Data Source

MSC

Source Field

M391B2C12

Source Section

RNS_P_MEAS_ROU_O2

ROUTE_SFALL

The counter shows the amount of calls on the given route that were ended with clear code 0xC000xFF

Data Source

MSC

Source Field

M391B2C8

Source Section

RNS_P_MEAS_ROU_O2

ROUTE_URA

The counter shows unsuccessful Routing Attempts. Those cases are counted here, where no circuit reservation was possible on the given route because, for example, congestion has happened.

Data Source

MSC

Source Field

M391B2C5

Source Section

RNS_P_MEAS_ROU_O2

ROUTE_URAREL

Counter indicates the number of unsuccessful routing attempts, which were unsuccessful for any reason, and the call was released, that is, there is no other alternative route possibility.

Data Source

MSC

Source Field

M391B2C15

Source Section

RNS_P_MEAS_ROU_O2

WPS_ATTEMPTS

Total number of outgoing WPS Call Attempts, which require an outgoing trunk on the specified route /trunk group/ (counter 0.17).

Data Source

MSC

Source Field

M392B4C2

Source Section

RNS_P_MEAS_PRCA_O18

SCCP_SignPoint Primitive Calculations

The following is a list of primitive calculations for the SCCP_SignPoint entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

SCCP_SignPoint Peg Counts

The following is a list of peg counts for the SCCP_SignPoint entity.

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

SS_ALLOWED_MESSAGES_RXED

Subsystem allowed messages received (8.12 in ITU-T Q.752)

Data Source

MSC

SS_CONGESTED_MESSAGES_RXED

SCCP/subsystem congested message received (8.8 in ITU-T Q.752)

Data Source

MSC

SS_PROHIBITED_MESSAGES_RXED

Subsystem prohibited messages received (8.11 in ITU-T Q.752)

Data Source

MSC

Security Primitive Calculations

The following is a list of primitive calculations for the Security entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

Security Peg Counts

The following is a list of peg counts for the Security entity.

CRITICAL_LIMIT

Critical limit is not set for successful events. The operator cannot set a critical limit for this counter.

Data Source

MSC

Source Field

M176B17C2

Source Section

RNS_P_MEAS_SSEC_O3

LO_TERM_COUNT_RESET_DD

Counter gives the day of long term counters reset time.

Data Source

MSC

LO_TERM_COUNT_RESET_HOUR

Counter gives the hours of long term counters reset time.

Data Source

MSC

LO_TERM_COUNT_RESET_MIN

Counter gives the minutes of long term counters reset time.

Data Source

MSC

LO_TERM_COUNT_RESET_MM

Counter gives the month of long term counters reset time.

Data Source

MSC

LO_TERM_COUNT_RESET_SEC

Counter gives the seconds of long term counters reset time.

Data Source

MSC

LO_TERM_COUNT_RESET_YY

Counter gives the year of long term counters reset time.

Data Source

MSC

LONG_TERM_TOTAL

This counter shows the total number of events during the period from the previous reset of the long-term counters to the output time.

Data Source

MSC

Source Field

M176B17C3

Source Section

RNS_P_MEAS_SSEC_O4

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

REASON_FOR_REPORT

Counter gives a value which tells the reason for report. 1 = PERIODICAL, 2 = OUTPUT TIME CHANGED, 3 = CRITICAL LIMIT, 4 = OPERATOR

Data Source

MSC

SEC_CRITICAL_LIMIT_1

Critical limit is not set for successful events. The operator cannot set a critical limit for this counter.

Data Source

MSC

SEC_CRITICAL_LIMIT_10

Counter shows the alarm limit for the security counter. When the counter reaches the value or a multiple of the value shown in this field, alarm 1569 is generated.

Data Source

MSC

SEC_CRITICAL_LIMIT_11

Counter shows the alarm limit for the security counter. When the counter reaches the value or a multiple of the value shown in this field, alarm 1569 is generated.

Data Source

MSC

SEC_CRITICAL_LIMIT_12

Counter shows the alarm limit for the security counter. When the counter reaches the value or a multiple of the value shown in this field, alarm 1569 is generated.

Data Source

MSC

SEC_CRITICAL_LIMIT_13

Counter shows the alarm limit for the security counter. When the counter reaches the value or a multiple of the value shown in this field, alarm 1569 is generated.

Data Source

MSC

SEC_CRITICAL_LIMIT_14

Counter shows the alarm limit for the security counter. When the counter reaches the value or a multiple of the value shown in this field, alarm 1569 is generated.

Data Source

MSC

SEC_CRITICAL_LIMIT_15

Counter shows the alarm limit for the security counter. When the counter reaches the value or a multiple of the value shown in this field, alarm 1569 is generated.

Data Source

MSC

SEC_CRITICAL_LIMIT_16

Counter shows the alarm limit for the security counter. When the counter reaches the value or a multiple of the value shown in this field, alarm 1569 is generated.

Data Source

MSC

SEC_CRITICAL_LIMIT_2

Counter shows the alarm limit for the security counter. When the counter reaches the value or a multiple of the value shown in this field, alarm 1569 is generated.

Data Source

MSC

SEC_CRITICAL_LIMIT_3

Critical limit is not set for successful events. The operator cannot set a critical limit for this counter.

Data Source

MSC

SEC_CRITICAL_LIMIT_4

Counter shows the alarm limit for the security counter. When the counter reaches the value or a multiple of the value shown in this field, alarm 1569 is generated.

Data Source

MSC

SEC_CRITICAL_LIMIT_5

Counter shows the alarm limit for the security counter. When the counter reaches the value or a multiple of the value shown in this field, alarm 1569 is generated.

Data Source

MSC

SEC_CRITICAL_LIMIT_6

Critical limit is not set for successful events. The operator cannot set a critical limit for this counter.

Data Source

MSC

SEC_CRITICAL_LIMIT_7

Counter shows the alarm limit for the security counter. When the counter reaches the value or a multiple of the value shown in this field, alarm 1569 is generated.

Data Source

MSC

SEC_CRITICAL_LIMIT_8

Counter shows the alarm limit for the security counter. When the counter reaches the value or a multiple of the value shown in this field, alarm 1569 is generated.

Data Source

MSC

SEC_CRITICAL_LIMIT_9

Critical limit is not set for creating new users. The operator cannot set a critical limit for this counter.

Data Source

MSC

SEC_LONG_TERM_TOTAL_1

Counter shows the total number of events during the period from the previous reset of the long-term counters to the output time.

Data Source

MSC

SEC_LONG_TERM_TOTAL_10

Counter shows the total number of events during the period from the previous reset of the long-term counters to the output time.

Data Source

MSC

SEC_LONG_TERM_TOTAL_11

Counter shows the total number of events during the period from the previous reset of the long-term counters to the output time.

Data Source

MSC

SEC_LONG_TERM_TOTAL_12

Counter shows the total number of events during the period from the previous reset of the long-term counters to the output time.

Data Source

MSC

SEC_LONG_TERM_TOTAL_13

Counter shows the total number of events during the period from the previous reset of the long-term counters to the output time.

Data Source

MSC

SEC_LONG_TERM_TOTAL_14

Counter shows the total number of events during the period from the previous reset of the long-term counters to the output time.

Data Source

MSC

SEC_LONG_TERM_TOTAL_15

Counter shows the total number of events during the period from the previous reset of the long-term counters to the output time.

Data Source

MSC

SEC_LONG_TERM_TOTAL_16

Counter shows the total number of events during the period from the previous reset of the long-term counters to the output time.

Data Source

MSC

SEC_LONG_TERM_TOTAL_2

Counter shows the total number of events during the period from the previous reset of the long-term counters to the output time.

Data Source

MSC

SEC_LONG_TERM_TOTAL_3

Counter shows the total number of events during the period from the previous reset of the long-term counters to the output time.

Data Source

MSC

SEC_LONG_TERM_TOTAL_4

Counter shows the total number of events during the period from the previous reset of the long-term counters to the output time.

Data Source

MSC

SEC_LONG_TERM_TOTAL_5

Counter shows the total number of events during the period from the previous reset of the long-term counters to the output time.

Data Source

MSC

SEC_LONG_TERM_TOTAL_6

Counter shows the total number of events during the period from the previous reset of the long-term counters to the output time.

Data Source

MSC

SEC_LONG_TERM_TOTAL_7

Counter shows the total number of events during the period from the previous reset of the long-term counters to the output time.

Data Source

MSC

SEC_LONG_TERM_TOTAL_8

Counter shows the total number of events during the period from the previous reset of the long-term counters to the output time.

Data Source

MSC

SEC_LONG_TERM_TOTAL_9

Counter shows the total number of events during the period from the previous reset of the long-term counters to the output time.

Data Source

MSC

SEC_TOTAL_1

Counter shows the total number of successful events during the reporting period.

Data Source

MSC

SEC_TOTAL_10

Counter shows the total number of log writing failures during the reporting period.

Data Source

MSC

SEC_TOTAL_11

Counter shows the total number of command check errors during the reporting period.

Data Source

MSC

SEC_TOTAL_12

Counter shows the total number of authentication failures during the reporting period.

Data Source

MSC

SEC_TOTAL_13

Counter shows the total number of unknown IMSI numbers during the reporting period.

Data Source

MSC

SEC_TOTAL_14

Counter shows the total number of IMEI numbers found to be on the black list during the reporting period.

Data Source

MSC

SEC_TOTAL_15

Counter shows the total number of IMEI numbers found to be on the grey list during the reporting period.

Data Source

MSC

SEC_TOTAL_16

Counter shows the total number of unknown IMEI numbers during the reporting period.

Data Source

MSC

SEC_TOTAL_2

Counter shows the total number of illegal login attempts during the reporting period.

Data Source

MSC

SEC_TOTAL_3

Counter shows the total number of successful events during the reporting period.

Data Source

MSC

SEC_TOTAL_4

Counter shows the total number of attempts to access a network element with an invalid username or password during the reporting period.

Data Source

MSC

SEC_TOTAL_5

Counter shows the total number of attempts to access a network element with inadequate access rights during the reporting period.

Data Source

MSC

SEC_TOTAL_6

Counter shows the total number of started MML sessions during the reporting period.

Data Source

MSC

SEC_TOTAL_7

Counter shows the total number of attempts to open an MML session with an invalid username or password during the reporting period.

Data Source

MSC

SEC_TOTAL_8

Counter shows the total number of attempts to give MML commands with inadequate access rights during the reporting period.

Data Source

MSC

SEC_TOTAL_9

Counter shows the total number of new usernames that have been created during the reporting period.

Data Source

MSC

TOTAL

This counter shows the total number of successful events during the reporting period.

Data Source

MSC

Source Field

M176B17C1

Source Section

RNS_P_MEAS_SSEC_O2

SegmentID Primitive Calculations

The following is a list of primitive calculations for the SegmentID entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

1

SegmentID Peg Counts

The following is a list of peg counts for the SegmentID entity.

BSSRelease

BSS Release

Data Source

BSS

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

Service Primitive Calculations

The following is a list of primitive calculations for the Service entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

Service Peg Counts

The following is a list of peg counts for the Service entity.

MSCRelease

MSC Release

Data Source

MSC

MSCSSM_ACTIVATION

The number of times the facility has been activated (0...99999).

Data Source

MSC

MSCSSM_INQUIRY

The number of times the facility has been interrogated (0...99999).

Data Source

MSC

MSCSSM_PASSIVATION

The number of times the facility has been deactivated (0...99999).

Data Source

MSC

MSCSSM_USAGE

Total number of times the facility has been used (0...99999).

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

SigClearCode Primitive Calculations

The following is a list of primitive calculations for the SigClearCode entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

SigClearCode Peg Counts

The following is a list of peg counts for the SigClearCode entity.

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

SSCC_RING

The number of clear codes in the ringing phase (0...999999999).

Data Source

MSC

SSCC_SIGNALLING

The number of clear codes in the signalling phase (0...999999999).

Data Source

MSC

SSCC_SPEECH

The number of clear codes in the speech phase (0...999999999).

Data Source

MSC

SigClearCode_CC Primitive Calculations

The following is a list of primitive calculations for the SigClearCode_CC entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

SigClearCode_CC Peg Counts

The following is a list of peg counts for the SigClearCode_CC entity.

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

SSCC_RING

The number of clear codes in the ringing phase (0...999999999).

Data Source

MSC

SSCC_SIGNALLING

The number of clear codes in the signalling phase (0...999999999).

Data Source

MSC

SSCC_SPEECH

The number of clear codes in the speech phase (0...999999999).

Data Source

MSC

SigClearCode_CG Primitive Calculations

The following is a list of primitive calculations for the SigClearCode_CG entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

SigClearCode_CG Peg Counts

The following is a list of peg counts for the SigClearCode_CG entity.

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

SSCC_RING

The number of clear codes in the ringing phase (0...999999999).

Data Source

MSC

SSCC_SIGNALLING

The number of clear codes in the signalling phase (0...999999999).

Data Source

MSC

SSCC_SPEECH

The number of clear codes in the speech phase (0...999999999).

Data Source

MSC

SSCC2_RING

The number of clear codes in the ringing phase (0...999999999).

Data Source

MSC

SSCC2_SIGNALLING

The number of clear codes in the signalling phase (0...999999999).

Data Source

MSC

SSCC2_SPEECH

The number of clear codes in the speech phase (0...999999999).

Data Source

MSC

SignLink Primitive Calculations

The following is a list of primitive calculations for the SignLink entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

SignLink Peg Counts

The following is a list of peg counts for the SignLink entity.

ADJACENT_SP_INA_DURATION

Duration of inaccessibility of adjacent signalling point (5.2 in ITU-T Q.752) (seconds)

Data Source

MSC

ADJACENT_SP_INACCESSIBLE

Adjacent signalling point inaccessible (5.1 in ITU-T Q.752).

Data Source

MSC

CR_MESSAGES_RECEIVED_FROM_MTP

CR messages received from MTP plus ISDN-UP embedded CRs (9bis.7 in ITU-T Q.752)

Data Source

MSC

CR_MESSAGES_SEND_TO_MTP

CR messages sent to MTP plus ISDN-UP embedded CRs (9bis.5 in ITU-T Q.752)

Data Source

MSC

CREF_MESSAGES_RXED_FROM_MTP

CREF messages received from MTP (9bis.8 in ITU-T Q.752)

Data Source

MSC

CREF_MESSAGES_SENT_TO_MTP

CREF messages sent to MTP (9bis.6 in ITUT Q.752)

Data Source

MSC

ERR_MESSAGES_RECEIVED_FROM_MTP

ERR messages received from MTP (9bis.12 in ITU-T Q.752)

Data Source

MSC

ERR_MESSAGES_SENT_TO_MTP

ERR messages sent to MTP (9bis.11 in ITUT Q.752)

Data Source

MSC

FAILURE_REL_COMPL_SUP_DPC_CL_2

Failure of release complete supervision, protocol class 2 (7.15 in ITU-T Q.752)

Data Source

MSC

FAILURE_REL_COMPL_SUP_DPC_CL_3

Failure of release complete supervision, protocol class 3 (7.15 in ITU-T Q.752)

Data Source

MSC

INITIATION_OF_BROADCAST_TFA

Transmission of transfer allowed message started due to signalling link restoration (4.6 in ITU-T Q.752)

Data Source

MSC

INITIATION_OF_BROADCAST_TFP

Transmission of transfer prohibited message started due to signalling link failure (4.5 in ITU-T Q.752)

Data Source

MSC

LUDT_MESSAGES_RECEIVED

LUDT messages received (9bis.19 in ITU-T Q.752)

Data Source

MSC

LUDT_MESSAGES_SENT

LUDT messages sent (9bis.17 in ITU-T Q.752)

Data Source

MSC

LUOTS_MESSAGES_RECEIVED

LUOTS messages received (9bis.20 in ITU-T Q.752)

Data Source

MSC

LUOTS_MESSAGES_SENT

LUOTS messages sent (9bis.18 in ITU-T Q.752)

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

MSU_DISCARDED_REC_MSUS

Number of message signal units (MSU) discarded due to routing data error (received) (5.5 in ITU-T Q.752)

Data Source

MSC

MSU_DISCARDED_TRANS_MSUS

Number of message signal units (MSU) discarded due to routing data error (transmitted) (5.5 in ITU-T Q.752)

Data Source

MSC

NBR_OF_RECEIVED_TFC

Number of transfer controlled messages received (5.8 in ITU-T Q.752)

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

RELEASE_OF_CONNECTION_TO_DPC

Provider initiated release of a connection (7.18 in ITU-T Q.752)

Data Source

MSC

RESET_OF_CONNECTION_TO_DPC

Provider initiated reset of a connection (7.17 in ITU-T Q.752)

Data Source

MSC

ROUTING_FAILURE_NET_CONGESTION

Routing error - due to network overload (7.4 in ITU-T Q.752)

Data Source

MSC

ROUTING_FAILURE_NET_FAILURE

Routing error - due to failure in network (7.3 in ITU-T Q.752)

Data Source

MSC

ROUTING_FAILURE_OF_GT_TYPE_1

Routing error - no translation of GT type 1 (7.1 in ITU-T Q.752)

Data Source

MSC

ROUTING_FAILURE_OF_GT_TYPE_2

Routing error - no translation of GT type 2

Data Source

MSC

ROUTING_FAILURE_OF_GT_TYPE_3

Routing error - no translation of GT type 3

Data Source

MSC

ROUTING_FAILURE_OF_GT_TYPE_4

Routing error - no translation of GT type 4

Data Source

MSC

ROUTING_FAILURE_OF_SPECIFIC_GT

Routing error - no translation of specific GT (7.2 in ITU-T Q.752)

Data Source

MSC

ROUTING_FAILURE_OF_UNKNOWN_GT

Routing error - no translation of unknown GT type (7.1 in ITU-T Q.752)

Data Source

MSC

ROUTING_FAILURE_REASON_UNKNOWN

Routing error - unknown reason (7.9 in ITU-T Q.752)

Data Source

MSC

ROUTING_FAILURE_SS_CONGESTION

Routing error - due to subsystem overload (7.6 in ITU-T Q.752)

Data Source

MSC

ROUTING_FAILURE_SUBSYS_FAILURE

Routing error - due to failure in subsystem (7.5 in ITU-T Q.752)

Data Source

MSC

ROUTING_FAILURE_UNEQUIPPED_USR

Routing error - unequipped user (7.7 in ITUT Q.752)

Data Source

MSC

RSR_MESSAGES_RECEIVED_FROM_MTP

RSR messages received from MTP (9bis.10 in ITU-T Q.752)

Data Source

MSC

RSR_MESSAGES_SENT_TO_MTP

RSR messages sent to MTP (9bis.9 in ITU-T Q.752)

Data Source

MSC

SIF_AND_SIO_OCT_REC_WITH_OPC

Number of SIF and SIO octets received from OPC (6.1 in ITU-T Q.752)

Data Source

MSC

SL_SET_DURATION_OF_UNA

Duration of unavailability of signalling link set (4.2 in ITU-T Q.752) (seconds)

Data Source

MSC

SL_SET_START_FAILURE

Start of signalling link set failure (4.3 in ITU-T Q.752)

Data Source

MSC

SL_SET_STOP_FAILURE

Stop of signalling link set failure (4.4 in ITU-T Q.752)

Data Source

MSC

SR_SET_UNA_DUE_TO_TFP_REC

Unavailability of signalling route set due to transfer prohibited message received (4.7 in ITU-T Q.752)

Data Source

MSC

SR_SET_UNA_DURA_DUE_TO_TFP_REC

Duration of unavailability of signalling route set due to transfer prohibited message received (4.8 in ITU-T Q.752) (seconds)

Data Source

MSC

SR_SET_UNA_DURA_TO_GIVEN_DEST

Duration of unavailability of signalling route set (4.10 in ITU-T Q.752) (seconds)

Data Source

MSC

SR_SET_UNA_TO_GIVEN_DEST

Unavailability of signalling route set (4.9 in ITU-T Q.752)

Data Source

MSC

SYNTAX_ERROR_DETECTED

Observed syntax errors (7.8 in ITU-T Q.752)

Data Source

MSC

TIMER_TIAR_EXPIRY_FOR_DPC_CL_2

Timer T(iar) expiry, protocol class 2 (7.16 in ITU-T Q.752)

Data Source

MSC

TIMER_TIAR_EXPIRY_FOR_DPC_CL_3

Timer T(iar) expiry, protocol class 3 (7.16 in ITU-T Q.752)

Data Source

MSC

TOTAL_OCTETS_TRANS_TO_DPC

Number for transmitted SIF and SIO octets to DPC (total) (6.2 in ITU-T Q.752).

Data Source

MSC

UDT_MESSAGES_RECEIVED

UDT messages received (9bis.3 in ITU-T Q.752)

Data Source

MSC

UDT_MESSAGES_SENT

UDT messages sent (9bis.1 in ITU-T Q.752)

Data Source

MSC

UDTS_MESSAGES_RECEIVED

UDTS messages received (9bis.4 in ITU-T Q.752)

Data Source

MSC

UDTS_MESSAGES_SENT

UDTS messages sent (9bis.2 in ITU-T Q.752)

Data Source

MSC

UNAUTHORIZED_STP_MSUS_INH_DPC

Unauthorized STP MSU count for inhibited DPC

Data Source

MSC

UNAUTHORIZED_STP_MSUS_INH_OPC

Unauthorized STP MSU count for inhibited OPC

Data Source

MSC

UNAUTHORIZED_STP_MSUS_INH_STP

Unauthorized STP MSU count for inhibited STP

Data Source

MSC

UPUS_RECEIVED

User Part unavailable MSU received (5.7 in ITU-T Q.752)

Data Source

MSC

UPUS_TRANSMITTED

User Part unavailable MSU transmitted (5.6 in ITU-T Q.752)

Data Source

MSC

XUDT_MESSAGES_RECEIVED

XUDT messages received (9bis.15 in ITU-T Q.752)

Data Source

MSC

XUDT_MESSAGES_SENT

XUDT messages sent (9bis.13 in ITU-T Q.752)

Data Source

MSC

XUDTS_MESSAGES_RECEIVED

XUDTS messages received (9bis.16 in ITUT Q.752)

Data Source

MSC

XUDTS_MESSAGES_SENT

XUDTS messages sent (9bis.14 in ITU-T Q.752)

Data Source

MSC

SignPoints Primitive Calculations

The following is a list of primitive calculations for the SignPoints entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

SignPoints Peg Counts

The following is a list of peg counts for the SignPoints entity.

MSCRelease

MSC Release

Data Source

MSC

OCT_TRANS_TO_DPC_ACC_TO_ROUTE

Number for transmitted SIF and SIO octets to DPC via given STP (6.2 in ITU-T Q.752)

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

SignTraf_Matrix Primitive Calculations

The following is a list of primitive calculations for the SignTraf_Matrix entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

SignTraf_Matrix Peg Counts

The following is a list of peg counts for the SignTraf_Matrix entity.

MSCRelease

MSC Release

Data Source

MSC

NBR_OF_MSUS

Number of MSUs handled with given OPC, DPC, SIO (6.7 in ITU-T Q.752)

Data Source

MSC

NBR_OF_SIF_AND_SIO_OCTETS

Number of SIF and SIO octets handled with given OPC, DPC, SIO (6.6 in ITU-T Q.752)

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

SignTraffic Primitive Calculations

The following is a list of primitive calculations for the SignTraffic entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

SignTraffic Peg Counts

The following is a list of peg counts for the SignTraffic entity.

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

RECEIVED_OCTETS

Number of SIF and SIO received with given SIO (6.3 in ITU-T Q.752)

Data Source

MSC

TRANSMITTED_OCTETS

Number of SIF and SIO transmitted with given SIO (6.3 in ITU-T Q.752)

Data Source

MSC

SMS_SC_Address Primitive Calculations

The following is a list of primitive calculations for the SMS_SC_Address entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

SMS_SC_Address Peg Counts

The following is a list of peg counts for the SMS_SC_Address entity.

MSCRelease

MSC Release

Data Source

MSC

PERLENSC

Measurement collection interval (in seconds)

Data Source

MSC

SMSC_PERM_FAIL_GMSC_MT_PHYS

The number of unsuccessful SMs caused by a permanent error.

Data Source

MSC

SMSC_PERM_FAIL_VMSC_MT_PHYS

The number of unsuccessful SMs caused by a permanent error.

Data Source

MSC

SMSC_SUCC_GMSC_MT_PHYS

The number of successful SMs. The counter is updated for the clear code of 0x0. CODING: DW

Data Source

MSC

SMSC_SUCC_IWMSC_MO_LOGICAL

The number of successful SMs. The counter is updated for the clear code of 0x0. CODING: DW

Data Source

MSC

SMSC_SUCC_IWMSC_MO_PHYSICAL

The number of successful SMs. The counter is updated for the clear code of 0x0. CODING: DW

Data Source

MSC

SMSC_SUCC_VMSC_MO_LOGICAL

The number of successful SMs. The counter is updated for the clear code of 0x0. CODING: DW

Data Source

MSC

SMSC_SUCC_VMSC_MT_PHYS

The number of successful SMs. The counter is updated for the clear code of 0x0. CODING: DW

Data Source

MSC

SMSC_TEMP_FAIL_GMSC_MT_PHYS

The number of unsuccessful SMs caused by a temporary error. If the subscriber cannot be reached, or the mobiles memory is exceeded, it could cause a temporary error.

Data Source

MSC

SMSC_TEMP_FAIL_VMSC_MT_PHYS

The number of unsuccessful SMs caused by a temporary error. If the subscriber cannot be reached, or the mobiles memory is exceeded, it could cause a temporary error. The counter is updated for the following clear codes: 0x10 Absent subscriber. 0x316 The memory capacity is exceeded in the subscribers station. CODING: DW

Data Source

MSC

SMSC_UNSUCC_IWMSC_MO_LOGICAL

The number of unsuccessful SMs (PERM and TEMP FAIL).

Data Source

MSC

SMSC_UNSUCC_IWMSC_MO_PHYSICAL

The number of unsuccessful SMs (PERM and TEMP FAIL).

Data Source

MSC

SMSC_UNSUCC_VMSC_MO_LOGICAL

The number of unsuccessful SMs (PERM and TEMP FAIL).

Data Source

MSC

Subsystem Primitive Calculations

The following is a list of primitive calculations for the Subsystem entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

Subsystem Peg Counts

The following is a list of peg counts for the Subsystem entity.

DURA_OF_LOCAL_SCCP_UNAVAILABLE

Duration of the unavailability of a local SCCP (8.5 in ITU-T Q.752) (seconds)

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

START_LOC_SCCP_UNAV_CONGESTION

Start of unavailability of a local SCCP due to congestion (8.3 in ITU-T Q.752)

Data Source

MSC

START_LOC_SCCP_UNAV_FAILURE

Start of unavailability of a local SCCP due to failure (8.1 in ITU-T Q.752)

Data Source

MSC

START_LOC_SCCP_UNAV_MAINT_BUSY

Start of unavailability of a local SCCP due to maintenance busy (8.2 in ITU-T Q.752)

Data Source

MSC

STOP_OF_LOCAL_SCCP_UNAVAILABLE

Stop of unavailability of a local SCCP (8.4 in ITU-T Q.752)

Data Source

MSC

System Primitive Calculations

The following is a list of primitive calculations for the System entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

1

TC_THP_PFI Primitive Calculations

The following is a list of primitive calculations for the TC_THP_PFI entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PFC_CREATE_ATTEMPT

TC_THP_PFI Peg Counts

The following is a list of peg counts for the TC_THP_PFI entity.

BSSRelease

BSS Release

Data Source

BSS

DL_ACT_PFC_DUR_FOR_EGPRS

Duration for active PFC in Downlink direction for EGPRS. (The unit is 10 ms)

Data Source

BSS

Source Field

97040

Source Section

P_NBSC_EQOS

DL_LLC_DELAY_FRAME_BYTES_TOT

Total number of bytes in successfully transferred DL LLC frames in RLC acknowledged mode.

Data Source

BSC

Source Field

97049

Source Section

P_NBSC_EQOS

DL_LLC_DELAY_FRAME_DENOM

No at dev time.

Data Source

BSC

Source Field

97048

Source Section

P_NBSC_EQOS

DL_LLC_TRANSF_DELAY_SUM

DL LLC transfer delay per QoS profile, counted in RLC acknowledged mode only. Possible TBF establishment delay is not counted.

Data Source

BSC

Source Field

97047

Source Section

P_NBSC_EQOS

LLC_BYTES_DL

Number of downlink LLC bytes. Includes both GPRS and EGPRS modes.

Data Source

BSS

Source Field

97020

Source Section

P_NBSC_EQOS

LLC_BYTES_DL_DTM

Number of bytes transmitted in DL direction in DTM mode. Includes both GPRS and EGPRS modes.

Data Source

BSS

Source Field

97042

Source Section

P_NBSC_EQOS

LLC_BYTES_DL_EGPRS

Number of downlink LLC bytes for EGPRS TBF

Data Source

BSS

Source Field

97022

Source Section

P_NBSC_EQOS

LLC_BYTES_UL

Number of uplink LLC bytes. Includes both GPRS and EGPRS modes.

Data Source

BSS

Source Field

97019

Source Section

P_NBSC_EQOS

LLC_BYTES_UL_DTM

EXPLANATION: Number of bytes transmitted in UL direction in DTM mode. Includes both GPRS and EGPRS modes.

Data Source

BSS

Source Field

97041

Source Section

P_NBSC_EQOS

LLC_BYTES_UL_EGPRS

Number of uplink LLC bytes for EGPRS TBF

Data Source

BSS

Source Field

97021

Source Section

P_NBSC_EQOS

LLC_DL_BYTES_DISCARDED

Number of discarded LLC bytes due lifetime expiry or other abnormal reason.

Data Source

BSS

Source Field

97024

Source Section

P_NBSC_EQOS

LLC_UL_BYTES_DISCARDED

Number of discarded UL LLC bytes due to abnormal reason.

Data Source

BSS

Source Field

97023

Source Section

P_NBSC_EQOS

NON_PREDEF_PFC_CREATE_SUCC

Number of successful nonpredefined PFC creations.

Data Source

BSS

Source Field

97005

Source Section

P_NBSC_EQOS

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

PFC_ACTIVE_TIME_DL_SUM

Sum of times when data transfer for PFC (with certain TC+ARP) has been active in DL direction. (The unit is 10 ms)

Data Source

BSS

Source Field

97026

Source Section

P_NBSC_EQOS

PFC_ACTIVE_TIME_UL_SUM

Sum of times when data transfer for PFC (with certain TC+ARP) has been active in UL direction. (The unit is 10 ms)

Data Source

BSS

Source Field

97025

Source Section

P_NBSC_EQOS

PFC_CREATE_ATTEMPT

Number of started PFC creation attempts UPDATED: For a nonpredefined PFCs this counter is updated - when unknown PFI is received in UL TBF establishment or in DL LLC PDU. Object is according to best-effort ABQP for unknown PFC.- when SGSN initiates PFC creation by sending BSS PFC create request for a PFI unknown for the MS. Object is then according to ABQP.For predefined PFC: when PCU receives predefined PFI unknown for the MS.

Data Source

BSS

Source Field

97000

Source Section

P_NBSC_EQOS

PFC_CREATE_DOWNGR_QOS

Number of PFC creation attempts with downgraded QoS. Relevant to streaming (also legacy streaming) PFCs only. Downgrade is always from streaming to interactive/THP1.

Data Source

BSS

Source Field

97001

Source Section

P_NBSC_EQOS

PFC_CREATE_FAIL_DUE_EDAP_RES

Number of failed PFC creation attempts due EDAP or DSP resources.

Data Source

BSS

Source Field

97003

Source Section

P_NBSC_EQOS

PFC_CREATE_FAIL_DUE_OTHER

Number of failed PFC creation attempts due other reason than lacking radio, EDAP or DSP resources. Other reasons include: MS RAC information not received from SGSN, Create BSS PFC PDU with illegal information, RLC mode change not approved.

Data Source

BSS

Source Field

97004

Source Section

P_NBSC_EQOS

PFC_CREATE_FAIL_DUE_RADIO_RES

Number of failed PFC creation attempts due lacking radio resources.

Data Source

BSS

Source Field

97002

Source Section

P_NBSC_EQOS

PFC_DELETE_DUE_ABNORMAL

Number of times when PFC has been deleted due to abnormal reason. Reason is one of the following: QC, failed PFC modification, AC reject in target cell, or TBF release due territory downgrade.

Data Source

BSS

Source Field

97018

Source Section

P_NBSC_EQOS

PFC_DELETE_DUE_PFTIMER

Number of successful PFC deletions due PFTimer expiration.

Data Source

BSS

Source Field

97016

Source Section

P_NBSC_EQOS

PFC_DELETE_INTER_PCU_CELL_UPD

Number of times when PFC has been deleted after receiving a FLUSH-LL from SGSN indicating an inter PCU/RA cell change. In intra RA & PCU case PFC is deleted if transfer to target cell fails. In that case PFC DELETE DUE ABNORMAL counter is updated.

Data Source

BSS

Source Field

97017

Source Section

P_NBSC_EQOS

PFC_DELETE_SGSN_REQ

Number of successful PFC deletions initiated by SGSN. Occurs at the end of PDP context.

Data Source

BSS

Source Field

97015

Source Section

P_NBSC_EQOS

PFC_MODIFICATION_BY_PCU_ATT

Number of PCU initiated PFC modifications. Reason is either cell change or QC. PCU initiated PFC modification is relevant to streaming (including legacy streaming) traffic class only, and is always a downgrade (never upgrade) from streaming TC to interactive/THP1.

Data Source

BSS

Source Field

97008

Source Section

P_NBSC_EQOS

PFC_MODIFICATION_BY_PCU_SUCC

Number of PCU initiated PFC modifications, which are successful in PCU. PCU initiated PFC modification is relevant to streaming (including legacy streaming) traffic class only, and is always a downgrade (never upgrade) from streaming TC to interactive/THP1.

Data Source

BSS

Source Field

97009

Source Section

P_NBSC_EQOS

PFC_MODIFICATION_PCU_REJECT

Number of SGSN initiated PFC modifications rejected by PCU.

Data Source

BSS

Source Field

97011

Source Section

P_NBSC_EQOS

PFC_MODIFICATION_SGSN_INIT

Number of SGSN initiated PFC modifications. Either upgrade or downgrade to existing ABQP. Part of PDP context modification procedure where QoS parameters of the context have changed.

Data Source

BSS

Source Field

97010

Source Section

P_NBSC_EQOS

PFC_TRANSF_FAIL_DUE_RADIO_RES

Number of failed PFC transfers to target cell due lacking radio resources. Note! Object is the target cell.

Data Source

BSS

Source Field

97013

Source Section

P_NBSC_EQOS

PFC_TRANSFER_FAIL_DUE_EDAP

Number of failed PFC transfers to target cell due lacking EDAP and/or DSP resources. Note! Object is the target cell.

Data Source

BSS

Source Field

97014

Source Section

P_NBSC_EQOS

PFC_TRANSFER_STARTED

Number of started PFC transfers to target cell. Note! Object is the target cell.

Data Source

BSS

Source Field

97012

Source Section

P_NBSC_EQOS

PREDEF_DL_PFC_CREATE_SUCC

Number of successful predefined DL PFC creations.

Data Source

BSS

Source Field

97007

Source Section

P_NBSC_EQOS

PREDEF_UL_PFC_CREATE_SUCC

Number of successful predefined UL PFC creations.

Data Source

BSS

Source Field

97006

Source Section

P_NBSC_EQOS

QC_NCCR_DUE_BLER

Number of times when quality control initiates NCCR request due to high BLER.

Data Source

BSS

Source Field

97031

Source Section

P_NBSC_EQOS

QC_NCCR_DUE_RB_BITRATE

Number of times when quality control initiates NCCR request due to low radio block bitrate.

Data Source

BSS

Source Field

97032

Source Section

P_NBSC_EQOS

QC_NCCR_DUE_THROUGHPUT

Number of times when quality control initiates NCCR request due to low throughput.

Data Source

BSS

Source Field

97030

Source Section

P_NBSC_EQOS

QC_PFC_DELETE_DUE_BLER

Number of times when quality control initiates PFC deletion request due to high BLER.

Data Source

BSS

Source Field

97037

Source Section

P_NBSC_EQOS

QC_PFC_DELETE_DUE_RB_BITRATE

Number of times when quality control initiates PFC deletion request due to low radio block bitrate.

Data Source

BSS

Source Field

97038

Source Section

P_NBSC_EQOS

QC_PFC_DELETE_DUE_THROUGHPUT

Number of times when quality control initiates PFC deletion request due to low throughput.

Data Source

BSS

Source Field

97036

Source Section

P_NBSC_EQOS

QC_PFC_MODIFY_DUE_BLER

Number of times when quality control initiates PFC modification request due to high BLER.
Relevant to streaming and legacy streaming only.

Data Source

BSS

Source Field

97034

Source Section

P_NBSC_EQOS

QC_PFC_MODIFY_DUE_RB_BITRATE

Number of times when quality control initiates PFC modification request due to low radio block bitrate. Relevant to streaming and legacy streaming only.

Data Source

BSS

Source Field

97035

Source Section

P_NBSC_EQOS

QC_PFC_MODIFY_DUE_THROUGHPUT

Number of times when quality control initiates PFC modification request due to low throughput. Relevant to streaming and legacy straming only.

Data Source

BSS

Source Field

97033

Source Section

P_NBSC_EQOS

QC_TBF_REALLOC_DUE_BLER

Number of times when quality control initiates TBF reallocation request due to high BLER.

Data Source

BSS

Source Field

97028

Source Section

P_NBSC_EQOS

QC_TBF_REALLOC_DUE_RB_BITRATE

Number of times when quality control initiates TBF reallocation request due to low radio block bitrate.

Data Source

BSS

Source Field

97029

Source Section

P_NBSC_EQOS

QC_TBF_REALLOC_DUE_THROUGHPUT

Number of times when quality control initiates TBF reallocation request due to low throughput.

Data Source

BSS

Source Field

97027

Source Section

P_NBSC_EQOS

SPARE097043

Spare

Data Source

BSS

Source Field

97043

Source Section

P_NBSC_EQOS

SPARE097044

Spare

Data Source

BSS

Source Field

97044

Source Section

P_NBSC_EQOS

SPARE097045

Spare

Data Source

BSS

Source Field

97045

Source Section

P_NBSC_EQOS

SPARE097046

Spare

Data Source

BSS

Source Field

97046

Source Section

P_NBSC_EQOS

UL_ACT_PFC_DUR_FOR_EGPRS

Duration for active PFC in Uplink direction for EGPRS. (The unit is 10 ms)

Data Source

BSS

Source Field

97039

Source Section

P_NBSC_EQOS

TCSM Primitive Calculations

The following is a list of primitive calculations for the TCSM entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

TCSM Peg Counts

The following is a list of peg counts for the TCSM entity.

AIS_RECEIVED_1_ET_TCSM

The total number of received alarm indication signals (AIS) class 1.

Data Source

BSS

Source Field

66018

Source Section

P_NBSC_ET_TCSM

AIS_RECEIVED_2_ET_TCSM

The total number of received alarm indication signals (AIS) class 2.

Data Source

BSS

Source Field

66019

Source Section

P_NBSC_ET_TCSM

AIS_RECEIVED_3_ET_TCSM

The total number of received alarm indication signals (AIS) class 3.

Data Source

BSS

Source Field

66020

Source Section

P_NBSC_ET_TCSM

AIS_RECEIVED_4_ET_TCSM

The total number of received alarm indication signals (AIS) class 4.

Data Source

BSS

Source Field

66021

Source Section

P_NBSC_ET_TCSM

AVAIL_TIME_ET_TCSM

The total time when the connection has been available.

Data Source

BSS

Source Field

66001

Source Section

P_NBSC_ET_TCSM

BSSRelease

BSS Release

Data Source

BSS

DEGRADED_MIN_ET_TCSM

The number of degraded minutes.

Data Source

BSS

Source Field

66004

Source Section

P_NBSC_ET_TCSM

ERR_SEC_ET_TCSM

The number of erred seconds.

Data Source

BSS

Source Field

66002

Source Section

P_NBSC_ET_TCSM

ERR_SEC_SEVERE_ET_TCSM

The number of severelyerred seconds.

Data Source

BSS

Source Field

66003

Source Section

P_NBSC_ET_TCSM

FRAME_ALIGN_LOST_1_ET_TCSM

The total number of lost frame alignments class 1.

Data Source

BSS

Source Field

66014

Source Section

P_NBSC_ET_TCSM

FRAME_ALIGN_LOST_2_ET_TCSM

The total number of lost frame alignments class 2.

Data Source

BSS

Source Field

66015

Source Section

P_NBSC_ET_TCSM

FRAME_ALIGN_LOST_3_ET_TCSM

The total number of lost frame alignments class 3.

Data Source

BSS

Source Field

66016

Source Section

P_NBSC_ET_TCSM

FRAME_ALIGN_LOST_4_ET_TCSM

The total number of lost frame alignments class 4.

Data Source

BSS

Source Field

66017

Source Section

P_NBSC_ET_TCSM

FRAME_ALIGN_SIG_ERR_1_ET_TCSM

The total number of frame alignment signal errors class 1.

Data Source

BSS

Source Field

66026

Source Section

P_NBSC_ET_TCSM

FRAME_ALIGN_SIG_ERR_2_ET_TCSM

The total number of frame alignment signal errors class 2.

Data Source

BSS

Source Field

66027

Source Section

P_NBSC_ET_TCSM

FRAME_ALIGN_SIG_ERR_3_ET_TCSM

The total number of frame alignment signal errors class 3.

Data Source

BSS

Source Field

66028

Source Section

P_NBSC_ET_TCSM

FRAME_ALIGN_SIG_ERR_4_ET_TCSM

The total number of frame alignment signal errors class 4.

Data Source

BSS

Source Field

66029

Source Section

P_NBSC_ET_TCSM

INCOMING_SIG_MISSING_1_ET_TCSM

The total number of missing incoming signals class 1.

Data Source

BSS

Source Field

66010

Source Section

P_NBSC_ET_TCSM

INCOMING_SIG_MISSING_2_ET_TCSM

The total number of missing incoming signals class 2.

Data Source

BSS

Source Field

66011

Source Section

P_NBSC_ET_TCSM

INCOMING_SIG_MISSING_3_ET_TCSM

The total number of missing incoming signals class 3.

Data Source

BSS

Source Field

66012

Source Section

P_NBSC_ET_TCSM

INCOMING_SIG_MISSING_4_ET_TCSM

The total number of missing incoming signals class 4.

Data Source

BSS

Source Field

66013

Source Section

P_NBSC_ET_TCSM

NEGATIVE_SLIPS_ET_TCSM

The total number of negative slips.

Data Source

BSS

Source Field

66030

Source Section

P_NBSC_ET_TCSM

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

POSITIVE_SLIPS_ET_TCSM

The total number of positive slips.

Data Source

BSS

Source Field

66031

Source Section

P_NBSC_ET_TCSM

REMOTE_ALARM_1_ET_TCSM

The total number of alarms from the remote end class 1.

Data Source

BSS

Source Field

66022

Source Section

P_NBSC_ET_TCSM

REMOTE_ALARM_2_ET_TCSM

The total number of alarms from the remote end class 2.

Data Source

BSS

Source Field

66023

Source Section

P_NBSC_ET_TCSM

REMOTE_ALARM_3_ET_TCSM

The total number of alarms from the remote end class 3.

Data Source

BSS

Source Field

66024

Source Section

P_NBSC_ET_TCSM

REMOTE_ALARM_4_ET_TCSM

The total number of alarms from the remote end class 4.

Data Source

BSS

Source Field

66025

Source Section

P_NBSC_ET_TCSM

REMOTE_AVAIL_TIME_ET_TCSM

The time when the connection has been available.

Data Source

BSS

Source Field

66006

Source Section

P_NBSC_ET_TCSM

REMOTE_DEGRADED_MIN_ET_TCSM

The number of degraded minutes.

Data Source

BSS

Source Field

66009

Source Section

P_NBSC_ET_TCSM

REMOTE_ERR_SEC_ET_TCSM

The number of erred seconds.

Data Source

BSS

Source Field

66007

Source Section

P_NBSC_ET_TCSM

REMOTE_ERR_SEC_SEVERE_ET_TCSM

The number of severelyerred seconds.

Data Source

BSS

Source Field

66008

Source Section

P_NBSC_ET_TCSM

REMOTE_TOTAL_TIME_ET_TCSM

The time passed since the last reset of the counter.

Data Source

BSS

Source Field

66005

Source Section

P_NBSC_ET_TCSM

TOTAL_TIME_ET_TCSM

The total time passed since the last reset of the counter.

Data Source

BSS

Source Field

66000

Source Section

P_NBSC_ET_TCSM

TCSM_INTF Primitive Calculations

The following is a list of primitive calculations for the TCSM_INTF entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

TraffCategory Primitive Calculations

The following is a list of primitive calculations for the TraffCategory entity.

ANS_CALLS_TCR

Calls registered in clear code group 1.

Calculation

TCAT_GROUP1

AVG_HOLD_TIME

Average Hold Time in seconds

Calculation

$(PERLENSC * 60.0 * TCAT_TRAFF \times 100) / 100.0 / TCAT_OK_AMOUNT$

BLOCKING_ATTEMPTS

Number of Blocked Calls

Calculation

$TCAT_GROUP3 + TCAT_GROUP4$

BLOCKING_PERC

Number of Blocked Calls as a Percentage

Calculation

$100.0 * (TCAT_GROUP3 + TCAT_GROUP4) / TCAT_CALL_AMOUNT$

CALL_ATTEMPTS

Call Attempts

Calculation

$TCAT_CALL_AMOUNT$

CARRIED_TRAFFIC

Carried Traffic in Erlangs in sec

Calculation

$TCAT_TRAFF \times 100 / 100$

EXT_CONG_TCR

Calls registered in clear code group 4.

Calculation

$TCAT_GROUP4$

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

INT_CONG_TCR

Calls registered in clear code group 3.

Calculation

TCAT_GROUP3

MOU

Minutes Of Use min

Calculation

$(\text{TCAT_TRAFF} \times 100 / 100.0) * 60$

NOF_INEFFECTIVE_ATT

Number of Ineffective Attempts

Calculation

TCAT_CALL_AMOUNT - TCAT_OK_AMOUNT

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

RADIO_INTF_TCR

Calls registered in clear code group 6.

Calculation

TCAT_GROUP6

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

SUB_ERR_TCR

Calls registered in clear code group 5.

Calculation

TCAT_GROUP5

SUCC_CALL_COMPLETION

The number of successful calls.

Calculation

TCAT_OK_AMOUNT

TECH_SUCC_CALLS_TCH

Calls registered in clear code group 2.

Calculation

TCAT_GROUP2

TOTAL_SWITCHED_DIGITAL_MOU

Total Switched Digital Minutes of Use

Calculation

$PERLENSC * 60.0 * TCAT_TRAFF \times 100 / 100 / 60 / 60$

TraffCategory Peg Counts

The following is a list of peg counts for the TraffCategory entity.

MSCRelease

MSC Release

Data Source

MSC

PERLENSC

Measurement collection interval (in seconds)

Data Source

MSC

TCAT_ANSW_TR

The answered call duration.

Data Source

MSC

Source Field

M20B2C17

TCAT_CALL_AMOUNT

Number of call attempts (0...9999999). The field is updated when the circuit is released. In combination categories the field is updated when the first released circuit is released.

Data Source

MSC

TCAT_DATA_PROV_RESTARTED

The tag appears at the end of the given counter group with field value 1 when the actual record is invalid.

Data Source

MSC

Source Field

M20B2C14

Source Section

RNS_P_MEAS_TC_O2

TCAT_GROUP1

Call attempts (0...9999999) that are registered in each clear code group. The groups can be changed with the command TMH. The field is updated when the circuit is released. In combination categories the field is updated when the first released circuit is released.

Data Source

MSC

TCAT_GROUP2

Call attempts (0...9999999) that are registered in each clear code group. The groups can be changed with the command TMH. The field is updated when the circuit is released. In combination categories the field is updated when the first released circuit is released.

Data Source

MSC

TCAT_GROUP3

Call attempts (0...9999999) that are registered in each clear code group. The groups can be changed with the command TMH. The field is updated when the circuit is released. In combination categories the field is updated when the first released circuit is released.

Data Source

MSC

TCAT_GROUP4

Call attempts (0...9999999) that are registered in each clear code group. The groups can be changed with the command TMH. The field is updated when the circuit is released. In combination categories the field is updated when the first released circuit is released.

Data Source

MSC

TCAT_GROUP5

Call attempts (0...9999999) that are registered in each clear code group. The groups can be changed with the command TMH. The field is updated when the circuit is released. In combination categories the field is updated when the first released circuit is released.

Data Source

MSC

TCAT_GROUP6

Call attempts (0...9999999) that are registered in each clear code group. The groups can be changed with the command TMH. The field is updated when the circuit is released. In combination categories the field is updated when the first released circuit is released.

Data Source

MSC

TCAT_GROUP7

Call attempts (0...9999999) that are registered in each clear code group. The groups can be changed with the command TMH. The field is updated when the circuit is released. In combination categories the field is updated when the first released circuit is released.

Data Source

MSC

TCAT_GROUP8

Call attempts (0...9999999) that are registered in each clear code group. The groups can be changed with the command TMH. The field is updated when the circuit is released. In combination categories the field is updated when the first released circuit is released.

Data Source

MSC

TCAT_INTERN_INVALID_REC

This is to indicate whether the data in the actual record is valid or not. If the record data is valid, the counter won't appear in the report, otherwise it will be set to 1.

Data Source

MSC

TCAT_OK_AMOUNT

Number of answered calls (0...9999999) The field is updated when the circuit is released. In combination categories the field is updated when the first released circuit is released.

Data Source

MSC

TCAT_RING_AMOUNT

Number of calls that reached the ringing phase (0...9999999). Used only if Ring counter in traffic measurements feature is in use. When MSS receives the ACM message from the other MSS, Statistics saves that the call has reached the ringing phase.

Data Source

MSC

Source Field

M20B2C15

Source Section

RNS_P_MEAS_TC_O2

TCAT_SUCC_TR

The successful call duration.

Data Source

MSC

Source Field

M20B2C16

TCAT_TRAFFx100

The amount of traffic in the traffic category in erlangs (0.0...999999.9). That means the total reservation time of the measured object in relation to the results accumulation period. The erlangs are calculated from circuit seizure to circuit release.

Data Source

MSC

Transaction Primitive Calculations

The following is a list of primitive calculations for the Transaction entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

Transaction Peg Counts

The following is a list of peg counts for the Transaction entity.

CUMUL_MEAN_DURAT_OF_TRANSACT

Cumulative mean duration of transactions. Unit is 0,1 seconds. (13.9 in ITU-T Q.752)

Data Source

MSC

DT1_MESSAGES_RECEIVED_FROM_MTP

DT1 messages received from MTP per sink SSN (9.9 in ITU-T Q.752)

Data Source

MSC

DT1_MESSAGES_SENT_TO_MTP

DT1 messages sent to MTP per source SSN (9.10 in ITU-T Q.752)

Data Source

MSC

DT2_MESSAGES_RECEIVED_FROM_MTP

DT2 messages received from MTP per sink SSN (9.11 in ITU-T Q.752)

Data Source

MSC

DT2_MESSAGES_SENT_TO_MTP

DT2 messages sent to MTP per source SSN (9.12 in ITU-T Q.752)

Data Source

MSC

ED_MESSAGES_RECEIVED_FROM_MTP

ED messages received from MTP per sink SSN (9.14 in ITU-T Q.752)

Data Source

MSC

ED_MESSAGES_SENT_TO_MTP

ED messages sent to MTP per source SSN (9.13 in ITU-T Q.752)

Data Source

MSC

LOCAL_SS_PROHIBITED_START

Start of local subsystem prohibited (8.9 in ITU-T Q.752)

Data Source

MSC

LOCAL_SS_PROHIBITED_STOP

Stop of local subsystem prohibited (8.10 in ITU-T Q.752)

Data Source

MSC

MAX_NOF_OPEN_TRANSACTION_IDS

Maximum number of open transactions ids during the period (13.10 in ITU-T Q.752)

Data Source

MSC

MEAN_NUMBER_OF_OPEN_TRANSACT

Mean number of open transaction ids during the period (13.7 in ITU-T Q.752)

Data Source

MSC

MESSAGES_SENT_TO_BACKUP_SS

All messages transmitted to the redundant subsystem (9.8 in ITU-T Q.752)

Data Source

MSC

MSCRelease

MSC Release

Data Source

MSC

MSGS_TOO_BIG_FOR_SEGMENTATION

Messages too large for segmentation (7.14 in ITU-T Q.752)

Data Source

MSC

NUMBER_OF_NEW_TRANSACTIONS

Number of new transactions during the period (13.6 in ITU-T Q.752)

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

SS_OOS_REQUEST_DENIED_LOCAL

Rejection of a coordinated state modification request by a local subsystem (8.6 in ITU-T Q.752)

Data Source

MSC

SS_OOS_REQUEST_DENIED_REMOTE

Rejection of a coordinated state modification request by a remote subsystem (8.7 in ITU-T Q.752)

Data Source

MSC

SS_OOS_REQUEST_GRANTED_LOCAL

Acceptance of a coordinated state modification request by a local subsystem (8.6 in ITU-T Q.752)

Data Source

MSC

SS_OOS_REQUEST_GRANTED_REMOTE

Acceptance of a coordinated state modification request by a remote subsystem (8.7 in ITU-T Q.752)

Data Source

MSC

TOTAL_MESSAGES_FOR_LOCAL_SS

All messages related to a local subsystem (9.4 in ITU-T Q.752)

Data Source

MSC

TOTAL_MESSAGES_RXED_CLASS_0

All received messages in protocol class 0 (9.7 in ITU-T Q.752)

Data Source

MSC

TOTAL_MESSAGES_RXED_CLASS_1

All received messages in protocol class 1

Data Source

MSC

TOTAL_MESSAGES_SENT_CLASS_0

All transmitted messages in protocol class 0 (9.6 in ITU-T Q.752)

Data Source

MSC

TOTAL_MESSAGES_SENT_CLASS_1

All transmitted messages in protocol class 1

Data Source

MSC

TOTAL_MSGS_FROM_LOC_SS_NO_GT

Messages from a local subsystem that do not require GT translation (9.4 in ITU-T Q.752)

Data Source

MSC

TOTAL_MSGS_FROM_LOC_SS_WITH_GT

Messages from a local subsystem that require GT translation (9.4 in ITU-T Q.752)

Data Source

MSC

TOTAL_MSGS_TO_LOC_SS_NO_GT

Messages addressed to a local subsystem that do not require GT translation (9.4 in ITUT Q.752)

Data Source

MSC

TOTAL_MSGS_TO_LOC_SS_WITH_GT

Messages addressed to a local subsystem that require GT translation (9.4 in ITU-T Q.752)

Data Source

MSC

TRE Primitive Calculations

The following is a list of primitive calculations for the TRE entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

TRE Peg Counts

The following is a list of peg counts for the TRE entity.

AVE_OF_PACKET_DELAY_VARIATION

The average of jitter buffer packet delay variation.

Data Source

BSS

Source Field

118008

Source Section

P_NBSC_PSEUDO_WIRE_T_BTS

EARLY_PW_PACKETS

Number of received PW packets outside the sequence number window due to early arrival.

Data Source

BSS

Source Field

118006

Source Section

P_NBSC_PSEUDO_WIRE_T_BT

ERROR_ETH_FRAMES_TRE

Number of received errored Ethernet frames.

Data Source

BSS

Source Field

119002

Source Section

P_NBSC_TRE_ETHERNET

LATE_PW_PACKETS

Number of received PW packets outside the sequence number window due to late arrival.

Data Source

BSS

Source Field

118007

Source Section

P_NBSC_PSEUDO_WIRE_T_BT

LOST_PW_PACKETS

Number of lost PW packets. The PW packets that are dropped during packet processing or get lost during transport at the PSN.

Data Source

BSS

Source Field

118005

Source Section

P_NBSC_PSEUDO_WIRE_T_BT

MAX_OF_PACKET_DELAY_VARIATION

The maximum of jitter buffer packet delay variation over a measurement period.

Data Source

BSS

Source Field

118009

Source Section

P_NBSC_PSEUDO_WIRE_T_BT

MIN_OF_PACKET_DELAY_VARIATION

The minimum of jitter buffer packet delay variation over a measurement period.

Data Source

BSS

Source Field

118010

Source Section

P_NBSC_PSEUDO_WIRE_T_BT

RECEIVED_ETH_FRAMES_TRE

Number of received Ethernet frames containing errored and non-errored frames.

Data Source

BSS

Source Field

119001

Source Section

P_NBSC_TRE_ETHERNET

RECEIVED_ETH_OCTETS_TRE

Number of octets in a valid frames received on the interface.

Data Source

BSS

Source Field

119004

Source Section

P_NBSC_TRE_ETHERNET

RECEIVED_PW_PACKETS

Number of received PW packets containing errored and non-errored packets.

Data Source

BSS

Source Field

118003

Source Section

P_NBSC_PSEUDO_WIRE_T_BT

TRANSMITTED_ETH_FRAMES_TRE

Number of transmitted Ethernet frames.

Data Source

BSS

Source Field

119003

Source Section

P_NBSC_TRE_ETHERNET

TRANSMITTED_ETH_OCTETS_TRE

Number of octets in a valid frames sent on the interface.

Data Source

BSS

Source Field

119005

Source Section

P_NBSC_TRE_ETHERNET

TRANSMITTED_PW_PACKETS

The total number of transmitted PW packets.

Data Source

BSS

Source Field

118004

Source Section

P_NBSC_PSEUDO_WIRE_T_BT

Trunk_BSC Primitive Calculations

The following is a list of primitive calculations for the Trunk_BSC entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

Trunk_BSC Peg Counts

The following is a list of peg counts for the Trunk_BSC entity.

AIS_RECEIVED_1_ET_BSC

The total number of received alarm indication signals (AIS) class 1

Data Source

BSS

Source Field

65018

Source Section

P_NBSC_ET_BSC

AIS_RECEIVED_2_ET_BSC

The total number of received alarm indication signals (AIS) class 2

Data Source

BSS

Source Field

65019

Source Section

P_NBSC_ET_BSC

AIS_RECEIVED_3_ET_BSC

The total number of received alarm indication signals (AIS) class 3

Data Source

BSS

Source Field

65020

Source Section

P_NBSC_ET_BSC

AIS_RECEIVED_4_ET_BSC

The total number of received alarm indication signals (AIS) class 4

Data Source

BSS

Source Field

65021

Source Section

P_NBSC_ET_BSC

AVAIL_TIME_ET_BSC

The total time when the connection has been available

Data Source

BSS

Source Field

65001

Source Section

P_NBSC_ET_BSC

BSSRelease

BSS Release

Data Source

BSS

DEGRADED_MIN_ET_BSC

The number of degraded minutes

Data Source

BSS

Source Field

65004

Source Section

P_NBSC_ET_BSC

ERR_SEC_ET_BSC

The number of erred seconds

Data Source

BSS

Source Field

65002

Source Section

P_NBSC_ET_BSC

ERR_SEC_SEVERE_ET_BSC

The number of severely erred seconds

Data Source

BSS

Source Field

65003

Source Section

P_NBSC_ET_BSC

FRAME_ALIGN_LOST_1_ET_BSC

The total number of lost frame alignments class 1

Data Source

BSS

Source Field

65014

Source Section

P_NBSC_ET_BSC

FRAME_ALIGN_LOST_2_ET_BSC

The total number of lost frame alignments class 2

Data Source

BSS

Source Field

65015

Source Section

P_NBSC_ET_BSC

FRAME_ALIGN_LOST_3_ET_BSC

The total number of lost frame alignments class 3

Data Source

BSS

Source Field

65016

Source Section

P_NBSC_ET_BSC

FRAME_ALIGN_LOST_4_ET_BSC

The total number of lost frame alignments class 4

Data Source

BSS

Source Field

65017

Source Section

P_NBSC_ET_BSC

FRAME_ALIGN_SIG_ERR_1_ET_BSC

The total number of frame alignment signal errors class 1.

Data Source

BSS

Source Field

65026

Source Section

P_NBSC_ET_BSC

FRAME_ALIGN_SIG_ERR_2_ET_BSC

The total number of frame alignment signal errors class 2.

Data Source

BSS

Source Field

65027

Source Section

P_NBSC_ET_BSC

FRAME_ALIGN_SIG_ERR_3_ET_BSC

The total number of frame alignment signal errors class 3.

Data Source

BSS

Source Field

65028

Source Section

P_NBSC_ET_BSC

FRAME_ALIGN_SIG_ERR_4_ET_BSC

The total number of frame alignment signal errors class 4.

Data Source

BSS

Source Field

65029

Source Section

P_NBSC_ET_BSC

INCOMING_SIG_MISSING_1_ET_BSC

The total number of missing incoming signals class 1

Data Source

BSS

Source Field

65010

Source Section

P_NBSC_ET_BSC

INCOMING_SIG_MISSING_2_ET_BSC

The total number of missing incoming signals class 2

Data Source

BSS

Source Field

65011

Source Section

P_NBSC_ET_BSC

INCOMING_SIG_MISSING_3_ET_BSC

The total number of missing incoming signals class 3

Data Source

BSS

Source Field

65012

Source Section

P_NBSC_ET_BSC

INCOMING_SIG_MISSING_4_ET_BSC

The total number of missing incoming signals class 4

Data Source

BSS

Source Field

65013

Source Section

P_NBSC_ET_BSC

NEGATIVE_SLIPS_ET_BSC

The total number of negative slips.

Data Source

BSS

Source Field

65030

Source Section

P_NBSC_ET_BSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

POSITIVE_SLIPS_ET_BSC

The total number of positive slips.

Data Source

BSS

Source Field

65031

Source Section

P_NBSC_ET_BSC

REMOTE_ALARM_1_ET_BSC

The total number of alarms from the remote end class 1.

Data Source

BSS

Source Field

65022

Source Section

P_NBSC_ET_BSC

REMOTE_ALARM_2_ET_BSC

The total number of alarms from the remote end class 2.

Data Source

BSS

Source Field

65023

Source Section

P_NBSC_ET_BSC

REMOTE_ALARM_3_ET_BSC

The total number of alarms from the remote end class 3.

Data Source

BSS

Source Field

65024

Source Section

P_NBSC_ET_BSC

REMOTE_ALARM_4_ET_BSC

The total number of alarms from the remote end class 4.

Data Source

BSS

Source Field

65025

Source Section

P_NBSC_ET_BSC

REMOTE_AVAIL_TIME_ET_BSC

The time when the connection has been available

Data Source

BSS

Source Field

65006

Source Section

P_NBSC_ET_BSC

REMOTE_DEGRADED_MIN_ET_BSC

The number of degraded minutes

Data Source

BSS

Source Field

65009

Source Section

P_NBSC_ET_BSC

REMOTE_ERR_SEC_ET_BSC

The number of erred seconds

Data Source

BSS

Source Field

65007

Source Section

P_NBSC_ET_BSC

REMOTE_ERR_SEC_SEVERE_ET_BSC

The number of severely erred seconds

Data Source

BSS

Source Field

65008

Source Section

P_NBSC_ET_BSC

REMOTE_TOTAL_TIME_ET_BSC

The time passed since the last reset of the counter

Data Source

BSS

Source Field

65005

Source Section

P_NBSC_ET_BSC

TOTAL_TIME_ET_BSC

The total time passed since the last reset of the counter

Data Source

BSS

Source Field

65000

Source Section

P_NBSC_ET_BSC

TRX Primitive Calculations

The following is a list of primitive calculations for the TRX entity.

AGCH_ATTEMPTS

Number of immediate assignment messages sent to the BTS

Calculation

AGGR(TSL, AGCH_ATTEMPTS)

AGCH_REJECT

Number of immediate assignment reject messages sent to the BTS

Calculation

AGGR(TSL, AGCH_REJECT)

AGCH_REJECT_RATE

AGCH attempts reject rate

Calculation

AGGR(TSL, AGCH_REJECT_RATE)

AMR_DL_FR_MODE_1

AMR DL FR MODE 1

Calculation

$$\begin{aligned} & \text{AMR_FR_MODE_1_DL_RXQUAL_0} + \text{AMR_FR_MODE_1_DL_RXQUAL_1} + \\ & \text{AMR_FR_MODE_1_DL_RXQUAL_2} + \text{AMR_FR_MODE_1_DL_RXQUAL_3} + \\ & \text{AMR_FR_MODE_1_DL_RXQUAL_4} + \text{AMR_FR_MODE_1_DL_RXQUAL_5} + \\ & \text{AMR_FR_MODE_1_DL_RXQUAL_6} + \text{AMR_FR_MODE_1_DL_RXQUAL_7} \end{aligned}$$

AMR_DL_FR_MODE_2

AMR DL FR MODE 2

Calculation

$$\begin{aligned} & \text{AMR_FR_MODE_2_DL_RXQUAL_0} + \text{AMR_FR_MODE_2_DL_RXQUAL_1} + \\ & \text{AMR_FR_MODE_2_DL_RXQUAL_2} + \text{AMR_FR_MODE_2_DL_RXQUAL_3} + \\ & \text{AMR_FR_MODE_2_DL_RXQUAL_4} + \text{AMR_FR_MODE_2_DL_RXQUAL_5} + \\ & \text{AMR_FR_MODE_2_DL_RXQUAL_6} + \text{AMR_FR_MODE_2_DL_RXQUAL_7} \end{aligned}$$

AMR_DL_FR_MODE_3

AMR DL FR MODE 3

Calculation

$$\begin{aligned} & \text{AMR_FR_MODE_3_DL_RXQUAL_0} + \text{AMR_FR_MODE_3_DL_RXQUAL_1} + \\ & \text{AMR_FR_MODE_3_DL_RXQUAL_2} + \text{AMR_FR_MODE_3_DL_RXQUAL_3} + \\ & \text{AMR_FR_MODE_3_DL_RXQUAL_4} + \text{AMR_FR_MODE_3_DL_RXQUAL_5} + \\ & \text{AMR_FR_MODE_3_DL_RXQUAL_6} + \text{AMR_FR_MODE_3_DL_RXQUAL_7} \end{aligned}$$

AMR_DL_FR_MODE_4

AMR DL FR MODE 4

Calculation

$$\begin{aligned} & \text{AMR_FR_MODE_4_DL_RXQUAL_0} + \text{AMR_FR_MODE_4_DL_RXQUAL_1} + \\ & \text{AMR_FR_MODE_4_DL_RXQUAL_2} + \text{AMR_FR_MODE_4_DL_RXQUAL_3} + \\ & \text{AMR_FR_MODE_4_DL_RXQUAL_4} + \text{AMR_FR_MODE_4_DL_RXQUAL_5} + \\ & \text{AMR_FR_MODE_4_DL_RXQUAL_6} + \text{AMR_FR_MODE_4_DL_RXQUAL_7} \end{aligned}$$

AMR_DL_HR_MODE_1

AMR DL HR MODE 1

Calculation

$$\begin{aligned} & \text{AMR_HR_MODE_1_DL_RXQUAL_0} + \text{AMR_HR_MODE_1_DL_RXQUAL_1} + \\ & \text{AMR_HR_MODE_1_DL_RXQUAL_2} + \text{AMR_HR_MODE_1_DL_RXQUAL_3} + \\ & \text{AMR_HR_MODE_1_DL_RXQUAL_4} + \text{AMR_HR_MODE_1_DL_RXQUAL_5} + \\ & \text{AMR_HR_MODE_1_DL_RXQUAL_6} + \text{AMR_HR_MODE_1_DL_RXQUAL_7} \end{aligned}$$

AMR_DL_HR_MODE_2

AMR DL HR MODE 2

Calculation

$$\begin{aligned} & \text{AMR_HR_MODE_2_DL_RXQUAL_0} + \text{AMR_HR_MODE_2_DL_RXQUAL_1} + \\ & \text{AMR_HR_MODE_2_DL_RXQUAL_2} + \text{AMR_HR_MODE_2_DL_RXQUAL_3} + \\ & \text{AMR_HR_MODE_2_DL_RXQUAL_4} + \text{AMR_HR_MODE_2_DL_RXQUAL_5} + \\ & \text{AMR_HR_MODE_2_DL_RXQUAL_6} + \text{AMR_HR_MODE_2_DL_RXQUAL_7} \end{aligned}$$

AMR_DL_HR_MODE_3

AMR DL HR MODE 3

Calculation

$$\begin{aligned} & \text{AMR_HR_MODE_3_DL_RXQUAL_0} + \text{AMR_HR_MODE_3_DL_RXQUAL_1} + \\ & \text{AMR_HR_MODE_3_DL_RXQUAL_2} + \text{AMR_HR_MODE_3_DL_RXQUAL_3} + \\ & \text{AMR_HR_MODE_3_DL_RXQUAL_4} + \text{AMR_HR_MODE_3_DL_RXQUAL_5} + \\ & \text{AMR_HR_MODE_3_DL_RXQUAL_6} + \text{AMR_HR_MODE_3_DL_RXQUAL_7} \end{aligned}$$

AMR_DL_HR_MODE_4

AMR DL HR MODE 4

Calculation

$$\begin{aligned} & \text{AMR_HR_MODE_4_DL_RXQUAL_0} + \text{AMR_HR_MODE_4_DL_RXQUAL_1} + \\ & \text{AMR_HR_MODE_4_DL_RXQUAL_2} + \text{AMR_HR_MODE_4_DL_RXQUAL_3} + \\ & \text{AMR_HR_MODE_4_DL_RXQUAL_4} + \text{AMR_HR_MODE_4_DL_RXQUAL_5} + \\ & \text{AMR_HR_MODE_4_DL_RXQUAL_6} + \text{AMR_HR_MODE_4_DL_RXQUAL_7} \end{aligned}$$

AMR_UL_FR_MODE_1

AMR UL FR MODE 1

Calculation

$$\begin{aligned} & \text{AMR_FR_MODE_1_UL_RXQUAL_0} + \text{AMR_FR_MODE_1_UL_RXQUAL_1} + \\ & \text{AMR_FR_MODE_1_UL_RXQUAL_2} + \text{AMR_FR_MODE_1_UL_RXQUAL_3} + \\ & \text{AMR_FR_MODE_1_UL_RXQUAL_4} + \text{AMR_FR_MODE_1_UL_RXQUAL_5} + \\ & \text{AMR_FR_MODE_1_UL_RXQUAL_6} + \text{AMR_FR_MODE_1_UL_RXQUAL_7} \end{aligned}$$

AMR_UL_FR_MODE_2

AMR UL FR MODE 2

Calculation

$$\begin{aligned} & \text{AMR_FR_MODE_2_UL_RXQUAL_0} + \text{AMR_FR_MODE_2_UL_RXQUAL_1} + \\ & \text{AMR_FR_MODE_2_UL_RXQUAL_2} + \text{AMR_FR_MODE_2_UL_RXQUAL_3} + \\ & \text{AMR_FR_MODE_2_UL_RXQUAL_4} + \text{AMR_FR_MODE_2_UL_RXQUAL_5} + \\ & \text{AMR_FR_MODE_2_UL_RXQUAL_6} + \text{AMR_FR_MODE_2_UL_RXQUAL_7} \end{aligned}$$

AMR_UL_FR_MODE_3

AMR UL FR MODE 3

Calculation

$$\begin{aligned} & \text{AMR_FR_MODE_3_UL_RXQUAL_0} + \text{AMR_FR_MODE_3_UL_RXQUAL_1} + \\ & \text{AMR_FR_MODE_3_UL_RXQUAL_2} + \text{AMR_FR_MODE_3_UL_RXQUAL_3} + \\ & \text{AMR_FR_MODE_3_UL_RXQUAL_4} + \text{AMR_FR_MODE_3_UL_RXQUAL_5} + \\ & \text{AMR_FR_MODE_3_UL_RXQUAL_6} + \text{AMR_FR_MODE_3_UL_RXQUAL_7} \end{aligned}$$

AMR_UL_FR_MODE_4

AMR UL FR MODE 4

Calculation

$$\begin{aligned} & \text{AMR_FR_MODE_4_UL_RXQUAL_0} + \text{AMR_FR_MODE_4_UL_RXQUAL_1} + \\ & \text{AMR_FR_MODE_4_UL_RXQUAL_2} + \text{AMR_FR_MODE_4_UL_RXQUAL_3} + \\ & \text{AMR_FR_MODE_4_UL_RXQUAL_4} + \text{AMR_FR_MODE_4_UL_RXQUAL_5} + \\ & \text{AMR_FR_MODE_4_UL_RXQUAL_6} + \text{AMR_FR_MODE_4_UL_RXQUAL_7} \end{aligned}$$

AMR_UL_HR_MODE_1

AMR UL HR MODE 1

Calculation

$$\begin{aligned} & \text{AMR_HR_MODE_1_UL_RXQUAL_0} + \text{AMR_HR_MODE_1_UL_RXQUAL_1} + \\ & \text{AMR_HR_MODE_1_UL_RXQUAL_2} + \text{AMR_HR_MODE_1_UL_RXQUAL_3} + \\ & \text{AMR_HR_MODE_1_UL_RXQUAL_4} + \text{AMR_HR_MODE_1_UL_RXQUAL_5} + \\ & \text{AMR_HR_MODE_1_UL_RXQUAL_6} + \text{AMR_HR_MODE_1_UL_RXQUAL_7} \end{aligned}$$

AMR_UL_HR_MODE_2

AMR UL HR MODE 2

Calculation

$$\begin{aligned} & \text{AMR_HR_MODE_2_UL_RXQUAL_0} + \text{AMR_HR_MODE_2_UL_RXQUAL_1} + \\ & \text{AMR_HR_MODE_2_UL_RXQUAL_2} + \text{AMR_HR_MODE_2_UL_RXQUAL_3} + \\ & \text{AMR_HR_MODE_2_UL_RXQUAL_4} + \text{AMR_HR_MODE_2_UL_RXQUAL_5} + \\ & \text{AMR_HR_MODE_2_UL_RXQUAL_6} + \text{AMR_HR_MODE_2_UL_RXQUAL_7} \end{aligned}$$

AMR_UL_HR_MODE_3

AMR UL HR MODE 3

Calculation

$$\begin{aligned} & \text{AMR_HR_MODE_3_UL_RXQUAL_0} + \text{AMR_HR_MODE_3_UL_RXQUAL_1} + \\ & \text{AMR_HR_MODE_3_UL_RXQUAL_2} + \text{AMR_HR_MODE_3_UL_RXQUAL_3} + \\ & \text{AMR_HR_MODE_3_UL_RXQUAL_4} + \text{AMR_HR_MODE_3_UL_RXQUAL_5} + \\ & \text{AMR_HR_MODE_3_UL_RXQUAL_6} + \text{AMR_HR_MODE_3_UL_RXQUAL_7} \end{aligned}$$

AMR_UL_HR_MODE_4

AMR UL HR MODE 4

Calculation

$$\begin{aligned} & \text{AMR_HR_MODE_4_UL_RXQUAL_0} + \text{AMR_HR_MODE_4_UL_RXQUAL_1} + \\ & \text{AMR_HR_MODE_4_UL_RXQUAL_2} + \text{AMR_HR_MODE_4_UL_RXQUAL_3} + \\ & \text{AMR_HR_MODE_4_UL_RXQUAL_4} + \text{AMR_HR_MODE_4_UL_RXQUAL_5} + \\ & \text{AMR_HR_MODE_4_UL_RXQUAL_6} + \text{AMR_HR_MODE_4_UL_RXQUAL_7} \end{aligned}$$

AVG_DL_QUAL

Average Downlink Quality

Calculation

$$\begin{aligned} & (\text{FREQ_DL_QUAL0} + \text{FREQ_DL_QUAL1} + \text{FREQ_DL_QUAL2} + \text{FREQ_DL_QUAL3} + \\ & \text{FREQ_DL_QUAL4}) / (\text{FREQ_DL_QUAL0} + \text{FREQ_DL_QUAL1} + \text{FREQ_DL_QUAL2} + \\ & \text{FREQ_DL_QUAL3} + \text{FREQ_DL_QUAL4} + \text{FREQ_DL_QUAL5} + \text{FREQ_DL_QUAL6} + \\ & \text{FREQ_DL_QUAL7}) \end{aligned}$$

AVG_UL_QUAL

Average Uplink Quality

Calculation

$$\begin{aligned} & (\text{FREQ_UL_QUAL0} + \text{FREQ_UL_QUAL1} + \text{FREQ_UL_QUAL2} + \text{FREQ_UL_QUAL3} + \\ & \text{FREQ_UL_QUAL4}) / (\text{FREQ_UL_QUAL0} + \text{FREQ_UL_QUAL1} + \text{FREQ_UL_QUAL2} + \\ & \text{FREQ_UL_QUAL3} + \text{FREQ_UL_QUAL4} + \text{FREQ_UL_QUAL5} + \text{FREQ_UL_QUAL6} + \\ & \text{FREQ_UL_QUAL7}) \end{aligned}$$

BAD_DL_QUAL

Bad DL Quality

Calculation

$$\text{FREQ_DL_QUAL5} + \text{FREQ_DL_QUAL6} + \text{FREQ_DL_QUAL7}$$

BAD_UL_QUAL

Bad UL Quality

Calculation

$$\text{FREQ_UL_QUAL5} + \text{FREQ_UL_QUAL6} + \text{FREQ_UL_QUAL7}$$

DEL_IND_MESS

Number of delete indication messages received from the BTS

Calculation

$$\text{AGGR}(\text{TSL}, \text{DEL_IND_MESS})$$

DL_TRF_10_2_KBITS_S

Dnl TRF at 10.2 Kbits/s

Calculation

$AMR_DL_FR_MODE_3 / TOTAL_USAGE_DL$

DL_TRF_12_2_KBITS_S

Dnl TRF at 12.2 Kbits/s

Calculation

$AMR_DL_FR_MODE_4 / TOTAL_USAGE_DL$

DL_TRF_4_75_KBITS_S

Dnl TRF at 4.75 Kbits/s

Calculation

$AMR_DL_HR_MODE_1 / TOTAL_USAGE_DL$

DL_TRF_5_15_KBITS_S

Dnl TRF at 5.15 Kbits/s

Calculation

$AMR_DL_HR_MODE_2 / TOTAL_USAGE_DL$

DL_TRF_5_9_KBITS_S

Dnl TRF at 5.9 Kbits/s

Calculation

$AMR_DL_HR_MODE_3 / TOTAL_USAGE_DL$

DL_TRF_6_7_KBITS_S

Dnl TRF at 6.7 Kbits/s

Calculation

$AMR_DL_HR_MODE_4 / TOTAL_USAGE_DL$

DL_TRF_7_4_KBITS_S

Dnl TRF at 7.4 Kbits/s

Calculation

$AMR_DL_FR_MODE_1 / TOTAL_USAGE_DL$

DL_TRF_7_95_KBITS_S

Dnl TRF at 7.95 Kbits/s

Calculation

AMR_DL_FR_MODE_2 / TOTAL_USAGE_DL

DOWNLINK_FRAME_ERROR_RATE

Downlink Frame Error Rate (FER)

Calculation

AGGR(Codec, DOWNLINK_FRAME_ERROR_RATE)

DOWNLINK_RX_QUALITY

Downlink RX Quality

Calculation

AGGR(ClsUpRange_TRX, DOWNLINK_RX_QUALITY)

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT()

NUMHOURS

of hours in Summation Data

Calculation

PAGING_ATTEMPTS

Number of paging commands sent to the BTS

Calculation

AGGR(TSL, PAGING_ATTEMPTS)

PAGING_REJ_RATE

Paging reject rate

Calculation

AGGR(TSL, PAGING_REJ_RATE)

PAGING_REJECT

Paging rejected

Calculation

AGGR(TSL, PAGING_REJECT)

RACH_ATTEMPTS

Number of channel request messages received from the BTS

Calculation

AGGR(TSL, RACH_ATTEMPTS)

RACH_ILL_ESTAB_CAUSE

RACH due to illegal establish cause

Calculation

AGGR(TSL, RACH_ILL_ESTAB_CAUSE)

RACH_REJECT

Number of immediate assignment reject messages sent to the BTS

Calculation

AGGR(TSL, RACH_REJECT)

RACH_REJECT_RATE

RACH Reject Rate

Calculation

AGGR(TSL, RACH_REJECT_RATE)

REJ_SEIZ_ATT_DUE_DIST

The Nof succ TCH seizures for a MOC in FACCH call setup due to SD congestion

Calculation

AGGR(TSL, REJ_SEIZ_ATT_DUE_DIST)

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

SDCCH_CALL_RE_EST

The number of successful SDCCH seizures for call re establishment

Calculation

AGGR(TSL, SDCCH_CALL_RE_EST)

SDCCH_EMERG_CALL

The number of successful SDCCH seizures for an emergency call

Calculation

AGGR(TSL, SDCCH_EMERG_CALL)

SUCC_SDCCH_SMS_EST

The number of successful SMS establishments on the SDCCH

Calculation

AGGR(TSL, SUCC_SDCCH_SMS_EST)

SUCC_SEIZ_ORIG

Successful SDCCH seizures for a mobile originating call MOC

Calculation

AGGR(TSL, SUCC_SEIZ_ORIG)

SUCC_SEIZ_TERM

Successful SDCCH seizures for a mobile terminated call MTC

Calculation

AGGR(TSL, SUCC_SEIZ_TERM)

TCH_CALL_RE_EST

The number of successful TCH seizures for call re establishment

Calculation

AGGR(TSL, TCH_CALL_RE_EST)

TOTAL_DL_QUAL

Total Downlink Quality

Calculation

$$(\text{FREQ_DL_QUAL0} + \text{FREQ_DL_QUAL1} + \text{FREQ_DL_QUAL2} + \text{FREQ_DL_QUAL3} + \text{FREQ_DL_QUAL4} + \text{FREQ_DL_QUAL5} + \text{FREQ_DL_QUAL6} + \text{FREQ_DL_QUAL7})$$

TOTAL_UL_QUAL

Total Uplink Quality

Calculation

$$(\text{FREQ_UL_QUAL0} + \text{FREQ_UL_QUAL1} + \text{FREQ_UL_QUAL2} + \text{FREQ_UL_QUAL3} + \text{FREQ_UL_QUAL4} + \text{FREQ_UL_QUAL5} + \text{FREQ_UL_QUAL6} + \text{FREQ_UL_QUAL7})$$

TOTAL_USAGE_DL

Total Usage DL

Calculation

$$\text{AMR_DL_FR_MODE_1} + \text{AMR_DL_FR_MODE_2} + \text{AMR_DL_FR_MODE_3} + \text{AMR_DL_FR_MODE_4} + \text{AMR_DL_HR_MODE_1} + \text{AMR_DL_HR_MODE_2} + \text{AMR_DL_HR_MODE_3} + \text{AMR_DL_HR_MODE_4}$$

TOTAL_USAGE_UL

Total Usage UL

Calculation

$$\text{AMR_UL_FR_MODE_1} + \text{AMR_UL_FR_MODE_2} + \text{AMR_UL_FR_MODE_3} + \text{AMR_UL_FR_MODE_4} + \text{AMR_UL_HR_MODE_1} + \text{AMR_UL_HR_MODE_2} + \text{AMR_UL_HR_MODE_3} + \text{AMR_UL_HR_MODE_4}$$

UL_TRF_10_2_KBITS_S

Dnl TRF at 10.2 Kbits/s

Calculation

$$\text{AMR_UL_FR_MODE_3} / \text{TOTAL_USAGE_UL}$$

UL_TRF_12_2_KBITS_S

Dnl TRF at 12.2 Kbits/s

Calculation

$$\text{AMR_UL_FR_MODE_4} / \text{TOTAL_USAGE_UL}$$

UL_TRF_4_75_KBITS_S

Dnl TRF at 4.75 Kbits/s

Calculation

AMR_UL_HR_MODE_1 / TOTAL_USAGE_UL

UL_TRF_5_15_KBITS_S

Dnl TRF at 5.15 Kbits/s

Calculation

AMR_UL_HR_MODE_2 / TOTAL_USAGE_UL

UL_TRF_5_9_KBITS_S

Dnl TRF at 5.9 Kbits/s

Calculation

AMR_UL_HR_MODE_3 / TOTAL_USAGE_UL

UL_TRF_6_7_KBITS_S

Dnl TRF at 6.7 Kbits/s

Calculation

AMR_UL_HR_MODE_4 / TOTAL_USAGE_UL

UL_TRF_7_4_KBITS_S

Dnl TRF at 7.4 Kbits/s

Calculation

AMR_UL_FR_MODE_1 / TOTAL_USAGE_UL

UL_TRF_7_95_KBITS_S

Dnl TRF at 7.95 Kbits/s

Calculation

AMR_UL_FR_MODE_2 / TOTAL_USAGE_UL

UNSUCC_SDCCH_SMS_EST

The number of unsuccessful SMS establishment on SDCCH

Calculation

AGGR(TSL, UNSUCC_SDCCH_SMS_EST)

UPLINK_FRAME_ERROR_RATE

Uplink Frame Error Rate (FER)

Calculation

AGGR(Codec, UPLINK_FRAME_ERROR_RATE)

UPLINK_RX_QUALITY

Uplink RX Quality

Calculation

AGGR(ClsUpRange_TRX, UPLINK_RX_QUALITY)

TRX Peg Counts

The following is a list of peg counts for the TRX entity.

AMR_FR_CODEC_MODE_SET

Indicates the AMR codec mode sets for FR ch rates during the measurement interval

Data Source

BSS

Source Field

14149

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_1_DL_RXQUAL_0

Amount of AMR FR codec mode 1 usage on downlink direction within RxQual 0

Data Source

BSS

Source Field

14022

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_1_DL_RXQUAL_1

Amount of AMR FR codec mode 1 usage on downlink direction within RxQual 1

Data Source

BSS

Source Field

14024

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_1_DL_RXQUAL_2

Amount of AMR FR codec mode 1 usage on downlink direction within RxQual 2

Data Source

BSS

Source Field

14026

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_1_DL_RXQUAL_3

Amount of AMR FR codec mode 1 usage on downlink direction within RxQual 3

Data Source

BSS

Source Field

14028

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_1_DL_RXQUAL_4

Amount of AMR FR codec mode 1 usage on downlink direction within RxQual 4

Data Source

BSS

Source Field

14030

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_1_DL_RXQUAL_5

Amount of AMR FR codec mode 1 usage on downlink direction within RxQual 5

Data Source

BSS

Source Field

14032

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_1_DL_RXQUAL_6

Amount of AMR FR codec mode 1 usage on downlink direction within RxQual 6

Data Source

BSS

Source Field

14034

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_1_DL_RXQUAL_7

Amount of AMR FR codec mode 1 usage on downlink direction within RxQual 7

Data Source

BSS

Source Field

14036

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_1_UL_RXQUAL_0

Amount of AMR FR codec mode 1 usage on uplink direction within RxQual 0

Data Source

BSS

Source Field

14021

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_1_UL_RXQUAL_1

Amount of AMR FR codec mode 1 usage on uplink direction within RxQual 1

Data Source

BSS

Source Field

14023

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_1_UL_RXQUAL_2

Amount of AMR FR codec mode 1 usage on uplink direction within RxQual 2

Data Source

BSS

Source Field

14025

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_1_UL_RXQUAL_3

Amount of AMR FR codec mode 1 usage on uplink direction within RxQual 3

Data Source

BSS

Source Field

14027

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_1_UL_RXQUAL_4

Amount of AMR FR codec mode 1 usage on uplink direction within RxQual 4

Data Source

BSS

Source Field

14029

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_1_UL_RXQUAL_5

Amount of AMR FR codec mode 1 usage on uplink direction within RxQual 5

Data Source

BSS

Source Field

14031

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_1_UL_RXQUAL_6

Amount of AMR FR codec mode 1 usage on uplink direction within RxQual 6

Data Source

BSS

Source Field

14033

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_1_UL_RXQUAL_7

Amount of AMR FR codec mode 1 usage on uplink direction within RxQual 7

Data Source

BSS

Source Field

14035

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_2_DL_RXQUAL_0

Amount of AMR FR codec mode 2 usage on downlink direction within RxQual 0

Data Source

BSS

Source Field

14038

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_2_DL_RXQUAL_1

Amount of AMR FR codec mode 2 usage on downlink direction within RxQual 1

Data Source

BSS

Source Field

14040

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_2_DL_RXQUAL_2

Amount of AMR FR codec mode 2 usage on downlink direction within RxQual 2

Data Source

BSS

Source Field

14042

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_2_DL_RXQUAL_3

Amount of AMR FR codec mode 2 usage on downlink direction within RxQual 3

Data Source

BSS

Source Field

14044

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_2_DL_RXQUAL_4

Amount of AMR FR codec mode 2 usage on downlink direction within RxQual 4

Data Source

BSS

Source Field

14046

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_2_DL_RXQUAL_5

Amount of AMR FR codec mode 2 usage on downlink direction within RxQual 5

Data Source

BSS

Source Field

14048

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_2_DL_RXQUAL_6

Amount of AMR FR codec mode 2 usage on downlink direction within RxQual 6

Data Source

BSS

Source Field

14050

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_2_DL_RXQUAL_7

Amount of AMR FR codec mode 2 usage on downlink direction within RxQual 7

Data Source

BSS

Source Field

14052

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_2_UL_RXQUAL_0

Amount of AMR FR codec mode 2 usage on uplink direction within RxQual 0

Data Source

BSS

Source Field

14037

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_2_UL_RXQUAL_1

Amount of AMR FR codec mode 2 usage on uplink direction within RxQual 1

Data Source

BSS

Source Field

14039

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_2_UL_RXQUAL_2

Amount of AMR FR codec mode 2 usage on uplink direction within RxQual 2

Data Source

BSS

Source Field

14041

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_2_UL_RXQUAL_3

Amount of AMR FR codec mode 2 usage on uplink direction within RxQual 3

Data Source

BSS

Source Field

14043

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_2_UL_RXQUAL_4

Amount of AMR FR codec mode 2 usage on uplink direction within RxQual 4

Data Source

BSS

Source Field

14045

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_2_UL_RXQUAL_5

Amount of AMR FR codec mode 2 usage on uplink direction within RxQual 5

Data Source

BSS

Source Field

14047

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_2_UL_RXQUAL_6

Amount of AMR FR codec mode 2 usage on uplink direction within RxQual 6

Data Source

BSS

Source Field

14049

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_2_UL_RXQUAL_7

Amount of AMR FR codec mode 2 usage on uplink direction within RxQual 7

Data Source

BSS

Source Field

14051

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_3_DL_RXQUAL_0

Amount of AMR FR codec mode 3 usage on downlink direction within RxQual 0

Data Source

BSS

Source Field

14054

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_3_DL_RXQUAL_1

Amount of AMR FR codec mode 3 usage on downlink direction within RxQual 1

Data Source

BSS

Source Field

14056

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_3_DL_RXQUAL_2

Amount of AMR FR codec mode 3 usage on downlink direction within RxQual 2

Data Source

BSS

Source Field

14058

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_3_DL_RXQUAL_3

Amount of AMR FR codec mode 3 usage on downlink direction within RxQual 3

Data Source

BSS

Source Field

14060

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_3_DL_RXQUAL_4

Amount of AMR FR codec mode 3 usage on downlink direction within RxQual 4

Data Source

BSS

Source Field

14062

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_3_DL_RXQUAL_5

Amount of AMR FR codec mode 3 usage on downlink direction within RxQual 5

Data Source

BSS

Source Field

14064

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_3_DL_RXQUAL_6

Amount of AMR FR codec mode 3 usage on downlink direction within RxQual 6

Data Source

BSS

Source Field

14066

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_3_DL_RXQUAL_7

Amount of AMR FR codec mode 3 usage on downlink direction within RxQual 7

Data Source

BSS

Source Field

14068

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_3_UL_RXQUAL_0

Amount of AMR FR codec mode 3 usage on uplink direction within RxQual 0

Data Source

BSS

Source Field

14053

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_3_UL_RXQUAL_1

Amount of AMR FR codec mode 3 usage on uplink direction within RxQual 1

Data Source

BSS

Source Field

14055

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_3_UL_RXQUAL_2

Amount of AMR FR codec mode 3 usage on uplink direction within RxQual 2

Data Source

BSS

Source Field

14057

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_3_UL_RXQUAL_3

Amount of AMR FR codec mode 3 usage on uplink direction within RxQual 3

Data Source

BSS

Source Field

14059

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_3_UL_RXQUAL_4

Amount of AMR FR codec mode 3 usage on uplink direction within RxQual 4

Data Source

BSS

Source Field

14061

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_3_UL_RXQUAL_5

Amount of AMR FR codec mode 3 usage on uplink direction within RxQual 5

Data Source

BSS

Source Field

14063

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_3_UL_RXQUAL_6

Amount of AMR FR codec mode 3 usage on uplink direction within RxQual 6

Data Source

BSS

Source Field

14065

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_3_UL_RXQUAL_7

Amount of AMR FR codec mode 3 usage on uplink direction within RxQual 7

Data Source

BSS

Source Field

14067

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_4_DL_RXQUAL_0

Amount of AMR FR codec mode 4 usage on downlink direction within RxQual 0

Data Source

BSS

Source Field

14070

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_4_DL_RXQUAL_1

Amount of AMR FR codec mode 4 usage on downlink direction within RxQual 1

Data Source

BSS

Source Field

14072

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_4_DL_RXQUAL_2

Amount of AMR FR codec mode 4 usage on downlink direction within RxQual 2

Data Source

BSS

Source Field

14074

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_4_DL_RXQUAL_3

Amount of AMR FR codec mode 4 usage on downlink direction within RxQual 3

Data Source

BSS

Source Field

14076

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_4_DL_RXQUAL_4

Amount of AMR FR codec mode 4 usage on downlink direction within RxQual 4

Data Source

BSS

Source Field

14078

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_4_DL_RXQUAL_5

Amount of AMR FR codec mode 4 usage on downlink direction within RxQual 5

Data Source

BSS

Source Field

14080

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_4_DL_RXQUAL_6

Amount of AMR FR codec mode 4 usage on downlink direction within RxQual 6

Data Source

BSS

Source Field

14082

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_4_DL_RXQUAL_7

Amount of AMR FR codec mode 4 usage on downlink direction within RxQual 7

Data Source

BSS

Source Field

14084

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_4_UL_RXQUAL_0

Amount of AMR FR codec mode 4 usage on uplink direction within RxQual 0

Data Source

BSS

Source Field

14069

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_4_UL_RXQUAL_1

Amount of AMR FR codec mode 4 usage on uplink direction within RxQual 1

Data Source

BSS

Source Field

14071

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_4_UL_RXQUAL_2

Amount of AMR FR codec mode 4 usage on uplink direction within RxQual 2

Data Source

BSS

Source Field

14073

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_4_UL_RXQUAL_3

Amount of AMR FR codec mode 4 usage on uplink direction within RxQual 3

Data Source

BSS

Source Field

14075

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_4_UL_RXQUAL_4

Amount of AMR FR codec mode 4 usage on uplink direction within RxQual 4

Data Source

BSS

Source Field

14077

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_4_UL_RXQUAL_5

Amount of AMR FR codec mode 4 usage on uplink direction within RxQual 5

Data Source

BSS

Source Field

14079

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_4_UL_RXQUAL_6

Amount of AMR FR codec mode 4 usage on uplink direction within RxQual 6

Data Source

BSS

Source Field

14081

Source Section

P_NBSC_RX_QUAL

AMR_FR_MODE_4_UL_RXQUAL_7

Amount of AMR FR codec mode 4 usage on uplink direction within RxQual 7

Data Source

BSS

Source Field

14083

Source Section

P_NBSC_RX_QUAL

AMR_HR_CODEC_MODE_SET

Indicates the AMR codec mode sets for HR ch rates during the measurement interval

Data Source

BSS

Source Field

14150

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_1_DL_RXQUAL_0

Amount of AMR HR codec mode 1 usage on downlink direction within RxQual 0

Data Source

BSS

Source Field

14086

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_1_DL_RXQUAL_1

Amount of AMR HR codec mode 1 usage on downlink direction within RxQual 1

Data Source

BSS

Source Field

14088

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_1_DL_RXQUAL_2

Amount of AMR HR codec mode 1 usage on downlink direction within RxQual 2

Data Source

BSS

Source Field

14090

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_1_DL_RXQUAL_3

Amount of AMR HR codec mode 1 usage on downlink direction within RxQual 3

Data Source

BSS

Source Field

14092

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_1_DL_RXQUAL_4

Amount of AMR HR codec mode 1 usage on downlink direction within RxQual 4

Data Source

BSS

Source Field

14094

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_1_DL_RXQUAL_5

Amount of AMR HR codec mode 1 usage on downlink direction within RxQual 5

Data Source

BSS

Source Field

14096

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_1_DL_RXQUAL_6

Amount of AMR HR codec mode 1 usage on downlink direction within RxQual 6

Data Source

BSS

Source Field

14098

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_1_DL_RXQUAL_7

Amount of AMR HR codec mode 1 usage on downlink direction within RxQual 7

Data Source

BSS

Source Field

14100

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_1_UL_RXQUAL_0

Amount of AMR HR codec mode 1 usage on uplink direction within RxQual 0

Data Source

BSS

Source Field

14085

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_1_UL_RXQUAL_1

Amount of AMR HR codec mode 1 usage on uplink direction within RxQual 1

Data Source

BSS

Source Field

14087

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_1_UL_RXQUAL_2

Amount of AMR HR codec mode 1 usage on uplink direction within RxQual 2

Data Source

BSS

Source Field

14089

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_1_UL_RXQUAL_3

Amount of AMR HR codec mode 1 usage on uplink direction within RxQual 3

Data Source

BSS

Source Field

14091

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_1_UL_RXQUAL_4

Amount of AMR HR codec mode 1 usage on uplink direction within RxQual 4

Data Source

BSS

Source Field

14093

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_1_UL_RXQUAL_5

Amount of AMR HR codec mode 1 usage on uplink direction within RxQual 5

Data Source

BSS

Source Field

14095

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_1_UL_RXQUAL_6

Amount of AMR HR codec mode 1 usage on uplink direction within RxQual 6

Data Source

BSS

Source Field

14097

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_1_UL_RXQUAL_7

Amount of AMR HR codec mode 1 usage on uplink direction within RxQual 7

Data Source

BSS

Source Field

14099

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_2_DL_RXQUAL_0

Amount of AMR HR codec mode 2 usage on downlink direction within RxQual 0

Data Source

BSS

Source Field

14102

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_2_DL_RXQUAL_1

Amount of AMR HR codec mode 2 usage on downlink direction within RxQual 1

Data Source

BSS

Source Field

14104

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_2_DL_RXQUAL_2

Amount of AMR HR codec mode 2 usage on downlink direction within RxQual 2

Data Source

BSS

Source Field

14106

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_2_DL_RXQUAL_3

Amount of AMR HR codec mode 2 usage on downlink direction within RxQual 3

Data Source

BSS

Source Field

14108

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_2_DL_RXQUAL_4

Amount of AMR HR codec mode 2 usage on downlink direction within RxQual 4

Data Source

BSS

Source Field

14110

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_2_DL_RXQUAL_5

Amount of AMR HR codec mode 2 usage on downlink direction within RxQual 5

Data Source

BSS

Source Field

14112

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_2_DL_RXQUAL_6

Amount of AMR HR codec mode 2 usage on downlink direction within RxQual 6

Data Source

BSS

Source Field

14114

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_2_DL_RXQUAL_7

Amount of AMR HR codec mode 2 usage on downlink direction within RxQual 7

Data Source

BSS

Source Field

14116

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_2_UL_RXQUAL_0

Amount of AMR HR codec mode 2 usage on uplink direction within RxQual 0

Data Source

BSS

Source Field

14101

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_2_UL_RXQUAL_1

Amount of AMR HR codec mode 2 usage on uplink direction within RxQual 1

Data Source

BSS

Source Field

14103

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_2_UL_RXQUAL_2

Amount of AMR HR codec mode 2 usage on uplink direction within RxQual 2

Data Source

BSS

Source Field

14105

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_2_UL_RXQUAL_3

Amount of AMR HR codec mode 2 usage on uplink direction within RxQual 3

Data Source

BSS

Source Field

14107

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_2_UL_RXQUAL_4

Amount of AMR HR codec mode 2 usage on uplink direction within RxQual 4

Data Source

BSS

Source Field

14109

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_2_UL_RXQUAL_5

Amount of AMR HR codec mode 2 usage on uplink direction within RxQual 5

Data Source

BSS

Source Field

14111

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_2_UL_RXQUAL_6

Amount of AMR HR codec mode 2 usage on uplink direction within RxQual 6

Data Source

BSS

Source Field

14113

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_2_UL_RXQUAL_7

Amount of AMR HR codec mode 2 usage on uplink direction within RxQual 7

Data Source

BSS

Source Field

14115

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_3_DL_RXQUAL_0

Amount of AMR HR codec mode 3 usage on downlink direction within RxQual 0

Data Source

BSS

Source Field

14118

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_3_DL_RXQUAL_1

Amount of AMR HR codec mode 3 usage on downlink direction within RxQual 1

Data Source

BSS

Source Field

14120

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_3_DL_RXQUAL_2

Amount of AMR HR codec mode 3 usage on downlink direction within RxQual 2

Data Source

BSS

Source Field

14122

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_3_DL_RXQUAL_3

Amount of AMR HR codec mode 3 usage on downlink direction within RxQual 3

Data Source

BSS

Source Field

14124

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_3_DL_RXQUAL_4

Amount of AMR HR codec mode 3 usage on downlink direction within RxQual 4

Data Source

BSS

Source Field

14126

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_3_DL_RXQUAL_5

Amount of AMR HR codec mode 3 usage on downlink direction within RxQual 5

Data Source

BSS

Source Field

14128

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_3_DL_RXQUAL_6

Amount of AMR HR codec mode 3 usage on downlink direction within RxQual 6

Data Source

BSS

Source Field

14130

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_3_DL_RXQUAL_7

Amount of AMR HR codec mode 3 usage on downlink direction within RxQual 7

Data Source

BSS

Source Field

14132

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_3_UL_RXQUAL_0

Amount of AMR HR codec mode 3 usage on uplink direction within RxQual 0

Data Source

BSS

Source Field

14117

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_3_UL_RXQUAL_1

Amount of AMR HR codec mode 3 usage on uplink direction within RxQual 1

Data Source

BSS

Source Field

14119

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_3_UL_RXQUAL_2

Amount of AMR HR codec mode 3 usage on uplink direction within RxQual 2

Data Source

BSS

Source Field

14121

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_3_UL_RXQUAL_3

Amount of AMR HR codec mode 3 usage on uplink direction within RxQual 3

Data Source

BSS

Source Field

14123

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_3_UL_RXQUAL_4

Amount of AMR HR codec mode 3 usage on uplink direction within RxQual 4

Data Source

BSS

Source Field

14125

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_3_UL_RXQUAL_5

Amount of AMR HR codec mode 3 usage on uplink direction within RxQual 5

Data Source

BSS

Source Field

14127

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_3_UL_RXQUAL_6

Amount of AMR HR codec mode 3 usage on uplink direction within RxQual 6

Data Source

BSS

Source Field

14129

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_3_UL_RXQUAL_7

Amount of AMR HR codec mode 3 usage on uplink direction within RxQual 7

Data Source

BSS

Source Field

14131

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_4_DL_RXQUAL_0

Amount of AMR HR codec mode 4 usage on downlink direction within RxQual 0

Data Source

BSS

Source Field

14134

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_4_DL_RXQUAL_1

Amount of AMR HR codec mode 4 usage on downlink direction within RxQual 1

Data Source

BSS

Source Field

14136

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_4_DL_RXQUAL_2

Amount of AMR HR codec mode 4 usage on downlink direction within RxQual 2

Data Source

BSS

Source Field

14138

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_4_DL_RXQUAL_3

Amount of AMR HR codec mode 4 usage on downlink direction within RxQual 3

Data Source

BSS

Source Field

14140

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_4_DL_RXQUAL_4

Amount of AMR HR codec mode 4 usage on downlink direction within RxQual 4

Data Source

BSS

Source Field

14142

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_4_DL_RXQUAL_5

Amount of AMR HR codec mode 4 usage on downlink direction within RxQual 5

Data Source

BSS

Source Field

14144

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_4_DL_RXQUAL_6

Amount of AMR HR codec mode 4 usage on downlink direction within RxQual 6

Data Source

BSS

Source Field

14146

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_4_DL_RXQUAL_7

Amount of AMR HR codec mode 4 usage on downlink direction within RxQual 7

Data Source

BSS

Source Field

14148

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_4_UL_RXQUAL_0

Amount of AMR HR codec mode 4 usage on uplink direction within RxQual 0

Data Source

BSS

Source Field

14133

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_4_UL_RXQUAL_1

Amount of AMR HR codec mode 4 usage on uplink direction within RxQual 1

Data Source

BSS

Source Field

14135

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_4_UL_RXQUAL_2

Amount of AMR HR codec mode 4 usage on uplink direction within RxQual 2

Data Source

BSS

Source Field

14137

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_4_UL_RXQUAL_3

Amount of AMR HR codec mode 4 usage on uplink direction within RxQual 3

Data Source

BSS

Source Field

14139

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_4_UL_RXQUAL_4

Amount of AMR HR codec mode 4 usage on uplink direction within RxQual 4

Data Source

BSS

Source Field

14141

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_4_UL_RXQUAL_5

Amount of AMR HR codec mode 4 usage on uplink direction within RxQual 5

Data Source

BSS

Source Field

14143

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_4_UL_RXQUAL_6

Amount of AMR HR codec mode 4 usage on uplink direction within RxQual 6

Data Source

BSS

Source Field

14145

Source Section

P_NBSC_RX_QUAL

AMR_HR_MODE_4_UL_RXQUAL_7

Amount of AMR HR codec mode 4 usage on uplink direction within RxQual 7

Data Source

BSS

Source Field

14147

Source Section

P_NBSC_RX_QUAL

ATT_FROM_SUPER_BAD_CI

Nof ho att from this super-reuse TRX due to the bad C/I ratio on super-reuse freq

Data Source

BSS

Source Field

52063

Source Section

P_NBSC_UNDERLAY

ATT_FROM_SUPER_DL_IF

Nof ho att from this super-reuse TRX due to the high interference on downlink.

Data Source

BSS

Source Field

52061

Source Section

P_NBSC_UNDERLAY

ATT_FROM_SUPER_DL_QUAL

Nof ho attempts from this super-reuse TRX due to the downlink quality.

Data Source

BSS

Source Field

52060

Source Section

P_NBSC_UNDERLAY

ATT_FROM_SUPER_UL_IF

Nof ho attempts from this super-reuse TRX due to the high interference on uplink

Data Source

BSS

Source Field

52062

Source Section

P_NBSC_UNDERLAY

AVE_BS_POWER

Samples are taken from the RF power level of the BS during calls at regular intervals

Data Source

BSS

Source Field

5006

Source Section

P_NBSC_POWER

AVE_BUSY_TCH_TRX

Average number of busy TCHs

Data Source

BSS

Source Field

052028/052029

Source Section

P_NBSC_UNDERLAY

AVE_DL_SIG_QUAL

Average downlink signal quality measured in the cell

Data Source

BSS

Source Field

5016

Source Section

P_NBSC_POWER

AVE_DL_SIG_STR_TRX

Average downlink signal strength measured in the cell

Data Source

BSS

Source Field

5012

Source Section

P_NBSC_POWER

AVE_FULL_TCH_IF1

Average number of idle full rateTCHs in interference band 1

Data Source

BSS

Source Field

052008/052009

Source Section

P_NBSC_UNDERLAY

AVE_FULL_TCH_IF2

Average number of idle full rateTCHs in interference band 2

Data Source

BSS

Source Field

052010/052011

Source Section

P_NBSC_UNDERLAY

AVE_FULL_TCH_IF3

Average number of idle full rateTCHs in interference band 3

Data Source

BSS

Source Field

052012/052013

Source Section

P_NBSC_UNDERLAY

AVE_FULL_TCH_IF4

Average number of idle full rateTCHs in interference band 4

Data Source

BSS

Source Field

052014/052015

Source Section

P_NBSC_UNDERLAY

AVE_FULL_TCH_IF5

Average number of idle full rate TCHs in interference band 5

Data Source

BSS

Source Field

052016/052017

Source Section

P_NBSC_UNDERLAY

AVE_HALF_TCH_IF1

Average number of idle half rate TCHs in interference band 1

Data Source

BSS

Source Field

052018/052019

Source Section

P_NBSC_UNDERLAY

AVE_HALF_TCH_IF2

Average number of idle half rate TCHs in interference band 2

Data Source

BSS

Source Field

052020/052021

Source Section

P_NBSC_UNDERLAY

AVE_HALF_TCH_IF3

Average number of idle half rate TCHs in interference band 3

Data Source

BSS

Source Field

052022/052023

Source Section

P_NBSC_UNDERLAY

AVE_HALF_TCH_IF4

Average number of idle half rate TCHs in interference band 4

Data Source

BSS

Source Field

052024/052015

Source Section

P_NBSC_UNDERLAY

AVE_HALF_TCH_IF5

Average number of idle half rate TCHs in interference band 5

Data Source

BSS

Source Field

052026/052027

Source Section

P_NBSC_UNDERLAY

AVE_MS_BS_DIST

The average MS to BS distance in a cell

Data Source

BSS

Source Field

005020/005021

Source Section

P_NBSC_POWER

AVE_MS_POWER

During the calls at regular intervals samples are taken from the RF power level of the MS

Data Source

BSS

Source Field

5004

Source Section

P_NBSC_POWER

AVE_SAIC_BS_POWER_DENOM

Number of the SAIC capable MS related RF power level value samples in the serving cell.
Denominator of the counter 005034 AVERAGE SAIC BS POWER.

Data Source

BSC

Source Field

5035

Source Section

RBS_PS_POWER_TRX_RAW, RBS_PS_POTRX_TRX_RAW

AVE_SUM_IDLE_CH_INTERF

Average idle channel interference per TRX.

Data Source

BSS

Source Field

5025

Source Section

P_NBSC_POWER

AVE_SUM_IDLE_TCH_PER_TRX

Average idle TCHs per TRX.

Data Source

BSS

Source Field

5026

Source Section

P_NBSC_POWER

AVE_UL_SIG_QUAL

Average uplink signal quality measured in cell

Data Source

BSS

Source Field

5018

Source Section

P_NBSC_POWER

AVE_UL_SIG_STR

Average uplink signal strength measured in the cell

Data Source

BSS

Source Field

5014

Source Section

P_NBSC_POWER

AVERAGE_SAIC_BS_POWER

UPDATED: During calls the RF power level of the BS is sampled at regular intervals (40 SACCH multiframes = about 20 seconds). The average BS power level used in the cells is calculated on the basis of these samples; 0..15. Value 0 Pmax - 0 dBm 1 Pmax - 2 dBm...15 Pmax - 30 dBm Pmax is the maximum transmission power of the BTS. If Pmax is 43 dBm, then the value 0 means 43 dBm and value 15 means 13 dBm

Data Source

BSS

Source Field

5034

Source Section

P_NBSC_POWER

BS_PWR_DEC_CMD

BS power control messages where the new commanded RF power level is lower than the RF power level

Data Source

BSS

Source Field

5003

Source Section

P_NBSC_POWER

BS_PWR_DEC_QUAL

BS power control messages where the new commanded RF power level is lower than the RF power level

Data Source

BSS

Source Field

5011

Source Section

P_NBSC_POWER

BS_PWR_INC_CMD

BS power control mess where the new commanded RF power level is higher than the Rf power level

Data Source

BSS

Source Field

5002

Source Section

P_NBSC_POWER

BS_PWR_INC_QUAL

BS power control messages where the new commanded RF power level is higher than the RF power level

Data Source

BSS

Source Field

5010

Source Section

P_NBSC_POWER

BS_PWR_INC_QUAL_14400

Nof BS power control increase commands in a cell caused by the dl signal quality in 14.4 kbit/s data connection

Data Source

BSS

Source Field

5033

Source Section

P_NBSC_POWER

BSSRelease

BSS Release

Data Source

BSS

BTS_ID_RX_QUAL

BTS identification the value may vary from 1 to 248.

Data Source

BSS

Source Field

14000

Source Section

P_NBSC_RX_QUAL

BTS_ID_UNDERLAY

BTS identification the value may vary from 1 to 248.

Data Source

BSS

Source Field

52000

Source Section

P_NBSC_UNDERLAY

CELL_ID

Identification of frequency groupThe identification of the frequency group that the TRX belongs to

Data Source

BSS

CELL_IF_TOO_HIGH

High estimated interference level

Data Source

BSS

Source Field

52040

Source Section

P_NBSC_UNDERLAY

CELL_QUAL_TOO_LOW

Handoverisinhibitedbecauseofbad quality experience

Data Source

BSS

Source Field

52041

Source Section

P_NBSC_UNDERLAY

CELL1_ID

Identification of the interfering cell 1 Cell Identification (CI)

Data Source

BSS

Source Field

52030

Source Section

P_NBSC_UNDERLAY

CELL1_IF_TOO_HIGH

High directly measured interference measured by interfering cell

Data Source

BSS

Source Field

52031

Source Section

P_NBSC_UNDERLAY

CELL1_LAC

Identification of the interfering cell 1 Location Area Code (LAC)

Data Source

BSS

Source Field

52030

Source Section

P_NBSC_UNDERLAY

CELL1_MCC

MCC/MNC pair of interfering cell 1. MCC = 2 bytes MNC = 1 byte

Data Source

BSS

Source Field

52094

Source Section

P_NBSC_UNDERLAY

CELL1_MNC

MCC/MNC pair of interfering cell 1. MCC = 2 bytes MNC = 1 byte

Data Source

BSS

Source Field

52094

Source Section

P_NBSC_UNDERLAY

CELL10_ID

Identification of the interfering cell 10.

Data Source

BSS

Source Field

52072

Source Section

P_NBSC_UNDERLAY

CELL10_LAC

Location area of the interfering cell 10.

Data Source

BSS

Source Field

52072

Source Section

P_NBSC_UNDERLAY

CELL10_MCC

MCC/MNC pair of interfering cell 10 MCC = 2 bytes MNC = 1 byte

Data Source

BSS

Source Field

52103

Source Section

P_NBSC_UNDERLAY

CELL10_MNC

MCC/MNC pair of interfering cell 10 MCC = 2 bytes MNC = 1 byte

Data Source

BSS

Source Field

52103

Source Section

P_NBSC_UNDERLAY

CELL10_TOO_HIGH

High directly measured interference caused by the interfering cell 10

Data Source

BSS

Source Field

52073

Source Section

P_NBSC_UNDERLAY

CELL2_ID

Identification of the interfering cell 2 (Cell Identification (CI))

Data Source

BSS

Source Field

52032

Source Section

P_NBSC_UNDERLAY

CELL2_IF_TOO_HIGH

High directly measured interference measured by interfering cell

Data Source

BSS

Source Field

52033

Source Section

P_NBSC_UNDERLAY

CELL2_LAC

Identification of the interfering cell 2 Location Area Code (LAC)

Data Source

BSS

Source Field

52032

Source Section

P_NBSC_UNDERLAY

CELL2_MCC

MCC/MNC pair of interfering cell 2 MCC = 2 bytes MNC = 1 byte

Data Source

BSS

Source Field

52095

Source Section

P_NBSC_UNDERLAY

CELL2_MNC

MCC/MNC pair of interfering cell 2 MCC = 2 bytes MNC = 1 byte

Data Source

BSS

Source Field

52095

Source Section

P_NBSC_UNDERLAY

CELL3_ID

Identification of the interfering cell 3(Cell Identification (CI))

Data Source

BSS

Source Field

52034

Source Section

P_NBSC_UNDERLAY

CELL3_IF_TOO_HIGH

High directly measured interference measured by interfering cell

Data Source

BSS

Source Field

52035

Source Section

P_NBSC_UNDERLAY

CELL3_LAC

Identification of the interfering cell 3(Location Area Code (LAC))

Data Source

BSS

Source Field

52034

Source Section

P_NBSC_UNDERLAY

CELL3_MCC

MCC/MNC pair of interfering cell 3 MCC = 2 bytes MNC = 1 byte

Data Source

BSS

Source Field

52096

Source Section

P_NBSC_UNDERLAY

CELL3_MNC

MCC/MNC pair of interfering cell 3 MCC = 2 bytes MNC = 1 byte

Data Source

BSS

Source Field

52096

Source Section

P_NBSC_UNDERLAY

CELL4_ID

Identification of the interfering cell 4 (Cell Identification (CI))

Data Source

BSS

Source Field

52036

Source Section

P_NBSC_UNDERLAY

CELL4_IF_TOO_HIGH

High directly measured interference measured by interfering cell

Data Source

BSS

Source Field

52037

Source Section

P_NBSC_UNDERLAY

CELL4_LAC

Identification of the interfering cell 4 (Location Area Code (LAC))

Data Source

BSS

Source Field

52036

Source Section

P_NBSC_UNDERLAY

CELL4_MCC

MCC/MNC pair of interfering cell 4 MCC = 2 bytes MNC = 1 byte

Data Source

BSS

Source Field

52097

Source Section

P_NBSC_UNDERLAY

CELL4_MNC

MCC/MNC pair of interfering cell 4 MCC = 2 bytes MNC = 1 byte

Data Source

BSS

Source Field

52097

Source Section

P_NBSC_UNDERLAY

CELL5_ID

Identification of the interfering cell 5 (Cell Identification (CI))

Data Source

BSS

Source Field

52038

Source Section

P_NBSC_UNDERLAY

CELL5_IF_TOO_HIGH

High directly measured interference measured by interfering cell

Data Source

BSS

Source Field

52039

Source Section

P_NBSC_UNDERLAY

CELL5_LAC

Identification of the interfering cell 5 Location Area Code (LAC)

Data Source

BSS

Source Field

52038

Source Section

P_NBSC_UNDERLAY

CELL5_MCC

MCC/MNC pair of interfering cell 5 MCC = 2 bytes MNC = 1 byte

Data Source

BSS

Source Field

52098

Source Section

P_NBSC_UNDERLAY

CELL5_MNC

MCC/MNC pair of interfering cell 5 MCC = 2 bytes MNC = 1 byte

Data Source

BSS

Source Field

52098

Source Section

P_NBSC_UNDERLAY

CELL6_ID

Identification of the interfering cell 6.

Data Source

BSS

Source Field

52064

Source Section

P_NBSC_UNDERLAY

CELL6_LAC

Location area of the interfering cell 6.

Data Source

BSS

Source Field

52064

Source Section

P_NBSC_UNDERLAY

CELL6_MCC

MCC/MNC pair of interfering cell 6 MCC = 2 bytes MNC = 1 byte

Data Source

BSS

Source Field

52099

Source Section

P_NBSC_UNDERLAY

CELL6_MNC

MCC/MNC pair of interfering cell 6 MCC = 2 bytes MNC = 1 byte

Data Source

BSS

Source Field

52099

Source Section

P_NBSC_UNDERLAY

CELL6_TOO_HIGH

High directly measured interference caused by the interfering cell 6.

Data Source

BSS

Source Field

52065

Source Section

P_NBSC_UNDERLAY

CELL7_ID

Identification of the interfering cell 7.

Data Source

BSS

Source Field

52066

Source Section

P_NBSC_UNDERLAY

CELL7_LAC

Location area of the interfering cell 7.

Data Source

BSS

Source Field

52066

Source Section

P_NBSC_UNDERLAY

CELL7_MCC

MCC/MNC pair of interfering cell 7 MCC = 2 bytes MNC = 1 byte

Data Source

BSS

Source Field

52100

Source Section

P_NBSC_UNDERLAY

CELL7_MNC

MCC/MNC pair of interfering cell 7 MCC = 2 bytes MNC = 1 byte

Data Source

BSS

Source Field

52100

Source Section

P_NBSC_UNDERLAY

CELL7_TOO_HIGH

High directly measured interference cause by the interfering cell 7.

Data Source

BSS

Source Field

52067

Source Section

P_NBSC_UNDERLAY

CELL8_ID

Identification of the interfering cell 8

Data Source

BSS

Source Field

52068

Source Section

P_NBSC_UNDERLAY

CELL8_LAC

Location area of the interfering cell 8

Data Source

BSS

Source Field

52068

Source Section

P_NBSC_UNDERLAY

CELL8_MCC

MCC/MNC pair of interfering cell 8 MCC = 2 bytes MNC = 1 byte

Data Source

BSS

Source Field

52101

Source Section

P_NBSC_UNDERLAY

CELL8_MNC

MCC/MNC pair of interfering cell 8 MCC = 2 bytes MNC = 1 byte

Data Source

BSS

Source Field

52101

Source Section

P_NBSC_UNDERLAY

CELL8_TOO_HIGH

High directly measured interference caused by the interfering cell 8

Data Source

BSS

Source Field

52069

Source Section

P_NBSC_UNDERLAY

CELL9_ID

Identification of the interfering cell 9.

Data Source

BSS

Source Field

52070

Source Section

P_NBSC_UNDERLAY

CELL9_LAC

Location area of the interfering cell 9.

Data Source

BSS

Source Field

52070

Source Section

P_NBSC_UNDERLAY

CELL9_MCC

MCC/MNC pair of interfering cell 9 MCC = 2 bytes MNC = 1 byte

Data Source

BSS

Source Field

52102

Source Section

P_NBSC_UNDERLAY

CELL9_MNC

MCC/MNC pair of interfering cell 9 MCC = 2 bytes MNC = 1 byte

Data Source

BSS

Source Field

52102

Source Section

P_NBSC_UNDERLAY

CELL9_TOO_HIGH

High directly measured interference caused by the interfering cell 9

Data Source

BSS

Source Field

52071

Source Section

P_NBSC_UNDERLAY

CLASSMARK_1_TIME_POWER

CLASSMARK_1

Data Source

BSS

Source Section

P_NBSC_POWER

CLASSMARK_2_TIME_POWER

CLASSMARK_2

Data Source

BSS

Source Section

P_NBSC_POWER

CLASSMARK_3_TIME_POWER

CLASSMARK_3

Data Source

BSS

Source Section

P_NBSC_POWER

CLASSMARK_4_TIME_POWER

CLASSMARK_4

Data Source

BSS

Source Section

P_NBSC_POWER

CLASSMARK_5_TIME_POWER

CLASSMARK_5

Data Source

BSS

Source Section

P_NBSC_POWER

CLASSMARK_GEN_TIME_POWER

CLASSMARK_GEN

Data Source

BSS

Source Section

P_NBSC_POWER

DIR_ACC_HO_ATT_SUPER

Number of direct access attempts to a super-reuse TRX.

Data Source

BSS

Source Field

52088

Source Section

P_NBSC_UNDERLAY

DIR_ACC_HO_FAIL_SUPER_DROP_C

Number of dropped calls due to a failed direct access.

Data Source

BSS

Source Field

52093

Source Section

P_NBSC_UNDERLAY

DIR_ACC_HO_FAIL_SUPER_LACK_R

Nof failed direct access att to a super-reuse TRX due to lack of radio resources

Data Source

BSS

Source Field

52090

Source Section

P_NBSC_UNDERLAY

DIR_ACC_HO_FAIL_SUPER_RET_OLD

Nof failed direct access att to a super-reuse TRX due to the return to the old ch

Data Source

BSS

Source Field

52092

Source Section

P_NBSC_UNDERLAY

DIR_ACC_HO_FAIL_SUPER_TR

Nof TCH transaction fail during direct access attempts to a super-reuse TRX

Data Source

BSS

Source Field

52091

Source Section

P_NBSC_UNDERLAY

DIR_ACC_HO_SUCC_SUPER

Number of successful direct accesses to a super-reuse TRX.

Data Source

BSS

Source Field

52089

Source Section

P_NBSC_UNDERLAY

DL_RLC_MAC_BLOCKS

Number of downlink RLC/MAC blocks.

Data Source

BSS

Source Field

73003

Source Section

P_NBSC_RLC_BLOCKS_PER_TRX

DL_RX_QUAL_POWER_CL_0

The sum of an downlink RX quality class values,whendownlink transmitting poweris within AMR PPC power class0 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111004

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_0_DENOM

Number of downlink RX quality class value samples when downlink transmitting power is within AMR PPC power class 0 (AMR PPC power classes from 0 to 15). Denominator for counter "DL RX QUALITY FOR POWER CLASS 0"

Data Source

BSC

Source Field

111005

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_1

The sum of an downlink RX quality class values when downlink transmitting power is within AMR PPC power class 1 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111008

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_1_DENOM

Number of downlink RX quality class value samples when downlink transmitting power is within AMR PPC power class 1 (AMR PPC power classes from 0 to 15). Denominator for counter "DL RX QUALITY FOR POWER CLASS 1"

Data Source

BSC

Source Field

111009

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_10

The sum of an downlink RX quality class valueswhendownlink transmitting poweris within AMR PPC power class10 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111044

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_10_DENOM

Number of downlink RX quality class value sampleswhen downlink transmitting poweris within AMR PPC power class 10 (AMR PPC power classes from 0 to 15). Denominator for counter"DL RX QUALITY FOR POWER CLASS 10"

Data Source

BSC

Source Field

111045

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_11

The sum of an downlink RX quality class valueswhendownlink transmitting poweris within AMR PPC power class11 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111048

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_11_DENOM

Number of downlink RX quality class value samples when downlink transmitting power is within AMR PPC power class 11 (AMR PPC power classes from 0 to 15). Denominator for counter "DL RX QUALITY FOR POWER CLASS 11"

Data Source

BSC

Source Field

111049

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_12

The sum of an downlink RX quality class values when downlink transmitting power is within AMR PPC power class 12 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111052

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_12_DENOM

Number of downlink RX quality class value samples when downlink transmitting power is within AMR PPC power class 12 (AMR PPC power classes from 0 to 15). Denominator for counter "DL RX QUALITY FOR POWER CLASS 12"

Data Source

BSC

Source Field

111053

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_13

The sum of an downlink RX quality class values when downlink transmitting power is within AMR PPC power class 13 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111056

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_13_DENOM

Number of downlink RX quality class value samples when downlink transmitting power is within AMR PPC power class 13 (AMR PPC power classes from 0 to 15). Denominator for counter "DL RX QUALITY FOR POWER CLASS 13"

Data Source

BSC

Source Field

111057

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_14

The sum of an downlink RX quality class valueswhendownlink transmitting poweris within AMR PPC power class14 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111060

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_14_DENOM

Number of downlink RX quality class value sampleswhen downlink transmitting poweris within AMR PPC power class 14 (AMR PPC power classes from 0 to 15). Denominator for counter"DL RX QUALITY FOR POWER CLASS 14"

Data Source

BSC

Source Field

111061

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_15

The sum of an downlink RX quality class valueswhendownlink transmitting poweris within AMR PPC power class15 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111064

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_15_DENOM

Number of downlink RX quality class value samples when downlink transmitting power is within AMR PPC power class 15 (AMR PPC power classes from 0 to 15). Denominator for counter "DL RX QUALITY FOR POWER CLASS 15"

Data Source

BSC

Source Field

111065

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_2

The sum of an downlink RX quality class values when downlink transmitting power is within AMR PPC power class 2 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111012

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_2_DENOM

Number of downlink RX quality class value samples when downlink transmitting power is within AMR PPC power class 2 (AMR PPC power classes from 0 to 15). Denominator for counter "DL RX QUALITY FOR POWER CLASS 2"

Data Source

BSC

Source Field

111013

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_3

The sum of an downlink RX quality class valueswhendownlink transmitting poweris within AMR PPC power class3 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111016

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_3_DENOM

Number of downlink RX quality class value sampleswhen downlink transmitting poweris within AMR PPC power class 3 (AMR PPC power classes from 0 to 15). Denominator for counter"DL RX QUALITY FOR POWER CLASS 3"

Data Source

BSC

Source Field

111017

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_4

The sum of an downlink RX quality class valueswhendownlink transmitting poweris within AMR PPC power class4 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111020

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_4_DENOM

Number of downlink RX quality class value samples when downlink transmitting power is within AMR PPC power class 4 (AMR PPC power classes from 0 to 15). Denominator for counter "DL RX QUALITY FOR POWER CLASS 4"

Data Source

BSC

Source Field

111021

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_5

The sum of an downlink RX quality class values when downlink transmitting power is within AMR PPC power class 5 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111024

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_5_DENOM

Number of downlink RX quality class value samples when downlink transmitting power is within AMR PPC power class 5 (AMR PPC power classes from 0 to 15). Denominator for counter "DL RX QUALITY FOR POWER CLASS 5"

Data Source

BSC

Source Field

111025

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_6

The sum of an downlink RX quality class valueswhendownlink transmitting poweris within AMR PPC power class6 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111028

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_6_DENOM

Number of downlink RX quality class value sampleswhen downlink transmitting poweris within AMR PPC power class 6 (AMR PPC power classes from 0 to 15). Denominator for counter"DL RX QUALITY FOR POWER CLASS 6"

Data Source

BSC

Source Field

111029

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_7

The sum of an downlink RX quality class valueswhendownlink transmitting poweris within AMR PPC power class7 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111032

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_7_DENOM

Number of downlink RX quality class value samples when downlink transmitting power is within AMR PPC power class 7 (AMR PPC power classes from 0 to 15). Denominator for counter "DL RX QUALITY FOR POWER CLASS 7"

Data Source

BSC

Source Field

111033

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_8

The sum of an downlink RX quality class values when downlink transmitting power is within AMR PPC power class 8 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111036

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_8_DENOM

Number of downlink RX quality class value samples when downlink transmitting power is within AMR PPC power class 8 (AMR PPC power classes from 0 to 15). Denominator for counter "DL RX QUALITY FOR POWER CLASS 8"

Data Source

BSC

Source Field

111037

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_9

The sum of an downlink RX quality class values when downlink transmitting power is within AMR PPC power class 9 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111040

Source Section

RBS_PS_AMRPPC_TRX_RAW

DL_RX_QUAL_POWER_CL_9_DENOM

Number of downlink RX quality class value samples when downlink transmitting power is within AMR PPC power class 9 (AMR PPC power classes from 0 to 15). Denominator for counter "DL RX QUALITY FOR POWER CLASS 9"

Data Source

BSC

Source Field

111041

Source Section

RBS_PS_AMRPPC_TRX_RAW

FR_102_DL_RXQ_0

Number of AMR FR 10.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107102

Source Section

P_NBSC_AMR_RX_QUAL

FR_102_DL_RXQ_1

Number of AMR FR 10.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107104

Source Section

P_NBSC_AMR_RX_QUAL

FR_102_DL_RXQ_2

Number of AMR FR 10.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107106

Source Section

P_NBSC_AMR_RX_QUAL

FR_102_DL_RXQ_3

Number of AMR FR 10.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107108

Source Section

P_NBSC_AMR_RX_QUAL

FR_102_DL_RXQ_4

Number of AMR FR 10.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107110

Source Section

P_NBSC_AMR_RX_QUAL

FR_102_DL_RXQ_5

Number of AMR FR 10.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107112

Source Section

P_NBSC_AMR_RX_QUAL

FR_102_DL_RXQ_6

Number of AMR FR 10.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107114

Source Section

P_NBSC_AMR_RX_QUAL

FR_102_DL_RXQ_7

Number of AMR FR 10.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107116

Source Section

P_NBSC_AMR_RX_QUAL

FR_102_UL_RXQ_0

Number of AMR FR 10.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on uplink direction.

Data Source

BSS

Source Field

107101

Source Section

P_NBSC_AMR_RX_QUAL

FR_102_UL_RXQ_1

Number of AMR FR 10.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on uplink direction.

Data Source

BSS

Source Field

107103

Source Section

P_NBSC_AMR_RX_QUAL

FR_102_UL_RXQ_2

Number of AMR FR 10.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on uplink direction.

Data Source

BSS

Source Field

107105

Source Section

P_NBSC_AMR_RX_QUAL

FR_102_UL_RXQ_3

Number of AMR FR 10.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on uplink direction.

Data Source

BSS

Source Field

107107

Source Section

P_NBSC_AMR_RX_QUAL

FR_102_UL_RXQ_4

Number of AMR FR 10.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on uplink direction.

Data Source

BSS

Source Field

107109

Source Section

P_NBSC_AMR_RX_QUAL

FR_102_UL_RXQ_5

Number of AMR FR 10.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on uplink direction.

Data Source

BSS

Source Field

107111

Source Section

P_NBSC_AMR_RX_QUAL

FR_102_UL_RXQ_6

Number of AMR FR 10.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on uplink direction.

Data Source

BSS

Source Field

107113

Source Section

P_NBSC_AMR_RX_QUAL

FR_102_UL_RXQ_7

Number of AMR FR 10.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on uplink direction.

Data Source

BSS

Source Field

107115

Source Section

P_NBSC_AMR_RX_QUAL

FR_122_DL_RXQ_0

Number of AMR FR 12.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107118

Source Section

P_NBSC_AMR_RX_QUAL

FR_122_DL_RXQ_1

Number of AMR FR 12.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107120

Source Section

P_NBSC_AMR_RX_QUAL

FR_122_DL_RXQ_2

Number of AMR FR 12.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107122

Source Section

P_NBSC_AMR_RX_QUAL

FR_122_DL_RXQ_3

Number of AMR FR 12.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107124

Source Section

P_NBSC_AMR_RX_QUAL

FR_122_DL_RXQ_4

Number of AMR FR 12.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107126

Source Section

P_NBSC_AMR_RX_QUAL

FR_122_DL_RXQ_5

Number of AMR FR 12.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107128

Source Section

P_NBSC_AMR_RX_QUAL

FR_122_DL_RXQ_6

Number of AMR FR 12.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107130

Source Section

P_NBSC_AMR_RX_QUAL

FR_122_DL_RXQ_7

Number of AMR FR 12.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107132

Source Section

P_NBSC_AMR_RX_QUAL

FR_122_UL_RXQ_0

Number of AMR FR 12.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on uplink direction.

Data Source

BSS

Source Field

107117

Source Section

P_NBSC_AMR_RX_QUAL

FR_122_UL_RXQ_1

Number of AMR FR 12.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on uplink direction.

Data Source

BSS

Source Field

107119

Source Section

P_NBSC_AMR_RX_QUAL

FR_122_UL_RXQ_2

Number of AMR FR 12.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on uplink direction.

Data Source

BSS

Source Field

107121

Source Section

P_NBSC_AMR_RX_QUAL

FR_122_UL_RXQ_3

Number of AMR FR 12.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on uplink direction.

Data Source

BSS

Source Field

107123

Source Section

P_NBSC_AMR_RX_QUAL

FR_122_UL_RXQ_4

Number of AMR FR 12.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on uplink direction.

Data Source

BSS

Source Field

107125

Source Section

P_NBSC_AMR_RX_QUAL

FR_122_UL_RXQ_5

Number of AMR FR 12.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on uplink direction.

Data Source

BSS

Source Field

107127

Source Section

P_NBSC_AMR_RX_QUAL

FR_122_UL_RXQ_6

Number of AMR FR 12.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on uplink direction.

Data Source

BSS

Source Field

107129

Source Section

P_NBSC_AMR_RX_QUAL

FR_122_UL_RXQ_7

Number of AMR FR 12.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on uplink direction.

Data Source

BSS

Source Field

107131

Source Section

P_NBSC_AMR_RX_QUAL

FR_475_DL_RXQ_0

Number of AMR FR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107006

Source Section

P_NBSC_AMR_RX_QUAL

FR_475_DL_RXQ_1

Number of AMR FR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107008

Source Section

P_NBSC_AMR_RX_QUAL

FR_475_DL_RXQ_2

Number of AMR FR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107010

Source Section

P_NBSC_AMR_RX_QUAL

FR_475_DL_RXQ_3

Number of AMR FR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107012

Source Section

P_NBSC_AMR_RX_QUAL

FR_475_DL_RXQ_4

Number of AMR FR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107014

Source Section

P_NBSC_AMR_RX_QUAL

FR_475_DL_RXQ_5

Number of AMR FR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107016

Source Section

P_NBSC_AMR_RX_QUAL

FR_475_DL_RXQ_6

Number of AMR FR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107018

Source Section

P_NBSC_AMR_RX_QUAL

FR_475_DL_RXQ_7

Number of AMR FR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107020

Source Section

P_NBSC_AMR_RX_QUAL

FR_475_UL_RXQ_0

Number of AMR FR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on uplink direction.

Data Source

BSS

Source Field

107005

Source Section

P_NBSC_AMR_RX_QUAL

FR_475_UL_RXQ_1

Number of AMR FR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on uplink direction.

Data Source

BSS

Source Field

107007

Source Section

P_NBSC_AMR_RX_QUAL

FR_475_UL_RXQ_2

Number of AMR FR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on uplink direction.

Data Source

BSS

Source Field

107009

Source Section

P_NBSC_AMR_RX_QUAL

FR_475_UL_RXQ_3

Number of AMR FR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on uplink direction.

Data Source

BSS

Source Field

107011

Source Section

P_NBSC_AMR_RX_QUAL

FR_475_UL_RXQ_4

Number of AMR FR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on uplink direction.

Data Source

BSS

Source Field

107013

Source Section

P_NBSC_AMR_RX_QUAL

FR_475_UL_RXQ_5

Number of AMR FR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on uplink direction.

Data Source

BSS

Source Field

107015

Source Section

P_NBSC_AMR_RX_QUAL

FR_475_UL_RXQ_6

Number of AMR FR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on uplink direction.

Data Source

BSS

Source Field

107017

Source Section

P_NBSC_AMR_RX_QUAL

FR_475_UL_RXQ_7

Number of AMR FR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on uplink direction.

Data Source

BSS

Source Field

107019

Source Section

P_NBSC_AMR_RX_QUAL

FR_515_DL_RXQ_0

Number of AMR FR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107022

Source Section

P_NBSC_AMR_RX_QUAL

FR_515_DL_RXQ_1

Number of AMR FR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107024

Source Section

P_NBSC_AMR_RX_QUAL

FR_515_DL_RXQ_2

Number of AMR FR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107026

Source Section

P_NBSC_AMR_RX_QUAL

FR_515_DL_RXQ_3

Number of AMR FR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107028

Source Section

P_NBSC_AMR_RX_QUAL

FR_515_DL_RXQ_4

Number of AMR FR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107030

Source Section

P_NBSC_AMR_RX_QUAL

FR_515_DL_RXQ_5

Number of AMR FR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107032

Source Section

P_NBSC_AMR_RX_QUAL

FR_515_DL_RXQ_6

Number of AMR FR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107034

Source Section

P_NBSC_AMR_RX_QUAL

FR_515_DL_RXQ_7

Number of AMR FR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107036

Source Section

P_NBSC_AMR_RX_QUAL

FR_515_UL_RXQ_0

Number of AMR FR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on uplink direction.

Data Source

BSS

Source Field

107021

Source Section

P_NBSC_AMR_RX_QUAL

FR_515_UL_RXQ_1

Number of AMR FR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on uplink direction.

Data Source

BSS

Source Field

107023

Source Section

P_NBSC_AMR_RX_QUAL

FR_515_UL_RXQ_2

Number of AMR FR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on uplink direction.

Data Source

BSS

Source Field

107025

Source Section

P_NBSC_AMR_RX_QUAL

FR_515_UL_RXQ_3

Number of AMR FR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on uplink direction.

Data Source

BSS

Source Field

107027

Source Section

P_NBSC_AMR_RX_QUAL

FR_515_UL_RXQ_4

Number of AMR FR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on uplink direction.

Data Source

BSS

Source Field

107029

Source Section

P_NBSC_AMR_RX_QUAL

FR_515_UL_RXQ_5

Number of AMR FR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on uplink direction.

Data Source

BSS

Source Field

107031

Source Section

P_NBSC_AMR_RX_QUAL

FR_515_UL_RXQ_6

Number of AMR FR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on uplink direction.

Data Source

BSS

Source Field

107033

Source Section

P_NBSC_AMR_RX_QUAL

FR_515_UL_RXQ_7

Number of AMR FR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on uplink direction.

Data Source

BSS

Source Field

107035

Source Section

P_NBSC_AMR_RX_QUAL

FR_590_DL_RXQ_0

Number of AMR FR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107038

Source Section

P_NBSC_AMR_RX_QUAL

FR_590_DL_RXQ_1

Number of AMR FR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107040

Source Section

P_NBSC_AMR_RX_QUAL

FR_590_DL_RXQ_2

Number of AMR FR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107042

Source Section

P_NBSC_AMR_RX_QUAL

FR_590_DL_RXQ_3

Number of AMR FR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107044

Source Section

P_NBSC_AMR_RX_QUAL

FR_590_DL_RXQ_4

Number of AMR FR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107046

Source Section

P_NBSC_AMR_RX_QUAL

FR_590_DL_RXQ_5

Number of AMR FR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107048

Source Section

P_NBSC_AMR_RX_QUAL

FR_590_DL_RXQ_6

Number of AMR FR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107050

Source Section

P_NBSC_AMR_RX_QUAL

FR_590_DL_RXQ_7

Number of AMR FR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107052

Source Section

P_NBSC_AMR_RX_QUAL

FR_590_UL_RXQ_0

Number of AMR FR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on uplink direction.

Data Source

BSS

Source Field

107037

Source Section

P_NBSC_AMR_RX_QUAL

FR_590_UL_RXQ_1

Number of AMR FR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on uplink direction.

Data Source

BSS

Source Field

107039

Source Section

P_NBSC_AMR_RX_QUAL

FR_590_UL_RXQ_2

Number of AMR FR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on uplink direction.

Data Source

BSS

Source Field

107041

Source Section

P_NBSC_AMR_RX_QUAL

FR_590_UL_RXQ_3

Number of AMR FR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on uplink direction.

Data Source

BSS

Source Field

107043

Source Section

P_NBSC_AMR_RX_QUAL

FR_590_UL_RXQ_4

Number of AMR FR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on uplink direction.

Data Source

BSS

Source Field

107045

Source Section

P_NBSC_AMR_RX_QUAL

FR_590_UL_RXQ_5

Number of AMR FR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on uplink direction.

Data Source

BSS

Source Field

107047

Source Section

P_NBSC_AMR_RX_QUAL

FR_590_UL_RXQ_6

Number of AMR FR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on uplink direction.

Data Source

BSS

Source Field

107049

Source Section

P_NBSC_AMR_RX_QUAL

FR_590_UL_RXQ_7

Number of AMR FR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on uplink direction.

Data Source

BSS

Source Field

107051

Source Section

P_NBSC_AMR_RX_QUAL

FR_670_DL_RXQ_0

Number of AMR FR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107054

Source Section

P_NBSC_AMR_RX_QUAL

FR_670_DL_RXQ_1

Number of AMR FR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107056

Source Section

P_NBSC_AMR_RX_QUAL

FR_670_DL_RXQ_2

Number of AMR FR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107058

Source Section

P_NBSC_AMR_RX_QUAL

FR_670_DL_RXQ_3

Number of AMR FR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107060

Source Section

P_NBSC_AMR_RX_QUAL

FR_670_DL_RXQ_4

Number of AMR FR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107062

Source Section

P_NBSC_AMR_RX_QUAL

FR_670_DL_RXQ_5

Number of AMR FR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107064

Source Section

P_NBSC_AMR_RX_QUAL

FR_670_DL_RXQ_6

Number of AMR FR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107066

Source Section

P_NBSC_AMR_RX_QUAL

FR_670_DL_RXQ_7

Number of AMR FR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107068

Source Section

P_NBSC_AMR_RX_QUAL

FR_670_UL_RXQ_0

Number of AMR FR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on uplink direction.

Data Source

BSS

Source Field

107053

Source Section

P_NBSC_AMR_RX_QUAL

FR_670_UL_RXQ_1

Number of AMR FR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on uplink direction.

Data Source

BSS

Source Field

107055

Source Section

P_NBSC_AMR_RX_QUAL

FR_670_UL_RXQ_2

Number of AMR FR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on uplink direction.

Data Source

BSS

Source Field

107057

Source Section

P_NBSC_AMR_RX_QUAL

FR_670_UL_RXQ_3

Number of AMR FR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on uplink direction.

Data Source

BSS

Source Field

107059

Source Section

P_NBSC_AMR_RX_QUAL

FR_670_UL_RXQ_4

Number of AMR FR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on uplink direction.

Data Source

BSS

Source Field

107061

Source Section

P_NBSC_AMR_RX_QUAL

FR_670_UL_RXQ_5

Number of AMR FR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on uplink direction.

Data Source

BSS

Source Field

107063

Source Section

P_NBSC_AMR_RX_QUAL

FR_670_UL_RXQ_6

Number of AMR FR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on uplink direction.

Data Source

BSS

Source Field

107065

Source Section

P_NBSC_AMR_RX_QUAL

FR_670_UL_RXQ_7

Number of AMR FR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on uplink direction.

Data Source

BSS

Source Field

107067

Source Section

P_NBSC_AMR_RX_QUAL

FR_740_DL_RXQ_0

Number of AMR FR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107070

Source Section

P_NBSC_AMR_RX_QUAL

FR_740_DL_RXQ_1

Number of AMR FR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107072

Source Section

P_NBSC_AMR_RX_QUAL

FR_740_DL_RXQ_2

Number of AMR FR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107074

Source Section

P_NBSC_AMR_RX_QUAL

FR_740_DL_RXQ_3

Number of AMR FR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107076

Source Section

P_NBSC_AMR_RX_QUAL

FR_740_DL_RXQ_4

Number of AMR FR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107078

Source Section

P_NBSC_AMR_RX_QUAL

FR_740_DL_RXQ_5

Number of AMR FR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107080

Source Section

P_NBSC_AMR_RX_QUAL

FR_740_DL_RXQ_6

Number of AMR FR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107082

Source Section

P_NBSC_AMR_RX_QUAL

FR_740_DL_RXQ_7

Number of AMR FR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107084

Source Section

P_NBSC_AMR_RX_QUAL

FR_740_UL_RXQ_0

Number of AMR FR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on uplink direction.

Data Source

BSS

Source Field

107069

Source Section

P_NBSC_AMR_RX_QUAL

FR_740_UL_RXQ_1

Number of AMR FR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on uplink direction.

Data Source

BSS

Source Field

107071

Source Section

P_NBSC_AMR_RX_QUAL

FR_740_UL_RXQ_2

Number of AMR FR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on uplink direction.

Data Source

BSS

Source Field

107073

Source Section

P_NBSC_AMR_RX_QUAL

FR_740_UL_RXQ_3

Number of AMR FR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on uplink direction.

Data Source

BSS

Source Field

107075

Source Section

P_NBSC_AMR_RX_QUAL

FR_740_UL_RXQ_4

Number of AMR FR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on uplink direction.

Data Source

BSS

Source Field

107077

Source Section

P_NBSC_AMR_RX_QUAL

FR_740_UL_RXQ_5

Number of AMR FR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on uplink direction.

Data Source

BSS

Source Field

107079

Source Section

P_NBSC_AMR_RX_QUAL

FR_740_UL_RXQ_6

Number of AMR FR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on uplink direction.

Data Source

BSS

Source Field

107081

Source Section

P_NBSC_AMR_RX_QUAL

FR_740_UL_RXQ_7

Number of AMR FR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on uplink direction.

Data Source

BSS

Source Field

107083

Source Section

P_NBSC_AMR_RX_QUAL

FR_795_DL_RXQ_0

Number of AMR FR 7.95 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107086

Source Section

P_NBSC_AMR_RX_QUAL

FR_795_DL_RXQ_1

Number of AMR FR 7.95 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107088

Source Section

P_NBSC_AMR_RX_QUAL

FR_795_DL_RXQ_2

Number of AMR FR 7.95 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107090

Source Section

P_NBSC_AMR_RX_QUAL

FR_795_DL_RXQ_3

Number of AMR FR 7.95 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107092

Source Section

P_NBSC_AMR_RX_QUAL

FR_795_DL_RXQ_4

Number of AMR FR 7.95 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107094

Source Section

P_NBSC_AMR_RX_QUAL

FR_795_DL_RXQ_5

Number of AMR FR 7.95 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107096

Source Section

P_NBSC_AMR_RX_QUAL

FR_795_DL_RXQ_6

Number of AMR FR 7.95 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107098

Source Section

P_NBSC_AMR_RX_QUAL

FR_795_DL_RXQ_7

Number of AMR FR 7.95 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107100

Source Section

P_NBSC_AMR_RX_QUAL

FR_795_UL_RXQ_0

Number of AMR FR 7.95 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on uplink direction.

Data Source

BSS

Source Field

107085

Source Section

P_NBSC_AMR_RX_QUAL

FR_795_UL_RXQ_1

Number of AMR FR 7.95 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on uplink direction.

Data Source

BSS

Source Field

107087

Source Section

P_NBSC_AMR_RX_QUAL

FR_795_UL_RXQ_2

Number of AMR FR 7.95 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on uplink direction.

Data Source

BSS

Source Field

107089

Source Section

P_NBSC_AMR_RX_QUAL

FR_795_UL_RXQ_3

Number of AMR FR 7.95 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on uplink direction.

Data Source

BSS

Source Field

107091

Source Section

P_NBSC_AMR_RX_QUAL

FR_795_UL_RXQ_4

Number of AMR FR 7.95 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on uplink direction.

Data Source

BSS

Source Field

107093

Source Section

P_NBSC_AMR_RX_QUAL

FR_795_UL_RXQ_5

Number of AMR FR 7.95 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on uplink direction.

Data Source

BSS

Source Field

107095

Source Section

P_NBSC_AMR_RX_QUAL

FR_795_UL_RXQ_6

Number of AMR FR 7.95 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on uplink direction.

Data Source

BSS

Source Field

107097

Source Section

P_NBSC_AMR_RX_QUAL

FR_795_UL_RXQ_7

Number of AMR FR 7.95 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on uplink direction.

Data Source

BSS

Source Field

107099

Source Section

P_NBSC_AMR_RX_QUAL

FREQ_DL_QUAL0

Frequency of samples (calls) where downlink Rx Quality was 0.

Data Source

BSS

Source Field

14010

Source Section

P_NBSC_RX_QUAL

FREQ_DL_QUAL1

Frequency of samples (calls) where downlink Rx Quality was 1.

Data Source

BSS

Source Field

14011

Source Section

P_NBSC_RX_QUAL

FREQ_DL_QUAL2

Frequency of samples (calls) where downlink Rx Quality was 2.

Data Source

BSS

Source Field

14012

Source Section

P_NBSC_RX_QUAL

FREQ_DL_QUAL3

Frequency of samples (calls) where downlink Rx Quality was 3.

Data Source

BSS

Source Field

14013

Source Section

P_NBSC_RX_QUAL

FREQ_DL_QUAL4

Frequency of samples (calls) where downlink Rx Quality was 4.

Data Source

BSS

Source Field

14014

Source Section

P_NBSC_RX_QUAL

FREQ_DL_QUAL5

Frequency of samples (calls) where downlink Rx Quality was 5.

Data Source

BSS

Source Field

14015

Source Section

P_NBSC_RX_QUAL

FREQ_DL_QUAL6

Frequency of samples (calls) where downlink Rx Quality was 6.

Data Source

BSS

Source Field

14016

Source Section

P_NBSC_RX_QUAL

FREQ_DL_QUAL7

Frequency of samples (calls) where downlink Rx Quality was 7.

Data Source

BSS

Source Field

14017

Source Section

P_NBSC_RX_QUAL

FREQ_GROUP_ID_RX_QUAL

Id of frequency group(Regular or one of the sixteen super- reuse frequency groups)

Data Source

BSS

Source Field

14018

Source Section

P_NBSC_RX_QUAL

FREQ_UL_QUAL0

Frequency of samples (calls) where uplink Rx Quality was 0

Data Source

BSS

Source Field

14002

Source Section

P_NBSC_RX_QUAL

FREQ_UL_QUAL1

Frequency of samples (calls) where uplink Rx Quality was 1.

Data Source

BSS

Source Field

14003

Source Section

P_NBSC_RX_QUAL

FREQ_UL_QUAL2

Frequency of samples (calls) where uplink Rx Quality was 2.

Data Source

BSS

Source Field

14004

Source Section

P_NBSC_RX_QUAL

FREQ_UL_QUAL3

Frequency of samples (calls) where uplink Rx Quality was 3.

Data Source

BSS

Source Field

14005

Source Section

P_NBSC_RX_QUAL

FREQ_UL_QUAL4

Frequency of samples (calls) where uplink Rx Quality was 4.

Data Source

BSS

Source Field

14006

Source Section

P_NBSC_RX_QUAL

FREQ_UL_QUAL5

Frequency of samples (calls) where uplink Rx Quality was 5.

Data Source

BSS

Source Field

14007

Source Section

P_NBSC_RX_QUAL

FREQ_UL_QUAL6

Frequency of samples (calls) where uplink Rx Quality was 6.

Data Source

BSS

Source Field

14008

Source Section

P_NBSC_RX_QUAL

FREQ_UL_QUAL7

Frequency of samples (calls) where uplink Rx Quality was 7.

Data Source

BSS

Source Field

14009

Source Section

P_NBSC_RX_QUAL

FREQUENCY_GROUP_ID

Identification of the frequency group into which the TRX belongs.

Data Source

BSS

Source Field

5023

Source Section

P_NBSC_POWER

HO_ATT_BETW_SUPER_FR

Number of HO attempts between super-reuse frequency groups.

Data Source

BSS

Source Field

52081

Source Section

P_NBSC_UNDERLAY

HO_ATT_FROM_REG_FREQ

Nof ho att from regular freq. Type of ho is either intra-cell or inter-cell)

Data Source

BSS

Source Field

52048

Source Section

P_NBSC_UNDERLAY

HO_ATT_SUPER

Number of handover attempts within a super-reuse frequency group.

Data Source

BSS

Source Field

52054

Source Section

P_NBSC_UNDERLAY

HO_ATT_TO_REG_FREQ

Number of handover attempts to regular frequencies

Data Source

BSS

Source Field

52042

Source Section

P_NBSC_UNDERLAY

HO_FAIL_BETW_SUPER_FR_LACK_R

Nof failed HO att between super-reuse freq groups due to lack of radio resources

Data Source

BSS

Source Field

52083

Source Section

P_NBSC_UNDERLAY

HO_FAIL_BETW_SUPER_FR_RET_OLD

Nof failed HO att between super-reuse freq groups due to the return to the old ch

Data Source

BSS

Source Field

52085

Source Section

P_NBSC_UNDERLAY

HO_FAIL_FROM_REG_DUE_RET

Nof failed ho attempts from regular frequencies due to the return to old ch.

Data Source

BSS

Source Field

52052

Source Section

P_NBSC_UNDERLAY

HO_FAIL_FROM_REG_FREQ

Number of TCH transactions failures during attempts from regular frequencies

Data Source

BSS

Source Field

52051

Source Section

P_NBSC_UNDERLAY

HO_FAIL_FROM_REG_MS_LOST

MS is lost during handover attempt from regular frequencies.

Data Source

BSS

Source Field

52053

Source Section

P_NBSC_UNDERLAY

HO_FAIL_SUPER

Nof TCH transaction failures during ho att within a super-reuse frequency group.

Data Source

BSS

Source Field

52057

Source Section

P_NBSC_UNDERLAY

HO_FAIL_SUPER_MS_LOST

MS is lost during handover attempt within a super-reuse frequency group.

Data Source

BSS

Source Field

52059

Source Section

P_NBSC_UNDERLAY

HO_FAIL_SUPER_RET

Nof failed ho att within super-reuse frequency group due to return to old ch.

Data Source

BSS

Source Field

52058

Source Section

P_NBSC_UNDERLAY

HO_FAIL_TO_REG_DUE_RET

Nof failed ho attempts to regular frequencies due to the return to old ch.

Data Source

BSS

Source Field

52046

Source Section

P_NBSC_UNDERLAY

HO_FAIL_TO_REG_FREQ

Number of TCH transactions failures during attempts to regular frequencies.

Data Source

BSS

Source Field

52045

Source Section

P_NBSC_UNDERLAY

HO_FAIL_TO_REG_MS_LOST

MS is lost during handover attempt to regular frequencies.

Data Source

BSS

Source Field

52047

Source Section

P_NBSC_UNDERLAY

HO_REJ_FROM_REG_FREQ

Nof failed ho attempts from regular frequencies due to lack of radio resources.

Data Source

BSS

Source Field

52050

Source Section

P_NBSC_UNDERLAY

HO_REJ_SUPER

Nof failed ho att within a super-reuse freq group due to lack of radio resources

Data Source

BSS

Source Field

52056

Source Section

P_NBSC_UNDERLAY

HO_REJ_TO_REG_FREQ

Nof failed ho attempts to regular frequencies due to lack of radio resources.

Data Source

BSS

Source Field

52044

Source Section

P_NBSC_UNDERLAY

HO_SUCC_BETW_SUPER_FR

Number of successful HOs between super-reuse frequency groups.

Data Source

BSS

Source Field

52082

Source Section

P_NBSC_UNDERLAY

HO_SUCC_FROM_REG_FREQ

Number of successful handovers at from regular frequencies.

Data Source

BSS

Source Field

52049

Source Section

P_NBSC_UNDERLAY

HO_SUCC_SUPER

Number of successful handovers within a super-reuse frequency group.

Data Source

BSS

Source Field

52055

Source Section

P_NBSC_UNDERLAY

HO_SUCC_TO_REG_FREQ

Number of successful handovers to regular frequencies.

Data Source

BSS

Source Field

52043

Source Section

P_NBSC_UNDERLAY

HR_475_DL_RXQ_0

Number of AMR HR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107134

Source Section

P_NBSC_AMR_RX_QUAL

HR_475_DL_RXQ_1

Number of AMR HR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107136

Source Section

P_NBSC_AMR_RX_QUAL

HR_475_DL_RXQ_2

Number of AMR HR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107138

Source Section

P_NBSC_AMR_RX_QUAL

HR_475_DL_RXQ_3

Number of AMR HR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107140

Source Section

P_NBSC_AMR_RX_QUAL

HR_475_DL_RXQ_4

Number of AMR HR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107142

Source Section

P_NBSC_AMR_RX_QUAL

HR_475_DL_RXQ_5

Number of AMR HR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107144

Source Section

P_NBSC_AMR_RX_QUAL

HR_475_DL_RXQ_6

Number of AMR HR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107146

Source Section

P_NBSC_AMR_RX_QUAL

HR_475_DL_RXQ_7

Number of AMR HR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107148

Source Section

P_NBSC_AMR_RX_QUAL

HR_475_UL_RXQ_0

Number of AMR HR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on uplink direction.

Data Source

BSS

Source Field

107133

Source Section

P_NBSC_AMR_RX_QUAL

HR_475_UL_RXQ_1

Number of AMR HR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on uplink direction.

Data Source

BSS

Source Field

107135

Source Section

P_NBSC_AMR_RX_QUAL

HR_475_UL_RXQ_2

Number of AMR HR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on uplink direction.

Data Source

BSS

Source Field

107137

Source Section

P_NBSC_AMR_RX_QUAL

HR_475_UL_RXQ_3

Number of AMR HR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on uplink direction.

Data Source

BSS

Source Field

107139

Source Section

P_NBSC_AMR_RX_QUAL

HR_475_UL_RXQ_4

Number of AMR HR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on uplink direction.

Data Source

BSS

Source Field

107141

Source Section

P_NBSC_AMR_RX_QUAL

HR_475_UL_RXQ_5

Number of AMR HR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on uplink direction.

Data Source

BSS

Source Field

107143

Source Section

P_NBSC_AMR_RX_QUAL

HR_475_UL_RXQ_6

Number of AMR HR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on uplink direction.

Data Source

BSS

Source Field

107145

Source Section

P_NBSC_AMR_RX_QUAL

HR_475_UL_RXQ_7

Number of AMR HR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on uplink direction.

Data Source

BSS

Source Field

107147

Source Section

P_NBSC_AMR_RX_QUAL

HR_515_DL_RXQ_0

Number of AMR HR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107150

Source Section

P_NBSC_AMR_RX_QUAL

HR_515_DL_RXQ_1

Number of AMR HR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107152

Source Section

P_NBSC_AMR_RX_QUAL

HR_515_DL_RXQ_2

Number of AMR HR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107154

Source Section

P_NBSC_AMR_RX_QUAL

HR_515_DL_RXQ_3

Number of AMR HR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107156

Source Section

P_NBSC_AMR_RX_QUAL

HR_515_DL_RXQ_4

Number of AMR HR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107158

Source Section

P_NBSC_AMR_RX_QUAL

HR_515_DL_RXQ_5

Number of AMR HR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107160

Source Section

P_NBSC_AMR_RX_QUAL

HR_515_DL_RXQ_6

Number of AMR HR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107162

Source Section

P_NBSC_AMR_RX_QUAL

HR_515_DL_RXQ_7

Number of AMR HR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107164

Source Section

P_NBSC_AMR_RX_QUAL

HR_515_UL_RXQ_0

Number of AMR HR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on uplink direction.

Data Source

BSS

Source Field

107149

Source Section

P_NBSC_AMR_RX_QUAL

HR_515_UL_RXQ_1

Number of AMR HR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on uplink direction.

Data Source

BSS

Source Field

107151

Source Section

P_NBSC_AMR_RX_QUAL

HR_515_UL_RXQ_2

Number of AMR HR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on uplink direction.

Data Source

BSS

Source Field

107153

Source Section

P_NBSC_AMR_RX_QUAL

HR_515_UL_RXQ_3

Number of AMR HR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on uplink direction.

Data Source

BSS

Source Field

107155

Source Section

P_NBSC_AMR_RX_QUAL

HR_515_UL_RXQ_4

Number of AMR HR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on uplink direction.

Data Source

BSS

Source Field

107157

Source Section

P_NBSC_AMR_RX_QUAL

HR_515_UL_RXQ_5

Number of AMR HR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on uplink direction.

Data Source

BSS

Source Field

107159

Source Section

P_NBSC_AMR_RX_QUAL

HR_515_UL_RXQ_6

Number of AMR HR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on uplink direction.

Data Source

BSS

Source Field

107161

Source Section

P_NBSC_AMR_RX_QUAL

HR_515_UL_RXQ_7

Number of AMR HR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on uplink direction.

Data Source

BSS

Source Field

107163

Source Section

P_NBSC_AMR_RX_QUAL

HR_590_DL_RXQ_0

Number of AMR HR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107166

Source Section

P_NBSC_AMR_RX_QUAL

HR_590_DL_RXQ_1

Number of AMR HR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107168

Source Section

P_NBSC_AMR_RX_QUAL

HR_590_DL_RXQ_2

Number of AMR HR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107170

Source Section

P_NBSC_AMR_RX_QUAL

HR_590_DL_RXQ_3

Number of AMR HR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107172

Source Section

P_NBSC_AMR_RX_QUAL

HR_590_DL_RXQ_4

Number of AMR HR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107174

Source Section

P_NBSC_AMR_RX_QUAL

HR_590_DL_RXQ_5

Number of AMR HR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107176

Source Section

P_NBSC_AMR_RX_QUAL

HR_590_DL_RXQ_6

Number of AMR HR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107178

Source Section

P_NBSC_AMR_RX_QUAL

HR_590_DL_RXQ_7

Number of AMR HR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107180

Source Section

P_NBSC_AMR_RX_QUAL

HR_590_UL_RXQ_0

Number of AMR HR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on uplink direction.

Data Source

BSS

Source Field

107165

Source Section

P_NBSC_AMR_RX_QUAL

HR_590_UL_RXQ_1

Number of AMR HR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on uplink direction.

Data Source

BSS

Source Field

107167

Source Section

P_NBSC_AMR_RX_QUAL

HR_590_UL_RXQ_2

Number of AMR HR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on uplink direction.

Data Source

BSS

Source Field

107169

Source Section

P_NBSC_AMR_RX_QUAL

HR_590_UL_RXQ_3

Number of AMR HR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on uplink direction.

Data Source

BSS

Source Field

107171

Source Section

P_NBSC_AMR_RX_QUAL

HR_590_UL_RXQ_4

Number of AMR HR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on uplink direction.

Data Source

BSS

Source Field

107173

Source Section

P_NBSC_AMR_RX_QUAL

HR_590_UL_RXQ_5

Number of AMR HR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on uplink direction.

Data Source

BSS

Source Field

107175

Source Section

P_NBSC_AMR_RX_QUAL

HR_590_UL_RXQ_6

Number of AMR HR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on uplink direction.

Data Source

BSS

Source Field

107177

Source Section

P_NBSC_AMR_RX_QUAL

HR_590_UL_RXQ_7

Number of AMR HR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on uplink direction.

Data Source

BSS

Source Field

107179

Source Section

P_NBSC_AMR_RX_QUAL

HR_670_DL_RXQ_0

Number of AMR HR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107182

Source Section

P_NBSC_AMR_RX_QUAL

HR_670_DL_RXQ_1

Number of AMR HR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107184

Source Section

P_NBSC_AMR_RX_QUAL

HR_670_DL_RXQ_2

Number of AMR HR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107186

Source Section

P_NBSC_AMR_RX_QUAL

HR_670_DL_RXQ_3

Number of AMR HR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107188

Source Section

P_NBSC_AMR_RX_QUAL

HR_670_DL_RXQ_4

Number of AMR HR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107190

Source Section

P_NBSC_AMR_RX_QUAL

HR_670_DL_RXQ_5

Number of AMR HR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107192

Source Section

P_NBSC_AMR_RX_QUAL

HR_670_DL_RXQ_6

Number of AMR HR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107194

Source Section

P_NBSC_AMR_RX_QUAL

HR_670_DL_RXQ_7

Number of AMR HR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107196

Source Section

P_NBSC_AMR_RX_QUAL

HR_670_UL_RXQ_0

Number of AMR HR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on uplink direction.

Data Source

BSS

Source Field

107181

Source Section

P_NBSC_AMR_RX_QUAL

HR_670_UL_RXQ_1

Number of AMR HR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on uplink direction.

Data Source

BSS

Source Field

107183

Source Section

P_NBSC_AMR_RX_QUAL

HR_670_UL_RXQ_2

Number of AMR HR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on uplink direction.

Data Source

BSS

Source Field

107185

Source Section

P_NBSC_AMR_RX_QUAL

HR_670_UL_RXQ_3

Number of AMR HR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on uplink direction.

Data Source

BSS

Source Field

107187

Source Section

P_NBSC_AMR_RX_QUAL

HR_670_UL_RXQ_4

Number of AMR HR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on uplink direction.

Data Source

BSS

Source Field

107189

Source Section

P_NBSC_AMR_RX_QUAL

HR_670_UL_RXQ_5

Number of AMR HR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on uplink direction.

Data Source

BSS

Source Field

107191

Source Section

P_NBSC_AMR_RX_QUAL

HR_670_UL_RXQ_6

Number of AMR HR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on uplink direction.

Data Source

BSS

Source Field

107193

Source Section

P_NBSC_AMR_RX_QUAL

HR_670_UL_RXQ_7

Number of AMR HR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on uplink direction.

Data Source

BSS

Source Field

107195

Source Section

P_NBSC_AMR_RX_QUAL

HR_740_DL_RXQ_0

Number of AMR HR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107198

Source Section

P_NBSC_AMR_RX_QUAL

HR_740_DL_RXQ_1

Number of AMR HR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107200

Source Section

P_NBSC_AMR_RX_QUAL

HR_740_DL_RXQ_2

Number of AMR HR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107202

Source Section

P_NBSC_AMR_RX_QUAL

HR_740_DL_RXQ_3

Number of AMR HR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107204

Source Section

P_NBSC_AMR_RX_QUAL

HR_740_DL_RXQ_4

Number of AMR HR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107206

Source Section

P_NBSC_AMR_RX_QUAL

HR_740_DL_RXQ_5

Number of AMR HR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107208

Source Section

P_NBSC_AMR_RX_QUAL

HR_740_DL_RXQ_6

Number of AMR HR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107210

Source Section

P_NBSC_AMR_RX_QUAL

HR_740_DL_RXQ_7

Number of AMR HR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107212

Source Section

P_NBSC_AMR_RX_QUAL

HR_740_UL_RXQ_0

Number of AMR HR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on uplink direction.

Data Source

BSS

Source Field

107197

Source Section

P_NBSC_AMR_RX_QUAL

HR_740_UL_RXQ_1

Number of AMR HR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on uplink direction.

Data Source

BSS

Source Field

107199

Source Section

P_NBSC_AMR_RX_QUAL

HR_740_UL_RXQ_2

Number of AMR HR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on uplink direction.

Data Source

BSS

Source Field

107201

Source Section

P_NBSC_AMR_RX_QUAL

HR_740_UL_RXQ_3

Number of AMR HR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on uplink direction.

Data Source

BSS

Source Field

107203

Source Section

P_NBSC_AMR_RX_QUAL

HR_740_UL_RXQ_4

Number of AMR HR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on uplink direction.

Data Source

BSS

Source Field

107205

Source Section

P_NBSC_AMR_RX_QUAL

HR_740_UL_RXQ_5

Number of AMR HR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on uplink direction.

Data Source

BSS

Source Field

107207

Source Section

P_NBSC_AMR_RX_QUAL

HR_740_UL_RXQ_6

Number of AMR HR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on uplink direction.

Data Source

BSS

Source Field

107209

Source Section

P_NBSC_AMR_RX_QUAL

HR_740_UL_RXQ_7

Number of AMR HR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on uplink direction.

Data Source

BSS

Source Field

107211

Source Section

P_NBSC_AMR_RX_QUAL

MS_LOST_HO_ATT_BETW_SUPER_FR

Number of MS losses during a HO attempt between super-reuse frequency groups.

Data Source

BSS

Source Field

52086

Source Section

P_NBSC_UNDERLAY

MS_PWR_DEC_CMD

MS power control messages where the new commanded RF power level is lower than the RF power level

Data Source

BSS

Source Field

5001

Source Section

P_NBSC_POWER

MS_PWR_DEC_QUAL

MS power control messages where the new commanded RF power level is lower than the RF power level

Data Source

BSS

Source Field

5009

Source Section

P_NBSC_POWER

MS_PWR_INC_CMD

MS power control messages where the new commanded RF power level is higher than the RF power level

Data Source

BSS

Source Field

5000

Source Section

P_NBSC_POWER

MS_PWR_INC_QUAL

MS power control messages where the new commanded RF power level is higher than the RF power level

Data Source

BSS

Source Field

5008

Source Section

P_NBSC_POWER

MS_PWR_INC_QUAL_14400

Nof MS power control increase commands in a cell caused by the ul signal quality in 14.4 kbit/s data connection

Data Source

BSS

Source Field

5032

Source Section

P_NBSC_POWER

PEAK_MS_BS_DIST

Peak MS to BS distance in a cell

Data Source

BSS

Source Field

5022

Source Section

P_NBSC_POWER

PERIOD_REAL_START_TIME_RLC_BL

The real starting time of a period

Data Source

BSS

Source Section

P_NBSC_RLC_BLOCKS_PER_TRX

PERIOD_REAL_START_TIME_RX_QUAL

The real starting time of a period

Data Source

BSS

Source Section

P_NBSC_RX_QUAL

PERIOD_REAL_START_TIME_UL

The real starting time of a period

Data Source

BSS

Source Section

P_NBSC_UNDERLAY

PERIOD_REAL_STOP_TIME_RLC_BL

The real stopping time of a period

Data Source

BSS

Source Section

P_NBSC_RLC_BLOCKS_PER_TRX

PERIOD_REAL_STOP_TIME_UL

The real stopping time of a period

Data Source

BSS

Source Section

P_NBSC_UNDERLAY

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

POWER_DENOM1

The denominator of the average MS power used in cell. (always > 0)

Data Source

BSS

Source Field

5005

Source Section

P_NBSC_POWER

POWER_DENOM2

The denominator of the average BS power used in cell. (always > 0)

Data Source

BSS

Source Field

5007

Source Section

P_NBSC_POWER

POWER_DENOM3

The denominator of the average downlink signal strength measured in the cell

Data Source

BSS

Source Field

5013

Source Section

P_NBSC_POWER

POWER_DENOM4

The denominator of the average uplink signal strength measured in the cell(always > 0)

Data Source

BSS

Source Field

5015

Source Section

P_NBSC_POWER

POWER_DENOM5

The denominator of the average downlink signal quality measured in the cell(always > 0)

Data Source

BSS

Source Field

5017

Source Section

P_NBSC_POWER

POWER_DENOM6

The denominator of the average uplink signal quality measured in cell(always > 0)

Data Source

BSS

Source Field

5019

Source Section

P_NBSC_POWER

RETRANS_DL_RLC_MAC_BLOCKS

Number of retransmitted downlink RLC/MAC blocks.

Data Source

BSS

Source Field

73001

Source Section

P_NBSC_RLC_BLOCKS_PER_TRX

SAIC_FR_102_DL_RXQ_0

Number of SAIC AMR FR 10.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107261

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_102_DL_RXQ_1

Number of SAIC AMR FR 10.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107262

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_102_DL_RXQ_2

Number of SAIC AMR FR 10.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107263

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_102_DL_RXQ_3

Number of SAIC AMR FR 10.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107264

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_102_DL_RXQ_4

Number of SAIC AMR FR 10.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107265

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_102_DL_RXQ_5

Number of SAIC AMR FR 10.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107266

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_102_DL_RXQ_6

Number of SAIC AMR FR 10.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107267

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_102_DL_RXQ_7

Number of SAIC AMR FR 10.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107268

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_122_DL_RXQ_0

Number of SAIC AMR FR 12.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107269

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_122_DL_RXQ_1

Number of SAIC AMR FR 12.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107270

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_122_DL_RXQ_2

Number of SAIC AMR FR 12.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107271

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_122_DL_RXQ_3

Number of SAIC AMR FR 12.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107272

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_122_DL_RXQ_4

Number of SAIC AMR FR 12.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107273

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_122_DL_RXQ_5

Number of SAIC AMR FR 12.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107274

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_122_DL_RXQ_6

Number of SAIC AMR FR 12.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107275

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_122_DL_RXQ_7

Number of SAIC AMR FR 12.2 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107276

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_475_DL_RXQ_0

Number of SAIC AMR FR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107213

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_475_DL_RXQ_1

Number of SAIC AMR FR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107214

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_475_DL_RXQ_2

Number of SAIC AMR FR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107215

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_475_DL_RXQ_3

Number of SAIC AMR FR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107216

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_475_DL_RXQ_4

Number of SAIC AMR FR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107217

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_475_DL_RXQ_5

Number of SAIC AMR FR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107218

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_475_DL_RXQ_6

Number of SAIC AMR FR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107219

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_475_DL_RXQ_7

Number of SAIC AMR FR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107220

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_515_DL_RXQ_0

Number of SAIC AMR FR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107221

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_515_DL_RXQ_1

Number of SAIC AMR FR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107222

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_515_DL_RXQ_2

Number of SAIC AMR FR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107223

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_515_DL_RXQ_3

Number of SAIC AMR FR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107224

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_515_DL_RXQ_4

Number of SAIC AMR FR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107225

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_515_DL_RXQ_5

Number of SAIC AMR FR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107226

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_515_DL_RXQ_6

Number of SAIC AMR FR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107227

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_515_DL_RXQ_7

Number of SAIC AMR FR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107228

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_590_DL_RXQ_0

Number of SAIC AMR FR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107229

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_590_DL_RXQ_1

Number of SAIC AMR FR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107230

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_590_DL_RXQ_2

Number of SAIC AMR FR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107231

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_590_DL_RXQ_3

Number of SAIC AMR FR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107232

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_590_DL_RXQ_4

Number of SAIC AMR FR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107233

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_590_DL_RXQ_5

Number of SAIC AMR FR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107234

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_590_DL_RXQ_6

Number of SAIC AMR FR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107235

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_590_DL_RXQ_7

Number of SAIC AMR FR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107236

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_670_DL_RXQ_0

Number of SAIC AMR FR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107237

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_670_DL_RXQ_1

Number of SAIC AMR FR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107238

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_670_DL_RXQ_2

Number of SAIC AMR FR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107239

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_670_DL_RXQ_3

Number of SAIC AMR FR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107240

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_670_DL_RXQ_4

Number of SAIC AMR FR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107241

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_670_DL_RXQ_5

Number of SAIC AMR FR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107242

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_670_DL_RXQ_6

Number of SAIC AMR FR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107243

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_670_DL_RXQ_7

Number of SAIC AMR FR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107244

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_740_DL_RXQ_0

Number of SAIC AMR FR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107245

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_740_DL_RXQ_1

Number of SAIC AMR FR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107246

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_740_DL_RXQ_2

Number of SAIC AMR FR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107247

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_740_DL_RXQ_3

Number of SAIC AMR FR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107248

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_740_DL_RXQ_4

Number of SAIC AMR FR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107249

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_740_DL_RXQ_5

Number of SAIC AMR FR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107250

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_740_DL_RXQ_6

Number of SAIC AMR FR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107251

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_740_DL_RXQ_7

Number of SAIC AMR FR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107252

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_795_DL_RXQ_0

Number of SAIC AMR FR 7.95 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107253

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_795_DL_RXQ_1

Number of SAIC AMR FR 7.95 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107254

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_795_DL_RXQ_2

Number of SAIC AMR FR 7.95 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107255

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_795_DL_RXQ_3

Number of SAIC AMR FR 7.95 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107256

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_795_DL_RXQ_4

Number of SAIC AMR FR 7.95 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107257

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_795_DL_RXQ_5

Number of SAIC AMR FR 7.95 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107258

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_795_DL_RXQ_6

Number of SAIC AMR FR 7.95 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107259

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FR_795_DL_RXQ_7

Number of SAIC AMR FR 7.95 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107260

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_FREQ_DL_QUAL_0

Together with counter 14010 but only when SAIC is in use.

Data Source

BSS

Source Field

14150

Source Section

P_NBSC_RX_QUAL

SAIC_FREQ_DL_QUAL_1

Together with counter 14011 but only when SAIC is in use.

Data Source

BSS

Source Field

14151

Source Section

P_NBSC_RX_QUAL

SAIC_FREQ_DL_QUAL_2

Together with counter 14017 but only when SAIC is in use.

Data Source

BSS

Source Field

14152

Source Section

P_NBSC_RX_QUAL

SAIC_FREQ_DL_QUAL_3

no desc

Data Source

BSS

Source Field

14153

Source Section

P_NBSC_RX_QUAL

SAIC_FREQ_DL_QUAL_4

no desc

Data Source

BSS

Source Field

14154

Source Section

P_NBSC_RX_QUAL

SAIC_FREQ_DL_QUAL_5

no desc

Data Source

BSS

Source Field

14155

Source Section

P_NBSC_RX_QUAL

SAIC_FREQ_DL_QUAL_6

no desc

Data Source

BSS

Source Field

14156

Source Section

P_NBSC_RX_QUAL

SAIC_FREQ_DL_QUAL_7

no desc

Data Source

BSS

Source Field

14157

Source Section

P_NBSC_RX_QUAL

SAIC_HR_475_DL_RXQ_0

Number of SAIC AMR HR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107277

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_475_DL_RXQ_1

Number of SAIC AMR HR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107278

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_475_DL_RXQ_2

Number of SAIC AMR HR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107279

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_475_DL_RXQ_3

Number of SAIC AMR HR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107280

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_475_DL_RXQ_4

Number of SAIC AMR HR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107281

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_475_DL_RXQ_5

Number of SAIC AMR HR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107282

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_475_DL_RXQ_6

Number of SAIC AMR HR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107283

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_475_DL_RXQ_7

Number of SAIC AMR HR 4.75 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107284

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_515_DL_RXQ_0

Number of SAIC AMR HR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107285

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_515_DL_RXQ_1

Number of SAIC AMR HR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107286

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_515_DL_RXQ_2

Number of SAIC AMR HR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107287

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_515_DL_RXQ_3

Number of SAIC AMR HR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107288

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_515_DL_RXQ_4

Number of SAIC AMR HR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107289

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_515_DL_RXQ_5

Number of SAIC AMR HR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107290

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_515_DL_RXQ_6

Number of SAIC AMR HR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107291

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_515_DL_RXQ_7

Number of SAIC AMR HR 5.15 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107292

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_590_DL_RXQ_0

Number of SAIC AMR HR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107293

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_590_DL_RXQ_1

Number of SAIC AMR HR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107294

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_590_DL_RXQ_2

Number of SAIC AMR HR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107295

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_590_DL_RXQ_3

Number of SAIC AMR HR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107296

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_590_DL_RXQ_4

Number of SAIC AMR HR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107297

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_590_DL_RXQ_5

Number of SAIC AMR HR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107298

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_590_DL_RXQ_6

Number of SAIC AMR HR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107299

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_590_DL_RXQ_7

Number of SAIC AMR HR 5.90 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107300

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_670_DL_RXQ_0

Number of SAIC AMR HR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107301

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_670_DL_RXQ_1

Number of SAIC AMR HR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107302

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_670_DL_RXQ_2

Number of SAIC AMR HR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107303

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_670_DL_RXQ_3

Number of SAIC AMR HR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107304

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_670_DL_RXQ_4

Number of SAIC AMR HR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107305

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_670_DL_RXQ_5

Number of SAIC AMR HR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107306

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_670_DL_RXQ_6

Number of SAIC AMR HR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107307

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_670_DL_RXQ_7

Number of SAIC AMR HR 6.70 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107308

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_740_DL_RXQ_0

Number of SAIC AMR HR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 0 on downlink direction.

Data Source

BSS

Source Field

107309

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_740_DL_RXQ_1

Number of SAIC AMR HR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 1 on downlink direction.

Data Source

BSS

Source Field

107310

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_740_DL_RXQ_2

Number of SAIC AMR HR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 2 on downlink direction.

Data Source

BSS

Source Field

107311

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_740_DL_RXQ_3

Number of SAIC AMR HR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 3 on downlink direction.

Data Source

BSS

Source Field

107312

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_740_DL_RXQ_4

Number of SAIC AMR HR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 4 on downlink direction.

Data Source

BSS

Source Field

107313

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_740_DL_RXQ_5

Number of SAIC AMR HR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 5 on downlink direction.

Data Source

BSS

Source Field

107314

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_740_DL_RXQ_6

Number of SAIC AMR HR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 6 on downlink direction.

Data Source

BSS

Source Field

107315

Source Section

P_NBSC_AMR_RX_QUAL

SAIC_HR_740_DL_RXQ_7

Number of SAIC AMR HR 7.40 kbit/s codec mode (bitrate) usages when Rx quality is within class 7 on downlink direction.

Data Source

BSS

Source Field

107316

Source Section

P_NBSC_AMR_RX_QUAL

SCHED_UNUSED_RADIO_BLOCKS

Number of scheduled but unused uplink radio blocks.

Data Source

BSS

Source Field

73002

Source Section

P_NBSC_RLC_BLOCKS_PER_TRX

SEGMENT_ID_POWER

Segment identification number

Data Source

BSS

SEGMENT_ID_RLC_BLOCKS

Segment identification number

Data Source

BSS

Source Section

P_NBSC_RLC_BLOCKS_PER_TRX

SEGMENT_ID_RX_QUAL

Segment identification number

Data Source

BSS

Source Section

P_NBSC_RX_QUAL

SEGMENT_ID_UNDERLAY

Segment identification number

Data Source

BSS

Source Section

P_NBSC_UNDERLAY

SUPER_REUSE_METHOD

Number of super-reuse estimation methods

Data Source

BSS

Source Field

52087

Source Section

P_NBSC_UNDERLAY

TCH_FAIL_CALL_HO

Number of TCH transaction failures during a call or a handover

Data Source

BSS

Source Field

52006

Source Section

P_NBSC_UNDERLAY

TCH_RADIO_FAIL

Nof TCH transaction ended due to a radio failure during a call or a ho

Data Source

BSS

Source Field

52007

Source Section

P_NBSC_UNDERLAY

TCH_REQ_REJ_LACK

Nof rejected TCH seizures due to lack of resources whether queuing occurred or not

Data Source

BSS

Source Field

52005

Source Section

P_NBSC_UNDERLAY

TCH_REQUEST

Number of TCH requests

Data Source

BSS

Source Field

52003

Source Section

P_NBSC_UNDERLAY

TCH_SUCC_SEIZ

Number of TCH seizures

Data Source

BSS

Source Field

52004

Source Section

P_NBSC_UNDERLAY

TR_FAIL_HO_ATT_BETW_SUPER_FR

Nof TCH transaction failures during a HO attempt between super- reuse freq groups

Data Source

BSS

Source Field

52084

Source Section

P_NBSC_UNDERLAY

TRX

1...16;

Data Source

BSS

Source Field

14001

Source Section

P_NBSC_RX_QUAL

TRX_FREQUENCY

Absolute radio frequency number of the TRX from which the Rx quality band frequencies are allocated. The counter is updated once for every established call.

Data Source

BSS

Source Field

107003

Source Section

P_NBSC_AMR_RX_QUAL

TRX_FREQUENCY_POWER

Absolute radio frequency number of TRX.

Data Source

BSS

Source Field

5024

Source Section

P_NBSC_POWER

TRX_FREQUENCY_RX_QUAL

Absolute radio freq Nof TRX from which the rx quality band frequencies will be allocated

Data Source

BSS

Source Field

14019

Source Section

P_NBSC_RX_QUAL

TRX_FREQUENCY_UNDERLAY

Absolute radio frequency number of TRX from which the statistics are collected.

Data Source

BSS

Source Field

52074

Source Section

P_NBSC_UNDERLAY

TRX_ID_POWER

IdentificationoftheTRXvaluesmay range from 1 to 32.

Data Source

BSS

Source Field

5024

Source Section

P_NBSC_POWER

TRX_ID_UNDERLAY

1...16.

Data Source

BSS

Source Field

52001

Source Section

P_NBSC_UNDERLAY

TRX_TYPE_POWER

Type of TRX normal TRX = 0 extended TRX = 1.

Data Source

BSS

Source Field

5031

Source Section

P_NBSC_POWER

TRX_TYPE_RX_QUAL

Type of TRX normal TRX = 0 extended TRX = 1.

Data Source

BSS

Source Field

14020

Source Section

P_NBSC_RX_QUAL

TRX_TYPE_UNDERLAY

Type of TRX normal TRX = 0 extended TRX = 1

Data Source

BSS

Source Field

52081

Source Section

P_NBSC_UNDERLAY

UL_DL_RLC_MAC_BLOCKS

Number of uplink/downlink RLC/MAC blocks.

Data Source

BSS

Source Field

73000

Source Section

P_NBSC_RLC_BLOCKS_PER_TRX

UL_RX_QUAL_POWER_CL_0

The sum of an uplink RX quality class values,whenuplink transmitting poweris within AMR PPC power class 0 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111002

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_0_DENOM

Number of uplink RX quality class value sampleswhen uplink transmitting poweris within AMR PPC power class 0 (AMR PPC power classes from 0 to 15). Denominator for counter"UL RX QUALITY FOR POWER CLASS 0"

Data Source

BSC

Source Field

111003

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_1

The sum of an uplink RX quality class values,whenuplink transmitting poweris within AMR PPC power class1 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111006

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_1_DENOM

Number of uplink RX quality class value sampleswhen uplink transmitting poweris within AMR PPC power class 1 (AMR PPC power classes from 0 to 15). Denominator for counter"UL RX QUALITY FOR POWER CLASS 1"

Data Source

BSC

Source Field

111007

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_10

The sum of an uplink RX quality class values,whenuplink transmitting poweris within AMR PPC power class10 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111042

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_10_DENOM

Number of uplink RX quality class value samples when uplink transmitting power is within AMR PPC power class 10 (AMR PPC power classes from 0 to 15). Denominator for counter "UL RX QUALITY FOR POWER CLASS 10"

Data Source

BSC

Source Field

111043

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_11

The sum of an uplink RX quality class values, when uplink transmitting power is within AMR PPC power class 11 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111046

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_11_DENOM

Number of uplink RX quality class value samples when uplink transmitting power is within AMR PPC power class 11 (AMR PPC power classes from 0 to 15). Denominator for counter "UL RX QUALITY FOR POWER CLASS 11"

Data Source

BSC

Source Field

111047

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_12

The sum of an uplink RX quality class values when uplink transmitting power is within AMR PPC power class 12 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111050

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_12_DENOM

Number of uplink RX quality class value samples when uplink transmitting power is within AMR PPC power class 12 (AMR PPC power classes from 0 to 15). Denominator for counter "UL RX QUALITY FOR POWER CLASS 12" Draft

Data Source

BSC

Source Field

111051

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_13

The sum of an uplink RX quality class values,whenuplink transmitting poweris within AMR PPC power class13 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111054

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_13_DENOM

Number of uplink RX quality class value sampleswhen uplink transmitting poweris within AMR PPC power class 13 (AMR PPC power classes from 0 to 15). Denominator for counter"UL RX QUALITY FOR POWER CLASS 13"

Data Source

BSC

Source Field

111055

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_14

The sum of an uplink RX quality class values,whenuplink transmitting poweris within AMR PPC power class14 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111058

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_14_DENOM

Number of uplink RX quality class value samples when uplink transmitting power is within AMR PPC power class 14 (AMR PPC power classes from 0 to 15). Denominator for counter "UL RX QUALITY FOR POWER CLASS 14"

Data Source

BSC

Source Field

111059

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_15

The sum of an uplink RX quality class values, when uplink transmitting power is within AMR PPC power class 15 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111062

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_15_DENOM

Number of uplink RX quality class value samples when uplink transmitting power is within AMR PPC power class 15 (AMR PPC power classes from 0 to 15). Denominator for counter "UL RX QUALITY FOR POWER CLASS 15"

Data Source

BSC

Source Field

111063

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_2

The sum of an uplink RX quality class values,whenuplink transmitting poweris within AMR PPC power class2 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111010

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_2_DENOM

Number of uplink RX quality class value sampleswhen uplink transmitting poweris within AMR PPC power class 2 (AMR PPC power classes from 0 to 15). Denominator for counter"UL RX QUALITY FOR POWER CLASS 2" Draft

Data Source

BSC

Source Field

111011

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_3

The sum of an uplink RX quality class values,whenuplink transmitting poweris within AMR PPC power class3 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111014

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_3_DENOM

Number of uplink RX quality class value samples when uplink transmitting power is within AMR PPC power class 3 (AMR PPC power classes from 0 to 15). Denominator for counter "UL RX QUALITY FOR POWER CLASS 3"

Data Source

BSC

Source Field

111015

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_4

The sum of an uplink RX quality class values, when uplink transmitting power is within AMR PPC power class 4 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111018

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_4_DENOM

Number of uplink RX quality class value samples when uplink transmitting power is within AMR PPC power class 4 (AMR PPC power classes from 0 to 15). Denominator for counter "UL RX QUALITY FOR POWER CLASS 4"

Data Source

BSC

Source Field

111019

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_5

The sum of an uplink RX quality class values,whenuplink transmitting poweris within AMR PPC power class5 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111022

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_5_DENOM

Number of uplink RX quality class value sampleswhen uplink transmitting poweris within AMR PPC power class 5 (AMR PPC power classes from 0 to 15). Denominator for counter"UL RX QUALITY FOR POWER CLASS 5"

Data Source

BSC

Source Field

111023

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_6

The sum of an uplink RX quality class values,whenuplink transmitting poweris within AMR PPC power class6 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111026

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_6_DENOM

Number of uplink RX quality class value samples when uplink transmitting power is within AMR PPC power class 6 (AMR PPC power classes from 0 to 15). Denominator for counter "UL RX QUALITY FOR POWER CLASS 6"

Data Source

BSC

Source Field

111027

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_7

The sum of an uplink RX quality class values, when uplink transmitting power is within AMR PPC power class 7 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111030

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_7_DENOM

Number of uplink RX quality class value samples when uplink transmitting power is within AMR PPC power class 7 (AMR PPC power classes from 0 to 15). Denominator for counter "UL RX QUALITY FOR POWER CLASS 7" Draft

Data Source

BSC

Source Field

111031

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_8

The sum of an uplink RX quality class values when uplink transmitting power is within AMR PPC power class 8 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111034

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_8_DENOM

Number of uplink RX quality class value samples when uplink transmitting power is within AMR PPC power class 8 (AMR PPC power classes from 0 to 15). Denominator for counter "UL RX QUALITY FOR POWER CLASS 8"

Data Source

BSC

Source Field

111035

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_9

The sum of an uplink RX quality class values,whenuplink transmitting poweris within AMR PPC power class9 (AMR PPC power classes from 0 to 15).

Data Source

BSC

Source Field

111038

Source Section

RBS_PS_AMRPPC_TRX_RAW

UL_RX_QUAL_POWER_CL_9_DENOM

Number of uplink RX quality class value sampleswhen uplink transmitting poweris within AMR PPC power class 9 (AMR PPC power classes from 0 to 15). Denominator for counter"UL RX QUALITY FOR POWER CLASS 9"

Data Source

BSC

Source Field

111039

Source Section

RBS_PS_AMRPPC_TRX_RAW

UO_DR_ATT_TO_SUPER

Number of assignment or handover attempts from SDCCH to super-reuse frequencies.

Data Source

BSS

Source Field

52075

Source Section

P_NBSC_UNDERLAY

UO_DR_FAIL_SUPER_LACK

Nof failed assignment/ho attempts from SD to super-reuse frequencies.

Data Source

BSS

Source Field

52077

Source Section

P_NBSC_UNDERLAY

UO_DR_FAIL_SUPER_MS_LOST

MS is lost during an assignment/handover attempt from SDCCH.

Data Source

BSS

Source Field

52080

Source Section

P_NBSC_UNDERLAY

UO_DR_FAIL_SUPER_TRC

Nof TCH transaction failures during assignment/ho att from SD to super-reuse freq

Data Source

BSS

Source Field

52078

Source Section

P_NBSC_UNDERLAY

UO_DR_SUCC_TO_SUPER

Number of successful assignments/handovers from SDCCH to super-reuse frequencies.

Data Source

BSS

Source Field

52076

Source Section

P_NBSC_UNDERLAY

TSL Primitive Calculations

The following is a list of primitive calculations for the TSL entity.

AGCH_ATTEMPTS

Number of immediate assignment messages sent to the BTS

Calculation

IMM_ASSGN_SENT

AGCH_REJECT

Number of immediate assignment reject messages sent to the BTS

Calculation

IMM_ASSGN_REJ

AGCH_REJECT_RATE

AGCH attempts reject rate

Calculation

$100 * (IMM_ASSGN_REJ / IMM_ASSGN_SENT)$

AVG_PAGING_BUFFER_SPACE

Average paging buffer space

Calculation

$AVE_PCH_LOAD / RES_ACC_DENOM2$

DEL_IND_MESS

Number of delete indication messages received from the BTS

Calculation

DEL_IND_MSG_REC

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT()

NUMHOURS

of hours in Summation Data

Calculation

PAGING_ATTEMPTS

Number of paging commands sent to the BTS

Calculation

PAGING_MSG_SENT

PAGING_REJ_RATE

Paging reject rate

Calculation

$$100 * ((\text{PAGING_MSG_SENT} - (\text{GHOST_CCCH_RES} - \text{REJ_SEIZ_ATT_DUE_DIST})) / \text{PAGING_MSG_SENT})$$

PAGING_REJECT

Paging rejected

Calculation

$$\text{PAGING_MSG_SENT} - (\text{GHOST_CCCH_RES} - \text{REJ_SEIZ_ATT_DUE_DIST})$$

PAGING_SUCCESS_RATIO

Paging success ratio

Calculation

$$100 * ((SUCC_SEIZ_TERM + TCH_MTC) / PAGING_MSG_SENT)$$

RACH_ATTEMPTS

Number of channel request messages received from the BTS

Calculation

$$CH_REQ_MSG_REC$$

RACH_ILL_ESTAB_CAUSE

RACH due to illegal establish cause

Calculation

$$GHOST_CCCH_RES - REJ_SEIZ_ATT_DUE_DIST$$

RACH_REJECT

Number of immediate assignment reject messages sent to the BTS

Calculation

$$IMM_ASSGN_REJ$$

RACH_REJECT_RATE

RACH Reject Rate

Calculation

$$100 * (IMM_ASSGN_REJ) / (CH_REQ_MSG_REC)$$

rg_reap

ReportGenerator Internal Count

Calculation

$$PERLENSEC$$

TSL Peg Counts

The following is a list of peg counts for the TSL entity.

AVE_DRX_AGCH_LOAD_AIR_DEN

Denominator of ave radio interference CCCH load radio block occupancy DRX AGCH

Data Source

BSS

Source Field

3054

Source Section

P_NBSC_RES_ACCESS

AVE_DRX_AGCH_LOAD_AIR_SUM

Average radio interference CCCH load radio block occupancy DRX AGCH

Data Source

BSS

Source Field

3053

Source Section

P_NBSC_RES_ACCESS

AVE_NON_DRX_AGCH_LOAD_AIR_DEN

Denominator of ave radio interference CCCH load radio block occupancy NON-DRX AGCH

Data Source

BSS

Source Field

3056

Source Section

P_NBSC_RES_ACCESS

AVE_NON_DRX_AGCH_LOAD_AIR_SUM

Average radio interference CCCH load radio block occupancy NONDRX AGCH

Data Source

BSS

Source Field

3055

Source Section

P_NBSC_RES_ACCESS

AVE_PAGING_BUFFER_CAPA_DENOM

Denominator of the average number of paging buffers (always > 0)

Data Source

BSS

Source Field

3037

Source Section

P_NBSC_RES_ACCESS

AVE_PAGING_BUFFER_CAPA_NUMER

Average percentage of the paging buffer capacity

Data Source

BSS

Source Field

3036

Source Section

P_NBSC_RES_ACCESS

AVE_PAGING_GB_BUF_DEN

Denominator of average buffer occupancy percentage

Data Source

BSS

Source Field

3049

Source Section

P_NBSC_RES_ACCESS

AVE_PAGING_GB_BUF_SUM

Average buffer occupancy percentage

Data Source

BSS

Source Field

3048

Source Section

P_NBSC_RES_ACCESS

AVE_PAGING_LOAD_AIR_DEN

Denominator of average radio interference CCCH load radio block occupancy paging

Data Source

BSS

Source Field

3052

Source Section

P_NBSC_RES_ACCESS

AVE_PAGING_LOAD_AIR_SUM

Average radio interference CCCH load radio block occupancy paging

Data Source

BSS

Source Field

3051

Source Section

P_NBSC_RES_ACCESS

AVE_PCH_GB_LOAD_ON_CCCH_DEN

Denominator of average PCH Gb load on CCCH

Data Source

BSS

Source Field

3047

Source Section

P_NBSC_RES_ACCESS

AVE_PCH_GB_LOAD_ON_CCCH_SUM

Average paging load paging buffer space on Gb-interface.

Data Source

BSS

Source Field

3046

Source Section

P_NBSC_RES_ACCESS

AVE_PCH_LOAD

Average PCH load on a CCCH

Data Source

BSS

Source Field

3008

Source Section

P_NBSC_RES_ACCESS

AVE_RACH_ACCESS

Average RACH access count on a CCCH

Data Source

BSS

Source Field

3016

Source Section

P_NBSC_RES_ACCESS

AVE_RACH_BUSY

Average RACH busy count on a CCCH

Data Source

BSS

Source Field

3014

Source Section

P_NBSC_RES_ACCESS

AVE_RACH_SLOT

Average RACH slot count on a CCCH

Data Source

BSS

Source Field

3006

Source Section

P_NBSC_RES_ACCESS

BCSU_OVERLOAD_DELETED_RACH

Number of deleted RACHs on a CCCH when the RACH load is too high and MCMU is protected against overload.

Data Source

BSS

Source Field

3041

Source Section

P_NBSC_RES_ACCESS

BCSU_OVERLOAD_LOWER_LIMIT

Number of refused calls when BCSU overload lower limit occurs

Data Source

BSS

Source Field

3039

Source Section

P_NBSC_RES_ACCESS

BCSU_OVERLOAD_UPPER_LIMIT

Number of refused calls when BCSU overload upper limit occurs

Data Source

BSS

Source Field

3040

Source Section

P_NBSC_RES_ACCESS

BSSRelease

BSS Release

Data Source

BSS

CALL_ASSIGN_AFTER_SMS

Number of calls started directly after an SMS on the already reserved SDCCH

Data Source

BSS

Source Field

3059

Source Section

P_NBSC_RES_ACCESS

CH_REQ_MSG_REC

Number of channel request messages received from the BTS

Data Source

BSS

Source Field

3004

Source Section

P_NBSC_RES_ACCESS

CLASSMARK_1_RES_ACCESS

CLASSMARK_1

Data Source

BSS

Source Section

P_NBSC_RES_ACCESS

CLASSMARK_2_RES_ACCESS

CLASSMARK_2

Data Source

BSS

Source Section

P_NBSC_RES_ACCESS

CLASSMARK_3_RES_ACCESS

CLASSMARK_3

Data Source

BSS

Source Section

P_NBSC_RES_ACCESS

CLASSMARK_4_RES_ACCESS

CLASSMARK_4

Data Source

BSS

Source Section

P_NBSC_RES_ACCESS

CLASSMARK_5_RES_ACCESS

CLASSMARK_5

Data Source

BSS

Source Section

P_NBSC_RES_ACCESS

CLASSMARK_GEN_RES_ACCESS

CLASSMARK_GEN

Data Source

BSS

Source Section

P_NBSC_RES_ACCESS

CS_PAGING_MSG_SENT

This message is sent from BSC/PCU to BTS to request CS paging of a GPRS MS.

Data Source

BSS

Source Field

3058

Source Section

P_NBSC_RES_ACCESS

DEL_IND_MSG_REC

Number of delete indication messages received from the BTS

Data Source

BSS

Source Field

3005

Source Section

P_NBSC_RES_ACCESS

DELETE_PAGING_COMMAND

Number of delete paging commands

Data Source

BSS

Source Field

3038

Source Section

P_NBSC_RES_ACCESS

GHOST_CCCH_RES

The number of ghost reservations on the CCCH

Data Source

BSS

Source Field

3030

Source Section

P_NBSC_RES_ACCESS

IMM_ASSGN_REJ

Number of immediate assignment reject messages sent to the BTS

Data Source

BSS

Source Field

3002

Source Section

P_NBSC_RES_ACCESS

IMM_ASSGN_SENT

Number of immediate assignment messages sent to the BTS

Data Source

BSS

Source Field

3001

Source Section

P_NBSC_RES_ACCESS

IMSI_DETACH_SDCCH

Number of successful SDCCH seizures for IMSI detach.

Data Source

BSS

Source Field

3033

Source Section

P_NBSC_RES_ACCESS

IMSI_DETACH_TCH

Nof succ TCH seizures for IMSI detach in FACCH call setup due to SD congestion

Data Source

BSS

Source Field

3034

Source Section

P_NBSC_RES_ACCESS

MAX_PAGING_BUFFER_CAPA

Maximum percentage of paging buffer capacity

Data Source

BSS

Source Field

3035

Source Section

P_NBSC_RES_ACCESS

MAX_PAGING_GB_BUF

Maximum buffer occupancy percentage

Data Source

BSS

Source Field

3050

Source Section

P_NBSC_RES_ACCESS

MIN_PAGING_BUF

The minimum paging buffer size on the PCH

Data Source

BSS

Source Field

3018

Source Section

P_NBSC_RES_ACCESS

PAGING_MSG_SENT

Number of paging commands sent to the BTS UPDATED

Data Source

BSS

Source Field

3000

Source Section

P_NBSC_RES_ACCESS

PEAK_PCH_LOAD

Not applicable Replaced by the counter 003018 min paging buf

Data Source

BSS

Source Field

3011

Source Section

P_NBSC_RES_ACCESS

PEAK_RACH_LOAD

Peak RACH busy count on a CCCH

Data Source

BSS

Source Field

3010

Source Section

P_NBSC_RES_ACCESS

PERIOD_REAL_START_TIME_RES_ACC

The real starting time of a period

Data Source

BSS

Source Section

P_NBSC_RES_ACCESS

PERIOD_REAL_STOP_TIME_RES_ACC

The real stopping time of a period

Data Source

BSS

Source Section

P_NBSC_RES_ACCESS

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

PS_PAGING_MSG_SENT

This message is sent from BSC/PCU to BTS to request PS paging of a GPRS MS.

Data Source

BSS

Source Field

3057

Source Section

P_NBSC_RES_ACCESS

REJ_SEIZ_ATT_DUE_DIST

The Nof succ TCH seizures for a MOC in FACCH call setup due to SD congestion

Data Source

BSS

Source Field

3031

Source Section

P_NBSC_RES_ACCESS

RES_ACC_DENOM1

The denominator of average RACH slot count always0

Data Source

BSS

Source Field

3007

Source Section

P_NBSC_RES_ACCESS

RES_ACC_DENOM2

The denominator of the average PCH load on CCCH always0

Data Source

BSS

Source Field

3009

Source Section

P_NBSC_RES_ACCESS

RES_ACC_DENOM3

The denominator of average RACH busy count always0

Data Source

BSS

Source Field

3015

Source Section

P_NBSC_RES_ACCESS

RES_ACC_DENOM4

The denominator of the average RACH access count always0

Data Source

BSS

Source Field

3017

Source Section

P_NBSC_RES_ACCESS

SDCCH_CALL_RE_EST

The number of successful SDCCH seizures for call re establishment

Data Source

BSS

Source Field

3020

Source Section

P_NBSC_RES_ACCESS

SDCCH_EMERG_CALL

The number of successful SDCCH seizures for an emergency call

Data Source

BSS

Source Field

3021

Source Section

P_NBSC_RES_ACCESS

SDCCH_LOC_UPD

Successful SDCCH seizures for location updating

Data Source

BSS

Source Field

3019

Source Section

P_NBSC_RES_ACCESS

SEGMENT_ID_RES_ACCESS

Segment identification number

Data Source

BSS

Source Section

P_NBSC_RES_ACCESS

SMS_BC_REQ_SENT

Number of SMS broadcast request messages sent to the BTS

Data Source

BSS

Source Field

3003

Source Section

P_NBSC_RES_ACCESS

SUCC_MO_SMS_SDCCH

Number of mobile originated SMSs successfully established on an SDCCH.

Data Source

BSS

Source Field

3064

Source Section

P_NBSC_RES_ACCESS

SUCC_SDCCH_SMS_EST

The number of successful SMS establishments on the SDCCH

Data Source

BSS

Source Field

3028

Source Section

P_NBSC_RES_ACCESS

SUCC_SEIZ_ORIG

Successful SDCCH seizures for a mobile originating call MOC

Data Source

BSS

Source Field

3013

Source Section

P_NBSC_RES_ACCESS

SUCC_SEIZ_SUPPLEM_SERV

Number of successful SDCCH seizures for supplementary service.

Data Source

BSS

Source Field

3044

Source Section

P_NBSC_RES_ACCESS

SUCC_SEIZ_TERM

Successful SDCCH seizures for a mobile terminated call MTC

Data Source

BSS

Source Field

3012

Source Section

P_NBSC_RES_ACCESS

SUCC_TCH_SMS_EST

The number of successful SMS establishments on the TCH

Data Source

BSS

Source Field

3026

Source Section

P_NBSC_RES_ACCESS

TCH_CALL_RE_EST

The number of successful TCH seizures for call re establishment

Data Source

BSS

Source Field

3025

Source Section

P_NBSC_RES_ACCESS

TCH_EMERG_CALL

The number of successful TCH seizures for an emergency call

Data Source

BSS

Source Field

3022

Source Section

P_NBSC_RES_ACCESS

TCH_MOC

The Nof succ TCH seizures for a MOC in FACCH call setup due to SD cong

Data Source

BSS

Source Field

3024

Source Section

P_NBSC_RES_ACCESS

TCH_MTC

The number of successful TCH seizures for a mobile terminated call MTC

Data Source

BSS

Source Field

3023

Source Section

P_NBSC_RES_ACCESS

TCH_SUPPLEM_SERV

Nof succ TCH seizures for supplementary service in FACCH call setup due to SD cong

Data Source

BSS

Source Field

3045

Source Section

P_NBSC_RES_ACCESS

TRX_DIAGNOSTIC

The number of running times of TRX internal diagnostics.

Data Source

BSS

Source Field

3042

Source Section

P_NBSC_RES_ACCESS

TRX_DIAGNOSTIC_FAULT

The number of times that TRX internal diagnostics has detected a fault.

Data Source

BSS

Source Field

3043

Source Section

P_NBSC_RES_ACCESS

TRX_TYPE_RES_ACCESS

Type of TRX normal TRX = 0 extended TRX = 1.

Data Source

BSS

Source Field

3032

Source Section

P_NBSC_RES_ACCESS

UNSUCC_MO_SMS_SDCCH

Number of mobile originated SMSs unsuccessfully established on an SDCCH.

Data Source

BSS

Source Field

3065

Source Section

P_NBSC_RES_ACCESS

UNSUCC_SDCCH_SMS_EST

The number of unsuccessful SMS establishment on SDCCH

Data Source

BSS

Source Field

3029

Source Section

P_NBSC_RES_ACCESS

UNSUCC_TCH_SMS_EST

The number of unsuccessful SMS establishments on the TCH

Data Source

BSS

Source Field

3027

Source Section

P_NBSC_RES_ACCESS

Unit_Index Primitive Calculations

The following is a list of primitive calculations for the Unit_Index entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

REG_BBE

Unit_Index Peg Counts

The following is a list of peg counts for the Unit_Index entity.

BSSRelease

BSS Release

Data Source

BSS

FE_MUX_BBE

An errored block is a block in which one or more bits have an error. M1 byte conveys the count of errored blocks, which is calculated by the far end from its receiving blocks by using B2 bytes at multiplexer level. B2 bytes are the bytes allocated for a Multiplex section line error monitoring function, which is Bit Interleaved Parity 24 (BIP-24) code using even parity. The BIP-24 is computed over all bits of the previous STM frame excluding RSOH and is placed in byte B2 of the current frame. In this case the block means STM-1/OC3 frame.

Data Source

BSS

Source Field

513027

Source Section

P_NBSC_STM1

FE_MUX_ES

The counter contains the number of seconds with one or more errored blocks or at least one defect. At the end of each one second interval, the contents of the counters are obtained by the relevant managed objects. The objects are multiplex section line (M1) errors and Multiplex Section Remote Defect Indication (MS-RDI). In this case the block means STM- 1/OC3 frame.

Data Source

BSS

Source Field

513028

Source Section

P_NBSC_STM1

FE_MUX_SES

The counter contains the number of one second periods, which contain more or equal threshold errored blocks or at least one defect. The threshold can be handled by the SDH/SONET Interface Configuration Handling YAN MML. At the end of each one second interval, the contents of the counters may be obtained by the relevant managed objects. The objects are multiplex section line (M1) errors and MS-RDI. In this case the block means STM- 1/OC3 frame. During SES condition also counter Multiplex section line errored seconds at the far end 513028 is incremented.

Data Source

BSS

Source Field

513029

Source Section

P_NBSC_STM1

FE_MUX_UAS

Multiplex section line unavailable seconds at the far end. A period of unavailable time, which begins at the start of ten consecutive SES events. These ten seconds are considered to be part of the unavailable time. A new period of available time begins at the start of ten consecutive non-SES events. These ten seconds are considered to be part of the available time.

Data Source

BSS

Source Field

513026

Source Section

P_NBSC_STM1

FE_PATH1_BBE

An errored block is a block in which one or more bits have an error. G1 byte in the SOH is used for path termination section error monitoring using Bit Interleaved Parity 8 (BIP-8) code, in an even parity. The BIP-8 is computed over all the bits of the previous virtual container/ virtual tributary (VC-12 over VC-3 or VC-12 over VC-4 according to the configuration) and is placed in byte B3 of the current frame. In this case the block means virtual container/ virtual tributary.

Data Source

BSS

Source Field

513031

Source Section

P_NBSC_STM1

FE_PATH1_ES

The counter contains the number of seconds with one or more errored blocks or at least one defect. At the end of each one second interval, the contents of the counters are obtained by the relevant managed objects. The objects are path termination section (G1) errors and HPRDI. In this case the block means virtual container/ virtual tributary.

Data Source

BSS

Source Field

513032

Source Section

P_NBSC_STM1

FE_PATH1_SES

The number of one second periods, which contain more or equal threshold errored blocks or at least one defect. The threshold can be handled by the SDH/SONET Interface Configuration Handling YAN MML. At the end of each one second interval, the contents of the counters may be obtained by the relevant managed objects. The objects are the path termination section (G1) errors and HP-RDI. In this case the block means virtual container/virtual tributary. During the SES condition also counter Path termination section 1 errored seconds at the far end 513032 is incremented.

Data Source

BSS

Source Field

513033

Source Section

P_NBSC_STM1

FE_PATH1_UAS

A period of unavailable time begins at the start of ten consecutive SES events. These ten seconds are considered to be part of the unavailable time. A new period of available time begins at the start of ten consecutive non-SES events. These ten seconds are considered to be part of the available time.

Data Source

BSS

Source Field

513030

Source Section

P_NBSC_STM1

FE_PATH2_BBE

An errored block is a block in which one or more bits have an error. G1 byte in the SOH is used for path termination section error monitoring using Bit Interleaved Parity 8 (BIP-8) code, in an even parity. The BIP-8 is computed over all bits of the previous virtual container/ virtual tributary (VC-12 over VC-3 or VC-12 over VC-4 according to configuration) and is placed in byte B3 of the current frame. In this case the block means virtual container/virtual tributary.

Data Source

BSS

Source Field

513035

Source Section

P_NBSC_STM1

FE_PATH2_ES

The counter contains the number of seconds with one or more errored blocks or at least one defect. At the end of each one second interval, the contents of the counters are obtained by the relevant managed objects. The objects are the path termination section (G1) errors and HP-RDI. In this case the block means virtual container/virtual tributary.

Data Source

BSS

Source Field

513036

Source Section

P_NBSC_STM1

FE_PATH2_SES

The counter contains the number of one second periods, which contain more or equal threshold errored blocks or at least one defect. The threshold can be handled by the SDH/SONET Interface Configuration Handling YAN MML. At the end of each one second interval, the contents of the counters may be obtained by the relevant managed objects. The objects are the path termination section (G1) errors and HP-RDI. In this case the block means virtual container/virtual tributary. During the SES condition counter Path termination section 2 errored seconds at the far end 513036 is also incremented.

Data Source

BSS

Source Field

513037

Source Section

P_NBSC_STM1

FE_PATH2_UAS

A period of unavailable time begins at the start of ten consecutive SES events. These ten seconds are considered to be part of the unavailable time. A new period of available time begins at the start of ten consecutive non-SES events. These ten seconds are considered to be part of the available time.

Data Source

BSS

Source Field

513034

Source Section

P_NBSC_STM1

FE_PATH3_BBE

An errored block is a block in which one or more bits have an error. G1 byte in the section overhead header (SOH) is used for path termination section error monitoring using Bit Interleaved Parity 8 (BIP-8) code, in an even parity. The BIP-8 is computed over all the bits of the previous virtual container/virtual tributary (VC-12 over VC- 3 or VC-12 over VC-4 according to the configuration) and is placed in byte B3 of the current frame. In this case the block means virtual container/ virtual tributary.

Data Source

BSS

Source Field

513039

Source Section

P_NBSC_STM1

FE_PATH3_ES

The counter contains the number of seconds with one or more errored blocks or at least one defect. At the end of each one second interval, the contents of the counters are obtained by the relevant managed objects. The objects are the path termination section (G1) errors and HP-RDI. In this case the block means virtual container/virtual tributary.

Data Source

BSS

Source Field

513040

Source Section

P_NBSC_STM1

FE_PATH3_SES

The number of one second periods, which contain more or equal threshold errored blocks or at least one defect. The threshold can be handled by the SDH/SONET Interface Configuration Handling YAN MML. At the end of each one second interval, the contents of the counters may be obtained by the relevant managed objects. The objects are the path termination section (G1) errors and HP-RDI. In this case the block means virtual container/virtual tributary. The path termination section is one of the SDH/SONET layers (regeneration, multiplex and path). During the SES condition counter Path termination section 3 errored seconds at the far end 513040 is also incremented.

Data Source

BSS

Source Field

513041

Source Section

P_NBSC_STM1

FE_PATH3_UAS

A period of unavailable time begins at the start of ten consecutive SES events. These ten seconds are considered to be part of the unavailable time. A new period of available time begins at the start of ten consecutive non-SES events. These ten seconds are considered to be part of the available time.

Data Source

BSS

Source Field

513038

Source Section

P_NBSC_STM1

NE_MUX_BBE

Multiplex section line background block errors at the near end. An errored block is a block in which one or more bits have an error. B2 byte in the section overhead header (SOH) is used for Multiplex section/ line error monitoring using Bit Interleaved Parity 24 (BIP- 24) code, in an even parity. The BIP-24 is computed over all the bits of the previous STM frame, excluding RSOH, and is placed in byte B2 of the current frame before scrambling. In this case the block means STM- 1/OC3 frame.

Data Source

BSS

Source Field

513011

Source Section

P_NBSC_STM1

NE_MUX_ES

The number of seconds with one or more errored blocks or at least one defect. At the end of each one second interval the contents of the counters are obtained by the relevant managed objects. The objects are Multiplex section /line (B2) errors and Multiplex Section/Line Alarm Indication Signal (MS-AIS/LAIS).

Data Source

BSS

Source Field

513012

Source Section

P_NBSC_STM1

NE_MUX_SES

The number of one second periods which contain more or equal threshold errored blocks or at least one defect. The threshold can be handled by the SDH/SONET Interface Configuration Handling YAN MML. At the end of each one second interval, the contents of the counters may be obtained by the relevant managed objects. The objects are Multiplex section line (B2) errors

and MS-AIS. In this case the block means STM- 1/OC3 frame. During the SES condition, counter Multiplex section line errored seconds at the near end 513012 is also incremented.

Data Source

BSS

Source Field

513013

Source Section

P_NBSC_STM1

NE_MUX_UAS

A period of unavailable time begins at the start of ten consecutive SES events. These ten seconds are considered to be part of the unavailable time. A new period of available time begins at the start of ten consecutive non-SES events. These ten seconds are considered to be part of the available time.

Data Source

BSS

Source Field

513010

Source Section

P_NBSC_STM1

NE_PATH1_BBE

An errored block is a block in which one or more bits have an error. B3 byte in the Higher Order Path Overhead Header (HO-POH) is used for path termination section error monitoring using Bit Interleaved Parity 8 (BIP-8) code, in an even parity. The BIP-8 is computed over all the bits of the previous virtual container/virtual tributary (VC-12 over VC-3 or VC-12 over VC-4 according to configuration) and is placed in byte B3 of the current frame. In this case the block means virtual container/virtual tributary.

Data Source

BSS

Source Field

513015

Source Section

P_NBSC_STM1

NE_PATH1_ES

Path termination section errored second at the near end. The number of seconds with one or more errored blocks or at least one defect. At the end of each one second interval the contents of the counters are obtained by the relevant managed objects. The objects are the path termination section (B3) errors, AU-AIS, LOP, PLM, TIM, UNEQ and LCD. In this case the block means virtual container.

Data Source

BSS

Source Field

513016

Source Section

P_NBSC_STM1

NE_PATH1_SES

Path termination section severely errored seconds at the near end. The number of one second periods, which contain more or equal threshold errored blocks or at least one defect. The threshold can be handled by SDH/SONET Interface Configuration Handling YAN MML. At the end of each one second interval, the contents of the counters may be obtained by the relevant managed objects. The objects are the path termination section (B3) errors, AU-AIS, LOP, PLM, TIM, UNEQ, and LCD. In this case the block means virtual container/virtual tributary. During the SES condition, counter Path termination section 1 errored seconds at the near end 513016 is also incremented.

Data Source

BSS

Source Field

513017

Source Section

P_NBSC_STM1

NE_PATH1_UAS

A period of unavailable time begins at the start of ten consecutive SES events. These ten seconds are considered to be part of the unavailable time. A new period of available time begins at the start of ten consecutive non-SES events. These ten seconds are considered to be part of the available time.

Data Source

BSS

Source Field

513014

Source Section

P_NBSC_STM1

NE_PATH2_BBE

Path termination section background block errors at the near end. An errored block is a block in which one or more bits have an error. B3 byte in the HO-POH is used for path termination section error monitoring using Bit Interleaved Parity 8 (BIP-8) code, in an even parity. The BIP-8 is computed over all the bits of the previous virtual container/ virtual tributary (VC-12 over VC-3 or VC-12 over VC-4 according to configuration) and is placed in byte B3 of the current frame. In this case the block means virtual container/virtual tributary

Data Source

BSS

Source Field

513019

Source Section

P_NBSC_STM1

NE_PATH2_ES

The counter contains the number of seconds with one or more errored blocks or at least one defect. At the end of each one second interval, the contents of the counters are obtained by the relevant managed objects. The objects are the path termination section (B3) errors, AU-AIS, LOP, PLM, TIM, UNEQ, and LCD. In this case the block means virtual container/virtual tributary

Data Source

BSS

Source Field

513020

Source Section

P_NBSC_STM1

NE_PATH2_SES

The counter contains the number of one second periods, which contain more or equal threshold errored blocks or at least one defect. The threshold can be handled by the SDH/SONET Interface Configuration Handling YAN MML. At the end of each one second interval, the contents of the counters may be obtained by the relevant managed objects. The objects are the path termination section (B3) errors, AU-AIS, LOP, PLM, TIM, UNEQ, and LCD. In this case the block means virtual container/virtual tributary. During the SES condition, counter Path termination section 2 errored seconds at the near end 513020 is also incremented.

Data Source

BSS

Source Field

513021

Source Section

P_NBSC_STM1

NE_PATH2_UAS

A period of unavailable time begins at the start of ten consecutive SES events. These ten seconds are considered to be part of the unavailable time. A new period of available time begins at the start of ten consecutive non-SES events. These ten seconds are considered to be part of the available time.

Data Source

BSS

Source Field

513018

Source Section

P_NBSC_STM1

NE_PATH3_BBE

An errored block in which one or more bits have an error. B3 byte in the HOPOH is used for path termination section error monitoring using Bit Interleaved Parity 8 (BIP-8) code, in an even parity. The BIP-8 is computed over all the bits of the previous virtual container/virtual tributary (VC-12 over VC-3 or VC-12 over VC-4 according to configuration) and is placed in byte B3 of the current frame. In this case the block means virtual container/virtual tributary.

Data Source

BSS

Source Field

513023

Source Section

P_NBSC_STM1

NE_PATH3_ES

The counter contains the number of seconds with one or more errored blocks or at least one defect. At the end of each one second interval the contents of the counters are obtained by the relevant managed objects. The objects are the path termination section (B3) errors, AU-AIS, LOP, PLM, TIM, UNEQ, and LCD. In this case the block means virtual container/virtual tributary.

Data Source

BSS

Source Field

513024

Source Section

P_NBSC_STM1

NE_PATH3_SES

The counter contains the number of one second periods, which contain more or equal threshold errored blocks or at least one defect. The threshold can be handled by the SDH/SONET Interface Configuration Handling YAN MML. At the end of each one second interval, the contents of the counters may be obtained by the relevant managed objects. The objects are the

path termination section (B3) errors, AU-AIS, LOP, PLM, TIM, UNEQ, and LCD. In this case the block means virtual container/virtual tributary. During the SES condition, counter Path termination section 3 errored seconds at the near end 513024 is also incremented.

Data Source

BSS

Source Field

513025

Source Section

P_NBSC_STM1

NE_PATH3_UAS

Path termination section unavailable seconds at the near end. A period of unavailable time, which begins at the start of ten consecutive SES events. These ten seconds are considered to be part of the unavailable time. A new period of available time begins at the start of ten consecutive non-SES events. These ten seconds are considered to be part of the available time.

Data Source

BSS

Source Field

513022

Source Section

P_NBSC_STM1

PERLENSEC

Measurement collection interval (in seconds)

Data Source

BSS

REG_BBE

An errored block is a block in which one or more bits have an error. B1 byte in the Section Overhead Header (SOH) is used for regenerator section / section error monitoring using the Bit Interleaved Parity 8 (BIP-8) code, in an even parity. The BIP-8 is computed over all the bits of the previous STM frame after scrambling, and is placed in byte B1 of the current frame before scrambling. In this case the block means STM-1/OC3 frame.

Data Source

BSS

Source Field

513000

Source Section

P_NBSC_STM1

REG_ES

This is the number of seconds with one or more errored blocks or at least one defect. At the end of each one second interval, the contents of the counters are obtained by the relevant managed objects. The objects are the regeneration section (B1) errors and LOS or LOF events. In this case the block means STM-1/OC3 frame.

Data Source

BSS

Source Field

513001

Source Section

P_NBSC_STM1

REG_SES

The number of one second periods, which contained more or equal threshold errored blocks or at least one defect. The threshold can be handled by the SDH/SONET Interface Configuration Handling YAN MML. The default value of the threshold is 30 %. At the end of each one second interval the contents of the counters may be obtained by the relevant managed objects. The objects are the regenerator section/section (B1) errors and regenerator section/ section LOF/ LOS events. In this case the block means STM-1/OC3 frame.

Data Source

BSS

Source Field

513002

Source Section

P_NBSC_STM1

REG_UAS

The period of unavailable time begins at the start of ten consecutive Severely Errored Second (SES) events. These ten seconds are considered to be part of the unavailable time. A new period of available time begins at the start of ten consecutive non- SES events. These ten seconds are considered to be part of the available time.

Data Source

BSS

Source Field

513009

Source Section

P_NBSC_STM1

VLR_PLMN Primitive Calculations

The following is a list of primitive calculations for the VLR_PLMN entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

VLR_PLMN Peg Counts

The following is a list of peg counts for the VLR_PLMN entity.

CANCEL_LOCATION

The number of CancelLocation operations received from the specific home PLMN. This counter is printed only with Feature 1627: Super-Charger.

Data Source

MSC

Source Field

M340B2C4

Source Section

RNS_P_MEAS_PLMNV_O2

DATA_MISSING_IN_SUBSC_VALUES

This line is printed if data transfer from one or several VLRUs failed during one or more inquiries, that is, only a subset of the data could be collected. It means that the printed subscriber numbers per PLMN are not reliable. (The problem can be overloaded VLRUs, a VLRU startup.)

Data Source

MSC

Source Field

M340B2C1

Source Section

RNS_P_MEAS_PLMNV_O2

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

RSAVERAGE

Average number of roaming subscribers during the reporting period. For the calculation of the average, the number of roaming subscribers is interrogated at five minute intervals. The maximum number of different PLMN identifiers in a report is 40.

Data Source

MSC

SEND_ID

The number of Send Identity operations received from the specific home PLMN. This counter is printed only with Feature 1627: Super-Charger.

Data Source

MSC

Source Field

M340B2C5

Source Section

RNS_P_MEAS_PLMNV_O2

VMGW Primitive Calculations

The following is a list of primitive calculations for the VMGW entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

1

VMGW_TCAT Primitive Calculations

The following is a list of primitive calculations for the VMGW_TCAT entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

" "

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

VMGW_TCAT Peg Counts

The following is a list of peg counts for the VMGW_TCAT entity.

MGWTCAT_ANSWERED_TRAFFIC

Shows the answered traffic in erlangs. This means that the traffic is counted from the beginning of the conversation phase (ANM/CONNECT ACK) till the end of the call (Release Complete). The field is updated at the end of the call. The value is represented in integers in the XML report and in decimal numbers in the ASCII report.

Data Source

MSC

Source Field

M395B2C14

Source Section

RNS_PS_MGWTCV_TCAT3_RAW

MGWTCAT_CALL_ATTEMPTS

Shows the number of call attempts. The counter is updated at the end of the call, that is, when the Release Complete message is received. A call attempt is considered only when the MGW is selected for the given category.

Data Source

MSC

Source Field

M395B2C2

Source Section

RNS_PS_MGWTCV_TCAT3_RAW

MGWTCAT_CALL_ATTEMPTS_ANSWERED

The number of call attempts that were answered, that is, the CONNECT ACK or ANM message was received. This counter is updated at the same time as the CALLS counter.

Data Source

MSC

Source Field

M395B2C4

Source Section

RNS_PS_MGWTCV_TCAT3_RAW

MGWTCAT_CALL_ATTEMPTS_RINGING

Shows the number of successful call attempts, which reached the ringing phase, that is, ALERTING or ACM/CON message is received. The counter is updated at the same time as the CALLS counter.

Data Source

MSC

Source Field

M395B2C3

Source Section

RNS_PS_MGWTCV_TCAT3_RAW

MGWTCAT_CC_GROUP1

Shows how many call attempts are terminated in the clear code group defined in the TMH command. The field is updated at the same time as the CALLS counter.

Data Source

MSC

Source Field

M395B2C5

Source Section

RNS_PS_MGWTCV_TCAT3_RAW

MGWTCAT_CC_GROUP2

Shows how many call attempts are terminated in the clear code group defined in the TMH command. The field is updated at the same time as the CALLS counter.

Data Source

MSC

Source Field

M395B2C6

Source Section

RNS_PS_MGWTCV_TCAT3_RAW

MGWTCAT_CC_GROUP3

Shows how many call attempts are terminated in the clear code group defined in the TMH command. The field is updated at the same time as the CALLS counter.

Data Source

MSC

Source Field

M395B2C7

Source Section

RNS_PS_MGWTCV_TCAT3_RAW

MGWTCAT_CC_GROUP4

Shows how many call attempts are terminated in the clear code group defined in the TMH command. The field is updated at the same time as the CALLS counter.

Data Source

MSC

Source Field

M395B2C8

Source Section

RNS_PS_MGWTCV_TCAT3_RAW

MGWTCAT_CC_GROUP5

Shows how many call attempts are terminated in the clear code group defined in the TMH command. The field is updated at the same time as the CALLS counter.

Data Source

MSC

Source Field

M395B2C9

Source Section

RNS_PS_MGWTCV_TCAT3_RAW

MGWTCAT_CC_GROUP6

Shows how many call attempts are terminated in the clear code group defined in the TMH command. The field is updated at the same time as the CALLS counter.

Data Source

MSC

Source Field

M395B2C10

Source Section

RNS_PS_MGWTCV_TCAT3_RAW

MGWTCAT_CC_GROUP7

Shows how many call attempts are terminated in the clear code group defined in the TMH command. The field is updated at the same time as the CALLS counter.

Data Source

MSC

Source Field

M395B2C11

Source Section

RNS_PS_MGWTCV_TCAT3_RAW

MGWTCAT_CC_GROUP8

Shows how many call attempts are terminated in the clear code group defined in the TMH command. The field is updated at the same time as the CALLS counter.

Data Source

MSC

Source Field

M395B2C12

Source Section

RNS_PS_MGWTCV_TCAT3_RAW

MGWTCAT_DATA_PROV_RESTARTED

Shows that the Data provider was restarted during the operation.

Data Source

MSC

Source Field

M395B3C1

Source Section

RNS_PS_MGWTCV_TCAT3_RAW

MGWTCAT_SUCCESSFUL_TRAFFIC

Shows how many call attempts are terminated in the clear code group defined in the TMH command. The field is updated at the same time as the CALLS counter.

Data Source

MSC

Source Field

M395B2C13

Source Section

RNS_PS_MGWTCV_TCAT3_RAW

MGWTCAT_TOTAL_TRAFFIC

Shows the total traffic in erlangs. The traffic is counted from the beginning of the call till the end of the call (Release Complete) in the circuit reservation (ASSIGNMENT COMPLETE/RAB ASSIGNMENT RESPONSE/IAM). The field is updated at the end of the call. It is given in integers in the XML report and in decimal numbers in the ASCII report.

Data Source

MSC

Source Field

M395B2C15

Source Section

RNS_PS_MGWTCV_TCAT3_RAW

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

VMSC Primitive Calculations

The following is a list of primitive calculations for the VMSC entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT()

NUMHOURS

of hours in Summation Data

Calculation

rg_reap

ReportGenerator Internal Count

Calculation

PERLENSEC

VMSC Peg Counts

The following is a list of peg counts for the VMSC entity.

MSCRelease

MSC Release

Data Source

MSC

PERLENSEC

Measurement collection interval (in seconds)

Data Source

MSC

VMSC_ANSTRAF

The Answer Traffic is the cumulative traffic between Answer/CONNECT ACK and Release Complete. The field is updated when MSS receives the Release Complete and is expressed in Erlang.

Data Source

MSC

Source Field

M394B2C13

Source Section

RNS_P_MEAS_VMSCT_O2

VMSC_ANSWER

This counter shows the number of answered call attempts(0...9999999). The counter is updated when the MSC Server receives the CONNECT ACK or ANSWER message.

Data Source

MSC

Source Field

M394B2C3

Source Section

RNS_P_MEAS_VMSCT_O2

VMSC_CALLS

Number of call attempts (0...9999999). This counter shows the number of call attempts (0...9999999). The counter is updated in originating call case when MSC Server receives the CM_Service_request message. In a terminating case the counter is updated when MSC Sends the SETUP message, in incoming call case it is updated when the termination to the incoming side is reserved, i.e. at the reception of the ADD_Reply command. IN an outgoing case it is updated when the termination to the outgoing side is reserved, i.e. when MSS receives the ADD Reply message from the MGW. Note that one call may be counted twice if the VMSC address in the incoming/originating side of the call is different from the outgoing/terminating side.

Data Source

MSC

Source Field

M394B2C1

Source Section

RNS_P_MEAS_VMSCT_O2

VMSC_CCGROUP1

This shows the number of call attempts (0...9999999) that has been terminated in this clear code group. The clear code group can be defined in the TMH MML command.

Data Source

MSC

Source Field

M394B2C4

Source Section

RNS_P_MEAS_VMSCT_O2

VMSC_CCGROUP2

This shows the number of call attempts (0...9999999) that has been terminated in this clear code group. The clear code group can be defined in the TMH MML command.

Data Source

MSC

Source Field

M394B2C5

Source Section

RNS_P_MEAS_VMSCT_O2

VMSC_CCGROUP3

This shows the number of call attempts (0...9999999) that has been terminated in this clear code group. The clear code group can be defined in the TMH MML command.

Data Source

MSC

Source Field

M394B2C6

Source Section

RNS_P_MEAS_VMSCT_O2

VMSC_CCGROUP4

This shows the number of call attempts (0...9999999) that has been terminated in this clear code group. The clear code group can be defined in the TMH MML command.

Data Source

MSC

Source Field

M394B2C7

Source Section

RNS_P_MEAS_VMSCT_O2

VMSC_CCGROUP5

This shows the number of call attempts (0...9999999) that has been terminated in this clear code group. The clear code group can be defined in the TMH MML command.

Data Source

MSC

Source Field

M394B2C8

Source Section

RNS_P_MEAS_VMSCT_O2

VMSC_CCGROUP6

This shows the number of call attempts (0...9999999) that has been terminated in this clear code group. The clear code group can be defined in the TMH MML command.

Data Source

MSC

Source Field

M394B2C9

Source Section

RNS_P_MEAS_VMSCT_O2

VMSC_CCGROUP7

This shows the number of call attempts (0...9999999) that has been terminated in this clear code group. The clear code group can be defined in the TMH MML command.

Data Source

MSC

Source Field

M394B2C10

Source Section

RNS_P_MEAS_VMSCT_O2

VMSC_CCGROUP8

This shows the number of call attempts (0..9999999) that has been terminated in this clear code group. The clear code group can be defined in the TMH MML command.

Data Source

MSC

Source Field

M394B2C11

Source Section

RNS_P_MEAS_VMSCT_O2

VMSC_DATA_PROV_RESTARTED

If the statistics data provider program block is restarted in any of the signalling unit(s) during the period, the M394B3C1 counter is written (with value '1') under every record. Otherwise, the counter is omitted.

Data Source

MSC

Source Field

M394B3C1

Source Section

RNS_P_MEAS_VMSCT_O2

VMSC_MO_SM_ATT

The number of mobile-originated short message sending attempts on the given virtual MSC.
Measured object: [Nickname: VMSC]

Data Source

MSC

Source Field

M394B4C1

Source Section

RNS_PS_VMSCT_VMSC1_RAW

VMSC_MO_SM_SUCC

The number of mobile-originated short messages on the given virtual MSC that were successfully delivered towards the IWMSC. Measured object: [Nickname: VMSC]

Data Source

MSC

Source Field

M394B4C2

Source Section

RNS_PS_VMSCT_VMSC1_RAW

VMSC_MT_SM_ATT

The number of mobile-terminated short message transaction attempts on the given virtual MSC. Measured object: [Nickname: VMSC]

Data Source

MSC

Source Field

M394B4C3

Source Section

RNS_PS_VMSCT_VMSC1_RAW

VMSC_MT_SM_SUCC

The number of successful mobile-terminated short messages on the given virtual MSC. Measured object: [Nickname: VMSC]

Data Source

MSC

Source Field

M394B4C4

Source Section

RNS_PS_VMSCT_VMSC1_RAW

VMSC_SUCCESS

This counter shows the number of successful call attempt i.e. the call has reached the ringing phase (0...9999999). The counter is updated when the MSC Server receives the ALERTING or ACM message.

Data Source

MSC

Source Field

M394B2C2

Source Section

RNS_P_MEAS_VMSCT_O2

VMSC_SUCCTRAF

The traffic is the cumulative time between Alerting and Release Complete. The counter is updated when the MSS receives the Release Complete message and is expressed in Erlang.

Data Source

MSC

Source Field

M394B2C12

Source Section

RNS_P_MEAS_VMSCT_O2

VMSC_TOTRAF

The field contains the cumulative traffic between ASSIGNMENT COMPLETE/RAB ASSIGNMENT RESPONSE/IAM and Release Complete message. The field is updated when MSS receives the Release Complete message and is expressed in Erlang.

Data Source

MSC

Source Field

M394B2C14

Source Section

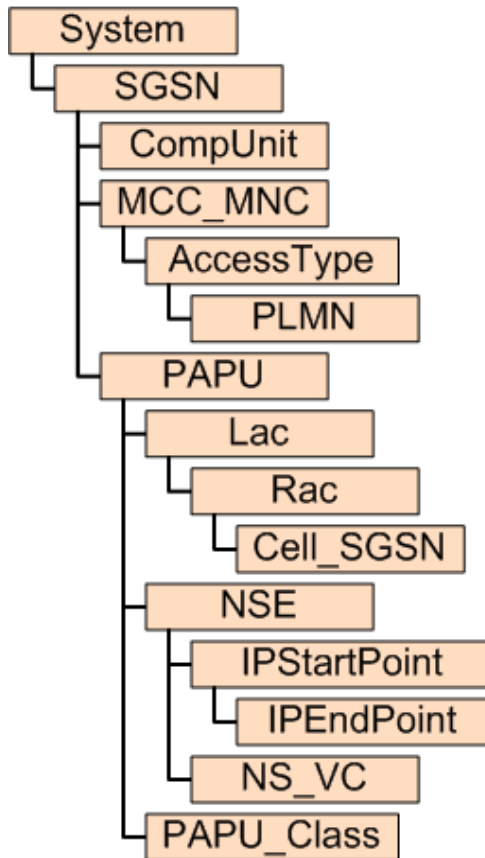
RNS_P_MEAS_VMSCT_O2

PERFORMANCE DATA REFERENCE
IBM Prospect 8.0 for Nokia GSM/GPRS

11 SGSN Traffic Entities

The following figure shows the Prospect reporting hierarchy for SGSN traffic entities.

Figure 8: Reporting Hierarchy



PERFORMANCE DATA REFERENCE
IBM Prospect 8.0 for Nokia GSM/GPRS

12 SGSN Traffic Fields

The following is a list of available SGSN Traffic performance data fields.

AccessType Primitive Calculations

The following is a list of primitive calculations for the AccessType entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

Cell_SGSN Primitive Calculations

The following is a list of primitive calculations for the Cell_SGSN entity.

Cell_SGSNGOS

Dimensioned Grade of Service

Calculation

GPRS_ATTACHMENT_SUCCESSES

GPRS Attachment Successes Rate

Calculation

$$100 * (\text{SUCC_GPRS_ATTACH} / (\text{SUCC_GPRS_ATTACH} + \text{FAIL_GPRS_ATTACH}))$$

GPRS_RETAINABILITY

GPRS Retainability

Calculation

$$100.0 * (\text{SUCC_MO_PDP_CONTEXT_DEACT} / (\text{SUCC_MO_PDP_CONTEXT_DEACT} + \text{FAIL_MO_PDP_CONTEXT_DEACT}))$$

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT()

NUMHOURS

of hours in Summation Data

Calculation

p_avg_DUR_GRPS_ATTACH

Average numbers of event duration for GRPS Attach procedure.

Calculation

$$\text{DUR_GRPS_ATTACH_SUM} / \text{DUR_GRPS_ATTACH_DEN}$$

p_avg_DUR_INTER_PAPU_3G2G

Average numbers of duration for inter PAPU 3G to 2G inter system handover procedure.

Calculation

$DUR_INTER_PAPU_3G2G_SUM / DUR_INTER_PAPU_3G2G_DEN$

p_avg_DUR_INTER_PAPU_3G2G_W_I

Average numbers of duration for inter PAPU 3G to 2G inter system handover with IMSI attach procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Calculation

$DUR_INTER_PAPU_3G2G_W_I_SUM / DUR_INTER_PAPU_3G2G_W_I_DEN$

p_avg_DUR_INTER_PAPU_RA_LA_3G2G

Average numbers of duration for combined inter PAPU 3G to 2G inter system handover procedure.

Calculation

$DUR_INTER_PAPU_RA_LA_3G2G_SUM / DUR_INTER_PAPU_RA_LA_3G2G_DEN$

p_avg_DUR_INTER_PAPU_RA_W_IMSI

Average numbers of duration for Inter PAPU RA Update with IMSI Attach procedure.

Calculation

$DUR_INTER_PAPU_RA_W_IMSI_SUM / DUR_INTER_PAPU_RA_W_IMSI_DEN$

p_avg_DUR_INTER_PAPU_RAU

Average numbers of duration for Inter PAPU RA Update procedure.

Calculation

$DUR_INTER_PAPU_RAU_SUM / DUR_INTER_PAPU_RAU_DEN$

p_avg_DUR_INTER_SGSN_RA_W_IMSI

Average numbers of duration for Inter SGSN RA Update with IMSI Attach procedure.

Calculation

$DUR_INTER_SGSN_RA_W_IMSI_SUM / DUR_INTER_SGSN_RA_W_IMSI_DEN$

p_avg_DUR_INTER_SGSN_RAU

Average numbers of duration for Inter SGSN RA Update procedure.

Calculation

$DUR_INTER_SGSN_RAU_SUM / DUR_INTER_SGSN_RAU_DEN$

p_avg_DUR_INTRA_PAPU_3G2G

Average numbers of duration for intra PAPU 3G to 2G inter system handover procedure.

Calculation

$$\text{DUR_INTRA_PAPU_3G2G_SUM} / \text{DUR_INTRA_PAPU_3G2G_DEN}$$

p_avg_DUR_INTRA_PAPU_3G2G_W_I

Average numbers of duration for intra PAPU 3G to 2G inter system handover with IMSI attach procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Calculation

$$\text{DUR_INTRA_PAPU_3G2G_W_I_SUM} / \text{DUR_INTRA_PAPU_3G2G_W_I_DEN}$$

p_avg_DUR_INTRA_PAPU_RA_LA_3G2G

Average numbers of duration for combined intra PAPU 3G to 2G inter system handover procedure.

Calculation

$$\text{DUR_INTRA_PAPU_RA_LA_3G2G_SUM} / \text{DUR_INTRA_PAPU_RA_LA_3G2G_DEN}$$

p_avg_DUR_INTRA_PAPU_RA_W_IMSI

Average numbers of duration for Intra PAPU RA Update with IMSI Attach procedure.

Calculation

$$\text{DUR_INTRA_PAPU_RA_W_IMSI_SUM} / \text{DUR_INTRA_PAPU_RA_W_IMSI_DEN}$$

p_avg_DUR_INTRA_PAPU_RAU

Average numbers of duration for Intra PAPU RAU procedure.

Calculation

$$\text{DUR_INTRA_PAPU_RAU_SUM} / \text{DUR_INTRA_PAPU_RAU_DEN}$$

p_avg_DUR_MO_PDP_DEACT

Average numbers of duration for MO PDP Context deactivation. Duration is calculated in Session Management and it is the time between Deactivate PDP Context Request and Deactivate PDP Context Resp Cessages.

Calculation

$$\text{DUR_MO_PDP_DEACT_SUM} / \text{SUCC_MO_PDP_CONTEXT_DEACT}$$

p_avg_DUR_MO_PDP_MOD

Average numbers of duration for MO PDP Context modification. Duration is calculated in Session Management and it is the time between Modify PDP Context Request and Modify PDP Context Accept messages.

Calculation

$$\text{DUR_MO_PDP_MOD_SUM} / \text{SUCC_PDP_MODIFY_BY_MS}$$

p_avg_DUR_PERIODICAL_RAU

Average numbers of duration for Periodical RA Update procedure.

Calculation

$$\text{DUR_PERIODICAL_RAU_SUM} / \text{DUR_PERIODICAL_RAU_DEN}$$

p_avg_DURATION_OF_SUCC_MO_SMS

Average numbers of duration for MO SMS. Duration is the time spent in SGSN Session Management.

Calculation

$$\text{DURATION_OF_SUCC_MO_SMS_SUM} / \text{SUCCESSFULLY_SENT_MO_SMS}$$

p_avg_DURATION_OF_SUCC_MT_SMS

Average numbers of duration for MT SMS. Duration is the time spent in SGSN Session Management.

Calculation

$$\text{DURATION_OF_SUCC_MT_SMS_SUM} / \text{SUCCESSFULLY_RECEIVED_MT_SMS}$$

p_avg_LLC_FRAMES_BSSGQUEUE

Average numbers of number of LLC Frames waiting in BSSGB Queue.

Calculation

$$\text{LLC_FRAMES_BSSGP_QUEUE_SUM} / \text{LLC_FRAMES_BSSGP_QUEUE_DEN}$$

p_avg_RTT_DUR_ATTACH

Average numbers of round trip time duration for Gb attach procedure.

Calculation

$$\text{RTT_DUR_ATTACH_SUM} / \text{RTT_DUR_ATTACH_DEN}$$

p_avg_RTT_DUR_AUTH

Average numbers of round trip time duration for authentication in all procedures.

Calculation

$RTT_DUR_AUTH_SUM / RTT_DUR_AUTH_DEN$

p_avg_RTT_DUR_IDENTITY

Average numbers of round trip time duration for identity check in all procedures.

Calculation

$RTT_DUR_IDENTITY_SUM / RTT_DUR_IDENTITY_DEN$

p_avg_RTT_DUR_RAU

Average numbers of round trip time duration for Gb attach procedure.

Calculation

$RTT_DUR_RAU_SUM / RTT_DUR_RAU_DEN$

p_avg_RTT_DUR_XID_RESET

Average numbers of round trip time duration for XID reset.

Calculation

$RTT_DUR_XID_RESET_SUM / RTT_DUR_XID_RESET_DEN$

p_avg_SUCC_MO_PDP_CONTEXT_ACT

Average of succ mobile- originated PDP context activations

Calculation

$DUR_MO_PDP_ACT_SUM / SUCC_MO_PDP_CONTEXT_ACT$

SUCC_GPRS_ATT_PERCENT

Successful GPRS attach in percent

Calculation

$SUCC_GPRS_ATTACH * 100.0 / vsum(SUCC_GPRS_ATTACH, FAIL_GPRS_ATTACH)$

SUCC_IMSI_ATTACH_PERCENT

Successful GPRS attach in percent

Calculation

$SUCC_IMSI_ATTACH * 100.0 / vsum(SUCC_IMSI_ATTACH, FAIL_IMSI_ATTACH)$

SUCC_INTER_PAPU_RA_UPDAT_PERCENT

Succ inter-PAPU RA updates in percent

Calculation

```
SUCC_INTER_PAPU_RA_UPDAT * 100.0 /  
vsum(SUCC_INTER_PAPU_RA_UPDAT, FAIL_INTER_PAPU_RA_UPDAT)
```

SUCC_INTER_SGSN_RA_LA_UPDAT_PERCENT

Succ inter-SGSN combined RA/LA updates in percent

Calculation

```
SUCC_INTER_SGSN_RA_LA_UPDAT * 100.0 /  
vsum(SUCC_INTER_SGSN_RA_LA_UPDAT, FAIL_INTER_SGSN_RA_LA_UPDAT)
```

SUCC_INTRA_PAPU_RA_UPDAT_PERCENT

Nr of succ intra-PAPU combined LA/RA updates in percent

Calculation

```
SUCC_INTRA_PAPU_RA_UPDAT * 100.0 /  
vsum(SUCC_INTRA_PAPU_RA_UPDAT, FAIL_INTRA_PAPU_RA_UPDAT)
```

Cell_SGSN Peg Counts

The following is a list of peg counts for the Cell_SGSN entity.

BSSGP_PASSED_DATA_IN_BYTES

Amount of passed BSSGP MS- BVC flow control data in bytes

Data Source

SGSN

Source Field

10001

Source Section

P_SGSN_CELL_DATA

COMB_ATTACH_FAIL_LA_NA

No. of combined attach attempts on the PS side that failed because the LA is not allowed.
Attach cannot be accepted by the network for GPRS or non-GPRS services.

Data Source

SGSN

Source Field

1075

Source Section

P_SGSN_MOBILITY_MANAGEMENT

COMB_ATTACH_FAIL_PLMN_NA

Number of combined attach attempts on the PS side that failed because the PLMN is not allowed. Attach cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1074

Source Section

P_SGSN_MOBILITY_MANAGEMENT

COMB_ATTACH_FAIL_PROT_ERROR

Number of combined attach attempts on the PS side that failed due to a protocol error. Attach cannot be accepted by the network either for GPRS or for GPRS services.

Data Source

SGSN

Source Field

1077

Source Section

P_SGSN_MOBILITY_MANAGEMENT

COMB_ATTACH_FAIL_ROAMING_NA

No. of comb attach attempts on PS side that failed because roaming isnt allowed in this LA. Attach cannot be accepted by the network either for GPRS or non-GPRS services.

Data Source

SGSN

Source Field

1076

Source Section

P_SGSN_MOBILITY_MANAGEMENT

COMB_ATTACH_SUCC_IN_PS_SIDE

Number of failed combined attach attempts on the CS side. Attach is successful for GPRS services only. [3GPP TS 24.008] This counter covers all CS side cause codes.

Data Source

SGSN

Source Field

1073

Source Section

P_SGSN_MOBILITY_MANAGEMENT

CUM_NBR_OF_INAC_ALWAYS_ON_SUBS

Cumulative number of subscribers which are noticed to be "inactive reattached always-online" type.

Data Source

SGSN

Source Field

1186

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DISCARDED_DATA_BY_BSSGP

Amount of BSSGP MS-BVC flow control discarded data in bytes

Data Source

SGSN

Source Field

10000

Source Section

P_SGSN_CELL_DATA

DUR_COMB_ATTACH_MAX

Maximum event duration for Combined Attach procedure. Duration is calculated in Mobility Management and it is the time between Attach Request and AttachAccept messages.

Data Source

SGSN

Source Field

1194

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_COMB_ATTACH_MIN

Minimum event duration for Combined Attach procedure. Duration is calculated in Mobility Management and it is the time between Attach Request and AttachAccept messages.

Data Source

SGSN

Source Field

1193

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_COMB_ATTACH_SUM

Sum of samples of event duration for Combined Attach procedure. Duration is calculated in Mobility Management and it is the time between Attach Request and Attach Accept messages.

Data Source

SGSN

Source Field

1195

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_COMB_DETACH_MAX

Maximum event duration for Combined Detach procedure. Duration is calculated in Mobility Management and it is the time between Detach Request and DetachAccept messages.

Data Source

SGSN

Source Field

1200

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_COMB_DETACH_MIN

Minimum event duration for Combined Detach procedure. Duration is calculated in Mobility Management and it is the time between Detach Request and DetachAccept messages.

Data Source

SGSN

Source Field

1199

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_COMB_DETACH_SUM

Sum of samples of event duration for Combined Detach procedure. Duration is calculated in Mobility Management and it is the time between Detach Request and Detach Accept messages.

Data Source

SGSN

Source Field

1201

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_GPRS_DETACH_MAX

Maximum event duration for GPRS Detach procedure. Duration is calculated in Mobility Management and it is the time between Detach Request and DetachAccept messages.

Data Source

SGSN

Source Field

1197

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_GPRS_DETACH_MIN

Minimum event duration for GPRS Detach procedure. Duration is calculated in Mobility Management and it is the time between Detach Request and DetachAccept messages.

Data Source

SGSN

Source Field

1196

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_GPRS_DETACH_SUM

Sum of samples of event duration for GPRS Detach procedure. Duration is calculated in Mobility Management and it is the time between Detach Request and Detach Accept messages.

Data Source

SGSN

Source Field

1198

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_GRPS_ATTACH_DEN

Number of samples of event duration for GRPS Attach procedure. Duration is calculated in Mobility Management and it is the time between Attach Request and Attach Accept messages

Data Source

SGSN

Source Field

1192

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_GRPS_ATTACH_MAX

Maximum event duration for GRPS Attach procedure. Duration is calculated in Mobility Management and it is the time between Attach Request and Attach Accept messages.

Data Source

SGSN

Source Field

1190

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_GRPS_ATTACH_MIN

Minimum event duration for GRPS Attach procedure. Duration is calculated in Mobility Management and it is the time between Attach Request and Attach Accept messages.

Data Source

SGSN

Source Field

1189

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_GRPS_ATTACH_SUM

Sum of samples of event duration for GRPS Attach procedure. Duration is calculated in Mobility Management and it is the time between Attach Request and Attach Accept messages.

Data Source

SGSN

Source Field

1191

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_PAPU_3G2G_DEN

Number of samples of duration for inter PAPU 3G to 2G inter system handover procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Data Source

SGSN

Source Field

1393

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_PAPU_3G2G_MAX

Maximum event duration for inter PAPU 3G to 2G inter system handover procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Data Source

SGSN

Source Field

1391

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_PAPU_3G2G_MIN

Minimum event duration for inter PAPU 3G to 2G inter system handover procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Data Source

SGSN

Source Field

1390

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_PAPU_3G2G_SUM

Sum of samples of duration for inter PAPU 3G to 2G inter system handover procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Data Source

SGSN

Source Field

1392

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_PAPU_3G2G_W_I_DEN

Number of samples of duration for inter PAPU 3G to 2G inter system handover with IMSI attach procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Data Source

SGSN

Source Field

1397

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_PAPU_3G2G_W_I_MAX

Maximum event duration for inter PAPU 3G to 2G inter system handover with IMSI attach procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Data Source

SGSN

Source Field

1395

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_PAPU_3G2G_W_I_MIN

Minimum event duration for inter PAPU 3G to 2G inter system handover with IMSI attach procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Data Source

SGSN

Source Field

1394

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_PAPU_3G2G_W_I_SUM

Sum of samples of duration for inter PAPU 3G to 2G inter system handover with IMSI attach procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Data Source

SGSN

Source Field

1396

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_PAPU_RA_LA_3G2G_DEN

Number of samples of duration for combined inter PAPU 3G to 2G inter system handover procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Data Source

SGSN

Source Field

1401

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_PAPU_RA_LA_3G2G_MAX

Maximum event duration for combined inter PAPU 3G to 2G inter system handover procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Data Source

SGSN

Source Field

1399

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_PAPU_RA_LA_3G2G_MIN

Minimum event duration for combined inter PAPU 3G to 2G inter system handover procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Data Source

SGSN

Source Field

1398

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_PAPU_RA_LA_3G2G_SUM

DUR_INTER_PAPU_RA_LA_3G2G_SUM

Data Source

SGSN

Source Field

1400

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_PAPU_RA_LA_MAX

Maximum duration for Combined Inter PAPU RA/LA Update procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1214

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_PAPU_RA_LA_MIN

Minimum duration for Combined Inter PAPU RA/LA Update procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1213

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_PAPU_RA_LA_SUM

Sum of samples of duration for Combined Inter PAPU RA/LA Update procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1215

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_PAPU_RA_W_IMSI_DEN

Number of samples of duration for Inter PAPU RA Update with IMSI Attach procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1237

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_PAPU_RA_W_IMSI_MAX

Maximum duration for Inter PAPU RA Update with IMSI Attach procedure. Duration is calculated in Mobility Management and it is the time between RAURequest and RAU Accept messages.

Data Source

SGSN

Source Field

1235

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_PAPU_RA_W_IMSI_MIN

Minimum duration for Inter PAPU RA Update with IMSI Attach procedure. Duration is calculated in Mobility Management and it is the time between RAURequest and RAU Accept messages.

Data Source

SGSN

Source Field

1234

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_PAPU_RA_W_IMSI_SUM

Sum of samples of duration for Inter PAPU RA Update with IMSI Attach procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1236

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_PAPU_RAU_DEN

Number of samples of duration for Inter PAPU RA Update procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1212

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_PAPU_RAU_MAX

Maximum duration for Inter PAPU RA Update procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1210

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_PAPU_RAU_MIN

Minimum duration for Inter PAPU RA Update procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1209

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_PAPU_RAU_SUM

Sum of samples of duration for Inter PAPU RA Update procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1211

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_SGSN_RA_LA_MAX

Maximum duration for Combined Inter SGSN RA/LA Update procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1221

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_SGSN_RA_LA_MIN

Minimum duration for Combined Inter SGSN RA/LA Update procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1220

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_SGSN_RA_LA_SUM

Sum of samples of duration for Combined Inter SGSN RA/LA Update procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1222

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_SGSN_RA_W_IMSI_DEN

Number of samples of duration for Inter SGSN RA Update with IMSI Attach procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1241

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_SGSN_RA_W_IMSI_MAX

Maximum duration for Inter SGSN RA Update with IMSI Attach procedure. Duration is calculated in Mobility Management and it is the time between RAURequest and RAU Accept messages.

Data Source

SGSN

Source Field

1239

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_SGSN_RA_W_IMSI_MIN

Minimum duration for Inter SGSN RA Update with IMSI Attach procedure. Duration is calculated in Mobility Management and it is the time between RAURequest and RAU Accept messages.

Data Source

SGSN

Source Field

1238

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_SGSN_RA_W_IMSI_SUM

Sum of samples of duration for Inter SGSN RA Update with IMSI Attach procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1240

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_SGSN_RAU_DEN

Number of samples of duration for Inter SGSN RA Update procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1219

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_SGSN_RAU_MAX

Maximum duration for Inter SGSN RA Update procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1217

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_SGSN_RAU_MIN

Minimum duration for Inter SGSN RA Update procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1216

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTER_SGSN_RAU_SUM

Sum of samples of duration for Inter SGSN RA Update procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1218

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTRA_PAPU_3G2G_DEN

Number of samples of duration for intra PAPU 3G to 2G inter system handover procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Data Source

SGSN

Source Field

1381

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTRA_PAPU_3G2G_MAX

Maximum event duration for intra PAPU 3G to 2G inter system handover procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Data Source

SGSN

Source Field

1379

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTRA_PAPU_3G2G_MIN

Minimum event duration for intra PAPU 3G to 2G inter system handover procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Data Source

SGSN

Source Field

1378

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTRA_PAPU_3G2G_SUM

Sum of samples of duration for intra PAPU 3G to 2G inter system handover procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Data Source

SGSN

Source Field

1380

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTRA_PAPU_3G2G_W_I_DEN

Number of samples of duration for intra PAPU 3G to 2G inter system handover with IMSI attach procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Data Source

SGSN

Source Field

1385

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTRA_PAPU_3G2G_W_I_MAX

Maximum event duration for intra PAPU 3G to 2G inter system handover with IMSI attach procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Data Source

SGSN

Source Field

1383

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTRA_PAPU_3G2G_W_I_MIN

Minimum event duration for intra PAPU 3G to 2G inter system handover with IMSI attach procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Data Source

SGSN

Source Field

1382

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTRA_PAPU_3G2G_W_I_SUM

Sum of samples of duration for intra PAPU 3G to 2G inter system handover with IMSI attach procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Data Source

SGSN

Source Field

1384

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTRA_PAPU_RA_LA_3G2G_DEN

Number of samples of duration for combined intra PAPU 3G to 2G inter system handover procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Data Source

SGSN

Source Field

1389

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTRA_PAPU_RA_LA_3G2G_MAX

Maximum event duration for combined intra PAPU 3G to 2G inter system handover procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Data Source

SGSN

Source Field

1387

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTRA_PAPU_RA_LA_3G2G_MIN

Minimum event duration for combined intra PAPU 3G to 2G inter system handover procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Data Source

SGSN

Source Field

1386

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTRA_PAPU_RA_LA_3G2G_SUM

Sum of samples of duration for combined intra PAPU 3G to 2G inter system handover procedure. Duration is calculated in Mobility Management and it is the time between ISHO Request and ISHO Accept messages.

Data Source

SGSN

Source Field

1388

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTRA_PAPU_RA_LA_MAX

Maximum duration for Combined Intra PAPU RA/LA Update procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1207

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTRA_PAPU_RA_LA_MIN

Minimum duration for Combined Intra PAPU RA/LA Update procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1206

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTRA_PAPU_RA_LA_SUM

Sum of samples of duration for Combined Intra PAPU RA/LA Update procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1208

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTRA_PAPU_RA_W_IMSI_DEN

Number of samples of duration for Intra PAPU RA Update with IMSI Attach procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1233

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTRA_PAPU_RA_W_IMSI_MAX

Maximum duration for Intra PAPU RA Update with IMSI Attach procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1231

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTRA_PAPU_RA_W_IMSI_MIN

Minimum duration for Intra PAPU RA Update with IMSI Attach procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1230

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTRA_PAPU_RA_W_IMSI_SUM

Sum of samples of duration for Intra PAPU RA Update with IMSI Attach procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1232

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTRA_PAPU_RAU_DEN

Number of samples of duration for Intra PAPU RAU procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1205

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTRA_PAPU_RAU_MAX

Maximum duration for Intra PAPU RAU procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1203

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTRA_PAPU_RAU_MIN

Minimum duration for Intra PAPU RAU procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1202

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_INTRA_PAPU_RAU_SUM

Sum of samples of duration for Intra PAPU RAU procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages.

Data Source

SGSN

Source Field

1204

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_MO_PDP_ACT_MAX

Maximum duration for MO PDP Context activation. Duration is calculated in Session Management and it is the time between Activate PDP Context Request and Activate PDP Context Accept messages.

Data Source

SGSN

Source Field

2083

Source Section

P_SGSN_SESSION_MANAGEMENT

DUR_MO_PDP_ACT_MIN

Minimum duration for MO PDP Context activation. Duration is calculated in Session Management and it is the time between Activate PDP Context Request and Activate PDP Context Accept messages.

Data Source

SGSN

Source Field

2082

Source Section

P_SGSN_SESSION_MANAGEMENT

DUR_MO_PDP_ACT_SUM

Sum of samples of duration for MO PDP Context activation. Duration is calculated in Session Management and it is the time between Activate PDP Context Request and Activate PDP Context Accept messages. Counter 2000 is used as denominator when calculating average value.

Data Source

SGSN

Source Field

2084

Source Section

P_SGSN_SESSION_MANAGEMENT

DUR_MO_PDP_DEACT_MAX

Maximum duration for MO PDP Context deactivation. Duration is calculated in Session Management and it is the time between Deactivate PDP Context Request and Deactivate PDP Context Resp messages.

Data Source

SGSN

Source Field

2089

Source Section

P_SGSN_SESSION_MANAGEMENT

DUR_MO_PDP_DEACT_MIN

Minimum duration for MO PDP Context deactivation. Duration is calculated in Session Management and it is the time between Deactivate PDP Context Request and Deactivate PDP Context Resp messages.

Data Source

SGSN

Source Field

2088

Source Section

P_SGSN_SESSION_MANAGEMENT

DUR_MO_PDP_DEACT_SUM

Sum of samples of duration for MO PDP Context deactivation. Duration is calculated in Session Management and it is the time between Deactivate PDP Context Request and Deactivate PDP Context Resp Messages. Counter 2004 is used as denominator when calculating average value.

Data Source

SGSN

Source Field

2090

Source Section

P_SGSN_SESSION_MANAGEMENT

DUR_MO_PDP_MOD_MAX

Maximum duration for MO PDP Context modification. Duration is calculated in Session Management and it is the time between Modify PDP Context Request and Modify PDP Context Accept messages.

Data Source

SGSN

Source Field

2086

Source Section

P_SGSN_SESSION_MANAGEMENT

DUR_MO_PDP_MOD_MIN

Minimum duration for MO PDP Context modification. Duration is calculated in Session Management and it is the time between Modify PDP Context Request and Modify PDP Context Accept messages.

Data Source

SGSN

Source Field

2085

Source Section

P_SGSN_SESSION_MANAGEMENT

DUR_MO_PDP_MOD_SUM

Sum of samples of duration for MO PDP Context modification. Duration is calculated in Session Management and it is the time between Modify PDP Context Request and Modify PDP Context Accept messages. Counter 2107 is used as denominator when calculating average value.

Data Source

SGSN

Source Field

2087

Source Section

P_SGSN_SESSION_MANAGEMENT

DUR_PERIODICAL_RA_LA_MAX

Maximum duration for Periodical RA/LA Update procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages

Data Source

SGSN

Source Field

1228

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_PERIODICAL_RA_LA_MIN

Minimum duration for Periodical RA/LA Update procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages

Data Source

SGSN

Source Field

1227

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_PERIODICAL_RA_LA_SUM

Sum of samples of duration for Periodical RA/LA Update procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages

Data Source

SGSN

Source Field

1229

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_PERIODICAL_RAU_DEN

Number of samples of duration for Periodical RA Update procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages

Data Source

SGSN

Source Field

1226

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_PERIODICAL_RAU_MAX

Maximum duration for Periodical RA Update procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages

Data Source

SGSN

Source Field

1224

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_PERIODICAL_RAU_MIN

Minimum duration for Periodical RA Update procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages

Data Source

SGSN

Source Field

1223

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DUR_PERIODICAL_RAU_SUM

Sum of samples of duration for Periodical RA Update procedure. Duration is calculated in Mobility Management and it is the time between RAU Request and RAU Accept messages

Data Source

SGSN

Source Field

1225

Source Section

P_SGSN_MOBILITY_MANAGEMENT

DURATION_OF_SUCC_MO_SMS_MAX

Maximum duration for MO SMS. Duration is the time spent in SGSN Session Management

Data Source

SGSN

Source Field

9011

Source Section

P_SGSN_SMS

DURATION_OF_SUCC_MO_SMS_MIN

Minimum duration for MO SMS. Duration is the time spent in SGSN Session Management

Data Source

SGSN

Source Field

9010

Source Section

P_SGSN_SMS

DURATION_OF_SUCC_MO_SMS_SUM

Sum of samples of duration for MO SMS. Duration is the time spent in SGSN Session Management. Counter 009000 is used as denominator when calculating average value.

Data Source

SGSN

Source Field

9012

Source Section

P_SGSN_SMS

DURATION_OF_SUCC_MT_SMS_MAX

Maximum duration for MT SMS. Duration is the time spent in SGSN Session Management.

Data Source

SGSN

Source Field

9014

Source Section

P_SGSN_SMS

DURATION_OF_SUCC_MT_SMS_MIN

Minimum duration for MT SMS. Duration is the time spent in SGSN Session Management.

Data Source

SGSN

Source Field

9013

Source Section

P_SGSN_SMS

DURATION_OF_SUCC_MT_SMS_SUM

Sum of samples of duration for MT SMS. Duration is the time spent in SGSN Session Management. Counter 009001 is used as denominator when calculating average value.

Data Source

SGSN

Source Field

9015

Source Section

P_SGSN_SMS

FAIL_CAMEL_SERVICE

The MS has attached but due to a CAP error situation or SCP refusal the SCP does not control the GPRS session.

Data Source

SGSN

Source Field

1053

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_COMB_ATTACH_22

Number of combined attach attempts rejected by the network because of congestion. Cause value #22: congestion.

Data Source

SGSN

Source Field

1315

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_COMB_ATTACH_COLLISIONS

Number of protocol errors that have happened due to collision errors.

Data Source

SGSN

Source Field

1293

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_COMB_ATTACH_DUE_MS_ERR

Number of protocol errors that have happened due to an MS error.

Data Source

SGSN

Source Field

1289

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_COMB_ATTACH_DUE_RADIO_ERR

Number of protocol errors that have happened due to radio network errors.

Data Source

SGSN

Source Field

1290

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_COMB_ATTACH_DUE_SGSN_ERR

Number of protocol errors that have happened due to SGSN network

Data Source

SGSN

Source Field

1291

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_COMB_ATTACH_GEN

Number of Combined attach attempts that has failed due to any reason.

Data Source

SGSN

Source Field

1245

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_COMB_ATTACH_HLR_VLR_ERR

Number of protocol errors that have happened due HLR or VLR network errors.

Data Source

SGSN

Source Field

1292

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_COMB_ATTACH_ILLEGAL_ME

Number of failed combined attach attempts due to an illegal ME.

Data Source

SGSN

Source Field

1060

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_COMB_ATTACH_ILLEGAL_MS

Number of failed combined attach attempts due to an illegal MS.

Data Source

SGSN

Source Field

1057

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_COMB_ATTACH_NET_FAILURE

Nr of failed combined attach attempts due to a network failure

Data Source

SGSN

Source Field

1049

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_COMB_ATTACH_NO_CELL_IN_LA

Number of failed combined attach attempts due to the fact that there are no suitable cells in the location area.

Data Source

SGSN

Source Field

1067

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_COMB_ATTACH_SER_NA_PLMN

Number of failed combined attach attempts due to the fact that GPRS services are not allowed in this PLMN.

Data Source

SGSN

Source Field

1065

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_COMB_ATTACH_SER_NONSER_NA

Number of failed combined attach attempts due to the fact that GPRS services and non-GPRS services are not allowed.

Data Source

SGSN

Source Field

1063

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_COMB_ATTACH_SIM_NOT_PROV

Nr of fail combined attach att. SIM that is not provisioned for GPRS service

Data Source

SGSN

Source Field

1048

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_COMBINED_ATTACH

Nr of failed combined GPRS/IMSI attach attempts.

Data Source

SGSN

Source Field

1003

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_DEACT_SE_CHANGE_BY_HLR

Failed PDP context deactivation due PDP type or APN changed by the HLR. The PDP context is removed from the SGSN, but the information that the PDP context has been deleted has not reached all the other network elements.

Data Source

SGSN

Source Field

2130

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_DEACT_SE_GGSN_INIT_MOD

FAIL PDP DEACT SERVICE DUE GGSN INIT MOD OR DELETION OF NON EXISTING PDP

Data Source

SGSN

Source Field

2133

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_DEACT_SE_LLC_SNDP_DEACT

Failed PDP context deactivation due LLC/SNDP originated pdp contextdeactivation. The PDP context is removed from the SGSN, but the information that the PDP context has been deleted has not reached all the other network elements.

Data Source

SGSN

Source Field

2131

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_DEACT_SE_MO_DETACH_RAU

Failed PDP context deactivation due MO detach or outgoing RAU. The PDPcontext is removed from the SGSN, but the information that the PDP context has been deleted has not reached all the other network elements.

Data Source

SGSN

Source Field

2129

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_DEACT_SE_SCP_DEACT

Failed PDP context deactivation when SCP deactivates PDP context. ThePDP context is removed from the SGSN, but the information that the PDP context has been deleted has not reached all the other network elements.

Data Source

SGSN

Source Field

2132

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_DEACT_SE_SCP_INIT_MOD

Failed PDP context deactivation when SCP initiated deletion of non-existing PDP context. The PDP context is removed from the SGSN, but the information that the PDP context has been deleted has not reached all the other network elements.

Data Source

SGSN

Source Field

2134

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_GPRS_ATTACH

Nr of failed GPRS attach attempts.

Data Source

SGSN

Source Field

1001

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_GPRS_ATTACH_22

Number of GPRS attach attempts rejected by the network because of congestion. Cause value #22: congestion.

Data Source

SGSN

Source Field

1314

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_GPRS_ATTACH_COLLISIONS

Number of protocol errors that have happened due to a collision error

Data Source

SGSN

Source Field

1018

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_GPRS_ATTACH_DUE_MS_ERR

Number of protocol errors that have happened due to an MS error

Data Source

SGSN

Source Field

1006

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_GPRS_ATTACH_DUE_RADIO_ERR

Number of protocol errors that have happened due radio network errors

Data Source

SGSN

Source Field

1011

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_GPRS_ATTACH_DUE_SGSN_ERR

Number of protocol errors that have happened due to an SGSN network error

Data Source

SGSN

Source Field

1012

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_GPRS_ATTACH_GEN

Number of GPRS attach attempts that has failed due to any reason.

Data Source

SGSN

Source Field

1244

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_GPRS_ATTACH_HLR_VLR_ERR

Number of protocol errors that have happened due to HLR or VLR network errors

Data Source

SGSN

Source Field

1017

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_GPRS_ATTACH_ILLEGAL_ME

Number of failed GPRS attach attempts due to an illegal ME.

Data Source

SGSN

Source Field

1059

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_GPRS_ATTACH_ILLEGAL_MS

Number of failed GPRS attach attempts due to an illegal MS.

Data Source

SGSN

Source Field

1056

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_GPRS_ATTACH_NET_FAILURE

Nr of failed GPRS attach attempts due to a network failure. Peg retired

Data Source

SGSN

Source Field

1047

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_GPRS_ATTACH_NO_CELL_IN_LA

Number of failed GPRS attach attempts due to the fact that there are no suitable cells in the location area.

Data Source

SGSN

Source Field

1066

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_GPRS_ATTACH_SER_NA_PLMN

Number of failed GPRS attach attempts due to the fact that GPRS services are not allowed in this PLMN.

Data Source

SGSN

Source Field

1064

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_GPRS_ATTACH_SER_NONSER_NA

Number of failed GPRS attach attempts due to the fact that GPRS services and non-GPRS services are not allowed.

Data Source

SGSN

Source Field

1062

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_GPRS_ATTACH_SIM_NOT_PROV

Nr of failed GPRS attach attempts

Data Source

SGSN

Source Field

1046

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_IMPL_DEACT_GGSN_NO_ANSWER

Failed implicit deactivation due to GGSN not answering. The PDP context is removed from the SGSN, but the information that the PDP context has been deleted has not reached all the other network elements.

Data Source

SGSN

Source Field

2122

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_IMPL_DEACT_INTERNAL_ERROR

Failed implicit deactivation due to internal program block in SGSN does not answer. The PDP context is removed from the SGSN, but the information that the PDP context has been deleted has not reached all the other network elements.

Data Source

SGSN

Source Field

2124

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_IMPL_DEACT_SCP_NO_ANSWER

Failed implicit deactivation due to SCP not answering. The PDP context is removed from the SGSN, but the information that the PDP context has been deleted has not reached all the other network elements.

Data Source

SGSN

Source Field

2123

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_IMPL_PDP_CONTEXT_DEACT

Nr of failed implicit PDP context deactivation attempts

Data Source

SGSN

Source Field

2015

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_IMSI_ATTACH

Nr of failed IMSI attach attempts.

Data Source

SGSN

Source Field

1005

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_IMSI_ATTACH__NET_FAILURE

Nr of failed INMSI attach attempts due to a network failure

Data Source

SGSN

Source Field

1051

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_IMSI_ATTACH_ILLEGAL_ME

Number of failed IMSI attach attempts due to an illegal ME.

Data Source

SGSN

Source Field

1061

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_IMSI_ATTACH_ILLEGAL_MS

Number of failed IMSI attach attempts due to an illegal MS.

Data Source

SGSN

Source Field

1058

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_IMSI_ATTACH_NO_CELL_IN_LA

Number of failed IMSI attach attempts due to the fact that there are no suitable cells in the location area.

Data Source

SGSN

Source Field

1068

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_IMSI_ATTACH_SIM_NOT_PROV

Nr of fail IMSI attach attempts. SIM that is not provisioned for GPRS service. Peg retired

Data Source

SGSN

Source Field

1050

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INT_PAPU_PDP_CON_REACT_IN

Number of PDP context reactivation attempts rejected by the SCP when the PDP context is transferred to a new unit in a routing area update.

Data Source

SGSN

Source Field

2017

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_INTER_PAPU_3G2G_COLL

Number of inter PAPU 3G to 2G inter system hand over protocol errors that failed because of collision.

Data Source

SGSN

Source Field

1367

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_PAPU_3G2G_MS

Number of inter PAPU 3G to 2G inter system hand over protocol errors that failed because of MS error.

Data Source

SGSN

Source Field

1364

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_PAPU_3G2G_RADIO

Number of inter PAPU 3G to 2G inter system hand over protocol errors that failed because of radio network error.

Data Source

SGSN

Source Field

1365

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_PAPU_3G2G_SGSN

Number of inter PAPU 3G to 2G inter system hand over protocol errors that failed because of SGSN network error.

Data Source

SGSN

Source Field

1366

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_PAPU_RA_LA_22

Number of inter-PAPU combined RA and LA update procedures on the PS side that failed due congestion. The procedure cannot be accepted by the network either for GPRS or non-GPRS services. Cause value #22: congestion.

Data Source

SGSN

Source Field

1319

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_PAPU_RA_LA_COLL

Number of inter PAPU RA&LA update protocol errors that failed because of collision.

Data Source

SGSN

Source Field

1350

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_PAPU_RA_LA_MS

Number of inter PAPU RA&LA update protocol errors that failed because of MS error.

Data Source

SGSN

Source Field

1347

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_PAPU_RA_LA_RADIO

Number of inter PAPU RA&LA update protocol errors that failed because of radio network error.

Data Source

SGSN

Source Field

1348

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_PAPU_RA_LA_SGSN

Number of inter PAPU RA&LA update protocol errors that failed because of SGSN network error.

Data Source

SGSN

Source Field

1349

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_PAPU_RA_LA_UP_GEN

Number of failed Inter PAPU RA&LA Update attempts due to any reason.

Data Source

SGSN

Source Field

1249

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_PAPU_RA_LA_UPDAT

Nr of failed inter-PAPU combined RA/LA update attempts

Data Source

SGSN

Source Field

1016

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_PAPU_RA_UPDAT

Nr of failed inter-PAPU RA update attempts

Data Source

SGSN

Source Field

1014

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_PAPU_RA_UPDAT_IMSI

Nr of failed inter-PAPU RA update attempts with IMSI attach

Data Source

SGSN

Source Field

1018

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_PAPU_RAU_22

Number of inter-PAPU RA update procedures that failed because of congestion. Cause value #22: congestion.

Data Source

SGSN

Source Field

1318

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_PAPU_RAU_3G2G_22

Number of inter-PAPU 3G to 2G Inter System Handovers that failed because of congestion. Cause value #22: congestion.

Data Source

SGSN

Source Field

1325

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_PAPU_RAU_COLL

Number of inter PAPU RA update protocol errors that failed because of collision.

Data Source

SGSN

Source Field

1333

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_PAPU_RAU_GEN

Number of failed Inter PAPU RAU attempts due to any reason.

Data Source

SGSN

Source Field

1248

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_PAPU_RAU_MS

Number of inter PAPU RA update protocol errors that failed because of MS error.

Data Source

SGSN

Source Field

1330

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_PAPU_RAU_RADIO

Number of inter PAPU RA update protocol errors that failed because of radio network error.

Data Source

SGSN

Source Field

1331

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_PAPU_RAU_SGSN

Number of inter PAPU RA update protocol errors that failed because of SGSN network error.

Data Source

SGSN

Source Field

1332

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_SGSN_RA_LA_22

Number of inter-SGSN combined RA and LA update procedures on the PS side that failed due congestion. The procedure cannot be accepted by the network either for GPRS or non-GPRS services. Cause value #22: congestion.

Data Source

SGSN

Source Field

1321

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_SGSN_RA_LA_COLL

Number of inter SGSN RA&LA update protocol errors that failed because of collision.

Data Source

SGSN

Source Field

1355

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_SGSN_RA_LA_HLRVLR

Number of inter SGSN RA&LA update protocol errors that failed because of HLR or VLR network error.

Data Source

SGSN

Source Field

1354

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_SGSN_RA_LA_MS

Number of inter SGSN RA&LA update protocol errors that failed because of MS error.

Data Source

SGSN

Source Field

1351

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_SGSN_RA_LA_RADIO

Number of inter SGSN RA&LA update protocol errors that failed because of radio network error.

Data Source

SGSN

Source Field

1352

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_SGSN_RA_LA_SGSN

Number of inter SGSN RA&LA update protocol errors that failed because of SGSN network error.

Data Source

SGSN

Source Field

1353

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_SGSN_RA_LA_UP_GEN

Number of failed Inter SGSN RA&LA Update attempts due to any reason.

Data Source

SGSN

Source Field

1251

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_SGSN_RA_LA_UPDAT

Nr of failed inter-SGSN combined LA/RA update attempts

Data Source

SGSN

Source Field

1022

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_SGSN_RA_UPDAT

Nr of failed inter-SGSN RA update attempts

Data Source

SGSN

Source Field

1020

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_SGSN_RA_UPDAT_IMSI

Nr of failed inter-SGSN RA update attempts with IMSI attach

Data Source

SGSN

Source Field

1024

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_SGSN_RAU_22

Number of inter-SGSN RA update procedures that failed because of congestion. Cause value #22: congestion.

Data Source

SGSN

Source Field

1320

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_SGSN_RAU_COLL

Number of inter SGSN RA update protocol errors that failed because of collision.

Data Source

SGSN

Source Field

1338

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_SGSN_RAU_GEN

Number of failed Inter PAPI SGSN RAU attempts due to any reason.

Data Source

SGSN

Source Field

1250

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_SGSN_RAU_HLRVLR

Number of inter SGSN RA update protocol errors that failed because of HLR or VLR network error.

Data Source

SGSN

Source Field

1337

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_SGSN_RAU_MS

Number of inter SGSN RA update protocol errors that failed because of MS error.

Data Source

SGSN

Source Field

1334

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_SGSN_RAU_RADIO

Number of inter SGSN RA update protocol errors that failed because of radio network error.

Data Source

SGSN

Source Field

1335

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTER_SGSN_RAU_SGSN

Number of inter SGSN RA update protocol errors that failed because of SGSN network error.

Data Source

SGSN

Source Field

1336

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTRA_PAPU_3G2G_COLL

Number of intra PAPU 3G to 2G inter system hand over protocol errors that failed because of collision.

Data Source

SGSN

Source Field

1363

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTRA_PAPU_3G2G_MS

Number of intra PAPU 3G to 2G inter system hand over protocol errors that failed because of MS error.

Data Source

SGSN

Source Field

1360

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTRA_PAPU_3G2G_RADIO

Number of intra PAPU 3G to 2G inter system hand over protocol errors that failed because of radio network error.

Data Source

SGSN

Source Field

1361

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTRA_PAPU_3G2G_SGSN

Number of intra PAPU 3G to 2G inter system hand over protocol errors that failed because of SGSN network error.

Data Source

SGSN

Source Field

1362

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTRA_PAPU_RA_LA_22

Number of intra-PAPU combined RA and LA update procedures on the PS side that failed due congestion. The procedure cannot be accepted by the network either for GPRS or non-GPRS services. Cause value #22: congestion.

Data Source

SGSN

Source Field

1317

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTRA_PAPU_RA_LA_COLL

Number of intra PAPU RA&LA update protocol errors that failed because of collision.

Data Source

SGSN

Source Field

1346

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTRA_PAPU_RA_LA_MS

Number of intra PAPU RA&LA update protocol errors that failed because of MS error.

Data Source

SGSN

Source Field

1343

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTRA_PAPU_RA_LA_RADIO

Number of intra PAPU RA&LA update protocol errors that failed because of radio network error.

Data Source

SGSN

Source Field

1344

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTRA_PAPU_RA_LA_SGSN

Number of intra PAPU RA&LA update protocol errors that failed because of SGSN network error.

Data Source

SGSN

Source Field

1345

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTRA_PAPU_RA_LA_UP_GEN

Number of failed Intra PAPU RA&LA Update attempts due to any reason

Data Source

SGSN

Source Field

1247

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTRA_PAPU_RA_LA_UPDAT

Nr of failed intra-PAPU combined LA/RA update attempts

Data Source

SGSN

Source Field

1010

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTRA_PAPU_RA_UPDAT

Nr of failed intra-PAPU RA update attempts

Data Source

SGSN

Source Field

1008

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTRA_PAPU_RA_UPDAT_IMSI

Nr of failed intra-PAPU RA update attempts with IMSI attach

Data Source

SGSN

Source Field

1012

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTRA_PAPU_RAU_22

Number of intra-PAPU RA update procedures that failed because of congestion. Cause value #22: congestion.

Data Source

SGSN

Source Field

1316

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTRA_PAPU_RAU_3G2G_22

Number of intra-PAPU 3G to 2G Inter System Handovers that failed because of congestion. Cause value #22: congestion.

Data Source

SGSN

Source Field

1324

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTRA_PAPU_RAU_COLL

Number of intra PAPU RA update protocol errors that failed because of collision.

Data Source

SGSN

Source Field

1329

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTRA_PAPU_RAU_GEN

Number of failed Intra PAPU RAU attempts due to any reason.

Data Source

SGSN

Source Field

1246

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTRA_PAPU_RAU_MS

Number of intra PAPU RA update protocol errors that failed because of MS error.

Data Source

SGSN

Source Field

1326

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTRA_PAPU_RAU_RADIO

Number of intra PAPU RA update protocol errors that failed because of radio network error.

Data Source

SGSN

Source Field

1327

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_INTRA_PAPU_RAU_SGSN

Number of intra PAPU RA update protocol errors that failed because of SGSN network error.

Data Source

SGSN

Source Field

1328

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_MO_PDP_ACT_ACT_RE_GGSN

Number of mobile-originated PDP context (static and dynamic) activation attempts that failed because the activation has been rejected by the GGSN.

Data Source

SGSN

Source Field

2024

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_MO_PDP_ACT_INSUF_RES

Number of failed mobile-originated PDP context (static and dynamic) activation attempts due to insufficient resources.

Data Source

SGSN

Source Field

2021

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_MO_PDP_ACT_INV_PDP_ACTMSG

Nr of fail mobile originated PDP context activation attempts

Data Source

SGSN

Source Field

2019

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_MO_PDP_ACT_MIS_UNK_APN

Number of failed mobile-originated PDP context (static and dynamic) activation attempts due to a missing or unknown APN.

Data Source

SGSN

Source Field

2022

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_MO_PDP_ACT_NSAPI_USED

Number of failed mobile-originated PDP context (static and dynamic) activation attempts due to an NSAPI

Data Source

SGSN

Source Field

2028

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_MO_PDP_ACT_PROB_IN_NET

Nr of fail mobile originated PDP context activation attempts. Peg retired

Data Source

SGSN

Source Field

2020

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_MO_PDP_ACT_REJ_UNSPEC

Number of failed mobile-originated PDP context (static and dynamic) activation attempts due to activation rejected, unspecified.

Data Source

SGSN

Source Field

2025

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_MO_PDP_ACT_REQ_SE_OP_NS

Number of failed mobile-originated PDP context (static and dynamic) activation attempts due to the fact that the requested service option has not been subscribed.

Data Source

SGSN

Source Field

2027

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_MO_PDP_ACT_SERV_OPT_NS

Number of failed mobile-originated PDP context (static and dynamic) activation attempts due to a service option that is not supported.

Data Source

SGSN

Source Field

2026

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_MO_PDP_ACT_UNK_ADDR_TYPE

Number of failed mobile-originated PDP context (static and dynamic) activation attempts due to an unknown PDP address or PDP type.

Data Source

SGSN

Source Field

2023

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_MO_PDP_ACT_WRONG_PASSWORD

Nr of fail mobile originated PDP context activation attempts

Data Source

SGSN

Source Field

2018

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_MO_PDP_CONT_ACT_GEN

Total number of unsuccessful MO PDP context activation procedures.

Data Source

SGSN

Source Field

2109

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_MO_PDP_CONT_MOD_GEN

Total number of unsuccessful MO PDP context modification procedures.

Data Source

SGSN

Source Field

2111

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_MO_PDP_CONTEXT_ACT

Number of mobile-originated PDP context (static and dynamic) activation attempts that failed due to abnormal cases.

Data Source

SGSN

Source Field

2001

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_MO_PDP_CONTEXT_ACT_IN

Number of PDP context activation attempts rejected by the SCP.

Data Source

SGSN

Source Field

2016

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_MO_PDP_CONTEXT_DEACT

Number of mobile-originated PDP context deactivation failures. (For example, when the GGSN does not answer to the delete PDP context message.)

Data Source

SGSN

Source Field

2005

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_MO_SEC_PDP_CONT_ACT_GEN

Total number of unsuccessful secondary MO PDP context activation procedures.

Data Source

SGSN

Source Field

2110

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_NWR_GPRS_DETACH_GEN

Number of failed NWR GPRS Detach attempts due to any reason.

Data Source

SGSN

Source Field

1254

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_NWR_PDP_CONTEXT_ACT

Nr of failed network requested PDP context activation attempts. Peg retired

Data Source

SGSN

Source Field

2003

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_NWR_PDP_CONTEXT_DEACT

Nr of failed network requested PDP context deactivation attempts

Data Source

SGSN

Source Field

2007

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_OUTG_INTER_PAPU_RA_UPDAT

Nr of failed outgoing inter-PAPURA update attempts

Data Source

SGSN

Source Field

1030

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_OUTG_INTER_SGSN_RA_UPDAT

Nr of failed outgoing inter-SGSN RA update attempts

Data Source

SGSN

Source Field

1032

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_OUTG_INTER_SYS_RAU

Number of unsuccessful outgoing Inter System Handovers. Mobile makes RA update from SGSN to 3G SGSN.

Data Source

SGSN

Source Field

1243

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_OUTG_INTRA_PAPU_RAU

Number of unsuccessful outgoing intra-PAPU RA update attempts

Data Source

SGSN

Source Field

1188

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_PDP_ACT_CONTACT_LOST

Radio contact to MS is lost.

Data Source

SGSN

Source Field

2119

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_PDP_ACT_CS_CALL

Ongoing PDP activation is interrupted because of simultaneous CS call.

Data Source

SGSN

Source Field

2120

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_PDP_ACT_DUE_NO_RESP

Various cases where no response has been received by SGSN.

Data Source

SGSN

Source Field

2137

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_PDP_ACT_MAC_TRANSMISSION

Maximum number of re-sends has been done and MS has not responded.

Data Source

SGSN

Source Field

2118

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_PDP_ACT_MS_PROTOCOL_ERROR

Failed PDP activation due MS protocol error.

Data Source

SGSN

Source Field

2121

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_PDP_ACT_ROAMING

Number of unsuccessful PDP context activation procedures by roaming subscribers

Data Source

SGSN

Source Field

2092

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_PDP_CONT_DEACT_SERVICES

Nr of failed PDP context deactivation service attempts

Data Source

SGSN

Source Field

2013

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_PDP_CONT_MODIFY_SERVICES

Number of PDP context modify service failures. (For example, an unknown context in the 2G SGSN or GGSN.)

Data Source

SGSN

Source Field

2009

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_PDP_CONT_PARAM_CHANGES

Nr of failed PDP context parameter change attempts

Data Source

SGSN

Source Field

2011

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_PDP_DEACT_BY_GGSN

Number of unsuccessful PDP context deactivation procedures initiated by GGSN.

Data Source

SGSN

Source Field

2094

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_PDP_DEACT_BY_HLR

Number of unsuccessful PDP context deactivation procedures initiated by HLR

Data Source

SGSN

Source Field

2096

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_PDP_DEACT_BY_SCP

Number of unsuccessful PDP context deactivation procedures initiated by SCP.

Data Source

SGSN

Source Field

2098

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_PDP_DEACT_BY_SGSN

Number of unsuccessful PDP context deactivation procedures initiated by SGSN.

Data Source

SGSN

Source Field

2100

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_PDP_MODIFY_BY_BSS

Number of unsuccessful PDP context modification procedures initiated by BSS.

Data Source

SGSN

Source Field

2106

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_PDP_MODIFY_BY_GGSN

Number of unsuccessful PDP context modification procedures initiated by GGSN

Data Source

SGSN

Source Field

2102

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_PDP_MODIFY_BY_MS

Number of unsuccessful PDP context modification procedures initiated by MS

Data Source

SGSN

Source Field

2108

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_PDP_MODIFY_BY_SGSN

Number of unsuccessful PDP context modification procedures initiated by SGSN

Data Source

SGSN

Source Field

2104

Source Section

P_SGSN_SESSION_MANAGEMENT

FAIL_PERIODIC_RA_LA_22

Number of periodical RA and LA update procedures that failed because of congestion. Cause value #22: congestion.

Data Source

SGSN

Source Field

1323

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_PERIODIC_RA_LA_COLL

Number of periodic RA&LA update protocol errors that failed because of collision.

Data Source

SGSN

Source Field

1359

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_PERIODIC_RA_LA_MS

Number of periodic RA&LA update protocol errors that failed because of MS error.

Data Source

SGSN

Source Field

1356

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_PERIODIC_RA_LA_RADIO

Number of periodic RA&LA update protocol errors that failed because of radio network error.

Data Source

SGSN

Source Field

1357

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_PERIODIC_RA_LA_SGSN

Number of periodic RA&LA update protocol errors that failed because of SGSN network error.

Data Source

SGSN

Source Field

1358

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_PERIODIC_RA_LA_UP_GEN

Number of failed Periodic RA&LA Update due to any reason.

Data Source

SGSN

Source Field

1253

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_PERIODIC_RA_LA_UPDAT

Nr of failed periodic RA/LA update attempts

Data Source

SGSN

Source Field

1028

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_PERIODIC_RAU_22

Number of periodic RA update procedures that failed because of congestion. Cause value #22: congestion.

Data Source

SGSN

Source Field

1322

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_PERIODIC_RAU_COLL

Number of periodic RA update protocol errors that failed because of collision.

Data Source

SGSN

Source Field

1342

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_PERIODIC_RAU_GEN

Number of failed Periodic RAU attempts due to any reason.

Data Source

SGSN

Source Field

1252

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_PERIODIC_RAU_MS

Number of periodic RA update protocol errors that failed because of MS error.

Data Source

SGSN

Source Field

1339

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_PERIODIC_RAU_RADIO

Number of periodic RA update protocol errors that failed because of radio network error.

Data Source

SGSN

Source Field

1340

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_PERIODIC_RAU_SGSN

Number of periodic RA update protocol errors that failed because of SGSN network error.

Data Source

SGSN

Source Field

1341

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAIL_PERIODICAL_RA_UPDAT

Nr of failed periodic RA update attempts

Data Source

SGSN

Source Field

1026

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FAILED_IN_MO_SMS_DELIVERIES

SCP has not accepted the sending of MO SMS

Data Source

SGSN

Source Field

9005

Source Section

P_SGSN_SMS

FAILED_MO_SMS_DELIVERIES

Nr of failed mobile-originated short message delivery attempts

Data Source

SGSN

Source Field

9002

Source Section

P_SGSN_SMS

FAILED_MT_SMS_DELIVERIES

Nr of failed mobile-terminated short message delivery attempts

Data Source

SGSN

Source Field

9003

Source Section

P_SGSN_SMS

FORWARDED_ATTACH

Number of forwarded attaches. Both the GPRS attaches and the combined GPRS attaches are counted.

Data Source

SGSN

Source Field

1184

Source Section

P_SGSN_MOBILITY_MANAGEMENT

FORWARDED_ROUTING_AREA_UPDATE

Number of forwarded routing area updates. Both routing area updates and combined RA&LA updates are counted.

Data Source

SGSN

Source Field

1185

Source Section

P_SGSN_MOBILITY_MANAGEMENT

general_undef_act_failure

Number of all types of activation failures when the MS does not receive information about a failed activation. For example, when the activation and deactivation collide and the MS receives information only about deactivation.

Data Source

SGSN

Source Field

2079

Source Section

P_SGSN_SESSION_MANAGEMENT

GENERAL_UNDEF_ATTACH_FAILURE

Nr of undefined attach failures

Data Source

SGSN

Source Field

1006

Source Section

P_SGSN_MOBILITY_MANAGEMENT

GENERAL_UNDEF_DETACH_FAILURES

Nr of unspecified detach failures

Data Source

SGSN

Source Field

1043

Source Section

P_SGSN_MOBILITY_MANAGEMENT

GENERAL_UNDEF_RA_UPDAT_FAILURE

Nr of undefined RA update failures

Data Source

SGSN

Source Field

1033

Source Section

P_SGSN_MOBILITY_MANAGEMENT

GGSN_QOS_UPGRADE_REJECTED

Number of rejected upgrade requests of the TC, the MBR, the GBR, the THP and/or the ARP QoS parameter from the GGSN.

Data Source

SGSN

Source Field

2066

Source Section

P_SGSN_SESSION_MANAGEMENT

GPRS_ATTACH_FAIL_LANA

Number of GPRS attach attempts rejected by the network because the location area is not allowed.

Data Source

SGSN

Source Field

1070

Source Section

P_SGSN_MOBILITY_MANAGEMENT

GPRS_ATTACH_FAIL_PLMN_NA

Number of GPRS attach attempts rejected by the network because the PLMN is not allowed.

Data Source

SGSN

Source Field

1069

Source Section

P_SGSN_MOBILITY_MANAGEMENT

GPRS_ATTACH_FAIL_PROT_ERROR

Number of GPRS attach attempts rejected by the network due to a protocol error.

Data Source

SGSN

Source Field

1072

Source Section

P_SGSN_MOBILITY_MANAGEMENT

GPRS_ATTACH_FAIL_ROAMING_NA

Number of GPRS attach attempts rejected by the network because roaming is not allowed in this location area.

Data Source

SGSN

Source Field

1071

Source Section

P_SGSN_MOBILITY_MANAGEMENT

GPRS_DETACHED_INACTIVE_SUBSCRI

Detach timer is activated when a subscriber is detected to be inactive (no active PDP context).

Data Source

SGSN

Source Field

1055

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IN_PREPAID_MO_SMS_FREE

MO-SMS is being sent

Data Source

SGSN

Source Field

9006

Source Section

P_SGSN_SMS

INCOMING_CELL_UPDAT

Nr of incoming cell updates

Data Source

SGSN

Source Field

1044

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_PAPU_RA_LA_UP_F_ILL_ME

Number of intra-PAPU combined routing area and location area update procedures on the PS side that failed due to an illegal ME. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1125

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_PAPU_RA_LA_UP_F_ILL_MS

Number of intra-PAPU combined routing area and location area update procedures on the PS side that failed due to an illegal MS. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1124

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_PAPU_RA_LA_UP_F_IM_DETAC

Number of intra-PAPU combined routing area and location area update procedures on the PS side that failed due to being implicitly detached. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1129

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_PAPU_RA_LA_UP_F_LA_NA

Number of intra-PAPU combined routing area and location area update procedures on the PS side that failed because the location area is not allowed. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1131

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_PAPU_RA_LA_UP_F_MS_IDENT

Number of intra-PAPU combined routing area and location area update procedures on the PS side that failed because the MS identity cannot be derived by the network. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1128

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_PAPU_RA_LA_UP_F_NA_PL

Number of intra-PAPU combined routing area and location area update procedures on the PS side that failed because GPRS services are not allowed in this PLMN. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1133

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_PAPU_RA_LA_UP_F_NGPRS_NA

Number of intra-PAPU combined routing area and location area update procedures on the PS side that failed because GPRS services and non-GPRS services are not allowed. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1127

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_PAPU_RA_LA_UP_F_NO_CELL

Number of intra-PAPU combined routing area and location area update procedures on the PS side that failed because there are no suitable cells in the location area. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1134

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_PAPU_RA_LA_UP_F_PROT_ERR

Number of intra-PAPU combined routing area and location area update procedures on the PS side that failed due to a protocol error. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1135

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_PAPU_RA_LA_UP_F_RO_NA

Number of intra-PAPU combined routing area and location area update procedures on the PS side that failed because roaming is not allowed in this location area. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1132

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_PAPU_RA_LA_UP_S_IN_PS

Number of failed inter-PAPU combined routing area and location area update procedures on the CS side. The procedure is successful for GPRS services only. This counter covers all CS side cause values [3GPP TS 24.008].

Data Source

SGSN

Source Field

1123

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_PAPU_RA_LA_UPF_GPRS_NA

Number of intra-PAPU combined routing area and location area update procedures on the PS side that failed because GPRS services are not allowed. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1126

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_PAPU_RA_LA_UPF_PLMN_NA

Number of intra-PAPU combined routing area and location area update procedures on the PS side that failed because the PLMN is not allowed. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1130

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_PAPU_RAU_F_GPRS_NA

Number of inter-PAPU routing area update procedures that failed because GPRS services are not allowed.

Data Source

SGSN

Source Field

1114

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_PAPU_RAU_F_GPRS_NA_PL

Number of inter-PAPU routing area update procedures that failed because roaming is not allowed in this location area.

Data Source

SGSN

Source Field

1120

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_PAPU_RAU_F_ILL_ME

Number of inter-PAPU routing area update procedures that failed due to an illegal ME.

Data Source

SGSN

Source Field

1113

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_PAPU_RAU_F_ILL_MS

Number of inter-PAPU routing area update procedures that failed due to an illegal MS.

Data Source

SGSN

Source Field

1112

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_PAPU_RAU_F_IMP_DETACH

Number of inter-PAPU routing area update procedures that failed due to being implicitly detached.

Data Source

SGSN

Source Field

1116

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_PAPU_RAU_F_LA_NA

Number of inter-PAPU routing area update procedures that failed because the location area is not allowed.

Data Source

SGSN

Source Field

1118

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_PAPU_RAU_F_MS_IDENT

Number of inter-PAPU routing area update procedures that failed because the MS identity cannot be derived by the network.

Data Source

SGSN

Source Field

1115

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_PAPU_RAU_F_NO_S_CELL

Number of inter-PAPU routing area update procedures that failed because there are no suitable cells in the location area.

Data Source

SGSN

Source Field

1121

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_PAPU_RAU_F_PLMN_NA

Number of inter-PAPU routing area update procedures that failed because the PLMN is not allowed.

Data Source

SGSN

Source Field

1117

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_PAPU_RAU_F_PROT_ERR

Number of inter-PAPU routing area update procedures that failed due to a protocol error.

Data Source

SGSN

Source Field

1122

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_PAPU_RAU_F_ROAMING_NA

Number of inter-PAPU routing area update procedures that failed because roaming is not allowed in this location area.

Data Source

SGSN

Source Field

1119

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_SGSN_RA_LA__F_PLMN_NA

Number of inter-SGSN combined routing area and location area update procedures on the PS side that failed because the PLMN is not allowed. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1154

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_SGSN_RA_LA_UP_F_GPRS_NA

Number of inter-SGSN combined routing area and location area update procedures on the PS side that failed because GPRS services are not allowed. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1150

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_SGSN_RA_LA_UP_F_ILL_ME

Number of inter-SGSN combined routing area and location area update procedures on the PS side that failed due to an illegal ME. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1149

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_SGSN_RA_LA_UP_F_ILL_MS

Number of inter-SGSN combined routing area and location area update procedures on the PS side that failed due to an illegal MS. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1148

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_SGSN_RA_LA_UP_F_IM_DETAC

Number of inter-SGSN combined routing area and location area update procedures on the PS side that failed due to being implicitly detached. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1153

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_SGSN_RA_LA_UP_F_LA_NA

Number of inter-SGSN combined routing area and location area update procedures on the PS side that failed because the location area is not allowed. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1155

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_SGSN_RA_LA_UP_F_MS_IDENT

Number of inter-SGSN combined routing area and location area update procedures on the PS side that failed because the MS identity cannot be derived by the network. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1152

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_SGSN_RA_LA_UP_F_NA_PL

Number of inter-SGSN combined routing area and location area update procedures on the PS side that failed because GPRS services are not allowed in this PLMN. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1157

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_SGSN_RA_LA_UP_F_NGPRS_NA

Number of inter-SGSN combined routing area and location area update procedures on the PS side that failed because GPRS services and non-GPRS services are not allowed. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1151

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_SGSN_RA_LA_UP_F_NO_CELL

Number of inter-SGSN combined routing area and location area update procedures on the PS side that failed because there are no suitable cells in the location area. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1158

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_SGSN_RA_LA_UP_F_PROT_ERR

Number of inter-SGSN combined routing area and location area update procedures on the PS side that failed due to a protocol error. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1159

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_SGSN_RA_LA_UP_F_RO_NA

Number of inter-SGSN combined routing area and location area update procedures on the PS side that failed because roaming is not allowed in this location area. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1156

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_SGSN_RA_LA_UP_S_IN_PS

Number of failed inter-SGSN combined routing area and location area update procedures on the CS side. The procedure is successful for GPRS services only. This counter covers all CS side cause values [3GPP TS 24.008].

Data Source

SGSN

Source Field

1147

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_SGSN_RAU_F_GPRS_NA

Number of inter-SGSN routing area update procedures that failed because GPRS services are not allowed.

Data Source

SGSN

Source Field

1138

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_SGSN_RAU_F_GPRS_NA_PL

Number of inter-SGSN routing area update procedures that failed because GPRS services are not allowed in this PLMN.

Data Source

SGSN

Source Field

1144

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_SGSN_RAU_F_ILL_ME

Number of inter-SGSN routing area update procedures that failed due to an illegal ME.

Data Source

SGSN

Source Field

1137

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_SGSN_RAU_F_ILL_MS

Number of inter-SGSN routing area update procedures that failed due to an illegal MS.

Data Source

SGSN

Source Field

1136

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_SGSN_RAU_F_IMP_DETACH

Number of inter-SGSN routing area update procedures that failed due to being implicitly detached.

Data Source

SGSN

Source Field

1140

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_SGSN_RAU_F_LANA

Number of inter-SGSN routing area update procedures that failed because the location area is not allowed.

Data Source

SGSN

Source Field

1142

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_SGSN_RAU_F_MS_IDENT

Number of inter-SGSN routing area update procedures that failed because the MS identity cannot be derived by the network.

Data Source

SGSN

Source Field

1139

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_SGSN_RAU_F_NO_S_CELL

Number of inter-SGSN routing area update procedures that failed because there are no suitable cells in the location area.

Data Source

SGSN

Source Field

1145

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_SGSN_RAU_F_PLMN_NA

Number of inter-SGSN routing area update procedures that failed because the PLMN is not allowed.

Data Source

SGSN

Source Field

1141

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_SGSN_RAU_F_PROT_ERR

Number of inter-SGSN routing area update procedures that failed due to a protocol error.

Data Source

SGSN

Source Field

1146

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTER_SGSN_RAU_F_ROAMING_NA

Number of inter-SGSN routing area update procedures that failed because roaming is not allowed in this location area.

Data Source

SGSN

Source Field

1143

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTRA_PAPU_RA_LA_UP_F_GPRS_NA

Number of intra-PAPU combined routing area and location area update procedures on the PS side that failed because GPRS services are not allowed. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1102

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTRA_PAPU_RA_LA_UP_F_ILL_ME

Number of intra-PAPU combined routing area and location area update procedures on the PS side that failed due to an illegal ME. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1101

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTRA_PAPU_RA_LA_UP_F_ILL_MS

Number of intra-PAPU combined routing area and location area update procedures on the PS side that failed due to an illegal MS. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1100

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTRA_PAPU_RA_LA_UP_F_IM_DETAC

Number of intra-PAPU combined routing area and location area update procedures on the PS side that failed due to being implicitly detached. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1105

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTRA_PAPU_RA_LA_UP_F_LA_NA

Number of intra-PAPU combined routing area and location area update procedures on the PS side that failed because the location area is not allowed. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1107

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTRA_PAPU_RA_LA_UP_F_MS_IDENT

Number of intra-PAPU combined routing area and location area update procedures in PS side that failed because MS identity cannot be derived by the network. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1104

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTRA_PAPU_RA_LA_UP_F_NA_PL

Number of intra-PAPU combined routing area and location area update procedures on the PS side that failed because GPRS services are not allowed in this PLMN. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1109

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTRA_PAPU_RA_LA_UP_F_NGPRS_NA

Number of intra-PAPU combined routing area and location area update procedures on the PS side that failed because GPRS services and non-GPRS services are not allowed. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1103

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTRA_PAPU_RA_LA_UP_F_NO_CELL

Number of intra-PAPU combined routing area and location area update procedures on the PS side that failed because there are no suitable cells in the location area. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1110

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTRA_PAPU_RA_LA_UP_F_PLMN_NA

Number of intra-PAPU combined routing area and location area update procedures on the PS side that failed because PLMN is not allowed. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1106

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTRA_PAPU_RA_LA_UP_F_PROT_ERR

Number of intra-PAPU combined routing area and location area update procedures on the PS side that failed due to a protocol error. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1111

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTRA_PAPU_RA_LA_UP_F_RO_NA

Number of intra-PAPU combined routing area and location area update procedures on the PS side that failed because roaming is not allowed in this location area. The procedure cannot be accepted by the network either for GPRS or for non-GPRS services.

Data Source

SGSN

Source Field

1108

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTRA_PAPU_RA_LA_UP_S_IN_PS

Number of failed intra-PAPU combined routing area and location area update procedures on the CS side. The procedure is successful for GPRS services only. This counter covers all CS side cause values [3GPP TS 24.008].

Data Source

SGSN

Source Field

1099

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTRA_PAPU_RAU_F_GPRS_NA

Number of intra-PAPU routing area update procedures that failed because GPRS services are not allowed.

Data Source

SGSN

Source Field

1090

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTRA_PAPU_RAU_F_GPRS_NA_PL

Number of intra-PAPU routing area update procedures that failed because GPRS services are not allowed in this PLMN.

Data Source

SGSN

Source Field

1096

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTRA_PAPU_RAU_F_ILL_ME

Number of intra-PAPU routing area update procedures that failed due to an illegal ME.

Data Source

SGSN

Source Field

1089

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTRA_PAPU_RAU_F_ILL_MS

When the update procedure is interrupted.

Data Source

SGSN

Source Field

1088

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTRA_PAPU_RAU_F_IMP_DETACH

Number of intra-PAPU routing area update procedures that failed because they were implicitly detached.

Data Source

SGSN

Source Field

1092

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTRA_PAPU_RAU_F_LA_NA

Number of intra-PAPU routing area update procedures that failed because the location area is not allowed.

Data Source

SGSN

Source Field

1094

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTRA_PAPU_RAU_F_MS_IDENT

Number of intra-PAPU routing area update procedures that failed because the MS identity cannot be derived by the network.

Data Source

SGSN

Source Field

1091

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTRA_PAPU_RAU_F_NO_S_CELL

Number of intra-PAPU routing area update procedures that failed because there are no suitable cells in the location area.

Data Source

SGSN

Source Field

1097

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTRA_PAPU_RAU_F_PLMN_NA

Number of intra-PAPU routing area update procedures that failed because the PLMN is not allowed.

Data Source

SGSN

Source Field

1093

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTRA_PAPU_RAU_F_PROT_ERR

Number of intra-PAPU routing area update procedures that failed due to a protocol error.

Data Source

SGSN

Source Field

1098

Source Section

P_SGSN_MOBILITY_MANAGEMENT

INTRA_PAPU_RAU_F_ROAMING_NA

Number of intra-PAPU routing area update procedures that failed because roaming is not allowed in this location area.

Data Source

SGSN

Source Field

1095

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTER_PAPU_3G_2G_SHO

Number of unsuccessful intra-PAPU 3G to 2G Inter System Hand Overs.

Data Source

SGSN

Source Field

1262

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTER_PAPU_3G2G_10

Number of unsuccessful inter-PAPU 3G to 2G Inter System Hand Overs due to Implicitly detached #10

Data Source

SGSN

Source Field

1281

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTER_PAPU_3G2G_11

Number of unsuccessful inter-PAPU 3G to 2G Inter System Hand Overs due to PLMN not allowed #11.

Data Source

SGSN

Source Field

1282

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTER_PAPU_3G2G_12

Number of unsuccessful inter-PAPU 3G to 2G Inter System Hand Overs due to Location area not allowed #12.

Data Source

SGSN

Source Field

1283

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTER_PAPU_3G2G_13

Number of unsuccessful inter-PAPU 3G to 2G Inter System Hand Overs due to Roaming not allowed in this location area #13.

Data Source

SGSN

Source Field

1284

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTER_PAPU_3G2G_14

Number of unsuccessful inter-PAPU 3G to 2G Inter System Hand Overs due to GPRS services not allowed in this PLMN #14.

Data Source

SGSN

Source Field

1285

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTER_PAPU_3G2G_15

Number of unsuccessful inter-PAPU 3G to 2G Inter System Hand Overs due to No Suitable Cells In Location Area #15.

Data Source

SGSN

Source Field

1286

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTER_PAPU_3G2G_3

Number of unsuccessful inter-PAPU 3G to 2G Inter System Hand Overs due to Illegal MS #3.

Data Source

SGSN

Source Field

1276

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTER_PAPU_3G2G_6

Number of unsuccessful inter-PAPU 3G to 2G Inter System Hand Overs due to Illegal ME #6.

Data Source

SGSN

Source Field

1277

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTER_PAPU_3G2G_7

Number of unsuccessful inter-PAPU 3G to 2G Inter System Hand Overs due to GPRS services not allowed #7.

Data Source

SGSN

Source Field

1278

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTER_PAPU_3G2G_8

Number of unsuccessful inter-PAPU 3G to 2G Inter System Hand Overs due to GPRS services and non-GPRS services not allowed #8.

Data Source

SGSN

Source Field

1279

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTER_PAPU_3G2G_9

Number of unsuccessful inter-PAPU 3G to 2G Inter System Hand Overs due to MS identity cannot be derived by the network #9

Data Source

SGSN

Source Field

1280

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTER_PAPU_3G2G_OTH

Number of unsuccessful inter-PAPU 3G to 2G Inter System Hand Overs due to other / unspecified cause code.

Data Source

SGSN

Source Field

1288

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTER_PAPU_3G2G_PRO

Number of unsuccessful inter-PAPU 3G to 2G Inter System Hand Overs due to Protocol Error
#96, #99, #100, #111

Data Source

SGSN

Source Field

1287

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTRA_PAPU_3G_2G_SHO

Number of unsuccessful intra-PAPU 3G to 2G Inter System Hand Overs.

Data Source

SGSN

Source Field

1260

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTRA_PAPU_3G2G_10

Number of unsuccessful intra-PAPU 3G to 2G Inter System Hand Overs due to Implicitly
detached #10.

Data Source

SGSN

Source Field

1268

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTRA_PAPU_3G2G_11

Number of unsuccessful intra-PAPU 3G to 2G Inter System Hand Overs due to PLMN not allowed #11.

Data Source

SGSN

Source Field

1269

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTRA_PAPU_3G2G_12

Number of unsuccessful intra-PAPU 3G to 2G Inter System Hand Overs due to Location area not allowed #12.

Data Source

SGSN

Source Field

1270

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTRA_PAPU_3G2G_13

Number of unsuccessful intra-PAPU 3G to 2G Inter System Hand Overs due to Roaming not allowed in this location area #13.

Data Source

SGSN

Source Field

1271

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTRA_PAPU_3G2G_14

Number of unsuccessful intra-PAPU 3G to 2G Inter System Hand Overs due to GPRS services not allowed in this PLMN #14.

Data Source

SGSN

Source Field

1272

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTRA_PAPU_3G2G_15

Number of unsuccessful intra-PAPU 3G to 2G Inter System Hand Overs due to No Suitable Cells In Location Area #15.

Data Source

SGSN

Source Field

1273

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTRA_PAPU_3G2G_3

Number of unsuccessful intra-PAPU 3G to 2G Inter System Hand Overs due to Illegal MS #3.

Data Source

SGSN

Source Field

1263

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTRA_PAPU_3G2G_6

Number of unsuccessful intra-PAPU 3G to 2G Inter System Hand Overs due to Illegal ME #6.

Data Source

SGSN

Source Field

1264

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTRA_PAPU_3G2G_7

Number of unsuccessful intra-PAPU 3G to 2G Inter System Hand Overs due to GPRS services not allowed #7.

Data Source

SGSN

Source Field

1265

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTRA_PAPU_3G2G_8

Number of unsuccessful intra-PAPU 3G to 2G Inter System Hand Overs due to GPRS services and non-GPRS services not allowed #8.

Data Source

SGSN

Source Field

1266

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTRA_PAPU_3G2G_9

Number of unsuccessful intra-PAPU 3G to 2G Inter System Hand Overs due to MS identity cannot be derived by the network #9.

Data Source

SGSN

Source Field

1267

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTRA_PAPU_3G2G_OTH

Number of unsuccessful intra-PAPU 3G to 2G Inter System Hand Overs due to other / unspecified cause code.

Data Source

SGSN

Source Field

1275

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_INTRA_PAPU_3G2G_PRO

Number of unsuccessful intra-PAPU 3G to 2G Inter System Hand Overs due to Protocol Error #96, #99, #100, #111.

Data Source

SGSN

Source Field

1274

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_OG_INTE_PAPU_2G_3G_SHO

Number of outgoing unsuccessful inter-PAPU 2G to 3G Inter System HandOvers.

Data Source

SGSN

Source Field

1258

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_FAIL_OG_INTR_PAPU_2G_3G_SHO

Number of outgoing unsuccessful intra-PAPU 2G to 3G Inter System HandOvers.

Data Source

SGSN

Source Field

1256

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_SUCC_INTER_PAPU_3G_2G_SHO

Number of successful inter-PAPU 3G to 2G Inter System Hand Overs.

Data Source

SGSN

Source Field

1261

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_SUCC_INTRA_PAPU_3G_2G_SHO

Number of successful intra-PAPU 3G to 2G Inter System Hand Overs.

Data Source

SGSN

Source Field

1259

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_SUCC_OG_INTE_PAPU_2G_3G_SHO

Number of outgoing successful inter-PAPU 2G to 3G Inter System HandOvers.

Data Source

SGSN

Source Field

1257

Source Section

P_SGSN_MOBILITY_MANAGEMENT

IU_SUCC_OG_INTR_PAPU_2G_3G_SHO

Number of outgoing successful intra-PAPU 2G to 3G Inter System HandOvers.

Data Source

SGSN

Source Field

1255

Source Section

P_SGSN_MOBILITY_MANAGEMENT

LLC_FRAMES_BSSGP_QUEUE_DEN

Number of samples of number of LLC Frames waiting in BSSGB Queue.

Data Source

SGSN

Source Field

10003

Source Section

P_SGSN_CELL_DATA

LLC_FRAMES_BSSGP_QUEUE_PEAK

Peak value of samples of number of LLC Frames waiting in BSSGB Queue.

Data Source

SGSN

Source Field

10004

Source Section

P_SGSN_CELL_DATA

LLC_FRAMES_BSSGP_QUEUE_SUM

Sum of samples of number of LLC Frames waiting in BSSGB Queue.

Data Source

SGSN

Source Field

10002

Source Section

P_SGSN_CELL_DATA

MO_PDP_ACT_F_MUL_PDP_CTX

Number of failed primary mobile originated PDP context activations due to multiple PDP contexts.

Data Source

SGSN

Source Field

2149

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_PDP_ACT_FAIL_SO_OUT_OF_ORD

Number of mobile-originated secondary PDP context (static and dynamic) activation attempts that failed because service option was temporarily out of order.

Data Source

SGSN

Source Field

2029

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_PDP_DEACT_INSUF_RES

Number of mobile-originated PDP context (static and dynamic) deactivations caused by insufficient resources.

Data Source

SGSN

Source Field

2053

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_PDP_DEACT_LLC_SNDP_FAIL

Number of mobile-originated PDP context (static and dynamic) deactivations caused by LLC or SMDP failure.

Data Source

SGSN

Source Field

2052

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_PDP_DEACT_QOS_NA

Number of mobile-originated PDP context (static and dynamic) eactivations caused by the fact that the MS does not accept the QoS offered by the SGSN.

Data Source

SGSN

Source Field

2054

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_PDP_DEACT_REGULAR

Total number of successful MO PDP context deactivation procedures due regular PDP context deactivation #36.

Data Source

SGSN

Source Field

2114

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_PDP_MOD_F_INSUF_RES

Number of mobile-originated PDP context (static and dynamic) modification attempts that failed due to insufficient resources.

Data Source

SGSN

Source Field

2045

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_PDP_MOD_F_PROT_ERR

Number of mobile-originated PDP context (static and dynamic) modification attempts that failed due to a protocol error.

Data Source

SGSN

Source Field

2051

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_PDP_MOD_F_SEM_ERR_PF

Number of mobile-originated PDP context (static and dynamic) modification attempt failures caused by semantic errors in the packet filter(s).

Data Source

SGSN

Source Field

2049

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_PDP_MOD_F_SEM_ERR_TFT

Number of mobile-originated PDP context (static and dynamic) modification attempt failures caused by a semantic error in the TFT operation.

Data Source

SGSN

Source Field

2047

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_PDP_MOD_F_SER_OP_NS

Number of mobile-originated PDP context (static and dynamic) modification attempts that failed because the service option is not supported.

Data Source

SGSN

Source Field

2046

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_PDP_MOD_F_SYN_ERR_PF

Number of mobile-originated PDP context (static and dynamic) modification attempt failures caused by syntactical errors in the packet filter(s).

Data Source

SGSN

Source Field

2050

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_PDP_MOD_F_SYN_ERR_TFT

Number of mobile-originated PDP context (static and dynamic) modification attempt failures caused by a syntactical error in the TFT operation.

Data Source

SGSN

Source Field

2048

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_SEC_PDP_ACT_F_INSUF_RES

Number of mobile-originated secondary PDP context (static and dynamic) activation attempts that failed due to insufficient resources.

Data Source

SGSN

Source Field

2032

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_SEC_PDP_ACT_F_MUL_PDP_CTX

Number of failed secondary mobile originated PDP context activations due to multiple PDP contexts.

Data Source

SGSN

Source Field

2148

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_SEC_PDP_ACT_F_PROT_ERROR

Number of mobile-originated secondary PDP context (static and dynamic) activation attempts that failed due to a protocol error.

Data Source

SGSN

Source Field

2044

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_SEC_PDP_ACT_F_REJ_BY_GGSN

Number of mobile-originated secondary PDP context (static and dynamic) activation attempts that failed because the activation was rejected by the GGSN.

Data Source

SGSN

Source Field

2033

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_SEC_PDP_ACT_F_REJ_UNSPEC

Number of mobile-originated secondary PDP context (static and dynamic) activation attempt failures caused by unspecified activation rejection.

Data Source

SGSN

Source Field

2034

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_SEC_PDP_ACT_F_SEM_ERR_PF

Number of mobile-originated secondary PDP context (static and dynamic) activation attempts that failed due to semantic errors in the packet filter(s).

Data Source

SGSN

Source Field

2041

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_SEC_PDP_ACT_F_SEM_ERR_TFT

Number of mobile-originated secondary PDP context (static and dynamic) activation attempt failures caused by a semantic error in the TFT operation.

Data Source

SGSN

Source Field

2038

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_SEC_PDP_ACT_F_SER_OP_NS

Number of mobile-originated secondary PDP context (static and dynamic) activation attempts that failed because the service option is not supported.

Data Source

SGSN

Source Field

2035

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_SEC_PDP_ACT_F_SER_OP_NSS

Number of mobile-originated secondary PDP context (static and dynamic) activation attempts that failed because the requested service option is not subscribed.

Data Source

SGSN

Source Field

2036

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_SEC_PDP_ACT_F_SER_OP_OUT

Number of mobile-originated secondary PDP context (static and dynamic) activation attempts that failed because the service option was temporarily out of order.

Data Source

SGSN

Source Field

2037

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_SEC_PDP_ACT_F_SYN_ERR_PF

Number of mobile-originated secondary PDP context (static and dynamic) activation attempts that failed due to syntactical errors in the packet filter(s).

Data Source

SGSN

Source Field

2042

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_SEC_PDP_ACT_F_SYN_ERR_TFT

Number of mobile-originated secondary PDP context (static and dynamic) activation attempt failures caused by a syntactical error in the TFT operation.

Data Source

SGSN

Source Field

2039

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_SEC_PDP_ACT_F_UNK_PDP_CONT

Number of mobile-originated secondary PDP context (static and dynamic) activation attempts that failed due to an unknown PDP context.

Data Source

SGSN

Source Field

2040

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_SEC_PDP_ACT_F_WITHOUT_TFT

Number of mobile-originated secondary PDP context (static and dynamic) activation attempts that failed because the PDP context is already activated without TFT.

Data Source

SGSN

Source Field

2043

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_SEC_PDP_ACT_FAILED

Number of mobile-originated secondary PDP context (static and dynamic) activation attempts that failed due to abnormal cases.

Data Source

SGSN

Source Field

2031

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_SEC_PDP_ACTIVATION_SUCC

Number of successful mobile-originated secondary PDP context (static and dynamic) activation attempts.

Data Source

SGSN

Source Field

2030

Source Section

P_SGSN_SESSION_MANAGEMENT

MO_SMS_BARRED_BASED_ON_SMSC

Number of denied mobile-originated SMS deliveries due to SMSC deny (SMSC deny is set by the operator).

Data Source

SGSN

Source Field

9008

Source Section

P_SGSN_SMS

MO_SMS_BARRED_DUE_ANUM

Number of denied mobile-originated SMS deliveries due to A-number deny (A-number deny is set by the operator).

Data Source

SGSN

Source Field

9007

Source Section

P_SGSN_SMS

MT_SMS_BARRED_BASED_ON_SMSC

Number of denied mobile-terminated SMS deliveries due to SMSC deny (SMSC deny is set by the operator).

Data Source

SGSN

Source Field

9009

Source Section

P_SGSN_SMS

NRT_PDP_QOS_DOWNGRADED

Number of Non-RealTime PDP contexts whose QoS were downgraded due to QoS roaming limitation.

Data Source

SGSN

Source Field

2065

Source Section

P_SGSN_SESSION_MANAGEMENT

NWR_GPRS_DETACH_GPRS_NA_PLMN

Number of network-initiated GPRS detach procedures when GPRS services are not allowed in this PLMN.

Data Source

SGSN

Source Field

1086

Source Section

P_SGSN_MOBILITY_MANAGEMENT

NWR_GPRS_DETACH_GPRS_SER_NA

Number of network-initiated GPRS detach procedures due to not allowed GPRS services.

Data Source

SGSN

Source Field

1081

Source Section

P_SGSN_MOBILITY_MANAGEMENT

NWR_GPRS_DETACH_ILLEGAL_ME

Number of network-initiated GPRS detach procedures due to an illegal ME.

Data Source

SGSN

Source Field

1080

Source Section

P_SGSN_MOBILITY_MANAGEMENT

NWR_GPRS_DETACH_ILLEGAL_MS

Number of network-initiated GPRS detach procedures due to an illegal MS.

Data Source

SGSN

Source Field

1079

Source Section

P_SGSN_MOBILITY_MANAGEMENT

NWR_GPRS_DETACH_IMSI_UNK_HLR

Number of network-initiated GPRS detach procedures due to an unknown IMSI in the HLR.

Data Source

SGSN

Source Field

1078

Source Section

P_SGSN_MOBILITY_MANAGEMENT

NWR_GPRS_DETACH_LA_NA

Number of network-initiated GPRS detach procedures due to a not allowed location area.

Data Source

SGSN

Source Field

1084

Source Section

P_SGSN_MOBILITY_MANAGEMENT

NWR_GPRS_DETACH_NGPRS_SER_NA

Number of network-initiated GPRS detach procedures when GPRS services and non-GPRS services are not allowed.

Data Source

SGSN

Source Field

1082

Source Section

P_SGSN_MOBILITY_MANAGEMENT

NWR_GPRS_DETACH_NO_S_CEL_IN_LA

Number of network-initiated GPRS detach procedures when there are no suitable cells in the location area.

Data Source

SGSN

Source Field

1087

Source Section

P_SGSN_MOBILITY_MANAGEMENT

NWR_GPRS_DETACH_PLMN_NA

Number of network-initiated GPRS detach procedures due to not allowed PLMN.

Data Source

SGSN

Source Field

1083

Source Section

P_SGSN_MOBILITY_MANAGEMENT

NWR_GPRS_DETACH_ROAMING_NA

Number of network-initiated GPRS detach procedures when roaming is not allowed in the location area.

Data Source

SGSN

Source Field

1085

Source Section

P_SGSN_MOBILITY_MANAGEMENT

NWR_PDP_DEACT_LLC_SNDP_FAIL

Number of network-initiated PDP context (static and dynamic) deactivations caused by LLC or SNDP failure.

Data Source

SGSN

Source Field

2055

Source Section

P_SGSN_SESSION_MANAGEMENT

NWR_PDP_DEACT_NET_FAILURE

Number of network-initiated PDP context (static and dynamic) deactivations caused by a network failure.

Data Source

SGSN

Source Field

2056

Source Section

P_SGSN_SESSION_MANAGEMENT

NWR_PDP_DEACT_REACT_REQ

Number of network-initiated PDP context (static and dynamic) deactivations caused by a requested reactivation.

Data Source

SGSN

Source Field

2057

Source Section

P_SGSN_SESSION_MANAGEMENT

NWR_PDP_DEACT_REGULAR

Total number of successful NWR PDP context deactivation procedures due regular PDP context deactivation #36

Data Source

SGSN

Source Field

2115

Source Section

P_SGSN_SESSION_MANAGEMENT

OUTGOING_CELL_UPDAT

Nr of outgoing cell updates

Data Source

SGSN

Source Field

1045

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERIODIC_RA_LA_UP_F_GPRS_NA

Number of periodical combined routing area and location area update procedures that failed because GPRS services are not allowed.

Data Source

SGSN

Source Field

1174

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERIODIC_RA_LA_UP_F_GPRS_NA_PL

Number of periodical combined routing area and location area update procedures that failed because GPRS services are not allowed in this PLMN.

Data Source

SGSN

Source Field

1181

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERIODIC_RA_LA_UP_F_ILL_ME

Number of periodical combined routing area and location area update procedures that failed due to an illegal ME.

Data Source

SGSN

Source Field

1173

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERIODIC_RA_LA_UP_F_ILL_MS

Number of periodical combined routing area and location area update procedures that failed due to an illegal MS.

Data Source

SGSN

Source Field

1172

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERIODIC_RA_LA_UP_F_LA_NA

Number of periodical combined routing area and location area update procedures that failed because the location area is not allowed.

Data Source

SGSN

Source Field

1179

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERIODIC_RA_LA_UP_F_MS_DETACH

Number of periodical combined routing area and location area update procedures that failed due to being implicitly detached.

Data Source

SGSN

Source Field

1177

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERIODIC_RA_LA_UP_F_MS_IDENT

Number of periodical combined routing area and location area update procedures that failed because the MS identity cannot be derived by the network.

Data Source

SGSN

Source Field

1176

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERIODIC_RA_LA_UP_F_NGPRS_NA

Number of periodical combined routing area and location area update procedures that failed because GPRS services and non-GPRS services are not allowed.

Data Source

SGSN

Source Field

1175

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERIODIC_RA_LA_UP_F_NO_CELL

Number of periodical combined routing area and location area update procedures that failed because there are no suitable cells in the location area.

Data Source

SGSN

Source Field

1182

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERIODIC_RA_LA_UP_F_PLMN_NA

Number of periodical combined routing area and location area update procedures that failed because the PLMN is not allowed.

Data Source

SGSN

Source Field

1178

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERIODIC_RA_LA_UP_F_PROT_ERR

Number of periodical combined routing area and location area update procedures that failed due to a protocol error.

Data Source

SGSN

Source Field

1183

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERIODIC_RA_LA_UP_F_RO_NA

Number of periodical combined routing area and location area update procedures that failed because roaming is not allowed in this location

Data Source

SGSN

Source Field

1180

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERIODIC_RA_LA_UP_S_

Number of failed periodical combined routing area and location area update procedures on the CS side. This counter covers all CS side cause codes [3GPP TS 24.008].

Data Source

SGSN

Source Field

1171

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERIODIC_RAU_F_GPRS_NA

Number of periodical routing area update procedures that failed because GPRS services are not allowed.

Data Source

SGSN

Source Field

1162

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERIODIC_RAU_F_GPRS_NA_PL

Number of periodical routing area update procedures that failed because GPRS services are not allowed in this PLMN.

Data Source

SGSN

Source Field

1168

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERIODIC_RAU_F_ILL_ME

Number of periodical routing area update procedures that failed due to an illegal ME.

Data Source

SGSN

Source Field

1161

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERIODIC_RAU_F_ILL_MS

Number of periodical routing area update procedures that failed due to an illegal MS.

Data Source

SGSN

Source Field

1160

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERIODIC_RAU_F_IMP_DETACH

Number of periodical routing area update procedures that failed due to being implicitly detached.

Data Source

SGSN

Source Field

1164

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERIODIC_RAU_F_LA_NA

Number of periodical routing area update procedures that failed because the location area is not allowed.

Data Source

SGSN

Source Field

1166

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERIODIC_RAU_F_MS_IDENT

Number of periodical routing area update procedures that failed because the MS identity cannot be derived by the network.

Data Source

SGSN

Source Field

1163

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERIODIC_RAU_F_NO_S_CELL

Number of periodical routing area update procedures that failed because there are no suitable cells in the location area.

Data Source

SGSN

Source Field

1169

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERIODIC_RAU_F_PLMN_NA

Number of periodical routing area update procedures that failed because PLMN is not allowed.

Data Source

SGSN

Source Field

1165

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERIODIC_RAU_F_PROT_ERR

Number of periodical routing area update procedures that failed due to a protocol error.

Data Source

SGSN

Source Field

1170

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERIODIC_RAU_F_ROAMING_NA

Number of periodical routing area update procedures that failed because roaming is not allowed in this location area.

Data Source

SGSN

Source Field

1167

Source Section

P_SGSN_MOBILITY_MANAGEMENT

PERLENSEC

Measurement collection interval (in seconds)

PREV_TRIG_TO_SCP_ACC_APN_LIST

Number of prevented triggering towards the SCP due to the selective APN list.

Data Source

SGSN

Source Field

2076

Source Section

P_SGSN_SESSION_MANAGEMENT

RT_MO_PDP_ACT_FAIL_ACT_USERS

Number of mobile-originated real time PDP context (static and dynamic) activation attempts rejected by the admission control due to the maximum active users count limiter.

Data Source

SGSN

Source Field

2063

Source Section

P_SGSN_SESSION_MANAGEMENT

RT_MO_PDP_ACT_FAIL_DUE_BANDWID

Number of mobile-originated real time PDP context (static and dynamic) activation attempts rejected by the admission control due to the Bandwidth limiter.

Data Source

SGSN

Source Field

2058

Source Section

P_SGSN_SESSION_MANAGEMENT

RT_MO_PDP_ACT_FAIL_DUE_BW_ARP1

Number of MO real time PDP context (static and dynamic) activation attempts rejected by the admission control due to the Bandwidth limiter for ARP1.

Data Source

SGSN

Source Field

2067

Source Section

P_SGSN_SESSION_MANAGEMENT

RT_MO_PDP_ACT_FAIL_DUE_BW_ARP2

Number of MO real time PDP context (static and dynamic) activation attempts rejected by the admission control due to the Bandwidth limiter for ARP2.

Data Source

SGSN

Source Field

2068

Source Section

P_SGSN_SESSION_MANAGEMENT

RT_MO_PDP_ACT_FAIL_DUE_BW_ARP3

Number of MO real time PDP context (static and dynamic) activation attempts rejected by the admission control due to the Bandwidth limiter for ARP3.

Data Source

SGSN

Source Field

2069

Source Section

P_SGSN_SESSION_MANAGEMENT

RT_MO_PDP_ACT_FAIL_DUE_USERS

Number of mobile-originated real time PDP context (static and dynamic) activation attempts rejected by the admission control due to the maximum users count limiter.

Data Source

SGSN

Source Field

2062

Source Section

P_SGSN_SESSION_MANAGEMENT

RT_PDP_ACT_FAIL_AVG_LOAD_LIMIT

Number of MO real time PDP context (static and dynamic) activation attempts rejected by the admission control due to the Average Load limit.

Data Source

SGSN

Source Field

2080

Source Section

P_SGSN_SESSION_MANAGEMENT

RT_PDP_ACT_SUCC

Number of successful RT PDP context activations.

Data Source

SGSN

Source Field

2077

Source Section

P_SGSN_SESSION_MANAGEMENT

RT_PDP_CHG_FAIL_DUE_ACT_USERS

Number of real time PDP context (static and dynamic) change attempts from inactive to active rejected by the admission control due to the real time PDP contexts maximum active users count limiter.

Data Source

SGSN

Source Field

2060

Source Section

P_SGSN_SESSION_MANAGEMENT

RT_PDP_CHG_FAIL_DUE_BANDWIDTH

Number of real time PDP context (static and dynamic) change attempts from inactive to active rejected by the admission control due to the Bandwidth limiter.

Data Source

SGSN

Source Field

2059

Source Section

P_SGSN_SESSION_MANAGEMENT

RT_PDP_CHG_FAIL_DUE_BW_ARP_1

Number of real time PDP context (static and dynamic) change attempts from inactive to active rejected by the admission control due to the Bandwidth limiter for ARP1. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

2070

Source Section

P_SGSN_SESSION_MANAGEMENT

RT_PDP_CHG_FAIL_DUE_BW_ARP_2

Number of real time PDP context (static and dynamic) change attempts from inactive to active rejected by the admission control due to the Bandwidth limiter for ARP2. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

2071

Source Section

P_SGSN_SESSION_MANAGEMENT

RT_PDP_CHG_FAIL_DUE_BW_ARP_3

Number of real time PDP context (static and dynamic) change attempts from inactive to active rejected by the admission control due to the Bandwidth limiter for ARP3. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

2072

Source Section

P_SGSN_SESSION_MANAGEMENT

RT_PDP_CON_MOD_FAIL_BW_ARP1

Number of real time PDP context (static and dynamic) modify service attempts rejected by the admission control due to real time PDP contexts Bandwidth limiter for ARP1. More bandwidth is requested, but the request is rejected by the admission control. The MS or the GGSN is allowed to start this procedure.

Data Source

SGSN

Source Field

2073

Source Section

P_SGSN_SESSION_MANAGEMENT

RT_PDP_CON_MOD_FAIL_BW_ARP2

Number of real time PDP context (static and dynamic) modify service attempts rejected by the admission control due to real time PDP contexts Bandwidth limiter for ARP2. More bandwidth is requested, but the request is rejected by the admission control. The MS or the GGSN is allowed to start this procedure.

Data Source

SGSN

Source Field

2074

Source Section

P_SGSN_SESSION_MANAGEMENT

RT_PDP_CON_MOD_FAIL_BW_ARP3

Number of real time PDP context (static and dynamic) modify service attempts rejected by the admission control due to real time PDP contexts Bandwidth limiter for ARP3. More bandwidth is requested, but the request is rejected by the admission control. The MS or the GGSN is allowed to start this procedure.

Data Source

SGSN

Source Field

2075

Source Section

P_SGSN_SESSION_MANAGEMENT

RT_PDP_MOD_FAIL_AVG_LOAD_LIMIT

Number of real time PDP context (static and dynamic) modify service attempts rejected by the admission control due to the real time PDP contexts Average Load limiter. The MS or the GGSN is allowed to start this procedure

Data Source

SGSN

Source Field

2081

Source Section

P_SGSN_SESSION_MANAGEMENT

RT_PDP_MOD_FAIL_DUE_BANDWIDTH

Number of real time PDP context (static and dynamic) modify service attempts rejected by the admission control due to real time PDP contexts Bandwidth limiter. More bandwidth is requested, but the request is rejected by the admission control. In SG4, only MS is allowed to start this procedure.

Data Source

SGSN

Source Field

2061

Source Section

P_SGSN_SESSION_MANAGEMENT

RT_PDP_MOD_SUCC

Number of successful RT PDP context modifications.

Data Source

SGSN

Source Field

2078

Source Section

P_SGSN_SESSION_MANAGEMENT

RT_PDP_QOS_DOWNGRADED

Number of RealTime PDP contexts whose QoS were downgraded due to QoS roaming limitation.

Data Source

SGSN

Source Field

2064

Source Section

P_SGSN_SESSION_MANAGEMENT

RTT_DUR_ATTACH_DEN

Number of samples of round trip time duration for Gb attach procedure. Duration is calculated in Mobility Management and it is the time between AttachAccept and Attach Complete messages.

Data Source

SGSN

Source Field

1295

Source Section

P_SGSN_MOBILITY_MANAGEMENT

RTT_DUR_ATTACH_MAX

Maximum round trip time duration for Gb attach procedure. Duration is calculated in Mobility Management and it is the time between Attach Accept and Attach Complete messages.

Data Source

SGSN

Source Field

1297

Source Section

P_SGSN_MOBILITY_MANAGEMENT

RTT_DUR_ATTACH_MIN

Minimum round trip time duration for Gb attach procedure. Duration is calculated in Mobility Management and it is the time between Attach Accept and Attach Complete messages

Data Source

SGSN

Source Field

1296

Source Section

P_SGSN_MOBILITY_MANAGEMENT

RTT_DUR_ATTACH_SUM

Sum of samples of round trip time duration for Gb attach procedure. Duration is calculated in Mobility Management and it is the time between Attach Accept and Attach Complete messages.

Data Source

SGSN

Source Field

1294

Source Section

P_SGSN_MOBILITY_MANAGEMENT

RTT_DUR_AUTH_DEN

Number of samples of round trip time duration for authentication in all procedures. Duration is calculated in Mobility Management.

Data Source

SGSN

Source Field

1303

Source Section

P_SGSN_MOBILITY_MANAGEMENT

RTT_DUR_AUTH_MAX

Maximum round trip time duration for authentication in all procedures. Duration is calculated in Mobility Management.

Data Source

SGSN

Source Field

1305

Source Section

P_SGSN_MOBILITY_MANAGEMENT

RTT_DUR_AUTH_MIN

Minimum round trip time duration for authentication in all procedures. Duration is calculated in Mobility Management.

Data Source

SGSN

Source Field

1304

Source Section

P_SGSN_MOBILITY_MANAGEMENT

RTT_DUR_AUTH_SUM

Sum of samples of round trip time duration for authentication in all procedures. Duration is calculated in Mobility Management.

Data Source

SGSN

Source Field

1302

Source Section

P_SGSN_MOBILITY_MANAGEMENT

RTT_DUR_IDENTITY_DEN

Number of samples of round trip time duration for identity check in all procedures. Duration is calculated in Mobility Management.

Data Source

SGSN

Source Field

1307

Source Section

P_SGSN_MOBILITY_MANAGEMENT

RTT_DUR_IDENTITY_MAX

Maximum round trip time duration for identity check in all procedures. Duration is calculated in Mobility Management.

Data Source

SGSN

Source Field

1309

Source Section

P_SGSN_MOBILITY_MANAGEMENT

RTT_DUR_IDENTITY_MIN

Minimum round trip time duration for identity check in all procedures. Duration is calculated in Mobility Management.

Data Source

SGSN

Source Field

1308

Source Section

P_SGSN_MOBILITY_MANAGEMENT

RTT_DUR_IDENTITY_SUM

Sum of samples of round trip time duration for identity check in all procedures. Duration is calculated in Mobility Management.

Data Source

SGSN

Source Field

1306

Source Section

P_SGSN_MOBILITY_MANAGEMENT

RTT_DUR_RAU_DEN

Number of samples of round trip time duration for Gb attach procedure. Duration is calculated in Mobility Management and it is the time between RAU Accept and RAU Complete messages.

Data Source

SGSN

Source Field

1299

Source Section

P_SGSN_MOBILITY_MANAGEMENT

RTT_DUR_RAU_MAX

Maximum round trip time duration for Gb RAU procedure. Duration is calculated in Mobility Management and it is the time between RAU Accept and RAU Complete messages.

Data Source

SGSN

Source Field

1301

Source Section

P_SGSN_MOBILITY_MANAGEMENT

RTT_DUR_RAU_MIN

Minimum round trip time duration for Gb attach procedure. Duration is calculated in Mobility Management and it is the time between RAU Acceptand RAU Complete messages.

Data Source

SGSN

Source Field

1300

Source Section

P_SGSN_MOBILITY_MANAGEMENT

RTT_DUR_RAU_SUM

Sum of samples of round trip time duration for Gb attach procedure. Duration is calculated in Mobility Management and it is the time between RAUAccept and RAU Complete messages.

Data Source

SGSN

Source Field

1298

Source Section

P_SGSN_MOBILITY_MANAGEMENT

RTT_DUR_XID_RESET_DEN

Number of samples of round trip time duration for XID reset. Duration is calculated in Mobility Management.

Data Source

SGSN

Source Field

1311

Source Section

P_SGSN_MOBILITY_MANAGEMENT

RTT_DUR_XID_RESET_MAX

Maximum round trip time duration for XID reset. Duration is calculated in Mobility Management.

Data Source

SGSN

Source Field

1313

Source Section

P_SGSN_MOBILITY_MANAGEMENT

RTT_DUR_XID_RESET_MIN

Minimum round trip time duration for XID reset. Duration is calculated in Mobility Management.

Data Source

SGSN

Source Field

1312

Source Section

P_SGSN_MOBILITY_MANAGEMENT

RTT_DUR_XID_RESET_SUM

Sum of samples of round trip time duration for XID reset. Duration is calculated in Mobility Management.

Data Source

SGSN

Source Field

1310

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SGSNRelease

SGSN Release

SUCC_COMBINED_ATTACH

Nr of succ combined GPRS/IMSI attaches.

Data Source

SGSN

Source Field

1002

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_DEACT_SE_CHANGE_BY_HLR

Successful PDP context deactivation due to PDP TYPE or APN changed byHLR.

Data Source

SGSN

Source Field

2127

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_DEACT_SE_GGSN_RESET

Successful PDP context deactivation due to GGSN reset or missing echo response from GGSN.

Data Source

SGSN

Source Field

2126

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_DEACT_SE_MO_DETACH_RAU

Successful PDP context deactivation due to mobile originated detach or inter-PAPU/SGSN RAU

Data Source

SGSN

Source Field

2125

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_DEACT_SE_XID_LLC_SNDP

Successful PDP context deactivation due to problems in XID, LLC or SNDP.

Data Source

SGSN

Source Field

2128

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_GPRS_ATTACH

Nr of succ GPRS attaches.

Data Source

SGSN

Source Field

1000

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_IMPL_COMBINED_DETACH

Nr of implicit combined GPRS/IMSI detaches

Data Source

SGSN

Source Field

1042

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_IMPL_DEACT_SE_COLLISIONS

Successful implicit PDP deactivation when there are different collisions or failings. For example, when subscriber is attached and has a pdp context and then subscriber performs another attach. Old attach is detached implicitly and old pdp-context is deactivated implicitly, before new attach can continue.

Data Source

SGSN

Source Field

2136

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_IMPL_DEACT_SE_REACT

A new PDP context is activated, but the subscriber already has the same PDP context active and the old PDP context is implicitly deactivated (The MS has tried to activate the same context twice).

Data Source

SGSN

Source Field

2135

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_IMPL_DEACT_SERV_MSRT_EXP

Number of GPRS deactivations by the network due to an MSRT expiry.

Data Source

SGSN

Source Field

2020

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_IMPL_GPRS_DETACH

Nr of implicit GPRS detaches

Data Source

SGSN

Source Field

1041

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_IMPL_PDP_CONTEXT_DEACT

Nr of succ implicit PDP context deactivations

Data Source

SGSN

Source Field

2014

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_IMSI_ATTACH

Nr of succ IMSI attaches.

Data Source

SGSN

Source Field

1004

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_INTER_PAPU_RA_LA_UPDAT

Nr of succ inter-PAPU combined LA/RA updates

Data Source

SGSN

Source Field

1015

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_INTER_PAPU_RA_UPDAT

Nr of succ inter-PAPU RA updates

Data Source

SGSN

Source Field

1013

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_INTER_PAPU_RA_UPDAT_IMSI

Nr of succ inter-PAPU RA updates with IMSI attach

Data Source

SGSN

Source Field

1017

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_INTER_SGSN_RA_LA_UPDAT

Nr of succ inter-SGSN combined RA/LA updates

Data Source

SGSN

Source Field

1021

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_INTER_SGSN_RA_UPDAT

Nr of succ inter-SGSN RA updates

Data Source

SGSN

Source Field

1019

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_INTER_SGSN_RA_UPDAT_IMSI

Nr of succ inter-SGSN RA updates with IMSI attach

Data Source

SGSN

Source Field

1023

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_INTRA_PAPU_RA_LA_UPDAT

Nr of succ intra-PAPU combined LA/RA updates

Data Source

SGSN

Source Field

1009

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_INTRA_PAPU_RA_UPDAT

Nr of succ intra-PAPU RA updates

Data Source

SGSN

Source Field

1007

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_INTRA_PAPU_RA_UPDAT_IMSI

Nr of succ intra-PAPU RA updates with IMSI attaches

Data Source

SGSN

Source Field

1011

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_MO_COMBINED_DETACH

Nr of mobile-originated combined GPRS/IMSI detaches

Data Source

SGSN

Source Field

1036

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_MO_GPRS_DETACH

Nr of mobile-originated GPRS detaches

Data Source

SGSN

Source Field

1035

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_MO_IMSI_DETACH

Nr of mobile-originated IMSI detaches

Data Source

SGSN

Source Field

1037

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_MO_PDP_CONT_DEACT_GEN

Total number of successful MO PDP context deactivation procedures.

Data Source

SGSN

Source Field

2112

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_MO_PDP_CONTEXT_ACT

Nr of succ mobile- originated PDP context activations

Data Source

SGSN

Source Field

2000

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_MO_PDP_CONTEXT_DEACT

Nr of succ mobile-originated PDP context deactivations performed due to other cause values than #25, #26, #37 [3GPP TS 24.008].

Data Source

SGSN

Source Field

2004

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_NWR_COMBINED_DETACH

Nr of network requested combined GPRS/IMSI detaches

Data Source

SGSN

Source Field

1039

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_NWR_DEACT_REACT_GGSN_FAIL

Successful deactivation by the network due to GGSN failure.

Data Source

SGSN

Source Field

2117

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_NWR_DEACT_REACT_GGSN_REST

Successful deactivation by the network due to GGSN restart.

Data Source

SGSN

Source Field

2116

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_NWR_GPRS_DETACH

succ network requested GPRS detaches

Data Source

SGSN

Source Field

1038

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_NWR_IMSI_DETACH

Nr of network requested IMSI detaches

Data Source

SGSN

Source Field

1040

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_NWR_PDP_CONT_DEACT_GEN

Total number of successful NWR PDP context deactivation procedures

Data Source

SGSN

Source Field

2113

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_NWR_PDP_CONTEXT_ACT

Nr of succ network requested PDP context activations. Peg retired

Data Source

SGSN

Source Field

2002

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_NWR_PDP_CONTEXT_DEACT

Nr of succ network-requested PDP context deactivations performed due to other cause values than #25, #38, #39 [3GPP TS 24.008].

Data Source

SGSN

Source Field

2006

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_OUTG_INTER_PAPU_RA_UPDAT

Nr of succ outgoing inter- PAPU RA updates

Data Source

SGSN

Source Field

1029

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_OUTG_INTER_SGSN_RA_UPDAT

Nr of succ outgoing inter- SGSN RA updates

Data Source

SGSN

Source Field

1031

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_OUTG_INTER_SYS_RAU

Number of successful outgoing Inter System Handovers. Mobile makes RAupdate from SGSN to 3G SGSN.

Data Source

SGSN

Source Field

1242

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_OUTG_INTRA_PAPU_RAU

Number of successful outgoing intra-PAPU routing area updates

Data Source

SGSN

Source Field

1187

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_PDP_ACT_ROAMING

Number of successful PDP context activation procedures by roaming subscribers

Data Source

SGSN

Source Field

2091

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_PDP_CONT_DEACT_SERVICES

Nr of succ PDP context deactivation

Data Source

SGSN

Source Field

2012

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_PDP_CONT_MODIFY_SERVICES

Nr of succ PDP context modify services

Data Source

SGSN

Source Field

2008

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_PDP_CONTEXT_PARAM_CHANGES

Nr of succ PDP context parameter changes

Data Source

SGSN

Source Field

2010

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_PDP_DEACT_BY_GGSN

Number of successful PDP context deactivation procedures initiated by GGSN.

Data Source

SGSN

Source Field

2093

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_PDP_DEACT_BY_HLR

Number of successful PDP context deactivation procedures initiated by HLR

Data Source

SGSN

Source Field

2095

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_PDP_DEACT_BY_SCP

Number of successful PDP context deactivation procedures initiated by SCP.

Data Source

SGSN

Source Field

2097

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_PDP_DEACT_BY_SGSN

Number of successful PDP context deactivation procedures initiated by SGSN.

Data Source

SGSN

Source Field

2099

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_PDP_MODIFY_BY_BSS

Number of successful PDP context modification procedures initiated by BSS.

Data Source

SGSN

Source Field

2105

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_PDP_MODIFY_BY_GGSN

Number of successful PDP context modification procedures initiated by GGSN

Data Source

SGSN

Source Field

2101

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_PDP_MODIFY_BY_MS

Number of successful PDP context modification procedures initiated by MS

Data Source

SGSN

Source Field

2107

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_PDP_MODIFY_BY_SGSN

Number of successful PDP context modification procedures initiated by SGSN

Data Source

SGSN

Source Field

2103

Source Section

P_SGSN_SESSION_MANAGEMENT

SUCC_PERIODIC_RA_LA_UPDAT

Nr of succ periodic RA/LA updates

Data Source

SGSN

Source Field

1027

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_PERIODICAL_RA_UPDAT

Nr of succ periodic RA updates

Data Source

SGSN

Source Field

1025

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCC_POWER_OFF_DETACH

Nr of power-off detaches

Data Source

SGSN

Source Field

1034

Source Section

P_SGSN_MOBILITY_MANAGEMENT

SUCCESSFULLY_RECEIVED_MT_SMS

Number of successfully delivered mobile-terminated short messages

Data Source

SGSN

Source Field

9001

Source Section

P_SGSN_SMS

SUCCESSFULLY_SENT_IN_MO_SMS

Amount of successfully sent MO SMSs when Camel 3 IN services are used

Data Source

SGSN

Source Field

9004

Source Section

P_SGSN_SMS

SUCCESSFULLY_SENT_MO_SMS

Nr of succly delivered mobile- originated short messages

Data Source

SGSN

Source Field

9000

Source Section

P_SGSN_SMS

UNAC_CAM_INT_PAPU_SGSN_RAU_REQ

The SCP has not accepted the inter-PAPU/SGSN routing area update.

Data Source

SGSN

Source Field

1054

Source Section

P_SGSN_MOBILITY_MANAGEMENT

UNACCEPTED_CAMEL_ATTACH_REQ

The SCP has not accepted the GPRS attach.

Data Source

SGSN

Source Field

1052

Source Section

P_SGSN_MOBILITY_MANAGEMENT

CompUnit Primitive Calculations

The following is a list of primitive calculations for the CompUnit entity.

CompUnitGOS

Dimensioned Grade of Service

Calculation

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT()

NUMHOURS

of hours in Summation Data

Calculation

PeakLoadTime

Peak load time of the processor with in a measurement period as a formatted date/time

Calculation

stringToTime(numToString(PEAK_LOAD_TIME,0),"m%d03/05/03M%S")

PeakLoadTime2

Peak load time of the processor within a measurement period as a formatted date/time

Calculation

```
stringToTime(numToString(PEAK_LOAD_TIME_2,0),"m%d03/05/03M%S")
```

CompUnit Peg Counts

The following is a list of peg counts for the CompUnit entity.

AVE_LOAD_RATE_DEN

Denominator of the ave load rate of the object unit processor

Data Source

SGSN

Source Field

6006

Source Section

P_SGSN_LOAD

AVE_LOAD_RATE_SUM

Nominator of the ave load rate of the object unit processor

Data Source

SGSN

Source Field

6005

Source Section

P_SGSN_LOAD

LOAD_RATE_SUCC_COUNTS

Nr of the succ samples of the load rate.

Data Source

SGSN

Source Field

6009

Source Section

P_SGSN_LOAD

OBJECT_INDEX_2

Index of the object unit integer value

Data Source

SGSN

Source Field

6002

Source Section

P_SGSN_LOAD

OBJECT_NAME

Name of the object unit which is measured

Data Source

SGSN

Source Field

6000

Source Section

P_SGSN_LOAD

OBJECT_STATE

State of the object unit: 00 = WO-EX 37 = SP-EX

Data Source

SGSN

Source Field

6003

Source Section

P_SGSN_LOAD

PEAK_LOAD_RATE_OF_OBJECT

Peak load rate of the object unit processor as a percentage (%)

Data Source

SGSN

Source Field

6004

Source Section

P_SGSN_LOAD

PEAK_LOAD_TIME

Peak load time of the processor with in a measurement period

Data Source

SGSN

Source Field

6007

Source Section

P_SGSN_LOAD

PEAK_LOAD_TIME_2

Peak load time of the processor within a measurement period

Data Source

SGSN

Source Field

6008

Source Section

P_SGSN_LOAD

PERLENSEC

Measurement collection interval (in seconds)

SGSNRelease

SGSN Release

IPEndPoint Primitive Calculations

The following is a list of primitive calculations for the IPEndPoint entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

IPEndPoint Peg Counts

The following is a list of peg counts for the IPEndPoint entity.

DYN_IP_NSVC_PASSED_DATA_BYTES

Amount of downlink data that has passed the dynamic IP NS-VC control.

Data Source

SGSN

Source Field

15000

Source Section

P_SGSN_DIPN

DYN_NSVC_PASSED_DATA_BYTES_PR1

Amount of priority class 1 downlink data that has passed the Dynamic IP NS-VC.

Data Source

SGSN

Source Field

15001

Source Section

P_SGSN_DIPN

DYN_NSVC_PASSED_DATA_BYTES_PR2

Amount of priority class 2 downlink data that has passed the DynamicIP NS-VC.

Data Source

SGSN

Source Field

15003

Source Section

P_SGSN_DIPN

DYN_NSVC_PASSED_DATA_BYTES_PR3

Amount of priority class 3 downlink data that has passed the DynamicIP NS-VC.

Data Source

SGSN

Source Field

15005

Source Section

P_SGSN_DIPN

DYN_NSVC_PASSED_DATA_BYTES_PR4

Amount of priority class 4 downlink data that has passed the DynamicIP NS-VC.

Data Source

SGSN

Source Field

15007

Source Section

P_SGSN_DIPN

DYN_NSVC_PASSED_DATA_BYTES_STR

Amount of priority class Streaming downlink data that has passed the Dynamic IP NS-VC.

Data Source

SGSN

Source Field

15009

Source Section

P_SGSN_DIPN

DYN_NSVC_PASSED_DATA_PACK_PR1

Amount of priority class 1 downlink data that has passed the DynamicIP NS-VC.

Data Source

SGSN

Source Field

15002

Source Section

P_SGSN_DIPN

DYN_NSVC_PASSED_DATA_PACK_PR2

Amount of priority class 2 downlink data that has passed the DynamicIP NS-VC.

Data Source

SGSN

Source Field

15004

Source Section

P_SGSN_DIPN

DYN_NSVC_PASSED_DATA_PACK_PR3

Amount of priority class 3 downlink data that has passed the DynamicIP NS-VC.

Data Source

SGSN

Source Field

15006

Source Section

P_SGSN_DIPN

DYN_NSVC_PASSED_DATA_PACK_PR4

Amount of priority class 4 downlink data that has passed the DynamicIP NS-VC.

Data Source

SGSN

Source Field

15008

Source Section

P_SGSN_DIPN

DYN_NSVC_PASSED_DATA_PACK_STR

Amount of priority class Streaming downlink data that has passed the Dynamic IP NS-VC.

Data Source

SGSN

Source Field

15010

Source Section

P_SGSN_DIPN

DYN_NSVC_UPLINK_DATA_BYTES

Amount of uplink data that has passed the Dynamic IP NS-VC.

Data Source

SGSN

Source Field

15011

Source Section

P_SGSN_DIPN

DYN_NSVC_UPLINK_DATA_PACK

Amount of uplink data that has passed the Dynamic IP NS-VC.

Data Source

SGSN

Source Field

15012

Source Section

P_SGSN_DIPN

IPStartPoint Primitive Calculations

The following is a list of primitive calculations for the IPStartPoint entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

Lac Primitive Calculations

The following is a list of primitive calculations for the Lac entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

MCC_MNC Primitive Calculations

The following is a list of primitive calculations for the MCC_MNC entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

NS_VC Primitive Calculations

The following is a list of primitive calculations for the NS_VC entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

NS_VC Peg Counts

The following is a list of peg counts for the NS_VC entity.

DISC_DATA_DUE_FR_NSVC_CIR_OFLO

Amount of downlink data discarded by the Frame Relay NS-VC control due to CIR overflow.
(Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

12001

Source Section

P_SGSN_NSVC_DATA

FR_NSVC_PASSED_DATA

Amount of downlink data that has passed the Frame Relay NS-VC. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

12000

Source Section

P_SGSN_NSVC_DATA

IP_NSVC_PASSED_DATA_IN_BYTES

Amount of downlink data that has passed the IP NS-VC control. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

12002

Source Section

P_SGSN_NSVC_DATA

NSVC_DISC_DATA_BYTES_PR1

Amount of priority class 1 downlink data discarded by the Frame Relay NS-VC control due to CIR overflow.

Data Source

SGSN

Source Field

12007

Source Section

P_SGSN_NSVC_DATA

NSVC_DISC_DATA_BYTES_PR2

Amount of priority class 2 downlink data discarded by the Frame Relay NS-VC control due to CIR overflow.

Data Source

SGSN

Source Field

12011

Source Section

P_SGSN_NSVC_DATA

NSVC_DISC_DATA_BYTES_PR3

Amount of priority class 3 downlink data discarded by the Frame Relay NS-VC control due to CIR overflow.

Data Source

SGSN

Source Field

12015

Source Section

P_SGSN_NSVC_DATA

NSVC_DISC_DATA_BYTES_PR4

Amount of priority class 4 downlink data discarded by the Frame Relay NS-VC control due to CIR overflow.

Data Source

SGSN

Source Field

12019

Source Section

P_SGSN_NSVC_DATA

NSVC_DISC_DATA_BYTES_STR

Amount of priority class Streaming downlink data discarded by the FrameRelay NS-VC control due to CIR overflow.

Data Source

SGSN

Source Field

12023

Source Section

P_SGSN_NSVC_DATA

NSVC_DISC_DATA_PACKETS_PR1

Amount of priority class 1 downlink data discarded by the Frame Relay NS-VC control due to CIR overflow.

Data Source

SGSN

Source Field

12008

Source Section

P_SGSN_NSVC_DATA

NSVC_DISC_DATA_PACKETS_PR2

Amount of priority class 2 downlink data discarded by the Frame Relay NS-VC control due to CIR overflow.

Data Source

SGSN

Source Field

12012

Source Section

P_SGSN_NSVC_DATA

NSVC_DISC_DATA_PACKETS_PR3

Amount of priority class 3 downlink data discarded by the Frame Relay NS-VC control due to CIR overflow.

Data Source

SGSN

Source Field

12016

Source Section

P_SGSN_NSVC_DATA

NSVC_DISC_DATA_PACKETS_PR4

Amount of priority class 4 downlink data discarded by the Frame Relay NS-VC control due to CIR overflow.

Data Source

SGSN

Source Field

12020

Source Section

P_SGSN_NSVC_DATA

NSVC_DISC_DATA_PACKETS_STR

Amount of priority class Streaming downlink data discarded by the FrameRelay NS-VC control due to CIR overflow.

Data Source

SGSN

Source Field

12024

Source Section

P_SGSN_NSVC_DATA

NSVC_PASSED_DATA_BYTES_PR1

Amount of priority class 1 downlink data that has passed the Frame Relayor Static IP NS-VC

Data Source

SGSN

Source Field

12005

Source Section

P_SGSN_NSVC_DATA

NSVC_PASSED_DATA_BYTES_PR2

Amount of priority class 2 downlink data that has passed the Frame Relayor Static IP NS-VC

Data Source

SGSN

Source Field

12009

Source Section

P_SGSN_NSVC_DATA

NSVC_PASSED_DATA_BYTES_PR3

Amount of priority class 3 downlink data that has passed the Frame Relayor Static IP NS-VC.

Data Source

SGSN

Source Field

12013

Source Section

P_SGSN_NSVC_DATA

NSVC_PASSED_DATA_BYTES_PR4

Amount of prority class 4 downlink data that has passed the Frame Relayor Static IP NS-VC.

Data Source

SGSN

Source Field

12017

Source Section

P_SGSN_NSVC_DATA

NSVC_PASSED_DATA_BYTES_STR

Amount of prority class Streaming downlink data that has passed the Frame Relay or Static IP NS-VC.

Data Source

SGSN

Source Field

12021

Source Section

P_SGSN_NSVC_DATA

NSVC_PASSED_DATA_PACKETS_PR1

Amount of prority class 1 downlink data that has passed the Frame Relayor Static IP NS-VC

Data Source

SGSN

Source Field

12006

Source Section

P_SGSN_NSVC_DATA

NSVC_PASSED_DATA_PACKETS_PR2

Amount of prority class 2 downlink data that has passed the Frame Relayor Static IP NS-VC.

Data Source

SGSN

Source Field

12010

Source Section

P_SGSN_NSVC_DATA

NSVC_PASSED_DATA_PACKETS_PR3

Amount of prority class 3 downlink data that has passed the Frame Relayor Static IP NS-VC.

Data Source

SGSN

Source Field

12014

Source Section

P_SGSN_NSVC_DATA

NSVC_PASSED_DATA_PACKETS_PR4

Amount of prority class 4 downlink data that has passed the Frame Relayor Static IP NS-VC.

Data Source

SGSN

Source Field

12018

Source Section

P_SGSN_NSVC_DATA

NSVC_PASSED_DATA_PACKETS_STR

Amount of prority class Streaming downlink data that has passed the Frame Relay or Static IP NS-VC.

Data Source

SGSN

Source Field

12022

Source Section

P_SGSN_NSVC_DATA

NSVC_UPLINK_DATA_IN_BYTES

Amount of uplink data that has passed the Frame Relay or Static IP NS-VC.

Data Source

SGSN

Source Field

12025

Source Section

P_SGSN_NSVC_DATA

NSVC_UPLINK_DATA_IN_PACKETS

Amount of uplink data that has passed the Frame Relay or Static IP NS-VC.

Data Source

SGSN

Source Field

12026

Source Section

P_SGSN_NSVC_DATA

SHARED_CAP_FROM_ANOTH_FR_NSVC

Amount of downlink capacity borrowed from another FR NS-VC. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

12003

Source Section

P_SGSN_NSVC_DATA

SHARED_CAP_TO_ANOTH_FR_NSVC

Amount of borrowed downlink capacity in bytes to another FR NSVC which is used to pass the downlink data. UPDATED: When the FR NS-VC capacity is shared with another FR NS-VC.

Data Source

SGSN

Source Field

12004

Source Section

P_SGSN_NSVC_DATA

NSE Primitive Calculations

The following is a list of primitive calculations for the NSE entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

PAPU Primitive Calculations

The following is a list of primitive calculations for the PAPU entity.

ACT_RT_PDP_CONT_PAPU

Average amount of all active plus inactive RT PDP contexts per PAPU.

Calculation

ACT_RT_PDP_CON_PER_PAPU_SUM / ACT_RT_PDP_CON_PER_PAPU_DEN

AVE_DYN_PDP_CON_PER_PAPU

Average amount of all active plus inactive dynamic PDP contexts per PAPU.

Calculation

AVE_DYN_PDP_CON_PER_PAPU_SUM / AVE_DYN_PDP_CON_PER_PAPU_DEN

AVE_FIXED_PDP_CON_PER_PAPU

Average amount of all active plus inactive fixed PDP contexts per PAPU.

Calculation

AVE_FIXED_PDP_CON_PER_PAPU_SUM / AVE_FIXED_PDP_CON_PER_PAPU_DEN

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

" "

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

p_avg_ACT_USED_BW_RT_PDP_CTX

Average numbers of actual bandwidth used by RT PDP Contexts. Includes both Gb- and Iu-interfaces.

Calculation

ACT_USED_BW_RT_PDP_CTX_SUM / ACT_USED_BW_RT_PDP_CTX_DEN

p_avg_ACTIVE_SUBS_PER_PAPU

Average number of Attached users having one or more PDP Contexts.

Calculation

ACTIVE_SUBS_PER_PAPU_SUM / ACTIVE_SUBS_PER_PAPU_DEN

p_avg_ATTACH_GB_USERS

Average numbers of number of attached users from Gb interface.

Calculation

AVG_ATTACH_GB_USERS_SUM / AVG_ATTACH_GB_USERS_DEN

p_avg_ATTACH_IU_USERS

Average numbers of number of attached users from Iu interface.

Calculation

AVG_ATTACH_IU_USERS_SUM / AVG_ATTACH_IU_USERS_DEN

p_avg_DIRECT_TUN_PDP_CONT

Average numbers values indicating the number of direct tunnel PDP contexts in the SGSN.

Calculation

AVE_DIRECT_TUN_PDP_CONT_SUM / AVE_DIRECT_TUN_PDP_CONT_DEN

p_avg_GB_PDP_CONT

Average numbers of number of PDP Contexts from Gb interface.

Calculation

$$\text{AVG_GB_PDP_CONT_SUM} / \text{AVG_GB_PDP_CONT_DEN}$$

p_avg_IHSPA_PDP_CONT_PER_PAPU

Average of samples of the amount of I-HSPA PDP Contexts.

Calculation

$$\text{IHSPA_PDP_CONT_PER_PAPU_SUM} / \text{IHSPA_PDP_CONT_PER_PAPU_DEN}$$

p_avg_IHSPA_SUBS_PER_PAPU

Average of samples of the amount of attached I-HSPA users.

Calculation

$$\text{IHSPA_SUBS_PER_PAPU_SUM} / \text{IHSPA_SUBS_PER_PAPU_DEN}$$

p_avg_IU_PDP_CONT

Average numbers of number of PDP Contexts from Iu interface.

Calculation

$$\text{AVG_IU_PDP_CONT_SUM} / \text{AVG_IU_PDP_CONT_DEN}$$

p_avg_PC_CON_PDP

Average numbers of number of priority class Conversational PDP Contexts.

Calculation

$$\text{AVG_PC_CON_PDP_SUM} / \text{AVG_PC_CON_PDP_DEN}$$

p_avg_PC_STR_PDP

Average numbers of number of priority class Streaming PDP Contexts.

Calculation

$$\text{AVG_PC_STR_PDP_SUM} / \text{AVG_PC_STR_PDP_DEN}$$

p_avg_PC1_PDP_CONT

Average numbers of number of priority class 1 PDP Contexts.

Calculation

$$\text{AVG_PC1_PDP_CONT_SUM} / \text{AVG_PC1_PDP_CONT_DEN}$$

p_avg_PC2_PDP_CONT

Average numbers of number of priority class 2 PDP Contexts.

Calculation

$$\text{AVG_PC2_PDP_CONT_SUM} / \text{AVG_PC2_PDP_CONT_DEN}$$

p_avg_PC3_PDP_CONT

Average numbers of number of priority class 3 PDP Contexts.

Calculation

$$\text{AVG_PC3_PDP_CONT_SUM} / \text{AVG_PC3_PDP_CONT_DEN}$$

p_avg_PC4_PDP_CONT

Average numbers of number of priority class 4 PDP Contexts.

Calculation

$$\text{AVG_PC4_PDP_CONT_SUM} / \text{AVG_PC4_PDP_CONT_DEN}$$

PAPUGOS

Dimensioned Grade of Service

Calculation

RT_PDP_CON_PER_PAPU

Average amount of all active plus inactive RT PDP contexts per PAPU.

Calculation

$$\text{RT_PDP_CON_PER_PAPU_SUM} / \text{RT_PDP_CON_PER_PAPU_DEN}$$

USED_RT_BANDW_PER_PAPU

Average bandwidth used by RT PDP contexts per PAPU

Calculation

$$\text{USED_RT_BANDW_PER_PAPU_SUM} / \text{USED_RT_BANDW_PER_PAPU_DEN}$$

PAPU Peg Counts

The following is a list of peg counts for the PAPU entity.

ACT_RT_PDP_CON_PER_PAPU_DEN

Number of samples taken of the amount of active transmitting data RT PDP contexts per PAPU. Used as a denominator when calculating the average amount of active RT PDP contexts per PAPU. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

3091

Source Section

P_SGSN_DATA

ACT_RT_PDP_CON_PER_PAPU_SUM

Sum of sample values indicating the amount of active transmitting data RT PDP contexts per PAPU. Used as a numerator when calculating the average amount of active RT PDP contexts per PAPU. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

3090

Source Section

P_SGSN_DATA

ACT_USED_BW_RT_PDP_CTX_DEN

Number of samples of actual bandwidth used by RT PDP Contexts. Includes both Gb- and Iu-interfaces.

Data Source

SGSN

Source Field

3131

Source Section

P_SGSN_DATA

ACT_USED_BW_RT_PDP_CTX_MIN

Minimum of samples of actual bandwidth used by RT PDP Contexts. Includes both Gb- and Iu-interfaces.

Data Source

SGSN

Source Field

3132

Source Section

P_SGSN_DATA

ACT_USED_BW_RT_PDP_CTX_PEAK

Maximum of samples of actual bandwidth used by RT PDP Contexts. Includes both Gb- and Iu-interfaces.

Data Source

SGSN

Source Field

3133

Source Section

P_SGSN_DATA

ACT_USED_BW_RT_PDP_CTX_SUM

Sum of samples of actual bandwidth used by RT PDP Contexts. Includes both Gb- and Iu-interfaces.

Data Source

SGSN

Source Field

3130

Source Section

P_SGSN_DATA

ACTIVE_SUBS_PER_PAPU_DEN

Sum of samples of number of Attached users having one or more PDP Contexts.

Data Source

SGSN

Source Field

21053

Source Section

P_SGSN_PAPU_USER

ACTIVE_SUBS_PER_PAPU_SUM

Sum of number of Attached users having one or more PDP Contexts.

Data Source

SGSN

Source Field

21052

Source Section

P_SGSN_PAPU_USER

ALL_OWN_DN_INQUIRIES

Number of successful domain name server inquiries.

Data Source

SGSN

Source Field

7000

Source Section

P_SGSN_DNS

AVE_ATTACH_SUBSCR_PER_PAPU_DEN

Denominator of ave attached subscribers per PAPU (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

3023

Source Section

P_SGSN_DATA

AVE_ATTACH_SUBSCR_PER_PAPU_SUM

Nominator of ave attached subscribers per PAPU (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

3022

Source Section

P_SGSN_DATA

AVE_BSSGB_BUFF_UTIL_PR1_DEN

Denominator of ave BSSGP buffer utilisation

Data Source

SGSN

Source Field

3026

Source Section

P_SGSN_DATA

AVE_BSSGB_BUFF_UTIL_PR2_DEN

Number of samples taken of BSSGP utilisation in priority class 2. Used as denominator when calculating the average utilisation rate of the BSSGP buffer.

Data Source

SGSN

Source Field

3028

Source Section

P_SGSN_DATA

AVE_BSSGB_BUFF_UTIL_PR3_DEN

Number of samples taken of BSSGP buffer utilisation in priority class 3. Used as denominator when calculating the average utilisation rate of the BSSGP buffer.

Data Source

SGSN

Source Field

3030

Source Section

P_SGSN_DATA

AVE_BSSGB_BUFF_UTIL_PR4_DEN

Number of samples taken of BSSGP buffer utilisation in priority class 4. Used as denominator when calculating the average utilisation rate of the BSSGP buffer.

Data Source

SGSN

Source Field

3032

Source Section

P_SGSN_DATA

AVE_BSSGP_BUFF_UTI_DEN_PR_STR

Number of samples taken of BSSGP utilisation in priority streaming. Used as denominator when calculating the average utilisation rate of the BSSGP buffer.

Data Source

SGSN

Source Field

3064

Source Section

P_SGSN_DATA

AVE_BSSGP_BUFF_UTI_SUM_PR_STR

Sum of sample values indicating BSSGP buffer utilisation (0-100 %) in priority streaming. Used as numerator when calculating the average utilisation rate of the BSSGP buffer.

Data Source

SGSN

Source Field

3063

Source Section

P_SGSN_DATA

AVE_BSSGP_BUFF_UTIL_PR1_SUM

Sum of sample values indicating BSSGP buffer utilisation (0 100 %) in priority class 1. Used as numerator when calculating the average utilisation rate of the BSSGP buffer. Note: Only downlink data is stored to buffer.

Data Source

SGSN

Source Field

3025

Source Section

P_SGSN_DATA

AVE_BSSGP_BUFF_UTIL_PR2_SUM

Sum of sample values indicating BSSGP buffer utilisation (0 100 %) in priority class 2. Used as numerator when calculating the average utilisation rate of the BSSGP buffer.

Data Source

SGSN

Source Field

3027

Source Section

P_SGSN_DATA

AVE_BSSGP_BUFF_UTIL_PR3_SUM

Nominator of ave BSSGP buffer utilisation

Data Source

SGSN

Source Field

3029

Source Section

P_SGSN_DATA

AVE_BSSGP_BUFF_UTIL_PR4_SUM

Sum of sample values indicating BSSGP buffer utilisation (0 100 %) in priority class 4. Used as numerator when calculating the average utilisation rate of the BSSGP buffer.

Data Source

SGSN

Source Field

3031

Source Section

P_SGSN_DATA

AVE_CELL_COUNT_PER_PAPU_DEN

Denominator of ave cell count per PAPU

Data Source

SGSN

Source Field

3020

Source Section

P_SGSN_DATA

AVE_CELL_COUNT_PER_PAPU_SUM

Nominator of ave cell count per PAPU. Sum of samples taken

Data Source

SGSN

Source Field

3019

Source Section

P_SGSN_DATA

AVE_DIRECT_TUN_PDP_CONT_DEN

Number of samples taken of direct tunnel PDP contexts in the SGSN. Used as a denominator when calculating the average rate of the direct tunnel PDP contexts.

Data Source

SGSN

Source Field

21057

Source Section

P_SGSN_PAPU_USER

AVE_DIRECT_TUN_PDP_CONT_SUM

Sum of sample values indicating the number of direct tunnel PDP contexts in the SGSN. Used as a numerator when calculating the average rate of the direct tunnel PDP contexts

Data Source

SGSN

Source Field

21056

Source Section

P_SGSN_PAPU_USER

AVE_DYN_PDP_CON_PER_PAPU_DEN

Number of samples taken of the amount of all active plus inactive dynamic PDP contexts per PAPU. Used as a denominator when calculating the average amount of all active plus inactive dynamic PDP contexts per PAPU. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

3083

Source Section

P_SGSN_DATA

AVE_DYN_PDP_CON_PER_PAPU_SUM

Sum of sample values indicating the amount of all active plus inactive dynamic PDP contexts per PAPU. Used as a numerator when calculating the average amount of all active plus inactive dynamic PDP contexts per PAPU. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

3082

Source Section

P_SGSN_DATA

AVE_FIXED_PDP_CON_PER_PAPU_DEN

Number of samples taken of the amount of all active plus inactive fixed PDP contexts per PAPU. Used as denominator when calculating the average amount of all active plus inactive fixed PDP contexts per PAPU. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

3079

Source Section

P_SGSN_DATA

AVE_FIXED_PDP_CON_PER_PAPU_SUM

Sum of sample values indicating the amount of all active plus inactive fixed PDP contexts per PAPU. Used as a numerator when calculating the average amount of all active plus inactive fixed PDP contexts per PAPU. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

3078

Source Section

P_SGSN_DATA

AVE_GTP_BUFF_UTIL_DEN

Denominator of ave GTP buffer utilisation. Count of samples taken

Data Source

SGSN

Source Field

3005

Source Section

P_SGSN_DATA

AVE_GTP_BUFF_UTIL_SUM

Nominator of ave GTP buffer utilisation

Data Source

SGSN

Source Field

3004

Source Section

P_SGSN_DATA

AVG_ATTACH_GB_USERS_DEN

PAPU USER AVG ATT GB USERS DEN

Data Source

SGSN

Source Field

21001

Source Section

P_SGSN_PAPU_USER

AVG_ATTACH_GB_USERS_SUM

Sum of samples of number of attached users from Gb interface.

Data Source

SGSN

Source Field

21000

Source Section

P_SGSN_PAPU_USER

AVG_ATTACH_IU_USERS_DEN

Number of samples of number of attached users from Iu interface.

Data Source

SGSN

Source Field

21005

Source Section

P_SGSN_PAPU_USER

AVG_ATTACH_IU_USERS_SUM

Sum of samples of number of attached users from Iu interface.

Data Source

SGSN

Source Field

21004

Source Section

P_SGSN_PAPU_USER

AVG_GB_PDP_CONT_DEN

Number of samples of number of PDP Contexts from Gb interface.

Data Source

SGSN

Source Field

21043

Source Section

P_SGSN_PAPU_USER

AVG_GB_PDP_CONT_SUM

Sum of samples of number of PDP Contexts from Gb interface.

Data Source

SGSN

Source Field

21042

Source Section

P_SGSN_PAPU_USER

AVG_IU_PDP_CONT_DEN

Number of samples of number of PDP Contexts from Iu interface.

Data Source

SGSN

Source Field

21047

Source Section

P_SGSN_PAPU_USER

AVG_IU_PDP_CONT_SUM

Sum of samples of number of PDP Contexts from Iu interface.

Data Source

SGSN

Source Field

21046

Source Section

P_SGSN_PAPU_USER

AVG_PC_CON_PDP_DEN

Number of samples of number of priority class Conversational PDP Contexts.

Data Source

SGSN

Source Field

21039

Source Section

P_SGSN_PAPU_USER

AVG_PC_CON_PDP_SUM

Sum of samples of number of priority class Conversational PDP Contexts.

Data Source

SGSN

Source Field

21038

Source Section

P_SGSN_PAPU_USER

AVG_PC_STR_PDP_DEN

Number of samples of number of priority class Streaming PDP Contexts.

Data Source

SGSN

Source Field

21035

Source Section

P_SGSN_PAPU_USER

AVG_PC_STR_PDP_SUM

Sum of samples of number of priority class Streaming PDP Contexts.

Data Source

SGSN

Source Field

21034

Source Section

P_SGSN_PAPU_USER

AVG_PC1_PDP_CONT_DEN

Number of samples of number of priority class 1 PDP Contexts.

Data Source

SGSN

Source Field

21019

Source Section

P_SGSN_PAPU_USER

AVG_PC1_PDP_CONT_SUM

Sum of samples of number of priority class 1 PDP Contexts.

Data Source

SGSN

Source Field

21018

Source Section

P_SGSN_PAPU_USER

AVG_PC2_PDP_CONT_DEN

Number of samples of number of priority class 2 PDP Contexts.

Data Source

SGSN

Source Field

21023

Source Section

P_SGSN_PAPU_USER

AVG_PC2_PDP_CONT_SUM

Sum of samples of number of priority class 2 PDP Contexts.

Data Source

SGSN

Source Field

21022

Source Section

P_SGSN_PAPU_USER

AVG_PC3_PDP_CONT_DEN

Number of samples of number of priority class 3 PDP Contexts.

Data Source

SGSN

Source Field

21027

Source Section

P_SGSN_PAPU_USER

AVG_PC3_PDP_CONT_SUM

Sum of samples of number of priority class 3 PDP Contexts.

Data Source

SGSN

Source Field

21026

Source Section

P_SGSN_PAPU_USER

AVG_PC4_PDP_CONT_DEN

Number of samples of number of priority class 4 PDP Contexts.

Data Source

SGSN

Source Field

21031

Source Section

P_SGSN_PAPU_USER

AVG_PC4_PDP_CONT_SUM

Sum of samples of number of priority class 4 PDP Contexts.

Data Source

SGSN

Source Field

21030

Source Section

P_SGSN_PAPU_USER

BSSGP_DROPPED_BYTES_PR1

The amount of priority class 1 data in bytes that has been dropped from Gb buffer due to redundancy elimination. Duplicated LLC frames that are acknowledged by the MS are detected and dropped.

Data Source

SGSN

Source Field

3058

Source Section

P_SGSN_DATA

BSSGP_DROPPED_BYTES_PR2

The amount of priority class 2 data in bytes that has been dropped from Gb buffer due to redundancy elimination. Duplicated LLC frames that are acknowledged by the MS are detected and dropped.

Data Source

SGSN

Source Field

3059

Source Section

P_SGSN_DATA

BSSGP_DROPPED_BYTES_PR3

The amount of priority class 3 data in bytes that has been dropped from Gb buffer due to redundancy elimination. Duplicated LLC frames that are acknowledged by the MS are detected and dropped.

Data Source

SGSN

Source Field

3060

Source Section

P_SGSN_DATA

BSSGP_DROPPED_BYTES_PR4

The amount of priority class 4 data in bytes that has been dropped from Gb buffer due to redundancy elimination. Duplicated LLC frames that are acknowledged by the MS are detected and dropped.

Data Source

SGSN

Source Field

3061

Source Section

P_SGSN_DATA

BSSGP_LOST_DATA_DUE_BUF_PR_STR

Amount of downlink BSSGP bytes in priority streaming, which are discarded due to Gb buffer overflow.

Data Source

SGSN

Source Field

3066

Source Section

P_SGSN_DATA

BSSGP_LOST_DATA_DUE_BUFFER_PR1

Amount of downlink BSSGP bytes in priority class 1, which are discarded due to Gb buffer overflow or RED algorithm.

Data Source

SGSN

Source Field

3037

Source Section

P_SGSN_DATA

BSSGP_LOST_DATA_DUE_BUFFER_PR2

Amount of downlink BSSGP bytes in priority class 2, which are discarded due to Gb buffer overflow or RED algorithm.

Data Source

SGSN

Source Field

3038

Source Section

P_SGSN_DATA

BSSGP_LOST_DATA_DUE_BUFFER_PR3

Amount of downlink BSSGP bytes in priority class 3, which are discarded due to Gb buffer overflow or RED algorithm.

Data Source

SGSN

Source Field

3039

Source Section

P_SGSN_DATA

BSSGP_LOST_DATA_DUE_BUFFER_PR4

Amount of downlink BSSGP bytes in priority class 4, which are discarded due to Gb buffer overflow or RED algorithm.

Data Source

SGSN

Source Field

3040

Source Section

P_SGSN_DATA

BYTES_IN_FOR_IPV6_HC_IN_SND CP

Sum of bytes going in for IPv6 header compression and bytes received from IPv6 (header) decompression.

Data Source

SGSN

Source Field

3055

Source Section

P_SGSN_DATA

BYTES_IN_FOR_IPV6_HC_SNDPCP_OF

Number of times counter 003055 has overflowed.

Data Source

SGSN

Source Field

3141

Source Section

P_SGSN_DATA

BYTES_IN_FOR_V42BIS_IN_SNDP

Uncompressed V.42bis bytes

Data Source

SGSN

Source Field

3010

Source Section

P_SGSN_DATA

BYTES_IN_FOR_V42BIS_SNDP_OF

Number of times counter 003010 has overflowed.

Data Source

SGSN

Source Field

3139

Source Section

P_SGSN_DATA

BYTES_IN_FOR_VJHC_IN_SNDP

Uncompressed VJHC bytes

Data Source

SGSN

Source Field

3008

Source Section

P_SGSN_DATA

BYTES_IN_FOR_VJHC_SNDP_OFL

Number of times counter 003008 has overflowed.

Data Source

SGSN

Source Field

3137

Source Section

P_SGSN_DATA

BYTES_OUT_OF_IPV6_HC_IN_SNDP

Sum of bytes coming out of IPv6 header compression and bytes going in for IPv6 (header) decompression.

Data Source

SGSN

Source Field

3056

Source Section

P_SGSN_DATA

BYTES_OUT_OF_IPV6_HC_SNDP_OFL

Number of times counter 003056 has overflowed.

Data Source

SGSN

Source Field

3142

Source Section

P_SGSN_DATA

BYTES_OUT_OF_V42BIS_IN_SNDP

Compressed V.42bis bytes

Data Source

SGSN

Source Field

3011

Source Section

P_SGSN_DATA

BYTES_OUT_OF_V42BIS_SNDP_OF

Number of times counter 003011 has overflowed.

Data Source

SGSN

Source Field

3140

Source Section

P_SGSN_DATA

BYTES_OUT_OF_VJHC_IN_SNDP

Compressed VJHC bytes.

Data Source

SGSN

Source Field

3009

Source Section

P_SGSN_DATA

BYTES_OUT_OF_VJHC_SNDP_OF

Number of times counter 003009 has overflowed.

Data Source

SGSN

Source Field

3138

Source Section

P_SGSN_DATA

DELETED_UPLINK_GB_FRAMES

Amount of uplink Frame Relay layer frames deleted because of an overload situation in the PAPI.

Data Source

SGSN

Source Field

3054

Source Section

P_SGSN_DATA

DEST_NOT_FOUND_RAN_INFO_MSG

Number of RAN information messages that have been discarded due to the lack of proper destination.

Data Source

SGSN

Source Field

3099

Source Section

P_SGSN_DATA

DEST_NOT_FOUND_RAN_INFO_REQ

Number of RAN information request messages that have been discarded due to the lack of proper destination.

Data Source

SGSN

Source Field

3101

Source Section

P_SGSN_DATA

DIRECT_TUN_CHANGES_1T_TO_2T

Number of GTP tunnel changes in the SGSN from a direct tunnel to two GTP tunnels.

Data Source

SGSN

Source Field

21060

Source Section

P_SGSN_PAPU_USER

DIRECT_TUN_CHANGES_2T_TO_1T

Number of GTP tunnel changes in the SGSN from two GTP tunnels to a direct tunnel.

Data Source

SGSN

Source Field

21061

Source Section

P_SGSN_PAPU_USER

DIRECT_TUN_NOT_ESTAB_DUE_APN

Number of direct tunnels not established due to APN not in the list.

Data Source

SGSN

Source Field

21064

Source Section

P_SGSN_PAPU_USER

DIRECT_TUN_NOT_ESTAB_DUE_CAMEL

Number of direct tunnels not established due to CAMEL.

Data Source

SGSN

Source Field

21062

Source Section

P_SGSN_PAPU_USER

DIRECT_TUN_NOT_ESTAB_DUE_GTPV

Number of direct tunnels not established due to different GTP versions.

Data Source

SGSN

Source Field

21066

Source Section

P_SGSN_PAPU_USER

DIRECT_TUN_NOT_ESTAB_DUE_IPV

Number of direct tunnels not established due to different IP versions.

Data Source

SGSN

Source Field

21065

Source Section

P_SGSN_PAPU_USER

DIRECT_TUN_NOT_ESTAB_DUE_LI

Number of direct tunnels not established due to lawful interception.

Data Source

SGSN

Source Field

21063

Source Section

P_SGSN_PAPU_USER

DIRECT_TUN_PDP_CONT_MIN

Minimum value of direct tunnel PDP contexts in the SGSN.

Data Source

SGSN

Source Field

21058

Source Section

P_SGSN_PAPU_USER

DIRECT_TUN_PDP_CONT_PEAK

Peak value of direct tunnel PDP contexts in the SGSN.

Data Source

SGSN

Source Field

21059

Source Section

P_SGSN_PAPU_USER

DIRECT_TUN_TO_TWO_DUE_CAMEL

Number of direct tunnels changed to two tunnels due to CAMEL service activation.

Data Source

SGSN

Source Field

21068

Source Section

P_SGSN_PAPU_USER

DIRECT_TUN_TO_TWO_DUE_LI

Number of direct tunnels changed to two tunnels due to lawful interception.

Data Source

SGSN

Source Field

21069

Source Section

P_SGSN_PAPU_USER

DIRECT_TUN_TO_TWO_DUE_SRNS_RE

Number of direct tunnels changed to two tunnels due to SRNS relocation.

Data Source

SGSN

Source Field

21067

Source Section

P_SGSN_PAPU_USER

DISC_ETHER_PACKETS_DUE_OVERL

In case of unit overload, the ethernet driver might discard incoming packets

Data Source

SGSN

Source Field

3053

Source Section

P_SGSN_DATA

DISCARDED_GTP_BYTES

When a downlink (acknowledged LLC) GTP PDU is discarded because the GTP buffer is full or because the connection between the SGSN and the GGSN is broken, or the received packet is invalid or malformed. When a downlink (unacknowledged LLC) PDU is discarded because the connection between the SGSN and the BSS is broken, or the connection between the SGSN and the GGSN is broken, or the received packet is invalid or malformed. The subscriber has a CS call ongoing when the packet is received.

Data Source

SGSN

Source Field

3145

Source Section

P_SGSN_DATA

DISCARDED_GTP_PACKETS

Amount of discarded GTP packets

Data Source

SGSN

Source Field

3007

Source Section

P_SGSN_DATA

DROPPED_DL_BYTES_DATA_LIMITER

Dropped downlink data in bytes due Data Limiter.

Data Source

SGSN

Source Field

3134

Source Section

P_SGSN_DATA

FAIL_IHSPA_INTER_PAPU_RAU

Number of failed I-HSPA inter PAPU RA updates.

Data Source

SGSN

Source Field

21105

Source Section

P_SGSN_PAPU_USER

FAIL_IHSPA_INTER_SGSN_RAU

Number of failed I-HSPA inter SGSN RA updates.

Data Source

SGSN

Source Field

21115

Source Section

P_SGSN_PAPU_USER

FAIL_IHSPA_INTRA_PAPU_RAU

Number of failed I-HSPA intra PAPU RA updates.

Data Source

SGSN

Source Field

21095

Source Section

P_SGSN_PAPU_USER

FAIL_INTER_PAPU_2G_IHSPA_SHO

Number of failed I-HSPA inter PAPU 2G to I-HSPA Inter System Hand Overs.

Data Source

SGSN

Source Field

21107

Source Section

P_SGSN_PAPU_USER

FAIL_INTER_PAPU_3G_IHSPA_SHO

Number of failed I-HSPA inter PAPU 3G to I-HSPA Inter System Hand Overs.

Data Source

SGSN

Source Field

21111

Source Section

P_SGSN_PAPU_USER

FAIL_INTER_PAPU_IHSPA_2G_SHO

Number of failed I-HSPA inter PAPU I-HSPA to 2G Inter System Hand Overs.

Data Source

SGSN

Source Field

21109

Source Section

P_SGSN_PAPU_USER

FAIL_INTER_PAPU_IHSPA_3G_SHO

Number of failed I-HSPA inter PAPU I-HSPA to 3G Inter System Hand Overs.

Data Source

SGSN

Source Field

21113

Source Section

P_SGSN_PAPU_USER

FAIL_INTRA_PAPU_2G_IHSPA_SHO

Number of failed I-HSPA intra PAPU 2G to I-HSPA Inter System Hand Overs.

Data Source

SGSN

Source Field

21097

Source Section

P_SGSN_PAPU_USER

FAIL_INTRA_PAPU_3G_IHSPA_SHO

Number of failed I-HSPA intra PAPU 3G to I-HSPA Inter System Hand Overs.

Data Source

SGSN

Source Field

21101

Source Section

P_SGSN_PAPU_USER

FAIL_INTRA_PAPU_IHSPA_2G_SHO

Number of failed I-HSPA intra PAPU I-HSPA to 2G Inter System Hand Overs.

Data Source

SGSN

Source Field

21099

Source Section

P_SGSN_PAPU_USER

FAIL_INTRA_PAPU_IHSPA_3G_SHO

Number of failed I-HSPA intra PAPU I-HSPA to 3G Inter System Hand Overs.

Data Source

SGSN

Source Field

21103

Source Section

P_SGSN_PAPU_USER

FAILED_ATTACH_RAU_MAX_USER_CAP

No. of attach and inter-PAPU/SGSN routing area update attempts that failed because the max user capacity of PAPU has been reached, and PAPU cannot accept new users.

Data Source

SGSN

Source Field

3057

Source Section

P_SGSN_DATA

FAILED_OWN_DN_INQUIRIES

Number of failed domain name server inquiries.

Data Source

SGSN

Source Field

7001

Source Section

P_SGSN_DNS

FO_NAME_INQS_FAIL_HOST_NF

Number of unsuccessful DNS inquiries where the target host is not in current network with error cause host not found received from DNS.

Data Source

SGSN

Source Field

7010

Source Section

P_SGSN_DNS

FO_NAME_INQS_FAIL_NO_ADDRESS

Number of unsuccessful DNS inquiries where the target host is not in current network with error cause no address available received from DNS.

Data Source

SGSN

Source Field

7013

Source Section

P_SGSN_DNS

FO_NAME_INQS_FAIL_NO_RECOVERY

Number of unsuccessful DNS inquiries where the target host is not in current network with error cause unexpected server failure which cannot be recovered received from DNS.

Data Source

SGSN

Source Field

7012

Source Section

P_SGSN_DNS

FO_NAME_INQS_FAIL_TRY_AGAIN

Number of unsuccessful DNS inquiries where the target host is not in current network with error cause temporary error received from DNS.

Data Source

SGSN

Source Field

7011

Source Section

P_SGSN_DNS

FO_NAME_INQS_FAIL_UNSPEC_REAS

Number of unsuccessful DNS inquiries where the target host is not in current network due to unspecified reason.

Data Source

SGSN

Source Field

7014

Source Section

P_SGSN_DNS

GB_PDP_ACT_ADMISSION_FAIL_STR

Number of failed Gb PDP context activation requests in conversational priority.

Data Source

SGSN

Source Field

21083

Source Section

P_SGSN_PAPU_USER

GB_PDP_ACT_REQ_STR

Number of Gb PDP context activation requests in conversational priority.

Data Source

SGSN

Source Field

21082

Source Section

P_SGSN_PAPU_USER

GTP_DATA_BYTES_SENT_IN_DL_OFL

Number of times counter 003003 has overflowed.

Data Source

SGSN

Source Field

3136

Source Section

P_SGSN_DATA

GTP_DATA_BYTES_SENT_IN_UL_OFL

Number of times counter 003002 has overflowed.

Data Source

SGSN

Source Field

3135

Source Section

P_SGSN_DATA

GTP_DATA_IN_BYTES_SENT_IN_DL

GTP data in bytes sent in the downlink direction

Data Source

SGSN

Source Field

3003

Source Section

P_SGSN_DATA

GTP_DATA_IN_BYTES_SENT_IN_UL

GTP data in bytes sent in the uplink direction

Data Source

SGSN

Source Field

3002

Source Section

P_SGSN_DATA

GTP_PACKETS_SENT_IN_DL

GTP packets sent in the downlink direction

Data Source

SGSN

Source Field

3001

Source Section

P_SGSN_DATA

GTP_PACKETS_SENT_IN_UL

GTP packets sent in the uplink direction

Data Source

SGSN

Source Field

3000

Source Section

P_SGSN_DATA

IHSPA_PDP_CONT_PER_PAPU_DEN

Number of samples of the amount of I-HSPA PDP Contexts.

Data Source

SGSN

Source Field

21091

Source Section

P_SGSN_PAPU_USER

IHSPA_PDP_CONT_PER_PAPU_SUM

Sum of samples of the amount of I-HSPA PDP Contexts.

Data Source

SGSN

Source Field

21090

Source Section

P_SGSN_PAPU_USER

IHSPA_SUBS_PER_PAPU_DEN

Number of samples of the amount of attached I-HSPA users.

Data Source

SGSN

Source Field

21087

Source Section

P_SGSN_PAPU_USER

IHSPA_SUBS_PER_PAPU_SUM

Sum of samples of the amount of attached I-HSPA users.

Data Source

SGSN

Source Field

21086

Source Section

P_SGSN_PAPU_USER

IU_PDP_ACT_ADMISSION_FAIL_CONV

Number of failed Iu PDP context activation requests in conversational priority.

Data Source

SGSN

Source Field

21081

Source Section

P_SGSN_PAPU_USER

IU_PDP_ACT_ADMISSION_FAIL_STR

Number of failed Iu PDP context activation requests in streaming priority.

Data Source

SGSN

Source Field

21085

Source Section

P_SGSN_PAPU_USER

IU_PDP_ACT_REQ_CONV

Number of Iu PDP context activation requests in conversational priority.

Data Source

SGSN

Source Field

21080

Source Section

P_SGSN_PAPU_USER

IU_PDP_ACT_REQ_STR

Number of Iu PDP context activation requests in streaming priority.

Data Source

SGSN

Source Field

21084

Source Section

P_SGSN_PAPU_USER

LLC_FRAMES_ERR_RECEIVED_UL

Number of erroneously received LLC data frames in case of error detection in the SGSN.

Data Source

SGSN

Source Field

3143

Source Section

P_SGSN_DATA

LLC_FRAMES_RECEIVED_UL

Number of successfully received LLC data frames.

Data Source

SGSN

Source Field

3112

Source Section

P_SGSN_DATA

LLC_FRAMES_RETRANSMITTED_DL

Number of retransmitted LLC data frames in LLC acknowledge mode.

Data Source

SGSN

Source Field

3144

Source Section

P_SGSN_DATA

LLC_FRAMES_SENT_DL

Number of successfully sent LLC data frames.

Data Source

SGSN

Source Field

3113

Source Section

P_SGSN_DATA

LLC_KBYTES_RECEIVED_UL

Amount of successfully received LLC data in KB.

Data Source

SGSN

Source Field

3110

Source Section

P_SGSN_DATA

LLC_KBYTES_SENT_DL

Amount of successfully sent LLC data in KB.

Data Source

SGSN

Source Field

3111

Source Section

P_SGSN_DATA

LLGMM_PAGING_ATTEMPTS

Number of started PS pagings. The number does not include resent PS pagings. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

5003

Source Section

P_SGSN_PAGING

MIN_ACT_RT_PDP_CON_PER_PAPU

Minimum number of active transmitting data RT PDP contexts per PAPU. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

3092

Source Section

P_SGSN_DATA

MIN_ACTIVE_SUBS_PER_PAPU

Minimum of samples of Attached users having one or more PDP Context.

Data Source

SGSN

Source Field

21054

Source Section

P_SGSN_PAPU_USER

MIN_ATTACH_GB_USERS

Minimum of samples of number of attached users from Gb interface.

Data Source

SGSN

Source Field

21002

Source Section

P_SGSN_PAPU_USER

MIN_ATTACH_IU_USERS

Minimum of samples of number of attached users from Iu interface.

Data Source

SGSN

Source Field

21006

Source Section

P_SGSN_PAPU_USER

MIN_ATTACH_USERS_GB_IU

Minimum sum of samples of number of attached users from Iu and Gb interfaces.

Data Source

SGSN

Source Field

21008

Source Section

P_SGSN_PAPU_USER

MIN_DYN_PDP_CON_PER_PAPU

Minimum number of all active plus inactive dynamic PDP contexts per PAPU. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

3084

Source Section

P_SGSN_DATA

MIN_FIXED_PDP_CON_PER_PAPU

Minimum number of all active plus inactive fixed PDP contexts per PAPU. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

3080

Source Section

P_SGSN_DATA

MIN_GB_PDP_CONT

Minimum of samples of number of PDP Contexts from Gb interface.

Data Source

SGSN

Source Field

21044

Source Section

P_SGSN_PAPU_USER

MIN_IHSPA_PDP_CONT_PER_PAPU

Minimum of samples of the amount of I-HSPA PDP Contexts.

Data Source

SGSN

Source Field

21092

Source Section

P_SGSN_PAPU_USER

MIN_IHSPA_SUBS_PER_PAPU

Minimum of samples of the amount of attached I-HSPA users.

Data Source

SGSN

Source Field

21088

Source Section

P_SGSN_PAPU_USER

MIN_IU_PDP_CONT

Minimum of samples of number of PDP Contexts from Iu interface.

Data Source

SGSN

Source Field

21048

Source Section

P_SGSN_PAPU_USER

MIN_PC_CON_PDP_CONT

Minimum of samples of number of priority class Conversational PDP Contexts.

Data Source

SGSN

Source Field

21040

Source Section

P_SGSN_PAPU_USER

MIN_PC_STR_PDP_CONT

Minimum of samples of number of priority class Streaming PDP Contexts.

Data Source

SGSN

Source Field

21036

Source Section

P_SGSN_PAPU_USER

MIN_PC1_PDP_CONT

Minimum of samples of number of priority class 1 PDP Contexts.

Data Source

SGSN

Source Field

21020

Source Section

P_SGSN_PAPU_USER

MIN_PC2_PDP_CONT

Minimum of samples of number of priority class 2 PDP Contexts.

Data Source

SGSN

Source Field

21024

Source Section

P_SGSN_PAPU_USER

MIN_PC3_PDP_CONT

Minimum of samples of number of priority class 3 PDP Contexts.

Data Source

SGSN

Source Field

21028

Source Section

P_SGSN_PAPU_USER

MIN_PC4_PDP_CONT

Minimum of samples of number of priority class 4 PDP Contexts.

Data Source

SGSN

Source Field

21032

Source Section

P_SGSN_PAPU_USER

MIN_PDP_CONT_GB_IU

Minimum sum of samples of number of PDP Contexts from Gb and Iu interfaces.

Data Source

SGSN

Source Field

21050

Source Section

P_SGSN_PAPU_USER

MIN_RT_PDP_CON_PER_PAPU

Minimum number of all active plus inactive RT PDP contexts per PAPU. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

3088

Source Section

P_SGSN_DATA

MIN_USED_RT_BANDW_PER_PAPU

Minimum used bandwidth by RT PDP contexts per PAPU.

Data Source

SGSN

Source Field

3096

Source Section

P_SGSN_DATA

NAME_INQS_FAIL_HOST_NOT_FOUND

Number of unsuccessful domain name server inquiries that failed due to host not found [RFC 2553].

Data Source

SGSN

Source Field

7004

Source Section

P_SGSN_DNS

NAME_INQS_FAIL_NO_ADDRESS

Number of unsuccessful domain name server inquiries that failed due to no address available [RFC 2553].

Data Source

SGSN

Source Field

7007

Source Section

P_SGSN_DNS

NAME_INQS_FAIL_NO_RECOVERY

Number of unsuccessful domain name server inquiries that failed due to unexpected server failure which cannot be recovered [RFC 2553].

Data Source

SGSN

Source Field

7006

Source Section

P_SGSN_DNS

NAME_INQS_FAIL_TRY_AGAIN

Number of unsuccessful domain name server inquiries that failed due to temporary error [RFC 2553].

Data Source

SGSN

Source Field

7005

Source Section

P_SGSN_DNS

NAME_INQS_FAIL_UNSPEC_REASON

Number of unsuccessful domain name server inquiries that failed due to unspecified reason [RFC 2553].

Data Source

SGSN

Source Field

7008

Source Section

P_SGSN_DNS

NSVC_DISC_DATA_CIR_OVERFLOW

Amount of NS-VC discarded downlink data. Peg retired

Data Source

SGSN

Source Field

3018

Source Section

P_SGSN_DATA

NSVC_DISC_DATA_PACKETS_PR_STR

Number of data packets in priority streaming discarded by NS-VC CIR flow control when a packet lifetime expires.

Data Source

SGSN

Source Field

3068

Source Section

P_SGSN_DATA

NSVC_DISC_DATA_PACKETS_PR1

Number of data packets in priority class 1 discarded by NS-VC CIR flow control when packet lifetime expires.

Data Source

SGSN

Source Field

3049

Source Section

P_SGSN_DATA

NSVC_DISC_DATA_PACKETS_PR2

Number of data packets in priority class 2 discarded by NS-VC CIR flow control when packet lifetime expires.

Data Source

SGSN

Source Field

3050

Source Section

P_SGSN_DATA

NSVC_DISC_DATA_PACKETS_PR3

Number of data packets in priority class 3 discarded by NS-VC CIR flow control when packet lifetime expires.

Data Source

SGSN

Source Field

3051

Source Section

P_SGSN_DATA

NSVC_DISC_DATA_PACKETS_PR4

Number of data packets in priority class 4 discarded by NS-VC CIR flow control when packet lifetime expires.

Data Source

SGSN

Source Field

3052

Source Section

P_SGSN_DATA

NSVC_FORW_DATA_PACKETS_PR_STR

Number of NS-VC CIR passed forwarded data packets in priority streaming.

Data Source

SGSN

Source Field

3077

Source Section

P_SGSN_DATA

NSVC_FORW_DATA_PACKETS_PR1

Number of NS-VC CIR passed forwarded data packets in priority class 1.

Data Source

SGSN

Source Field

3073

Source Section

P_SGSN_DATA

NSVC_FORW_DATA_PACKETS_PR2

Number of NS-VC CIR passed forwarded data packets in priority class 2.

Data Source

SGSN

Source Field

3074

Source Section

P_SGSN_DATA

NSVC_FORW_DATA_PACKETS_PR3

Number of NS-VC CIR passed forwarded data packets in priority class 3.

Data Source

SGSN

Source Field

3075

Source Section

P_SGSN_DATA

NSVC_FORW_DATA_PACKETS_PR4

Number of NS-VC CIR passed forwarded data packets in priority class 4.

Data Source

SGSN

Source Field

3076

Source Section

P_SGSN_DATA

NSVC_PASSED_DATA_IN_BYTES

Amount of NS-VC passed downlink data in bytes. Peg retired

Data Source

SGSN

Source Field

3017

Source Section

P_SGSN_DATA

NSVC_PASSED_DATA_PACK_PR_STR

Number of NS-VC passed data packets in priority streaming.

Data Source

SGSN

Source Field

3067

Source Section

P_SGSN_DATA

NSVC_PASSED_DATA_PACKETS_PR1

Amount of NS-VC passed data in packets. Priority 1

Data Source

SGSN

Source Field

3045

Source Section

P_SGSN_DATA

NSVC_PASSED_DATA_PACKETS_PR2

Amount of NS-VC passed data in packets. Priority 2

Data Source

SGSN

Source Field

3046

Source Section

P_SGSN_DATA

NSVC_PASSED_DATA_PACKETS_PR3

Amount of NS-VC passed data in packets. Priority 3

Data Source

SGSN

Source Field

3047

Source Section

P_SGSN_DATA

NSVC_PASSED_DATA_PACKETS_PR4

Amount of NS-VC passed data in packets. Priority 4

Data Source

SGSN

Source Field

3048

Source Section

P_SGSN_DATA

PEAK_ACT_RT_PDP_CON_PER_PAPU

Peak number of active transmitting data RT PDP contexts per PAPU. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

3093

Source Section

P_SGSN_DATA

PEAK_ACTIVE_SUBS_PER_PAPU

Peak of samples of number of Attached users having one or more PDP.

Data Source

SGSN

Source Field

21055

Source Section

P_SGSN_PAPU_USER

PEAK_ATTACH_GB_USERS

Maximum of samples of number of attached users from Gb interface.

Data Source

SGSN

Source Field

21003

Source Section

P_SGSN_PAPU_USER

PEAK_ATTACH_IU_USERS

Maximum of samples of number of attached users from Iu interface.

Data Source

SGSN

Source Field

21007

Source Section

P_SGSN_PAPU_USER

PEAK_ATTACH_SUBSCR_PER_PAPU

Peak Nr of attached subscribers per PAPU (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

3024

Source Section

P_SGSN_DATA

PEAK_ATTACH_USERS_GB_IU

Maximum sum of samples of number of attached users from Iu and Gb interfaces.

Data Source

SGSN

Source Field

21009

Source Section

P_SGSN_PAPU_USER

PEAK_BSSGP_BUFF_UTIL_PR_STR

Peak BSSGP buffer utilisation rate in priority streaming.

Data Source

SGSN

Source Field

3065

Source Section

P_SGSN_DATA

PEAK_BSSGP_BUFF_UTIL_PR1

Peak BSSGP buffer utilisation. Priority 1

Data Source

SGSN

Source Field

3033

Source Section

P_SGSN_DATA

PEAK_BSSGP_BUFF_UTIL_PR2

Peak BSSGP buffer utilisation. Priority 2

Data Source

SGSN

Source Field

3034

Source Section

P_SGSN_DATA

PEAK_BSSGP_BUFF_UTIL_PR3

Peak BSSGP buffer utilisation. Priority 3

Data Source

SGSN

Source Field

3035

Source Section

P_SGSN_DATA

PEAK_BSSGP_BUFF_UTIL_PR4

Peak BSSGP buffer utilisation. Priority 4

Data Source

SGSN

Source Field

3036

Source Section

P_SGSN_DATA

PEAK_CELL_COUNT_PER_PAPU

Peak cell count per PAPU

Data Source

SGSN

Source Field

3021

Source Section

P_SGSN_DATA

PEAK_DYN_PDP_CON_PER_PAPU

Peak number of all active plus inactive dynamic PDP contexts per PAPU. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

3085

Source Section

P_SGSN_DATA

PEAK_FIXED_PDP_CON_PER_PAPU

Peak number of all active plus inactive fixed PDP contexts per PAPU. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

3081

Source Section

P_SGSN_DATA

PEAK_GB_PDP_CONT

Maximum of samples of number of PDP Contexts from Gb interface.

Data Source

SGSN

Source Field

21045

Source Section

P_SGSN_PAPU_USER

PEAK_GTP_BUFF_UTIL_PER_CENT

Peak GTP buffer utilisation

Data Source

SGSN

Source Field

3006

Source Section

P_SGSN_DATA

PEAK_IHSPA_PDP_CONT_PER_PAPU

Maximum of samples of the amount of I-HSPA PDP Contexts.

Data Source

SGSN

Source Field

21093

Source Section

P_SGSN_PAPU_USER

PEAK_IHSPA_SUBS_PER_PAPU

Maximum of samples of the amount of attached I-HSPA users.

Data Source

SGSN

Source Field

21089

Source Section

P_SGSN_PAPU_USER

PEAK_IU_PDP_CONT

Maximum of samples of number of PDP Contexts from Iu interface

Data Source

SGSN

Source Field

21049

Source Section

P_SGSN_PAPU_USER

PEAK_PC_CON_PDP_CONT

Maximum of samples of number of priority class Conversational PDP Contexts.

Data Source

SGSN

Source Field

21041

Source Section

P_SGSN_PAPU_USER

PEAK_PC_STR_PDP_CONT

Maximum of samples of number of priority class Streaming PDP Contexts.

Data Source

SGSN

Source Field

21037

Source Section

P_SGSN_PAPU_USER

PEAK_PC1_PDP_CONT

Maximum of samples of number of priority class 1 PDP Contexts.

Data Source

SGSN

Source Field

21021

Source Section

P_SGSN_PAPU_USER

PEAK_PC2_PDP_CONT

Maximum of samples of number of priority class 2 PDP Contexts.

Data Source

SGSN

Source Field

21025

Source Section

P_SGSN_PAPU_USER

PEAK_PC3_PDP_CONT

Maximum of samples of number of priority class 3 PDP Contexts.

Data Source

SGSN

Source Field

21029

Source Section

P_SGSN_PAPU_USER

PEAK_PC4_PDP_CONT

Maximum of samples of number of priority class 4 PDP Contexts.

Data Source

SGSN

Source Field

21033

Source Section

P_SGSN_PAPU_USER

PEAK_PDP_CONT_GB_IU

Maximum sum of samples of number of PDP Contexts from Gb and Iu interfaces.

Data Source

SGSN

Source Field

21051

Source Section

P_SGSN_PAPU_USER

PEAK_RT_PDP_CON_PER_PAPU

Peak number of all active plus inactive RT PDP contexts per PAPU. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

3089

Source Section

P_SGSN_DATA

PEAK_USED_RT_BANDW_PER_PAPU

Peak-used bandwidth by RT PDP contexts per PAPU.

Data Source

SGSN

Source Field

3097

Source Section

P_SGSN_DATA

PERLENSEC

Measurement collection interval (in seconds)

RA_LEVEL_PAGINGS

Number of cell and routing area level PS pagings per PAPU unit. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

5000

Source Section

P_SGSN_PAGING

RECEIV_ERR_GTPV0_SIG_BYTES

Number of bytes in received erroneous GTPv0 signalling packets. Includes Gb and Iu interface signalling.

Data Source

SGSN

Source Field

3123

Source Section

P_SGSN_DATA

RECEIV_ERR_GTPV0_SIGNALING

Number of received erroneous GTPv0 signalling packets. Includes Gb and Iu interface signalling.

Data Source

SGSN

Source Field

3122

Source Section

P_SGSN_DATA

RECEIV_ERR_GTPV1_SIG_BYTES

Number of bytes in received erroneous GTPv1 signalling packets. Includes Gb and Iu interface signalling.

Data Source

SGSN

Source Field

3129

Source Section

P_SGSN_DATA

RECEIV_ERR_GTPV1_SIGNALING

Number of received erroneous GTPv1 signalling packets. Includes Gband Iu interface signalling.

Data Source

SGSN

Source Field

3128

Source Section

P_SGSN_DATA

RECEIV_GTPV0_SIG_BYTES

Number bytes in successfully received GTPv0 signalling packets. Includes Gb and Iu interface signalling.

Data Source

SGSN

Source Field

3119

Source Section

P_SGSN_DATA

RECEIV_GTPV0_SIGNALING

Number of successfully received GTPv0 signalling packets. Includes Gb and Iu interface signalling.

Data Source

SGSN

Source Field

3118

Source Section

P_SGSN_DATA

RECEIV_GTPV1_SIG_BYTES

Number bytes in successfully received GTPv1 signalling packets. IncludesGb and Iu interface signalling.

Data Source

SGSN

Source Field

3125

Source Section

P_SGSN_DATA

RECEIV_GTPV1_SIGNALING

Number of successfully received GTPv1 signalling packets. IncludesGb and Iu interface signalling.

Data Source

SGSN

Source Field

3124

Source Section

P_SGSN_DATA

RELAYED_RAN_INFO_MSG

Number of RAN information messages that have been successfully relayed.

Data Source

SGSN

Source Field

3098

Source Section

P_SGSN_DATA

RELAYED_RAN_INFO_REQ_MSG

Number of RAN information request messages that have been successfully relayed.

Data Source

SGSN

Source Field

3100

Source Section

P_SGSN_DATA

RT_PDP_CON_PER_PAPU_DEN

Number of samples taken of the amount of all active plus inactive RT PDP contexts per PAPU. Used as a denominator when calculating the average amount of all active plus inactive RT PDP contexts per PAPU. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

3087

Source Section

P_SGSN_DATA

RT_PDP_CON_PER_PAPU_SUM

Sum of sample values indicating the amount of all active plus inactive RT PDP contexts per PAPU. Used as a numerator when calculating the average amount of all active plus inactive RT PDP contexts per PAPU. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

3086

Source Section

P_SGSN_DATA

SENT_GTPV0_SIG_BYTES

Number bytes in sent GTPv0 signalling packets. Includes Gb and Iu interface signalling.

Data Source

SGSN

Source Field

3121

Source Section

P_SGSN_DATA

SENT_GTPV0_SIGNALING

Number of sent GTPv0 signalling packets. Includes Gb and Iu interface signalling.

Data Source

SGSN

Source Field

3120

Source Section

P_SGSN_DATA

SENT_GTPV1_SIG_BYTES

Number bytes in sent GTPv1 signalling packets. Includes Gb and Iu interface signalling.

Data Source

SGSN

Source Field

3127

Source Section

P_SGSN_DATA

SENT_GTPV1_SIGNALING

Number of sent GTPv1 signalling packets. Includes Gb and Iu interface signalling.

Data Source

SGSN

Source Field

3126

Source Section

P_SGSN_DATA

SGSN_LEVEL_PAGINGS

Number of 2G SGSN level PS pagings. (When the MS has not responded to routing area level paging.) (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

5001

Source Section

P_SGSN_PAGING

SGSNRelease

SGSN Release

SNDP_FRAMES_RECEIVED_UL

Number of successfully received LLC data frames containing SNDP data.

Data Source

SGSN

Source Field

3116

Source Section

P_SGSN_DATA

SNDP_F_RAMES_SENT_DL

Number of successfully sent LLC data frames containing SDCP data.

Data Source

SGSN

Source Field

3117

Source Section

P_SGSN_DATA

SNDP_KBYTES_RECEIVED_UL

Amount of successfully received SDCP data in KB (Possibly compressed).

Data Source

SGSN

Source Field

3114

Source Section

P_SGSN_DATA

SNDP_KBYTES_SENT_DL

Amount of successfully sent SDCP data in KB (Possibly compressed).

Data Source

SGSN

Source Field

3115

Source Section

P_SGSN_DATA

SNDP_RED_TCP_PACKETS_IN_BYTES

Amount of bytes in TCP packets that have been dropped due to redundancy elimination.

Data Source

SGSN

Source Field

3072

Source Section

P_SGSN_DATA

SNDTCP_RTT_ADJ_DELAYED_PACKETS

Number of TCP packets (that is, IP datagrams) delayed due to TCP round trip time adjustment. The method affects only the TCP SYN-ACK packets sent by the TCP server (downlink direction).

Data Source

SGSN

Source Field

3069

Source Section

P_SGSN_DATA

SNDTCP_WP_MOD_TCP_PACKETS

Number of TCP packets (that is, IP datagrams) modified due to window pacing. Receiver window size (window in TCP header) is decreased.

Data Source

SGSN

Source Field

3071

Source Section

P_SGSN_DATA

SUCC_FOR_DNS_INQUIRIES

Number of successful DNS inquiries where the target host is not in current network. This can happen e.g. when roaming subscriber tries to activate PDP-Context from home network.

Data Source

SGSN

Source Field

7009

Source Section

P_SGSN_DNS

SUCC_IHSPA_INTER_PAPU_RAU

Number of successful I-HSPA inter PAPU RA updates.

Data Source

SGSN

Source Field

21104

Source Section

P_SGSN_PAPU_USER

SUCC_IHSPA_INTER_SGSN_RAU

Number of successful I-HSPA inter SGSN RA updates.

Data Source

SGSN

Source Field

21114

Source Section

P_SGSN_PAPU_USER

SUCC_IHSPA_INTRA_PAPU_RAU

Number of successful I-HSPA intra PAPU RA updates.

Data Source

SGSN

Source Field

21094

Source Section

P_SGSN_PAPU_USER

SUCC_INTER_PAPU_2G_IHSPA_SHO

Number of successful I-HSPA inter PAPU 2G to I-HSPA Inter System Hand Overs.

Data Source

SGSN

Source Field

21106

Source Section

P_SGSN_PAPU_USER

SUCC_INTER_PAPU_3G_IHSPA_SHO

Number of successful I-HSPA inter PAPU 3G to I-HSPA Inter System Hand Overs.

Data Source

SGSN

Source Field

21110

Source Section

P_SGSN_PAPU_USER

SUCC_INTER_PAPU_IHSPA_2G_SHO

Number of successful I-HSPA inter PAPU I-HSPA to 2G Inter System Hand Overs.

Data Source

SGSN

Source Field

21108

Source Section

P_SGSN_PAPU_USER

SUCC_INTER_PAPU_IHSPA_3G_SHO

Number of successful I-HSPA inter PAPU I-HSPA to 3G Inter System Hand Overs.

Data Source

SGSN

Source Field

21112

Source Section

P_SGSN_PAPU_USER

SUCC_INTRA_PAPU_2G_IHSPA_SHO

Number of successful I-HSPA intra PAPU 2G to I-HSPA Inter System Hand Overs.

Data Source

SGSN

Source Field

21096

Source Section

P_SGSN_PAPU_USER

SUCC_INTRA_PAPU_3G_IHSPA_SHO

Number of successful I-HSPA intra PAPU 3G to I-HSPA Inter System Hand Overs.

Data Source

SGSN

Source Field

21100

Source Section

P_SGSN_PAPU_USER

SUCC_INTRA_PAPU_IHSPA_2G_SHO

Number of successful I-HSPA intra PAPU I-HSPA to 2G Inter System Hand Overs.

Data Source

SGSN

Source Field

21098

Source Section

P_SGSN_PAPU_USER

SUCC_INTRA_PAPU_IHSPA_3G_SHO

Number of successful I-HSPA intra PAPU I-HSPA to 3G Inter System Hand Overs.

Data Source

SGSN

Source Field

21102

Source Section

P_SGSN_PAPU_USER

UNSUCC_PAGINGS

Number of unsuccessful Cell-, RA- and SGSN- level PS pagers. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

5002

Source Section

P_SGSN_PAGING

USED_RT_BANDW_PER_PAPU_DEN

Number of samples taken of the bandwidth used by RT PDP contexts per PAPU. Used as a denominator when calculating the average bandwidth used by RT PDP contexts per PAPU.

Data Source

SGSN

Source Field

3095

Source Section

P_SGSN_DATA

USED_RT_BANDW_PER_PAPU_SUM

Sum of sample values indicating the bandwidth used by RT PDP contexts per PAPU. Used as a numerator when calculating the average bandwidth used by RT PDP contexts per PAPU.

Data Source

SGSN

Source Field

3094

Source Section

P_SGSN_DATA

PAPU_Class Primitive Calculations

The following is a list of primitive calculations for the PAPU_Class entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

p_avg_GB_PDP_AMOUNT

Average numbers values indicating the number of 2G PDP contexts per traffic/bearer class in SGSN.

Calculation

$$\text{GB_AVG_PDP_AMOUNT_SUM} / \text{GB_AVG_PDP_AMOUNT_DEN}$$

p_avg_IU_PDP_AMOUNT

Average numbers values indicating the number of 3G PDP contexts per traffic/bearer class in SGSN.

Calculation

$$\text{IU_AVG_PDP_AMOUNT_SUM} / \text{IU_AVG_PDP_AMOUNT_DEN}$$

p_avg_IU_RAB_AMOUNT

Average numbers values indicating the number of RABs per traffic/bearer class in SGSN.

Calculation

$$\text{IU_AVG_RAB_AMOUNT_SUM} / \text{IU_AVG_RAB_AMOUNT_DEN}$$

PAPU_Class Peg Counts

The following is a list of peg counts for the PAPU_Class entity.

GB_AVG_PDP_AMOUNT_DEN

Number of samples taken of 2G PDP contexts per traffic/bearer class in SGSN. Used as a denominator when calculating the average rate of the 2G PDP contexts.

Data Source

SGSN

Source Field

31007

Source Section

P_SGSN_PAPU_THROUGHPUT

GB_AVG_PDP_AMOUNT_PEAK

Peak value of 2G PDP contexts per traffic/bearer class in SGSN.

Data Source

SGSN

Source Field

31008

Source Section

P_SGSN_PAPU_THROUGHPUT

GB_AVG_PDP_AMOUNT_SUM

Sum of sample values indicating the number of 2G PDP contexts per traffic/bearer class in SGSN. Used as a numerator when calculating the average rate of the 2G PDP contexts.

Data Source

SGSN

Source Field

31006

Source Section

P_SGSN_PAPU_THROUGHPUT

GB_GTP_BYTES_SENT_IN_DL

Number of GTP bytes per traffic/bearer class sent in downlink direction at Gb interface.

Data Source

SGSN

Source Field

31001

Source Section

P_SGSN_PAPU_THROUGHPUT

GB_GTP_BYTES_SENT_IN_DL_OFL

Number of times counter 031001 has overflowed.

Data Source

SGSN

Source Field

31002

Source Section

P_SGSN_PAPU_THROUGHPUT

GB_GTP_BYTES_SENT_IN_UL

Number of GTP bytes per traffic/bearer class sent in uplink direction at Gb interface.

Data Source

SGSN

Source Field

31004

Source Section

P_SGSN_PAPU_THROUGHPUT

GB_GTP_BYTES_SENT_IN_UL_OFL

Number of times counter 031004 has overflowed.

Data Source

SGSN

Source Field

31005

Source Section

P_SGSN_PAPU_THROUGHPUT

GB_GTP_PACKETS_SENT_IN_DL

Number of GTP packets per traffic/bearer class sent in downlink direction at Gb interface.

Data Source

SGSN

Source Field

31000

Source Section

P_SGSN_PAPU_THROUGHPUT

GB_GTP_PACKETS_SENT_IN_UL

Number of GTP packets per traffic/bearer class sent in uplink direction at Gb interface.

Data Source

SGSN

Source Field

31003

Source Section

P_SGSN_PAPU_THROUGHPUT

IU_AVG_PDP_AMOUNT_DEN

Number of samples taken of 3G PDP contexts per traffic/bearer class in SGSN. Used as a denominator when calculating the average rate of the 3G PDP contexts.

Data Source

SGSN

Source Field

31016

Source Section

P_SGSN_PAPU_THROUGHPUT

IU_AVG_PDP_AMOUNT_PEAK

Peak value of 3G PDP contexts per traffic/bearer class in SGSN.

Data Source

SGSN

Source Field

31017

Source Section

P_SGSN_PAPU_THROUGHPUT

IU_AVG_PDP_AMOUNT_SUM

Sum of sample values indicating the number of 3G PDP contexts per traffic/bearer class in SGSN. Used as a numerator when calculating the average rate of the 3G PDP contexts.

Data Source

SGSN

Source Field

31015

Source Section

P_SGSN_PAPU_THROUGHPUT

IU_AVG_RAB_AMOUNT_DEN

Number of samples taken of RABs per traffic/bearer class in SGSN. Used as a denominator when calculating the average rate of the RABs.

Data Source

SGSN

Source Field

31019

Source Section

P_SGSN_PAPU_THROUGHPUT

IU_AVG_RAB_AMOUNT_PEAK

Peak value of RABs per traffic/bearer class in SGSN.

Data Source

SGSN

Source Field

31020

Source Section

P_SGSN_PAPU_THROUGHPUT

IU_AVG_RAB_AMOUNT_SUM

Sum of sample values indicating the number of RABs per traffic/bearer class in SGSN. Used as a numerator when calculating the average rate of the RABs.

Data Source

SGSN

Source Field

31018

Source Section

P_SGSN_PAPU_THROUGHPUT

IU_GTP_BYTES_SENT_IN_DL

Number of GTP-U bytes per traffic/bearer class sent in downlink direction at Iu interface

Data Source

SGSN

Source Field

31010

Source Section

P_SGSN_PAPU_THROUGHPUT

IU_GTP_BYTES_SENT_IN_DL_OFL

Number of times counter 031010 has overflowed.

Data Source

SGSN

Source Field

31011

Source Section

P_SGSN_PAPU_THROUGHPUT

IU_GTP_BYTES_SENT_IN_UL

Number of GTP-U bytes per traffic/bearer class sent in uplink direction at Iu interface

Data Source

SGSN

Source Field

31013

Source Section

P_SGSN_PAPU_THROUGHPUT

IU_GTP_BYTES_SENT_IN_UL_OFL

Number of times counter 031013 has overflowed.

Data Source

SGSN

Source Field

31014

Source Section

P_SGSN_PAPU_THROUGHPUT

IU_GTP_PACKETS_SENT_IN_DL

Number of GTP-U packets per traffic/bearer class sent in downlink direction at Iu interface

Data Source

SGSN

Source Field

31009

Source Section

P_SGSN_PAPU_THROUGHPUT

IU_GTP_PACKETS_SENT_IN_UL

Number of GTP-U packets per traffic/bearer class sent in uplink direction at Iu interface

Data Source

SGSN

Source Field

31012

Source Section

P_SGSN_PAPU_THROUGHPUT

IU_PMM_CONNECTED_TIME

Iu PMM-connected time (active times for RABs) in seconds per traffic/bearer class in SGSN.

Data Source

SGSN

Source Field

31021

Source Section

P_SGSN_PAPU_THROUGHPUT

PLMN Primitive Calculations

The following is a list of primitive calculations for the PLMN entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

PLMN Peg Counts

The following is a list of peg counts for the PLMN entity.

FAIL_ATTACH_11

Number of GPRS + combined attach attempts at Gb or Iu interface that failed because the PLMN is not allowed.Cause value #11: PLMN not allowed.

Data Source

SGSN

Source Field

32005

Source Section

P_SGSN_PLMN

FAIL_ATTACH_12

Number of GPRS + combined attach attempts at Gb or Iu interface that failed because the LA is not allowed.Cause value #12: location area not allowed.

Data Source

SGSN

Source Field

32006

Source Section

P_SGSN_PLMN

FAIL_ATTACH_13

Number of GPRS + combined attach attempts at Gb or Iu interface that failed because roaming is not allowed in this LA. The attach cannot be accepted by the network either for GPRS or non-GPRS services. Cause value #13: roaming not allowed in this location area.

Data Source

SGSN

Source Field

32007

Source Section

P_SGSN_PLMN

FAIL_ATTACH_14

Number of GPRS + combined attach attempts at Gb or Iu interface that failed because the GPRS services are not allowed in this PLMN. Cause value #14: GPRS services not allowed in this PLMN. This cause is sent to the MS, which requests a GPRS service in a PLMN which does not offer roaming for GPRS services to that MS.

Data Source

SGSN

Source Field

32008

Source Section

P_SGSN_PLMN

FAIL_ATTACH_15

Number of GPRS + combined attach attempts at Gb or Iu interface that failed because there are no suitable cells in the LA. Cause value #15: no suitable cells in location area. This cause value is sent to the MS if it requests an operation in an LA where the MS, by subscription, is not allowed to operate, but when it must find another allowed LA in the same PLMN

Data Source

SGSN

Source Field

32009

Source Section

P_SGSN_PLMN

FAIL_ATTACH_22

Number of GPRS + combined attach attempts at Gb or Iu interface that failed because of congestion. Cause value #22: congestion.

Data Source

SGSN

Source Field

32010

Source Section

P_SGSN_PLMN

FAIL_ATTACH_3

Number of GPRS + combined attach attempts at Gb or Iu interface that failed because the MS is illegal. Cause value #3: illegal MS. This cause is sent to the MS when the network refuses service to the MS. This can happen either because the identity of the MS is not acceptable to the network or because the MS does not pass the authentication check, that is, the SRES received from the MS is different from that generated by the network

Data Source

SGSN

Source Field

32001

Source Section

P_SGSN_PLMN

FAIL_ATTACH_6

Number of GPRS + combined attach attempts at Gb or Iu interface that failed because the ME is illegal.Cause value #6: illegal ME.This cause is sent to the MS if the ME used is not acceptable to the network, for example, if it is blacklisted.

Data Source

SGSN

Source Field

32002

Source Section

P_SGSN_PLMN

FAIL_ATTACH_7

Number of GPRS + combined attach attempts at Gb or Iu interface that failed because the SIM is not provisioned for the GPRS service.Cause value #7: GPRS services not allowed.

Data Source

SGSN

Source Field

32003

Source Section

P_SGSN_PLMN

FAIL_ATTACH_8

Number of GPRS + combined attach attempts at Gb or Iu interface that failed because the GPRS services and the non-GPRS services are not allowed.Cause value #8: GPRS services and non-GPRS services not allowed.This cause is sent to the MS if it requests a combined IMSI attach for the GPRS and non-GPRS services, but is not allowed to operate either of them.

Data Source

SGSN

Source Field

32004

Source Section

P_SGSN_PLMN

FAIL_ATTACH_PROT_ERR

Number of GPRS + combined attach attempts at Gb or Iu interface that failed a protocol error. The attach cannot be accepted by the network either for GPRS or for non-GPRS services. Cause values #96, #99, #100, and #111.

Data Source

SGSN

Source Field

32011

Source Section

P_SGSN_PLMN

FAIL_INTER_SGSN_RAU_10

Number of GPRS + combined inter SGSN RA update attempts at Gb or Iu interface that failed because being implicitly detached. Cause value #10: implicitly detached.

Data Source

SGSN

Source Field

32032

Source Section

P_SGSN_PLMN

FAIL_INTER_SGSN_RAU_11

Number of GPRS + combined inter SGSN RA update attempts at Gb or Iu interface that failed because the PLMN is not allowed. Cause value #11: PLMN not allowed.

Data Source

SGSN

Source Field

32033

Source Section

P_SGSN_PLMN

FAIL_INTER_SGSN_RAU_12

Number of GPRS + combined inter SGSN RA update attempts at Gb or Iu interface that failed because the LA is not allowed.Cause value #12: location area not allowed.

Data Source

SGSN

Source Field

32034

Source Section

P_SGSN_PLMN

FAIL_INTER_SGSN_RAU_13

Number of GPRS + combined inter SGSN RA update attempts at Gb or Iu interface that failed because roaming is not allowed in this LA. The attach cannot be accepted by the network either for GPRS or non-GPRS services.Cause value #13: roaming not allowed in this location area

Data Source

SGSN

Source Field

32035

Source Section

P_SGSN_PLMN

FAIL_INTER_SGSN_RAU_14

Number of GPRS + combined inter SGSN RA update attempts at Gb or Iu interface that failed because the GPRS services are not allowed in this PLMN.Cause value #14: GPRS services not allowed in this PLMN.This cause is sent to the MS, which requests a GPRS service in a PLMN which does not offer roaming for GPRS services to that MS.

Data Source

SGSN

Source Field

32036

Source Section

P_SGSN_PLMN

FAIL_INTER_SGSN_RAU_15

Number of GPRS + combined inter SGSN RA update attempts at Gb or Iu interface that failed because there are no suitable cells in the LA. Cause value #15: no suitable cells in location area. This cause value is sent to the MS if it requests an operation in an LA where the MS, by subscription, is not allowed to operate, but when it must find another allowed LA in the same PLMN

Data Source

SGSN

Source Field

32037

Source Section

P_SGSN_PLMN

FAIL_INTER_SGSN_RAU_22

When procedure is interrupted by the network because of congestion. The updated measurement object is the location of the MS (cell) at the time when procedure ends.

Data Source

SGSN

Source Field

32038

Source Section

P_SGSN_PLMN

FAIL_INTER_SGSN_RAU_3

Number of GPRS + combined inter SGSN RA update attempts at Gb or Iu interface that failed because the MS is illegal.Cause value #3: illegal MS.This cause is sent to the MS when the network refuses service to the MS. This can happen either because the identity of the MS is not acceptable to the network or because the MS does not pass the authentication check, that is, the SRES received from the MS is different from that generated by the network

Data Source

SGSN

Source Field

32027

Source Section

P_SGSN_PLMN

FAIL_INTER_SGSN_RAU_6

Number of GPRS + combined inter SGSN RA update attempts at Gb or Iu interface that failed because the ME is illegal.Cause value #6: illegal ME.This cause is sent to the MS if the ME used is not acceptable to the network, for example, if it is blacklisted.

Data Source

SGSN

Source Field

32028

Source Section

P_SGSN_PLMN

FAIL_INTER_SGSN_RAU_7

Number of GPRS + combined inter SGSN RA update attempts at Gb or Iu interface that failed because the SIM is not provisioned for the GPRS service.Cause value #7: GPRS services not allowed.

Data Source

SGSN

Source Field

32029

Source Section

P_SGSN_PLMN

FAIL_INTER_SGSN_RAU_8

Number of GPRS + combined inter SGSN RA update attempts at Gb or Iu interface that failed because the GPRS services and the non-GPRS services are not allowed. Cause value #8: GPRS services and non-GPRS services not allowed. This cause is sent to the MS if it requests a combined IMSI attach for the GPRS and non-GPRS services, but is not allowed to operate either of them.

Data Source

SGSN

Source Field

32030

Source Section

P_SGSN_PLMN

FAIL_INTER_SGSN_RAU_9

Number of GPRS + combined inter SGSN RA update attempts at Gb or Iu interface that failed because the MS identity cannot be derived by the network. Cause value #9: MS identity cannot be derived by the network.

Data Source

SGSN

Source Field

32031

Source Section

P_SGSN_PLMN

FAIL_INTER_SGSN_RAU_PROT

Number of GPRS + combined inter SGSN RA update attempts at Gb or Iu interface that failed a protocol error. The attach cannot be accepted by the network either for GPRS or for non-GPRS services. Cause values #96, #99, #100, and #111.

Data Source

SGSN

Source Field

32039

Source Section

P_SGSN_PLMN

FAIL_INTRA_SGSN_RAU_10

Number of GPRS + combined intra SGSN RA update attempts at Gb or Iu interface that failed because being implicitly detached.Cause value #10: implicitly detached.

Data Source

SGSN

Source Field

32018

Source Section

P_SGSN_PLMN

FAIL_INTRA_SGSN_RAU_11

Number of GPRS + combined intra SGSN RA update attempts at Gb or Iu interface that failed because the PLMN is not allowed.Cause value #11: PLMN not allowed.

Data Source

SGSN

Source Field

32019

Source Section

P_SGSN_PLMN

FAIL_INTRA_SGSN_RAU_12

Number of GPRS + combined intra SGSN RA update attempts at Gb or Iu interface that failed because the LA is not allowed.Cause value #12: location area not allowed.

Data Source

SGSN

Source Field

32020

Source Section

P_SGSN_PLMN

FAIL_INTRA_SGSN_RAU_13

Number of GPRS + combined intra SGSN RA update attempts at Gb or Iu interface that failed because roaming is not allowed in this LA. The attach cannot be accepted by the network either for GPRS or non-GPRS services.Cause value #13: roaming not allowed in this location area.

Data Source

SGSN

Source Field

32021

Source Section

P_SGSN_PLMN

FAIL_INTRA_SGSN_RAU_14

Number of GPRS + combined intra SGSN RA update attempts at Gb or Iu interface that failed because the GPRS services are not allowed in this PLMN.Cause value #14: GPRS services not allowed in this PLMN.This cause is sent to the MS, which requests a GPRS service in a PLMN which does not offer roaming for GPRS services to that MS.

Data Source

SGSN

Source Field

32022

Source Section

P_SGSN_PLMN

FAIL_INTRA_SGSN_RAU_15

Number of GPRS + combined intra SGSN RA update attempts at Gb or Iu interface that failed because there are no suitable cells in the LA.Cause value #15: no suitable cells in location area.This cause value is sent to the MS if it requests an operation in an LA where the MS, by

subscription, is not allowed to operate, but when it must find another allowed LA in the same PLMN

Data Source

SGSN

Source Field

32023

Source Section

P_SGSN_PLMN

FAIL_INTRA_SGSN_RAU_22

Number of GPRS + combined intra SGSN RA update attempts at Gb or Iu interface that failed because of congestion. Cause value #22: congestion.

Data Source

SGSN

Source Field

32024

Source Section

P_SGSN_PLMN

FAIL_INTRA_SGSN_RAU_3

Number of GPRS + combined intra SGSN RA update attempts at Gb or Iu interface that failed because the MS is illegal. Cause value #3: illegal MS. This cause is sent to the MS when the network refuses service to the MS. This can happen either because the identity of the MS is not acceptable to the network or because the MS does not pass the authentication check, that is, the SRES received from the MS is different from that generated by the network

Data Source

SGSN

Source Field

32013

Source Section

P_SGSN_PLMN

FAIL_INTRA_SGSN_RAU_6

Number of GPRS + combined intra SGSN RA update attempts at Gb or Iu interface that failed because the ME is illegal.Cause value #6: illegal ME.This cause is sent to the MS if the ME used is not acceptable to the network, for example, if it is blacklisted.

Data Source

SGSN

Source Field

32014

Source Section

P_SGSN_PLMN

FAIL_INTRA_SGSN_RAU_7

Number of GPRS + combined intra SGSN RA update attempts at Gb or Iu interface that failed because the SIM is not provisioned for the GPRS service.Cause value #7: GPRS services not allowed.

Data Source

SGSN

Source Field

32015

Source Section

P_SGSN_PLMN

FAIL_INTRA_SGSN_RAU_8

Number of GPRS + combined intra SGSN RA update attempts at Gb or Iu interface that failed because the GPRS services and the non-GPRS services are not allowed.Cause value #8: GPRS services and non-GPRS services not allowed.This cause is sent to the MS if it requests a combined IMSI attach for the GPRS and non-GPRS services, but is not allowed to operate either of them.

Data Source

SGSN

Source Field

32016

Source Section

P_SGSN_PLMN

FAIL_INTRA_SGSN_RAU_9

Number of GPRS + combined intra SGSN RA update attempts at Gb or Iu interface that failed because the MS identity cannot be derived by the network.Cause value #9: MS identity cannot be derived by the network.

Data Source

SGSN

Source Field

32017

Source Section

P_SGSN_PLMN

FAIL_INTRA_SGSN_RAU_PROT

Number of GPRS + combined intra SGSN RA update attempts at Gb or Iu interface that failed a protocol error. The attach cannot be accepted by the network either for GPRS or for non-GPRS services.Cause values #96, #99, #100, and #111.

Data Source

SGSN

Source Field

32025

Source Section

P_SGSN_PLMN

SUCCESSFUL_ATTACH

Number of successful GPRS + combined attaches at Gb or Iu interface.

Data Source

SGSN

Source Field

32000

Source Section

P_SGSN_PLMN

SUCCESSFUL_INTER_SGSN_RAU

Number of successful GPRS + combined inter SGSN RA updates at Gb or Iu interface.

Data Source

SGSN

Source Field

32026

Source Section

P_SGSN_PLMN

SUCCESSFUL_INTRA_SGSN_RAU

Number of successful GPRS + combined intra SGSN RA updates at Gb or Iu interface.

Data Source

SGSN

Source Field

32012

Source Section

P_SGSN_PLMN

Rac Primitive Calculations

The following is a list of primitive calculations for the Rac entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

Rac Peg Counts

The following is a list of peg counts for the Rac entity.

BSS_PFC_CREATE_FAIL

Number of failed BSS PFC creation procedures.

Data Source

SGSN

Source Field

13001

Source Section

P_SGSN_BPFC

BSS_PFC_CREATE_SUCC

Number of successful BSS PFC creation procedures.

Data Source

SGSN

Source Field

13000

Source Section

P_SGSN_BPFC

BSS_PFC_DELETE_FAIL

Number of failed BSS PFC deletion procedures.

Data Source

SGSN

Source Field

13003

Source Section

P_SGSN_BPFC

BSS_PFC_DELETE_SUCC

Number of successful BSS PFC deletion procedures.

Data Source

SGSN

Source Field

13002

Source Section

P_SGSN_BPFC

BSS_PFC_MODIFY_FAIL

Number of failed BSS PFC modification procedures.

Data Source

SGSN

Source Field

13005

Source Section

P_SGSN_BPFC

BSS_PFC_MODIFY_SUCC

Number of successful BSS PFC modification procedures.

Data Source

SGSN

Source Field

13004

Source Section

P_SGSN_BPFC

RA_LEVEL_PS_PAGINGS

Number of RA level pagings. The maximum number of RA-level paging attempts in one paging procedure is defined with the GPRS Network Handling MML, commandgroup EJ.

Data Source

SGSN

Source Field

27000

Source Section

P_SGSN_GB_RA_PAGING

rau_count

Number of successful routing area updates between two different RAs.

Data Source

SGSN

Source Field

14000

Source Section

P_SGSN_RAUM

SGSN Primitive Calculations

The following is a list of primitive calculations for the SGSN entity.

AVE_ATTACH_DURATION_PER_SUBSCRIBER

Ave attach duration per subscriber

Calculation

$\text{AVE_ATTACH_DURATION_SUM} / (1.0 * \text{AVE_ATTACH_DURATION_DEN})$

AVE_GTP_PACK_UNDER_DCPM

Average amount of GTP packets under DCPM

Calculation

$\text{AVE_GTP_PACK_UNDER_DCPM_SUM} / \text{AVE_GTP_PACK_UNDER_DCPM_DEN}$

AVE_PDP_CONTEXT_DURATION_PER_SUBSCRIBER

Denominator of ave PDP context duration per subscriber

Calculation

$\text{AVE_PDP_CONTEXT_DURATION_SUM} / (1.0 * \text{AVE_PDP_CONTEXT_DURATION_DEN})$

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

$\text{DAYSINREPORT}()$

NUMHOURS

of hours in Summation Data

Calculation

p_avg_DET_UNPURGED_USERS_SMMU_0

Average numbers of detached unpurged users in SMMU 0

Calculation

$\text{DET_UNPURGED_USERS_SMMU_0_SUM} / \text{DET_UNPURGED_USERS_SMMU_0_DEN}$

p_avg_DET_UNPURGED_USERS_SMMU_1

Average numbers of detached unpurged users in SMMU 1

Calculation

$\text{DET_UNPURGED_USERS_SMMU_1_SUM} / \text{DET_UNPURGED_USERS_SMMU_1_DEN}$

p_avg_DET_UNPURGED_USERS_SMMU_2

Average numbers of detached unpurged users in SMMU 2

Calculation

$\text{DET_UNPURGED_USERS_SMMU_2_SUM} / \text{DET_UNPURGED_USERS_SMMU_2_DEN}$

p_avg_DET_UNPURGED_USERS_SMMU_3

Average numbers of detached unpurged users in SMMU 3

Calculation

$\text{DET_UNPURGED_USERS_SMMU_3_SUM} / \text{DET_UNPURGED_USERS_SMMU_3_DEN}$

p_avg_DET_UNPURGED_USERS_SMMU_4

Average numbers of detached unpurged users in SMMU 4

Calculation

$\text{DET_UNPURGED_USERS_SMMU_4_SUM} / \text{DET_UNPURGED_USERS_SMMU_4_DEN}$

p_avg_DUR_OSCDR_NRT_PDP_CO

Average numbers of duration of S-CDRs that are related to non real time PDP contexts.

Calculation

$\text{AVG_DUR_OP_SCDR_NRT_PDP_CO_SUM} / \text{AVG_DUR_OP_SCDR_NRT_PDP_CO_DEN}$

p_avg_DUR_OSCDR_RT_PDP_CON

Average numbers of duration of S-CDRs that are related to real time PDP contexts

Calculation

$\text{AVG_DUR_OP_SCDR_RT_PDP_CON_SUM} / \text{AVG_DUR_OP_SCDR_RT_PDP_CON_DEN}$

p_avg_DURATION_OF_OPEN_M_CDR

Average numbers of duration of M-CDRs.

Calculation

$\text{AVG_DURATION_OF_OPEN_M_CDR_SUM} / \text{AVG_DURATION_OF_OPEN_M_CDR_DEN}$

p_avg_FR_BYTES_REC_UL

Average numbers values indicating the number of FR bytes received in uplink direction.

Calculation

$\text{AVG_FR_BYTES_REC_UL_SUM} / \text{AVG_FR_BYTES_REC_UL_DEN}$

p_avg_FR_BYTES_SENT_DL

Average numbers values indicating the number of FR bytes sent in downlink direction.

Calculation

$\text{AVG_FR_BYTES_SENT_DL_SUM} / \text{AVG_FR_BYTES_SENT_DL_DEN}$

p_avg_FR_PACKETS_REC_UL

Average numbers values indicating the number of FR packets received in uplink direction.

Calculation

$\text{AVG_FR_PACKETS_REC_UL_SUM} / \text{AVG_FR_PACKETS_REC_UL_DEN}$

p_avg_FR_PACKETS_SENT_DL

Average numbers values indicating the number of FR packets sent in downlink direction.

Calculation

$\text{AVG_FR_PACKETS_SENT_DL_SUM} / \text{AVG_FR_PACKETS_SENT_DL_DEN}$

p_avg_GTP_BYTES_SENT_DL

Average numbers values indicating the number of GTP bytes sent in downlink direction.

Calculation

$\text{AVG_GTP_BYTES_SENT_DL_SUM} / \text{AVG_GTP_BYTES_SENT_DL_DEN}$

p_avg_GTP_BYTES_SENT_UL

Average numbers values indicating the number of GTP bytes sent in uplink direction by SGSN.

Calculation

$\text{AVG_GTP_BYTES_SENT_UL_SUM} / \text{AVG_GTP_BYTES_SENT_UL_DEN}$

p_avg_GTP_PACKETS_SENT_DL

Average numbers values indicating the number of GTP packets sent in downlink direction.

Calculation

$\text{AVG_GTP_PACKETS_SENT_DL_SUM} / \text{AVG_GTP_PACKETS_SENT_DL_DEN}$

p_avg_GTP_PACKETS_SENT_UL

Average numbers values indicating the number of GTP packets sent in uplink direction by SGSN.

Calculation

$\text{AVG_GTP_PACKETS_SENT_UL_SUM} / \text{AVG_GTP_PACKETS_SENT_UL_DEN}$

p_avg_GTPACK_UNDER_DCPM

Average values indicating the number of the GTP packets under the DCPM. The packet under DCPM is called Possible Duplicated Data RecordPacket [3GPP TS 42.215].

Calculation

$\text{AVE_GTP_PACK_UNDER_DCPM_SUM} / \text{AVE_GTP_PACK_UNDER_DCPM_DEN}$

p_avg_OPEN_CAMEL_M_CDR

Average numbers of open M-CDRs with CAMEL relation

Calculation

$\text{AVG_OPEN_CAMEL_M_CDR_SUM} / \text{AVG_OPEN_CAMEL_M_CDR_DEN}$

p_avg_OPEN_CAMEL_S_CDR

Average numbers of open S-CDRs with CAMEL relation

Calculation

$\text{AVG_OPEN_CAMEL_S_CDR_SUM} / \text{AVG_OPEN_CAMEL_S_CDR_DEN}$

p_avg_OPEN_GB_M_CDR

Average numbers of open Gb M-CDRs.

Calculation

$\text{AVG_OPEN_GB_M_CDR_SUM} / \text{AVG_OPEN_GB_M_CDR_DEN}$

p_avg_OPEN_GB_S_CDR

Average numbers of open Gb S-CDRs

Calculation

$\text{AVG_OPEN_GB_S_CDR_SUM} / \text{AVG_OPEN_GB_S_CDR_DEN}$

p_avg_OPEN_IPV4_S_CDR

Average numbers of open IPv4 S-CDRs

Calculation

$\text{AVG_OPEN_IPV4_S_CDR_SUM} / \text{AVG_OPEN_IPV4_S_CDR_DEN}$

p_avg_OPEN_IPV6_S_CDR

Average numbers of open IPv6 S-CDRs

Calculation

$\text{AVG_OPEN_IPV6_S_CDR_SUM} / \text{AVG_OPEN_IPV6_S_CDR_DEN}$

p_avg_OPEN_M_CDR_GB_ROAMING

Average numbers of number of active M-CDRs by roaming Gb-users

Calculation

$\text{AVG_OPEN_M_CDR_GB_ROAMING_SUM} / \text{AVG_OPEN_M_CDR_GB_ROAMING_DEN}$

p_avg_OPEN_M_CDR_IU_IF_SUBS

Average numbers of open Iu M-CDRs.

Calculation

$\text{AVG_OPEN_M_CDR_IU_IF_SUBS_SUM} / \text{AVG_OPEN_M_CDR_IU_IF_SUBS_DEN}$

p_avg_OPEN_M_CDR_IU_ROAM

Average numbers of number of active roaming M-CDRs by Iu-users.

Calculation

$\text{AVG_OPEN_M_CDR_IU_ROAM_SUM} / \text{AVG_OPEN_M_CDR_IU_ROAM_DEN}$

p_avg_OPEN_PREPAID_M_CDR

Average numbers of open Prepaid M-CDRs.

Calculation

$\text{AVG_OPEN_PREPAID_M_CDR_SUM} / \text{AVG_OPEN_PREPAID_M_CDR_DEN}$

p_avg_OPEN_PREPAID_S_CDR

Average numbers of open Prepaid S-CDRs.

Calculation

$\text{AVG_OPEN_PREPAID_S_CDR_SUM} / \text{AVG_OPEN_PREPAID_S_CDR_DEN}$

p_avg_OPEN_S_CDR_GB_ROAM

Average numbers of number of active S-CDRs by roaming Gb-users

Calculation

$\text{AVG_OPEN_S_CDR_GB_ROAM_SUM} / \text{AVG_OPEN_S_CDR_GB_ROAM_DEN}$

p_avg_OPEN_S_CDR_IU_IF_SUBS

Average numbers of open Iu S-CDRs.

Calculation

$AVG_OPEN_S_CDR_IU_IF_SUBS_SUM / AVG_OPEN_S_CDR_IU_IF_SUBS_DEN$

p_avg_OPEN_S_CDR_IU_ROAM

Average numbers of number of active S-CDRs by roaming Iu-users.

Calculation

$AVG_OPEN_S_CDR_IU_ROAM_SUM / AVG_OPEN_S_CDR_IU_ROAM_DEN$

p_avg_OPEN_S_CDR_SEC_PDP_CON

Average numbers of open S-CDRs that are related to secondary PDP contexts.

Calculation

$AVG_OPEN_S_CDR_SEC_PDP_CON_SUM / AVG_OPEN_S_CDR_SEC_PDP_CON_DEN$

p_avg_PMM_CONN_IU_PDP_CTX

Average number of PMM-connected Iu PDP-context per SGSN.

Calculation

$SUM_PMM_CONN_IU_PDP_CTX / DEN_PMM_CONN_IU_PDP_CTX$

SGSNGOS

Dimensioned Grade of Service

Calculation

SGSN Peg Counts

The following is a list of peg counts for the SGSN entity.

ACC_GERAN_REJ_DUE_COUNT_RES

Number of subscribers whose access to GERAN has been rejected due to subscriber count access restriction. Restriction is based on capacity licences.

Data Source

SGSN

Source Field

4118

Source Section

P_SGSN_USER

ACC_GERAN_REJ_DUE_HRL_ACC_REJ

Number of subscribers whose access to GERAN has been rejected due to HLR based access restriction

Data Source

SGSN

Source Field

4115

Source Section

P_SGSN_USER

ACC_UTRAN_REJ_DUE_COUNT_RES

Number of subscribers whose access to UTRAN has been rejected due to subscriber count access restriction. Restriction is based on capacity licences.

Data Source

SGSN

Source Field

4122

Source Section

P_SGSN_USER

ACC_UTRAN_REJ_DUE_HRL_ACC_REJ

Number of subscribers whose access to UTRAN has been rejected due to HLR based access restriction.

Data Source

SGSN

Source Field

4119

Source Section

P_SGSN_USER

ACT_REQ_REJ_PDP_COUNT_RESTRICT

PDP context activation request rejected because number of PDP context in SGSN would exceed the licensed SGSN level PDP context capacity.

Data Source

SGSN

Source Field

4123

Source Section

P_SGSN_USER

ACTIVE_PDP_CONTEXTS_IN

Amount of active PDP contexts which are using Camel 3 IN services (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

4021

Source Section

P_SGSN_USER

ACTIVE_PDP_CONTEXTS_PR_STR

Increased when PDP context using priority streaming is activated in the SGSN, and when PDP context with another priority class is modified to priority streaming. Decreased when PDP context using priority streaming is deactivated in the SGSN, or when PDP context with priority streaming is modified to another priority class. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

4041

Source Section

P_SGSN_USER

ACTIVE_PDP_CONTEXTS_PR1

Number of PDP contexts currently active in priority class 1 in the 2G SGSN. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

4028

Source Section

P_SGSN_USER

ACTIVE_PDP_CONTEXTS_PR2

Number of PDP contexts currently active in priority class 2 in the 2G SGSN. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

4029

Source Section

P_SGSN_USER

ACTIVE_PDP_CONTEXTS_PR3

Number of PDP contexts currently active in priority class 3 in the 2G SGSN. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

4030

Source Section

P_SGSN_USER

ACTIVE_PDP_CONTEXTS_PR4

Number of PDP contexts currently active in priority class 4 in the 2G SGSN. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

4031

Source Section

P_SGSN_USER

ACTIVE_SECONDARY_PDP_CONTEXTS

Number of secondary PDP contexts currently active in the 2G SGSN. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

4032

Source Section

P_SGSN_USER

ATTACH_PREPAID_USERS

Number of prepaid users currently attached in the 2G SGSN. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

4027

Source Section

P_SGSN_USER

AVE_ATTACH_DURATION_DEN

Number of samples taken of the duration of attached connections that have been detached during the measurement period. Used as denominator when calculating the average duration of attached connections. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

4003

Source Section

P_SGSN_USER

AVE_ATTACH_DURATION_SUM

Sum of sample values indicating the duration of attached connections that have been detached during the measurement period. Used as numerator when calculating the average duration of attached connections. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

4002

Source Section

P_SGSN_USER

AVE_ATTACH_USERS_PER_SMMU0_DEN

Denominator of ave attached users per SMMU0

Data Source

SGSN

Source Field

4010

Source Section

P_SGSN_USER

AVE_ATTACH_USERS_PER_SMMU0_SUM

Sum of sample values indicating the number of attached subscribers per physical SMMU0.
Used as numerator when calculating the average number of attached subscribers per physical SMMU0.

Data Source

SGSN

Source Field

4009

Source Section

P_SGSN_USER

AVE_ATTACH_USERS_PER_SMMU1_DEN

Number of samples taken of the number of attached subscribers per physical SMMU1. Used as denominator when calculating the average number of attached subscribers per physical SMMU1.

Data Source

SGSN

Source Field

4013

Source Section

P_SGSN_USER

AVE_ATTACH_USERS_PER_SMMU1_SUM

Sum of sample values indicating the number of attached subscribers per physical SMMU1.
Used as numerator when calculating the average number of attached subscribers per physical SMMU1.

Data Source

SGSN

Source Field

4012

Source Section

P_SGSN_USER

AVE_ATTACH_USERS_PER_SMMU2_DEN

Number of samples taken of the number of attached subscribers per physical SMMU2. Used as denominator when calculating the average number of attached subscribers per physical SMMU2.

Data Source

SGSN

Source Field

4016

Source Section

P_SGSN_USER

AVE_ATTACH_USERS_PER_SMMU2_SUM

Sum of sample values indicating the number of attached subscribers per physical SMMU2. Used as numerator when calculating the average number of attached subscribers per physical SMMU2.

Data Source

SGSN

Source Field

4015

Source Section

P_SGSN_USER

AVE_ATTACH_USERS_PER_SMMU3_DEN

Number of samples taken of the number of attached subscribers per physical SMMU3. Used as denominator when calculating the average number of attached subscribers per physical SMMU3.

Data Source

SGSN

Source Field

4019

Source Section

P_SGSN_USER

AVE_ATTACH_USERS_PER_SMMU3_SUM

Sum of sample values indicating the number of attached subscribers per physical SMMU3.
Used as numerator when calculating the average number of attached subscribers per physical SMMU3.

Data Source

SGSN

Source Field

4018

Source Section

P_SGSN_USER

AVE_ATTACH_USERS_PER_SMMU4_DEN

Number of samples taken of the number of attached subscribers per physical SMMU4. Used as denominator when calculating the average number of attached subscribers per physical SMMU4.

Data Source

SGSN

Source Field

4035

Source Section

P_SGSN_USER

AVE_ATTACH_USERS_PER_SMMU4_SUM

Sum of sample values indicating the number of attached subscribers per physical SMMU4.
Used as numerator when calculating the average number of subscribers per physical SMMU4.

Data Source

SGSN

Source Field

4034

Source Section

P_SGSN_USER

AVE_GTP_PACK_UNDER_DCPM_DEN

Number of samples taken of the DCPM buffer, that is, the amount of GTP packets under DCPM.
Used as a denominator when calculating the average amount of GTP packets under DCPM. The packet under DCPM is called Possible Duplicated Data Record Packet [3GPP TS 42.215].

Data Source

SGSN

Source Field

8065

Source Section

P_SGSN_CDR

AVE_GTP_PACK_UNDER_DCPM_PEAK

Peak amount of GTP packets under DCPM. The packet under DCPM is called Possible Duplicated Data Record Packet [3GPP TS 42.215].

Data Source

SGSN

Source Field

8066

Source Section

P_SGSN_CDR

AVE_GTP_PACK_UNDER_DCPM_SUM

Sum of values indicating the amount of the GTP packets under DCPM. Used as a numerator when calculating the average amount of GTP packets under DCPM. The packet under DCPM is called Possible Duplicated Data Record Packet [3GPP TS 42.215].

Data Source

SGSN

Source Field

8064

Source Section

P_SGSN_CDR

AVE_M_CDR_QUEUE_LENGTH_DEN

Denominator of M-CDR recovery buffer utilisation. Peg retired

Data Source

SGSN

Source Field

8008

Source Section

P_SGSN_CDR

AVE_M_CDR_QUEUE_LENGTH_SUM

Nominator of ave M-CDR recovery buffer utilisation. Peg retired

Data Source

SGSN

Source Field

8007

Source Section

P_SGSN_CDR

AVE_MASTER_QUEUE_LENGTH_DEN

Number of samples taken of the send buffer utilisation. Used as a denominator when calculating the average utilisation rate of the send buffer. The buffer is common to all CDR types. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

8033

Source Section

P_SGSN_CDR

AVE_MASTER_QUEUE_LENGTH_SUM

Sum of sample values indicating the send buffer utilisation rate (0-100%). Used as a numerator when calculating the average utilisation rate of the send buffer. The buffer is common to all CDR types and includes GTP packets under duplicate CDR prevention handling. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

8032

Source Section

P_SGSN_CDR

AVE_PDP_CONTEXT_DURATION_DEN

Number of samples taken of the duration of active non-real time PDP contexts that have been deactivated during the measurement period. Used as denominator when calculating the average duration of active non-real time PDP contexts. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

4005

Source Section

P_SGSN_USER

AVE_PDP_CONTEXT_DURATION_SUM

Sum of sample values indicating the duration of active non-real time PDP contexts that have been deactivated during the measurement period. Used as numerator when calculating the average duration of active non-real time PDP contexts. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

4004

Source Section

P_SGSN_USER

AVE_RT_PDP_CONTEXT_DURA_DEN

Number of samples taken of the duration of active real time PDP contexts that have been deactivated during the measurement period. Used as denominator when calculating the average duration of active real time PDP contexts. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

4040

Source Section

P_SGSN_USER

AVE_RT_PDP_CONTEXT_DURATION

Sum of sample values indicating the duration of active real time PDP contexts that have been deactivated during the measurement period. Used as numerator when calculating the average duration of active real time PDP contexts. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

4039

Source Section

P_SGSN_USER

AVE_S_CDR_QUEUE_LENGTH_DEN

Denominator of ave S-CDR recovery buffer utilisation. Peg retired

Data Source

SGSN

Source Field

8001

Source Section

P_SGSN_CDR

AVE_S_CDR_QUEUE_LENGTH_SUM

Nominator of ave S-CDR recovery buffer utilisation. Peg retired

Data Source

SGSN

Source Field

8000

Source Section

P_SGSN_CDR

AVE_SMO_CDR_QUEUE_LENGTH_DEN

Denominator of ave S-SMO- CDR recovery buffer utilisation. Peg retired

Data Source

SGSN

Source Field

8015

Source Section

P_SGSN_CDR

AVE_SMO_CDR_QUEUE_LENGTH_SUM

Nominator of ave S-SMO-CDR recovery buffer utilisation. Peg retired

Data Source

SGSN

Source Field

8014

Source Section

P_SGSN_CDR

AVE_SMT_CDR_QUEUE_LENGTH_DEN

Denominator of ave S-SMT-CDR recovery buffer utilisation. Peg retired

Data Source

SGSN

Source Field

8022

Source Section

P_SGSN_CDR

AVE_SMT_CDR_QUEUE_LENGTH_SUM

Nominator of ave S-SMT-CDR recovery buffer utilisation. Peg retired

Data Source

SGSN

Source Field

8021

Source Section

P_SGSN_CDR

AVG_DUR_OP_SCDR_NRT_PDP_CO_DEN

Number of samples of duration of S-CDRs that are related to non realtime PDP contexts.

Data Source

SGSN

Source Field

8070

Source Section

P_SGSN_CDR

AVG_DUR_OP_SCDR_NRT_PDP_CO_SUM

Sum of samples of duration of S-CDRs that are related to non real time PDP contexts.

Data Source

SGSN

Source Field

8069

Source Section

P_SGSN_CDR

AVG_DUR_OP_SCDR_RT_PDP_CON_DEN

Number of samples of duration of S-CDRs that are related to real time PDP contexts

Data Source

SGSN

Source Field

8072

Source Section

P_SGSN_CDR

AVG_DUR_OP_SCDR_RT_PDP_CON_SUM

Sum of samples of duration of S-CDRs that are related to real time PDP contexts

Data Source

SGSN

Source Field

8071

Source Section

P_SGSN_CDR

AVG_DURATION_OF_OPEN_M_CDR_DEN

Number of samples of duration of M-CDRs.

Data Source

SGSN

Source Field

8068

Source Section

P_SGSN_CDR

AVG_DURATION_OF_OPEN_M_CDR_SUM

Sum of samples of duration of M-CDRs.

Data Source

SGSN

Source Field

8067

Source Section

P_SGSN_CDR

AVG_FR_BYTES_REC_UL_DEN

Number of samples taken from FR bytes received in uplink direction by SGSN. Used as a denominator when calculating the average rate of the FR bytes received in uplink direction.

Data Source

SGSN

Source Field

29038

Source Section

P_SGSN_GB_SGSN_DATA

AVG_FR_BYTES_REC_UL_SUM

Sum of sample values indicating the number of FR bytes received in uplink direction. Used as a numerator when calculating the average rate of the FR bytes received in uplink direction.

Data Source

SGSN

Source Field

29036

Source Section

P_SGSN_GB_SGSN_DATA

AVG_FR_BYTES_REC_UL_SUM_OF

Number of times counter 029036 has overflowed.

Data Source

SGSN

Source Field

29037

Source Section

P_SGSN_GB_SGSN_DATA

AVG_FR_BYTES_SENT_DL_DEN

Number of samples taken from FR bytes sent in downlink direction. Used as a denominator when calculating the average rate of the FR bytes sent in downlink direction.

Data Source

SGSN

Source Field

29022

Source Section

P_SGSN_GB_SGSN_DATA

AVG_FR_BYTES_SENT_DL_SUM

Sum of sample values indicating the number of FR bytes sent in downlink direction. Used as a numerator when calculating the average rate of the FR bytes sent in downlink direction.

Data Source

SGSN

Source Field

29020

Source Section

P_SGSN_GB_SGSN_DATA

AVG_FR_BYTES_SENT_DL_SUM_OF

Number of times counter 029020 has overflowed.

Data Source

SGSN

Source Field

29021

Source Section

P_SGSN_GB_SGSN_DATA

AVG_FR_PACKETS_REC_UL_DEN

Number of samples taken from FR packets received in uplink direction. Used as a denominator when calculating the average rate of the FR packets received in uplink direction.

Data Source

SGSN

Source Field

29034

Source Section

P_SGSN_GB_SGSN_DATA

AVG_FR_PACKETS_REC_UL_SUM

Sum of sample values indicating the number of FR packets received in uplink direction. Used as a numerator when calculating the average rate of the FR packets received in uplink direction.

Data Source

SGSN

Source Field

29032

Source Section

P_SGSN_GB_SGSN_DATA

AVG_FR_PACKETS_REC_UL_SUM_OF

Number of times counter 029032 has overflowed.

Data Source

SGSN

Source Field

29033

Source Section

P_SGSN_GB_SGSN_DATA

AVG_FR_PACKETS_SENT_DL_DEN

Number of samples taken from FR packets sent in downlink direction. Used as a denominator when calculating the average rate of the FR packets sent in downlink direction.

Data Source

SGSN

Source Field

29018

Source Section

P_SGSN_GB_SGSN_DATA

AVG_FR_PACKETS_SENT_DL_SUM

Sum of sample values indicating the number of FR packets sent in downlink direction. Used as a numerator when calculating the average rate of the FR packets sent in downlink direction.

Data Source

SGSN

Source Field

29016

Source Section

P_SGSN_GB_SGSN_DATA

AVG_FR_PACKETS_SENT_DL_SUM_OF

Number of times counter 029016 has overflowed.

Data Source

SGSN

Source Field

29017

Source Section

P_SGSN_GB_SGSN_DATA

AVG_GTP_BYTES_SENT_DL_DEN

Number of samples taken of GTP bytes sent in downlink direction. Used as a denominator when calculating the average rate of the GTP bytes sent in downlink direction.

Data Source

SGSN

Source Field

29030

Source Section

P_SGSN_GB_SGSN_DATA

AVG_GTP_BYTES_SENT_DL_SUM

Sum of sample values indicating the number of GTP bytes sent in downlink direction. Used as a numerator when calculating the average rate of the GTP bytes sent in downlink direction.

Data Source

SGSN

Source Field

29028

Source Section

P_SGSN_GB_SGSN_DATA

AVG_GTP_BYTES_SENT_DL_SUM_OF

Number of times counter 029028 has overflowed.

Data Source

SGSN

Source Field

29029

Source Section

P_SGSN_GB_SGSN_DATA

AVG_GTP_BYTES_SENT_UL_DEN

Number of samples taken of GTP bytes sent in uplink direction by SGSN. Used as a denominator when calculating the average rate of the GTP bytes sent in uplink direction.

Data Source

SGSN

Source Field

29046

Source Section

P_SGSN_GB_SGSN_DATA

AVG_GTP_BYTES_SENT_UL_SUM

Sum of sample values indicating the number of GTP bytes sent in uplink direction by SGSN.
Used as a numerator when calculating the average rate of the GTP bytes sent in uplink direction.

Data Source

SGSN

Source Field

29044

Source Section

P_SGSN_GB_SGSN_DATA

AVG_GTP_BYTES_SENT_UL_SUM_OF

Number of times counter 029044 has overflowed.

Data Source

SGSN

Source Field

29045

Source Section

P_SGSN_GB_SGSN_DATA

AVG_GTP_PACKETS_SENT_DL_DEN

Number of samples taken from GTP packets sent in downlink direction. Used as a denominator when calculating the average rate of the GTP packets sent in downlink direction.

Data Source

SGSN

Source Field

29026

Source Section

P_SGSN_GB_SGSN_DATA

AVG_GTP_PACKETS_SENT_DL_SUM

Sum of sample values indicating the number of GTP packets sent in downlink direction. Used as a numerator when calculating the average rate of the GTP packets sent in downlink direction.

Data Source

SGSN

Source Field

29024

Source Section

P_SGSN_GB_SGSN_DATA

AVG_GTP_PACKETS_SENT_DL_SUM_OF

Number of times counter 029024 has overflowed.

Data Source

SGSN

Source Field

29025

Source Section

P_SGSN_GB_SGSN_DATA

AVG_GTP_PACKETS_SENT_UL_DEN

Number of samples taken from GTP packets sent in uplink direction by SGSN. Used as a denominator when calculating the average rate of the GTP packets sent in uplink direction.

Data Source

SGSN

Source Field

29042

Source Section

P_SGSN_GB_SGSN_DATA

AVG_GTP_PACKETS_SENT_UL_SUM

Sum of sample values indicating the number of GTP packets sent in uplink direction by SGSN.
Used as a numerator when calculating the average rate of the GTP packets sent in uplink direction.

Data Source

SGSN

Source Field

29040

Source Section

P_SGSN_GB_SGSN_DATA

AVG_GTP_PACKETS_SENT_UL_SUM_OF

Number of times counter 029040 has overflowed.

Data Source

SGSN

Source Field

29041

Source Section

P_SGSN_GB_SGSN_DATA

AVG_OPEN_CAMEL_M_CDR_DEN

Number of samples of open M-CDRs with CAMEL relation

Data Source

SGSN

Source Field

8094

Source Section

P_SGSN_CDR

AVG_OPEN_CAMEL_M_CDR_SUM

Sum of samples of open M-CDRs with CAMEL relation

Data Source

SGSN

Source Field

8093

Source Section

P_SGSN_CDR

AVG_OPEN_CAMEL_S_CDR_DEN

Number of samples of open S-CDRs with CAMEL relation

Data Source

SGSN

Source Field

8098

Source Section

P_SGSN_CDR

AVG_OPEN_CAMEL_S_CDR_SUM

Sum of samples of open S-CDRs with CAMEL relation

Data Source

SGSN

Source Field

8097

Source Section

P_SGSN_CDR

AVG_OPEN_GB_M_CDR_DEN

Number of samples of open Gb M-CDRs.

Data Source

SGSN

Source Field

8080

Source Section

P_SGSN_CDR

AVG_OPEN_GB_M_CDR_SUM

Sum of samples of open Gb M-CDRs.

Data Source

SGSN

Source Field

8079

Source Section

P_SGSN_CDR

AVG_OPEN_GB_S_CDR_DEN

Number of samples of open Gb S-CDRs

Data Source

SGSN

Source Field

8074

Source Section

P_SGSN_CDR

AVG_OPEN_GB_S_CDR_SUM

Sum of samples of open Gb S-CDRs

Data Source

SGSN

Source Field

8073

Source Section

P_SGSN_CDR

AVG_OPEN_IPV4_S_CDR_DEN

Number of samples of open IPv4 S-CDRs

Data Source

SGSN

Source Field

8086

Source Section

P_SGSN_CDR

AVG_OPEN_IPV4_S_CDR_SUM

Sum of samples of open IPv4 S-CDRs

Data Source

SGSN

Source Field

8085

Source Section

P_SGSN_CDR

AVG_OPEN_IPV6_S_CDR_DEN

Number of samples of open IPv6 S-CDRs

Data Source

SGSN

Source Field

8090

Source Section

P_SGSN_CDR

AVG_OPEN_IPV6_S_CDR_SUM

Sum of samples of open IPv6 S-CDRs

Data Source

SGSN

Source Field

8089

Source Section

P_SGSN_CDR

AVG_OPEN_M_CDR_GB_ROAMING_DEN

Number of samples of number of active M-CDRs by roaming Gb-users.

Data Source

SGSN

Source Field

8142

Source Section

P_SGSN_CDR

AVG_OPEN_M_CDR_GB_ROAMING_SUM

Sum of samples of number of active M-CDRs by roaming Gb-users

Data Source

SGSN

Source Field

8141

Source Section

P_SGSN_CDR

AVG_OPEN_M_CDR_IU_IF_SUBS_DEN

Number of samples of open Iu M-CDRs.

Data Source

SGSN

Source Field

8118

Source Section

P_SGSN_CDR

AVG_OPEN_M_CDR_IU_IF_SUBS_SUM

Sum of samples of open Iu M-CDRs.

Data Source

SGSN

Source Field

8117

Source Section

P_SGSN_CDR

AVG_OPEN_M_CDR_IU_ROAM_DEN

Number of samples of number of active M-CDRs by roaming Iu-users.

Data Source

SGSN

Source Field

8150

Source Section

P_SGSN_CDR

AVG_OPEN_M_CDR_IU_ROAM_SUM

Sum of samples of number of active roaming M-CDRs by Iu-users.

Data Source

SGSN

Source Field

8149

Source Section

P_SGSN_CDR

AVG_OPEN_PREPAID_M_CDR_DEN

Number of samples of open Prepaid M-CDRs.

Data Source

SGSN

Source Field

8102

Source Section

P_SGSN_CDR

AVG_OPEN_PREPAID_M_CDR_SUM

Sum of samples of open Prepaid M-CDRs.

Data Source

SGSN

Source Field

8101

Source Section

P_SGSN_CDR

AVG_OPEN_PREPAID_S_CDR_DEN

Number of samples of open Prepaid S-CDRs.

Data Source

SGSN

Source Field

8106

Source Section

P_SGSN_CDR

AVG_OPEN_PREPAID_S_CDR_SUM

Sum of samples of open Prepaid S-CDRs.

Data Source

SGSN

Source Field

8105

Source Section

P_SGSN_CDR

AVG_OPEN_S_CDR_GB_ROAM_DEN

Number of samples of number of active S-CDRs by roaming Gb-users.

Data Source

SGSN

Source Field

8146

Source Section

P_SGSN_CDR

AVG_OPEN_S_CDR_GB_ROAM_SUM

Sum of samples of number of active S-CDRs by roaming Gb-users

Data Source

SGSN

Source Field

8145

Source Section

P_SGSN_CDR

AVG_OPEN_S_CDR_IU_IF_SUBS_DEN

Number of samples of open Iu S-CDRs.

Data Source

SGSN

Source Field

8114

Source Section

P_SGSN_CDR

AVG_OPEN_S_CDR_IU_IF_SUBS_SUM

Sum of samples of open Iu S-CDRs.

Data Source

SGSN

Source Field

8113

Source Section

P_SGSN_CDR

AVG_OPEN_S_CDR_IU_ROAM_DEN

Number of samples of number of active S-CDRs by roaming Iu-users.

Data Source

SGSN

Source Field

8154

Source Section

P_SGSN_CDR

AVG_OPEN_S_CDR_IU_ROAM_SUM

Sum of samples of number of active S-CDRs by roaming Iu-users.

Data Source

SGSN

Source Field

8153

Source Section

P_SGSN_CDR

AVG_OPEN_S_CDR_SEC_PDP_CON_DEN

Number of samples of open S-CDRs that are related to secondary PDP contexts.

Data Source

SGSN

Source Field

8110

Source Section

P_SGSN_CDR

AVG_OPEN_S_CDR_SEC_PDP_CON_SUM

Sum of samples of open S-CDRs that are related to secondary PDP contexts.

Data Source

SGSN

Source Field

8109

Source Section

P_SGSN_CDR

CAMEL_SUBSCRIBERS

Number of attached mobile subscribers using CAMEL services. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

4038

Source Section

P_SGSN_USER

CANCELLED_DATA_RECORD_PACKETS

Number of cancelled GTP' packets sent to the secondary charging gateway (CG).

Data Source

SGSN

Source Field

8051

Source Section

P_SGSN_CDR

COUNT_OF_ACTIVE_PDP_CONTEXTS

Current Nr of active IPv4 PDP contexts in SGSN (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

4001

Source Section

P_SGSN_USER

COUNT_OF_ATTACH_USERS

Current number of attached users in the 2G SGSN (number of open M-CDRs in 2G SGSN)
(Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

4000

Source Section

P_SGSN_USER

COUNT_OF_ROAMING_USERS

Number of attaches made by roaming subscribers. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

4006

Source Section

P_SGSN_USER

CS_PAGING_MSGS

Total amount of CS paging messages on Gs interface

Data Source

SGSN

Source Field

11001

Source Section

P_SGSN_OVERLOAD

DATA_COMPR_REJ_BY_MS

Number of data negotiations rejected by MS.

Data Source

SGSN

Source Field

4110

Source Section

P_SGSN_USER

DATA_COMPR_REJ_BY_SGSN

Number of data compression negotiations rejected by SGSN.

Data Source

SGSN

Source Field

4109

Source Section

P_SGSN_USER

DEN_PMM_CONN_IU_PDP_CTX

Number of samples of number of PMM-connected Iu PDP-context per SGSN.

Data Source

SGSN

Source Field

4114

Source Section

P_SGSN_USER

DET_UNPURGED_SUBS_ATT_SMMU_0

Number of Attach procedures where subscriber data is found from SGSN database. No HLR inquiry needed.

Data Source

SGSN

Source Field

4071

Source Section

P_SGSN_USER

DET_UNPURGED_SUBS_ATT_SMMU_1

Number of Attach procedures where subscriber data is found from SGSN database. No HLR inquiry needed.

Data Source

SGSN

Source Field

4075

Source Section

P_SGSN_USER

DET_UNPURGED_SUBS_ATT_SMMU_2

Number of Attach procedures where subscriber data is found from SGSN database. No HLR inquiry needed.

Data Source

SGSN

Source Field

4079

Source Section

P_SGSN_USER

DET_UNPURGED_SUBS_ATT_SMMU_3

Number of Attach procedures where subscriber data is found from SGSNdatabase. No HLR inquiry needed.

Data Source

SGSN

Source Field

4083

Source Section

P_SGSN_USER

DET_UNPURGED_SUBS_ATT_SMMU_4

Number of Attach procedures where subscriber data is found from SGSNdatabase. No HLR inquiry needed.

Data Source

SGSN

Source Field

4087

Source Section

P_SGSN_USER

DET_UNPURGED_USERS_SMMU_0_DEN

Number of samples of detached unpurged users in SMMU 0.

Data Source

SGSN

Source Field

4089

Source Section

P_SGSN_USER

DET_UNPURGED_USERS_SMMU_0_SUM

Sum of samples of detached unpurged users in SMMU 0

Data Source

SGSN

Source Field

4088

Source Section

P_SGSN_USER

DET_UNPURGED_USERS_SMMU_1_DEN

Number of samples of detached unpurged users in SMMU 1.

Data Source

SGSN

Source Field

4092

Source Section

P_SGSN_USER

DET_UNPURGED_USERS_SMMU_1_SUM

Sum of samples of detached unpurged users in SMMU 1

Data Source

SGSN

Source Field

4091

Source Section

P_SGSN_USER

DET_UNPURGED_USERS_SMMU_2_DEN

Number of samples of detached unpurged users in SMMU 2.

Data Source

SGSN

Source Field

4095

Source Section

P_SGSN_USER

DET_UNPURGED_USERS_SMMU_2_SUM

Sum of samples of detached unpurged users in SMMU 2

Data Source

SGSN

Source Field

4094

Source Section

P_SGSN_USER

DET_UNPURGED_USERS_SMMU_3_DEN

Number of samples of detached unpurged users in SMMU 3.

Data Source

SGSN

Source Field

4098

Source Section

P_SGSN_USER

DET_UNPURGED_USERS_SMMU_3_SUM

Sum of samples of detached unpurged users in SMMU 3

Data Source

SGSN

Source Field

4097

Source Section

P_SGSN_USER

DET_UNPURGED_USERS_SMMU_4_DEN

Number of samples of detached unpurged users in SMMU 4.

Data Source

SGSN

Source Field

4101

Source Section

P_SGSN_USER

DET_UNPURGED_USERS_SMMU_4_SUM

Sum of samples of detached unpurged users in SMMU 4

Data Source

SGSN

Source Field

4100

Source Section

P_SGSN_USER

DIRECT_TUNNEL_PDP_CONTEXT_PEAK

Peak value of SGSN-level Direct Tunnel PDP contexts.

Data Source

SGSN

Source Field

4159

Source Section

P_SGSN_USER

DIS_M_CDR_OF_IU_IF_DUE_NO_RESP

Number of M-CDR packets discarded because the SGSN has not received any response to the sent and the resent data record packets from the CG.

Data Source

SGSN

Source Field

8128

Source Section

P_SGSN_CDR

DIS_M_CDR_OF_IU_IF_DUE_OTHER

Number of M-CDRs discarded because of some other reason than send overflow or no response.

Data Source

SGSN

Source Field

8127

Source Section

P_SGSN_CDR

DIS_M_CDR_OF_IU_IF_DUE_OVERF

Number of M-CDRs discarded because of send buffer overflow.

Data Source

SGSN

Source Field

8126

Source Section

P_SGSN_CDR

DIS_S_CDR_OF_IU_IF_DUE_NO_RESP

Number of S-CDR packets discarded because the SGSN has not received any response to the sent and resent data record packets from the CG

Data Source

SGSN

Source Field

8124

Source Section

P_SGSN_CDR

DIS_S_CDR_OF_IU_IF_DUE_OTHER

Number of S-CDRs discarded because of some other reason than send overflow or no response.

Data Source

SGSN

Source Field

8123

Source Section

P_SGSN_CDR

DIS_S_CDR_OF_IU_IF_DUE_OVERF

Number of S-CDRs discarded because of send buffer overflow.

Data Source

SGSN

Source Field

8122

Source Section

P_SGSN_CDR

DIS_SMO_CDR_OF_IU_DUE_NO_RESP

Number of SMO-CDR packets discarded because the SGSN has not received any response to the sent and the resent data record packets from the CG.

Data Source

SGSN

Source Field

8132

Source Section

P_SGSN_CDR

DIS_SMO_CDR_OF_IU_DUE_OTHER

Number of SMO-CDRs discarded because of some other reason than sendoverflow or no response.

Data Source

SGSN

Source Field

8131

Source Section

P_SGSN_CDR

DIS_SMO_CDR_OF_IU_DUE_OVERFLOW

Number of SMO-CDRs discarded because of send buffer overflow.

Data Source

SGSN

Source Field

8130

Source Section

P_SGSN_CDR

DIS_SMT_CDR_OF_IU_DUE_NO_RESP

Number of SMT-CDR packets discarded because the SGSN has not received any response to the sent and the resent data record packets from the CG.

Data Source

SGSN

Source Field

8136

Source Section

P_SGSN_CDR

DIS_SMT_CDR_OF_IU_DUE_OTHER

Number of SMT-CDRs discarded because of some other reason than send overflow or no response.

Data Source

SGSN

Source Field

8135

Source Section

P_SGSN_CDR

DIS_SMT_CDR_OF_IU_DUE_OVERFLOW

Number of SMT-CDRs discarded because of send buffer overflow.

Data Source

SGSN

Source Field

8134

Source Section

P_SGSN_CDR

DISC_GTP_PACK_1H_TIMER

Number of unsent GTP packets discarded because the inoperative CG has expired. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

8039

Source Section

P_SGSN_CDR

DISC_GTP_PACK_INC_SEQ_NUM

Number of discarded GTP packets due to incorrect sequence numbers of released cancelled packets IE.

Data Source

SGSN

Source Field

8046

Source Section

P_SGSN_CDR

DISC_GTP_PACK_INV_MSG

Number of discarded GTP packets due to an invalid message format response.

Data Source

SGSN

Source Field

8040

Source Section

P_SGSN_CDR

DISC_GTP_PACK_MAND_IE_INCOR

Number of discarded GTP packets due to a mandatory IE incorrect response.

Data Source

SGSN

Source Field

8043

Source Section

P_SGSN_CDR

DISC_GTP_PACK_MAND_IE_MISS

Number of discarded GTP packets due to a mandatory IE missing response.

Data Source

SGSN

Source Field

8044

Source Section

P_SGSN_CDR

DISC_GTP_PACK_SERV_NOT_SUPP

Number of discarded GTP packets due to a service not supported response.

Data Source

SGSN

Source Field

8042

Source Section

P_SGSN_CDR

DISC_GTP_PACK_SYSTEM_FAIL

Number of discarded GTP packets due to a system failure response.

Data Source

SGSN

Source Field

8045

Source Section

P_SGSN_CDR

DISC_GTP_PACK_VR_NOT_SUPP

Number of discarded GTP packets due to a version not supported response.

Data Source

SGSN

Source Field

8041

Source Section

P_SGSN_CDR

DISCARDED_GTP_PACKET_DUE_REQ

Number of GTP packets discarded because of a Request not fulfilled response.

Data Source

SGSN

Source Field

8047

Source Section

P_SGSN_CDR

DISCARDED_M_CDRS_DUE_NO_RESP

Number of M-CDR packets discarded because the 2G SGSN has not received any response to the sent and the re-sent data record packets from the CG.

Data Source

SGSN

Source Field

8061

Source Section

P_SGSN_CDR

DISCARDED_M_CDRS_DUE_OTHER

Nr of discarded M-CDRs due to other reasons than buffer overflow. UNIT: CDR

Data Source

SGSN

Source Field

8012

Source Section

P_SGSN_CDR

DISCARDED_M_CDRS_DUE_OVERFLOW

Number of Gb interface subscriber M-CDRs discarded because of send buffer overflow. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

8011

Source Section

P_SGSN_CDR

DISCARDED_S_CDRS_DUE_NO_RESP

Number of S-CDR packets discarded because the 2G SGSN has not received any response to be sent and re-sent data record packets from the Charging Gateway (CG).

Data Source

SGSN

Source Field

8060

Source Section

P_SGSN_CDR

DISCARDED_S_CDRS_DUE_OTHER

Nr of discarded S-CDRs due to other reasons than buffer overflow

Data Source

SGSN

Source Field

8005

Source Section

P_SGSN_CDR

DISCARDED_S_CDRS_DUE_OVERFLOW

Number of Gb interface subscriber S-CDRs discarded because of send buffer overflow. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

8004

Source Section

P_SGSN_CDR

DISCARDED_SMO_CDRS_DUE_NO_RESP

Number of S-SMO-CDR packets discarded because the 2G SGSN has not received any response to the sent and the re-sent data record packets from the CG.

Data Source

SGSN

Source Field

8062

Source Section

P_SGSN_CDR

DISCARDED_SMO_CDRS_DUE_OTHER

Nr of discarded S-SMO-CDRs due to other reasons than buffer overflow

Data Source

SGSN

Source Field

8019

Source Section

P_SGSN_CDR

DISCARDED_SMO_CDRS_DUE_OVERFLOW

Number of Gb interface subscriber S-SMO-CDRs discarded because of send buffer overflow.
(Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

8018

Source Section

P_SGSN_CDR

DISCARDED_SMT_CDRS_DUE_NO_RESP

Number of S-SMT-CDR packets discarded because the 2G SGSN has not received any response to the sent and the re-sent data record packets from the CG.

Data Source

SGSN

Source Field

8063

Source Section

P_SGSN_CDR

DISCARDED_SMT_CDRS_DUE_OTHER

Nr of discarded S-SMT-CDRs due to other reasons than buffer overflow

Data Source

SGSN

Source Field

8026

Source Section

P_SGSN_CDR

DISCARDED_SMT_CDRS_DUE_OVERFLOW

Number of Gb interface subscriber S-SMT-CDRs discarded because of send buffer overflow.
(Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

8025

Source Section

P_SGSN_CDR

DL_MESSAGES_DISCARDED_IN_GS

Amount of Gs messages discarded due to overload

Data Source

SGSN

Source Field

11000

Source Section

P_SGSN_OVERLOAD

DL_TOM_MSGS

Tunnelled non-GSM mess in downlink direction on Gs interface

Data Source

SGSN

Source Field

11002

Source Section

P_SGSN_OVERLOAD

ENDED_INTERCEPTIONS

Nr of ended interceptions requested by LEA (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

4026

Source Section

P_SGSN_USER

FAIL_DATA_COMPR_NEG

Number of unsuccessful data compression negotiations.

Data Source

SGSN

Source Field

4108

Source Section

P_SGSN_USER

FAIL_HEADER_COMPR_NEG

Number of unsuccessful header compression negotiations.

Data Source

SGSN

Source Field

4104

Source Section

P_SGSN_USER

FAIL_MT_LOCATION_REQUEST

Number of all failed mobile-terminated location requests.

Data Source

SGSN

Source Field

4156

Source Section

P_SGSN_USER

FAILED_DETACH_ATTEMPTS

Number of rejected detach attempts due to overload noticed by the PAPU.

Data Source

SGSN

Source Field

11006

Source Section

P_SGSN_OVERLOAD

FAILED_INTERCEPTION_ACTIVATION

Nr of failed interception activation in all possible fault situations (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

4024

Source Section

P_SGSN_USER

FR_BYTES_REC_UL_PEAK

Peak value of FR bytes received in uplink direction.

Data Source

SGSN

Source Field

29039

Source Section

P_SGSN_GB_SGSN_DATA

FR_BYTES_SENT_DL_PEAK

Peak value of FR bytes sent in downlink direction.

Data Source

SGSN

Source Field

29023

Source Section

P_SGSN_GB_SGSN_DATA

FR_PACKETS_REC_UL_PEAK

Statistics gets the number of FR packets received in uplink direction once in a minute. If the old peak in current measurement period is smaller, this counter is updated.

Data Source

SGSN

Source Field

29035

Source Section

P_SGSN_GB_SGSN_DATA

FR_PACKETS_SENT_DL_PEAK

Statistics gets the number of FR packets sent in downlink direction once in a minute. If the old peak in current measurement period is smaller, this counter is updated.

Data Source

SGSN

Source Field

29019

Source Section

P_SGSN_GB_SGSN_DATA

GEN_M_CDR_OF_IU_IF_SUBSCRIBER

Number of generated M-CDRs of Iu interface subscribers.

Data Source

SGSN

Source Field

8125

Source Section

P_SGSN_CDR

GEN_OFFLINE_POSTPAID_MCDR_GB

Number of generated postpaid Offline M-CDRs for Gb interface subscribers.

Data Source

SGSN

Source Field

8164

Source Section

P_SGSN_CDR

GEN_OFFLINE_POSTPAID_MCDR_IU

Number of generated postpaid Offline M-CDRs for Iu interface subscribers.

Data Source

SGSN

Source Field

8163

Source Section

P_SGSN_CDR

GEN_OFFLINE_POSTPAID_SCDR_GB

Number of generated postpaid Offline S-CDRs for Gb interface subscribers.

Data Source

SGSN

Source Field

8160

Source Section

P_SGSN_CDR

GEN_OFFLINE_POSTPAID_SCDR_IU

Number of generated postpaid Offline S-CDRs for Iu interface subscribers.

Data Source

SGSN

Source Field

8159

Source Section

P_SGSN_CDR

GEN_OFFLINE_PREPAID_MCDR_GB

Number of generated prepaid Offline M-CDRs for Gb interface subscribers.

Data Source

SGSN

Source Field

8166

Source Section

P_SGSN_CDR

GEN_OFFLINE_PREPAID_MCDR_IU

Number of generated prepaid Offline M-CDRs for Iu interface subscribers.

Data Source

SGSN

Source Field

8165

Source Section

P_SGSN_CDR

GEN_OFFLINE_PREPAID_SCDR_GB

Number of generated prepaid Offline S-CDRs for Gb interface subscribers.

Data Source

SGSN

Source Field

8162

Source Section

P_SGSN_CDR

GEN_OFFLINE_PREPAID_SCDR_IU

Number of generated prepaid Offline S-CDRs for Iu interface subscribers.

Data Source

SGSN

Source Field

8161

Source Section

P_SGSN_CDR

GEN_OFFLINE_PREPAID_SMO_CDR_GB

Number of generated prepaid Offline SMO-CDRs for Gb interface subscribers.

Data Source

SGSN

Source Field

8170

Source Section

P_SGSN_CDR

GEN_OFFLINE_PREPAID_SMO_CDR_IU

Number of generated prepaid Offline SMO-CDRs for Iu interface subscribers.

Data Source

SGSN

Source Field

8169

Source Section

P_SGSN_CDR

GEN_OFFLINE_PREPAID_SMT_CDR_GB

Number of generated prepaid Offline SMT-CDRs for Gb interface subscribers.

Data Source

SGSN

Source Field

8174

Source Section

P_SGSN_CDR

GEN_OFFLINE_PREPAID_SMT_CDR_IU

Number of generated prepaid Offline SMT-CDRs for Iu interface subscribers.

Data Source

SGSN

Source Field

8173

Source Section

P_SGSN_CDR

GEN_OFFLINE_PSTPAID_SMO_CDR_GB

Number of generated postpaid Offline SMO-CDRs for Gb interface subscribers.

Data Source

SGSN

Source Field

8168

Source Section

P_SGSN_CDR

GEN_OFFLINE_PSTPAID_SMO_CDR_IU

Number of generated postpaid Offline SMO-CDRs for Iu interface subscribers.

Data Source

SGSN

Source Field

8167

Source Section

P_SGSN_CDR

GEN_OFFLINE_PSTPAID_SMT_CDR_GB

Number of generated postpaid Offline SMT-CDRs for Gb interface subscribers.

Data Source

SGSN

Source Field

8172

Source Section

P_SGSN_CDR

GEN_OFFLINE_PSTPAID_SMT_CDR_IU

Number of generated postpaid Offline SMT-CDRs for Iu interface subscribers.

Data Source

SGSN

Source Field

8171

Source Section

P_SGSN_CDR

GEN_PREPAID_SMO_CDR_OF_IU_SUBS

Number of generated Prepaid SMO-CDRs for Iu interface subscribers.

Data Source

SGSN

Source Field

8139

Source Section

P_SGSN_CDR

GEN_PREPAID_SMT_CDR_OF_IU_SUBS

Number of generated Prepaid SMT-CDRs for Iu interface subscribers.

Data Source

SGSN

Source Field

8140

Source Section

P_SGSN_CDR

GEN_S_CDR_OF_IU_IF_SUBSCRIBER

Number of generated S-CDRs of Iu interface subscribers.

Data Source

SGSN

Source Field

8121

Source Section

P_SGSN_CDR

GENER_PREPAID_M_CDR_OF_IU_SUBS

Number of generated Prepaid M-CDRs for Iu interface subscribers.

Data Source

SGSN

Source Field

8138

Source Section

P_SGSN_CDR

GENER_PREPAID_S_CDR_OF_IU_SUBS

Number of generated Prepaid S-CDRs for Iu interface subscribers.

Data Source

SGSN

Source Field

8137

Source Section

P_SGSN_CDR

GENER_SMO_CDR_OF_IU_SUBSCRIBER

Number of generated SMO-CDRs for Iu interface subscribers.

Data Source

SGSN

Source Field

8129

Source Section

P_SGSN_CDR

GENER_SMT_CDR_OF_IU_SUBSCRIBER

Number of generated SMT-CDRs for Iu interface subscribers.

Data Source

SGSN

Source Field

8133

Source Section

P_SGSN_CDR

GGSN_PDP_ACT_ALL_DYN_ADDR_OCCU

Number of failed GGSN PDP context creation operations due to "all dynamic PDP addresses are occupied". For more information see 3GPP TS 29.060. Technical Specification Group Core Network; General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface.

Data Source

SGSN

Source Field

4139

Source Section

P_SGSN_USER

GGSN_PDP_ACT_APN_ACCESS_DENIED

Number of failed GGSN PDP context creation operations due to "APN access denied - no subscription". For more information see 3GPP TS 29.060. Technical Specification Group Core Network; General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface.

Data Source

SGSN

Source Field

4154

Source Section

P_SGSN_USER

GGSN_PDP_ACT_CONTEXT_NOT_FOUND

Number of failed GGSN PDP context creation operations due to "context not found". For more information see 3GPP TS 29.060. Technical Specification Group Core Network; General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface.

Data Source

SGSN

Source Field

4137

Source Section

P_SGSN_USER

GGSN_PDP_ACT_INVAL_MSG_FORMAT

Number of failed GGSN PDP context creation operations due to "invalid message format". For more information see 3GPP TS 29.060. Technical Specification Group Core Network; General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface.

Data Source

SGSN

Source Field

4152

Source Section

P_SGSN_USER

GGSN_PDP_ACT_MANDATOR_IE_INCUR

Number of failed GGSN PDP context creation operations due to "mandatory IE incorrect". For more information see 3GPP TS 29.060. Technical Specification Group Core Network; General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface.

Data Source

SGSN

Source Field

4149

Source Section

P_SGSN_USER

GGSN_PDP_ACT_MANDATOR_IE_MISS

Number of failed GGSN PDP context creation operations due to "mandatory IE missing". For more information see 3GPP TS 29.060. Technical Specification Group Core Network; General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface.

Data Source

SGSN

Source Field

4150

Source Section

P_SGSN_USER

GGSN_PDP_ACT_MISSING_APN

Number of failed GGSN PDP context creation operations due to "missing or unknown APN". For more information see 3GPP TS 29.060. Technical Specification Group Core Network; General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface.

Data Source

SGSN

Source Field

4141

Source Section

P_SGSN_USER

GGSN_PDP_ACT_NO_MEMORY_AVAIL

Number of failed GGSN PDP context creation operations due to "no memory is available". For more information see 3GPP TS 29.060. Technical Specification Group Core Network; General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface. H15

Data Source

SGSN

Source Field

4140

Source Section

P_SGSN_USER

GGSN_PDP_ACT_NO_RESOURCE_AVAIL

Number of failed GGSN PDP context creation operations due to "no resources available". For more information see 3GPP TS 29.060. Technical Specification Group Core Network; General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface.

Data Source

SGSN

Source Field

4138

Source Section

P_SGSN_USER

GGSN_PDP_ACT_OPT_IE_INCUR

Number of failed GGSN PDP context creation operations due to "optional IE incorrect". For more information see 3GPP TS 29.060. Technical Specification Group Core Network; General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface.

Data Source

SGSN

Source Field

4151

Source Section

P_SGSN_USER

GGSN_PDP_ACT_REQ_ACCEPT_TOTAL

Total number of accepted GGSN PDP context creation requests.

Data Source

SGSN

Source Field

4136

Source Section

P_SGSN_USER

GGSN_PDP_ACT_SEM_PACK_FILT_ERR

Number of failed GGSN PDP context creation operations due to "semantic errors in packet filter(s)". For more information see 3GPP TS 29.060. Technical Specification Group Core Network; General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface.

Data Source

SGSN

Source Field

4147

Source Section

P_SGSN_USER

GGSN_PDP_ACT_SEM_TFT_ERROR

Number of failed GGSN PDP context creation operations due to "semantic error in the TFT operation". For more information see 3GPP TS 29.060. Technical Specification Group Core Network; General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface.

Data Source

SGSN

Source Field

4145

Source Section

P_SGSN_USER

GGSN_PDP_ACT_SYN_PACK_FILT_ERR

Number of failed GGSN PDP context creation operations due to "syntactic errors in packet filters(s)". For more information see 3GPP TS 29.060. Technical Specification Group Core Network; General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface.

Data Source

SGSN

Source Field

4148

Source Section

P_SGSN_USER

GGSN_PDP_ACT_SYN_TFT_ERROR

Number of failed GGSN PDP context creation operations due to "syntactic error in the TFT operation". For more information see 3GPP TS 29.060. Technical Specification Group Core Network; General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface.

Data Source

SGSN

Source Field

4146

Source Section

P_SGSN_USER

GGSN_PDP_ACT_SYSTEM_FAILURE

Number of failed GGSN PDP context creation operations due to "system failure". This is also the counter that is updated if the corresponding cause is any other cause that is not mentioned in this document. For more information see 3GPP TS 29.060. Technical Specification Group Core Network; General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface.

Data Source

SGSN

Source Field

4144

Source Section

P_SGSN_USER

GGSN_PDP_ACT_TOTAL

Total number of GGSN PDP context creation operations.

Data Source

SGSN

Source Field

4135

Source Section

P_SGSN_USER

GGSN_PDP_ACT_UNKNOWN_PDP_ADDR

Number of failed GGSN PDP context creation operations due to "unknown PDP address or PDP type". For more information see 3GPP TS 29.060. Technical Specification Group Core Network; General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface.

Data Source

SGSN

Source Field

4142

Source Section

P_SGSN_USER

GGSN_PDP_ACT_USER_AUTH_FAILURE

Number of failed GGSN PDP context creation operations due to "user authentication failed". For more information see 3GPP TS 29.060. Technical Specification Group Core Network; General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface.

Data Source

SGSN

Source Field

4143

Source Section

P_SGSN_USER

GGSN_PDP_ACT_WO_TFT_ALREADY_ACT

Number of failed GGSN PDP context creation operations due to "PDP context without TFT already activated". For more information see 3GPP TS 29.060. Technical Specification Group Core Network; General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface.

Data Source

SGSN

Source Field

4153

Source Section

P_SGSN_USER

GSM_ACC_GERAN_REJ_DUE_LA_RES

Number of GSM subscribers whose access to GERAN has been rejected due to local access restriction

Data Source

SGSN

Source Field

4116

Source Section

P_SGSN_USER

GSM_ACC_UTRAN_REJ_DUE_LA_RES

Number of GSM subscribers whose access to UTRAN has been rejected due to local access restriction.

Data Source

SGSN

Source Field

4120

Source Section

P_SGSN_USER

GTP_BYTES_SENT_DL_PEAK

Statistics gets the number of GTP bytes sent in downlink direction once in a minute. If the old peak in current measurement period is smaller, this counter is updated.

Data Source

SGSN

Source Field

29031

Source Section

P_SGSN_GB_SGSN_DATA

GTP_BYTES_SENT_UL_PEAK

Peak value of GTP bytes sent in uplink direction.

Data Source

SGSN

Source Field

29047

Source Section

P_SGSN_GB_SGSN_DATA

GTP_PACK_UNDER_DCPM

Percentage of GTP packets under Duplicate CDR Prevention Mechanism (DCPM) handling.

Data Source

SGSN

Source Field

8038

Source Section

P_SGSN_CDR

GTP_PACKETS_SENT_DL_PEAK

Statistics gets the number of GTP packets sent in downlink direction once in a minute. If the old peak in current measurement period is smaller, this counter is updated.

Data Source

SGSN

Source Field

29027

Source Section

P_SGSN_GB_SGSN_DATA

GTP_PACKETS_SENT_UL_PEAK

Statistics gets the number of GTP packets sent in uplink direction once in a minute. If the old peak in current measurement period is smaller, this counter is updated.

Data Source

SGSN

Source Field

29043

Source Section

P_SGSN_GB_SGSN_DATA

HEADER_COMPR_NEG_REJ_BY_MS

Number of header compression negotiations rejected by MS.

Data Source

SGSN

Source Field

4106

Source Section

P_SGSN_USER

HEADER_COMPR_NEG_REJ_BY_SGSN

Number of header compression negotiations rejected by SGSN.

Data Source

SGSN

Source Field

4105

Source Section

P_SGSN_USER

IHSPA_PDP_CONTEXTS_PEAK

Maximum number of I-HSPA PDP contexts.

Data Source

SGSN

Source Field

4158

Source Section

P_SGSN_USER

IHSPA_USERS_PEAK

Maximum number of I-HSPA users.

Data Source

SGSN

Source Field

4157

Source Section

P_SGSN_USER

INOPERATIVE_CG_INFORMED

Number of discoveries that a Charging Gateway (CG) network element has become inoperative or the connection to a CG has been lost.

Data Source

SGSN

Source Field

8035

Source Section

P_SGSN_CDR

IPV6_ACTIVE_PDP_CONTEXTS

Number of active PDP contexts using the IPv6 PDP type (number of open S-CDRs of IPv6 PDP contexts). (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

4033

Source Section

P_SGSN_USER

IPV6_HEADER_COMPRESSION_USERS

Number of active PDP contexts using the IPv6 header compression.

Data Source

SGSN

Source Field

4037

Source Section

P_SGSN_USER

IU_ATTACHES_BY_ROAMING_SUBS

Number of Iu attaches made by roaming subscribers.

Data Source

SGSN

Source Field

4134

Source Section

P_SGSN_USER

M_CDR_STORED_ON_DISK_OVERFL

M-CDRs stored on disk due to Ga interface overflow. Stored CDRS are transferred to CG with FTP.

Data Source

SGSN

Source Field

8176

Source Section

P_SGSN_CDR

MIN_ACTIVE_GB_PDP_CONTEXTS

Minimum Number of PDP context by Gb users

Data Source

SGSN

Source Field

4050

Source Section

P_SGSN_USER

MIN_ACTIVE_IU_PDP_CONTEXTS

Minimum Number of PDP context by Iu users.

Data Source

SGSN

Source Field

4052

Source Section

P_SGSN_USER

MIN_ACTIVE_PDP_CONTEX_GB_IU

Minimum Number of PDP context by Gb and Iu users.

Data Source

SGSN

Source Field

4054

Source Section

P_SGSN_USER

MIN_ATTACH_GB_USERS

Minimum Number of attached Gb users in the measurement period.

Data Source

SGSN

Source Field

4042

Source Section

P_SGSN_USER

MIN_ATTACH_IU_USERS

Minimum Number of attached IU users in the measurement period.

Data Source

SGSN

Source Field

4044

Source Section

P_SGSN_USER

MIN_ATTACH_USERS_ACT_PDP_CON

Minimum Number of attached users with one or more PDP context.

Data Source

SGSN

Source Field

4048

Source Section

P_SGSN_USER

MIN_ATTACH_USERS_GB_IU

Minimum Number of attached Gb and Iu users in the measurement period.

Data Source

SGSN

Source Field

4046

Source Section

P_SGSN_USER

MIN_OPEN_CAMEL_M_CDR

Minimum of samples of open M-CDRs with CAMEL relation

Data Source

SGSN

Source Field

8095

Source Section

P_SGSN_CDR

MIN_OPEN_CAMEL_S_CDR

Minimum of samples of open S-CDRs with CAMEL relation

Data Source

SGSN

Source Field

8099

Source Section

P_SGSN_CDR

MIN_OPEN_GB_M_CDR

Minimum of samples of number of open Gb M-CDRs.

Data Source

SGSN

Source Field

8081

Source Section

P_SGSN_CDR

MIN_OPEN_GB_S_CDR

Minimum of samples of number of open Gb S-CDRs

Data Source

SGSN

Source Field

8075

Source Section

P_SGSN_CDR

MIN_OPEN_IPV4_S_CDR

Minimum of samples of open IPv4 S-CDRs

Data Source

SGSN

Source Field

8087

Source Section

P_SGSN_CDR

MIN_OPEN_IPV6_S_CDR

Minimum of samples of open IPv6 S-CDRs

Data Source

SGSN

Source Field

8091

Source Section

P_SGSN_CDR

MIN_OPEN_M_CDR_GB_IU

Minimum of samples of number of open M-CDRs. Both Iu and Gb interfaces included.

Data Source

SGSN

Source Field

8083

Source Section

P_SGSN_CDR

MIN_OPEN_M_CDR_GB_ROAM_SUBS

Min value of number of active M-CDRs by roaming Gb-users

Data Source

SGSN

Source Field

8144

Source Section

P_SGSN_CDR

MIN_OPEN_M_CDR_IU_IF_SUBS

Minimum of samples of open Iu M-CDRs.

Data Source

SGSN

Source Field

8119

Source Section

P_SGSN_CDR

MIN_OPEN_M_CDR_IU_ROAM_SUBS

Peak value of number of active roaming M-CDRs by Iu-users.

Data Source

SGSN

Source Field

8152

Source Section

P_SGSN_CDR

MIN_OPEN_PREPAID_M_CDR

Minimum of samples of open Prepaid M-CDRs.

Data Source

SGSN

Source Field

8103

Source Section

P_SGSN_CDR

MIN_OPEN_PREPAID_S_CDR

Minimum of samples of open Prepaid S-CDRs.

Data Source

SGSN

Source Field

8107

Source Section

P_SGSN_CDR

MIN_OPEN_S_CDR_GB_IU

Minimum of samples of number of open S-CDRs. Both Iu and Gb interfaces included.

Data Source

SGSN

Source Field

8077

Source Section

P_SGSN_CDR

MIN_OPEN_S_CDR_GB_ROAM_SUBS

Min value of number of active S-CDRs by roaming Gb-users

Data Source

SGSN

Source Field

8148

Source Section

P_SGSN_CDR

MIN_OPEN_S_CDR_IU_IF_SUBS

Minimum of samples of open Iu S-CDRs.

Data Source

SGSN

Source Field

8115

Source Section

P_SGSN_CDR

MIN_OPEN_S_CDR_IU_ROAM_SUBS

Minimum value of number of active S-CDRs by roaming Iu-users.

Data Source

SGSN

Source Field

8156

Source Section

P_SGSN_CDR

MIN_OPEN_S_CDR_SECOND_PDP_CON

Minimum of samples of open S-CDRs that are related to secondary PDP contexts.

Data Source

SGSN

Source Field

8111

Source Section

P_SGSN_CDR

MIN_PMM_CONN_IU_PDP_CTX

Minimum number of PMM-connected Iu PDP-context per SGSN.

Data Source

SGSN

Source Field

4112

Source Section

P_SGSN_USER

MIN_PR_CLASS_1_PDP_CONTEXTS

Minimum Number of priority class 1 PDP contexts.

Data Source

SGSN

Source Field

4056

Source Section

P_SGSN_USER

MIN_PR_CLASS_2_PDP_CONTEXTS

Minimum Number of priority class 2 PDP contexts.

Data Source

SGSN

Source Field

4058

Source Section

P_SGSN_USER

MIN_PR_CLASS_3_PDP_CONTEXTS

Minimum Number of priority class 3 PDP contexts.

Data Source

SGSN

Source Field

4060

Source Section

P_SGSN_USER

MIN_PR_CLASS_4_PDP_CONTEXTS

Minimum Number of priority class 4 PDP contexts.

Data Source

SGSN

Source Field

4062

Source Section

P_SGSN_USER

MIN_PR_CLASS_CONV_PDP_CONTEX

Minimum Number of priority class Conversational PDP contexts.

Data Source

SGSN

Source Field

4066

Source Section

P_SGSN_USER

MIN_PR_CLASS_STR_PDP_CONTEXTS

Minimum Number of priority class Streaming PDP contexts.

Data Source

SGSN

Source Field

4064

Source Section

P_SGSN_USER

MOBILE_TARGET_INTERCEPTED

Nr of mobile targets being intercepted (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

4023

Source Section

P_SGSN_USER

NO_OPERATIVE_CG_DURATION

Time period during which there is no operative charging gateway (CG) in the IP backbone.

Data Source

SGSN

Source Field

8037

Source Section

P_SGSN_CDR

NO_OPERATIVE_CG_INFORMED

Number of situations when there are no operative Charging Gateway (CG) network elements on the IP backbone.

Data Source

SGSN

Source Field

8036

Source Section

P_SGSN_CDR

PDP_CONTEXT_ACT_IN_FREE

Active IN prepaid PDP Contexts where the MS user gets free- of charge service

Data Source

SGSN

Source Field

4022

Source Section

P_SGSN_USER

PEAK_ACTIVE_GB_PDP_CONTEXTS

Maximum Number of PDP context by Gb users.

Data Source

SGSN

Source Field

4051

Source Section

P_SGSN_USER

PEAK_ACTIVE_IU_PDP_CONTEXTS

Maximum Number of PDP context by Iu users.

Data Source

SGSN

Source Field

4053

Source Section

P_SGSN_USER

PEAK_ACTIVE_PDP_CONTEX_GB_IU

Maximum Number of PDP context by Gb and Iu users.

Data Source

SGSN

Source Field

4055

Source Section

P_SGSN_USER

PEAK_ATTACH_GB_USERS

Maximum Number of attached Gb users in the measurement period.

Data Source

SGSN

Source Field

4043

Source Section

P_SGSN_USER

PEAK_ATTACH_IU_USERS

Maximum Number of attached IU users in the measurement period.

Data Source

SGSN

Source Field

4045

Source Section

P_SGSN_USER

PEAK_ATTACH_USERS_ACT_PDP_CON

Maximum Number of attached users with one or more PDP context.

Data Source

SGSN

Source Field

4049

Source Section

P_SGSN_USER

PEAK_ATTACH_USERS_GB_IU

Maximum Number of attached Gb and Iu users in the measurement period.

Data Source

SGSN

Source Field

4047

Source Section

P_SGSN_USER

PEAK_ATTACH_USERS_PER_SMMU0

Peak number of attached users per physical SMMU0.

Data Source

SGSN

Source Field

4011

Source Section

P_SGSN_USER

PEAK_ATTACH_USERS_PER_SMMU1

Peak number of attached users per physical SMMU1.

Data Source

SGSN

Source Field

4014

Source Section

P_SGSN_USER

PEAK_ATTACH_USERS_PER_SMMU2

Peak number of attached users per physical SMMU2.

Data Source

SGSN

Source Field

4017

Source Section

P_SGSN_USER

PEAK_ATTACH_USERS_PER_SMMU3

Peak number of attached users per physical SMMU3.

Data Source

SGSN

Source Field

4020

Source Section

P_SGSN_USER

PEAK_ATTACH_USERS_PER_SMMU4

Peak number of attached users per physical SMMU4.

Data Source

SGSN

Source Field

4036

Source Section

P_SGSN_USER

PEAK_DET_UNPURGED_USERS_SMMU_0

Peak number detached unpurged users in SMMU 0.

Data Source

SGSN

Source Field

4090

Source Section

P_SGSN_USER

PEAK_DET_UNPURGED_USERS_SMMU_1

Peak number detached unpurged users in SMMU 1.

Data Source

SGSN

Source Field

4093

Source Section

P_SGSN_USER

PEAK_DET_UNPURGED_USERS_SMMU_2

Peak number detached unpurged users in SMMU 2.

Data Source

SGSN

Source Field

4096

Source Section

P_SGSN_USER

PEAK_DET_UNPURGED_USERS_SMMU_3

Peak number detached unpurged users in SMMU 3.

Data Source

SGSN

Source Field

4099

Source Section

P_SGSN_USER

PEAK_DET_UNPURGED_USERS_SMMU_4

Peak number detached unpurged users in SMMU 4.

Data Source

SGSN

Source Field

4102

Source Section

P_SGSN_USER

PEAK_M_CDR_QUEUE_LENGTH

Peak M-CDR recovery buffer utilisation. Peg retired

Data Source

SGSN

Source Field

8009

Source Section

P_SGSN_CDR

PEAK_MASTER_QUEUE_LENGTH

Peak utilisation rate of the send buffer. The buffer is common to all CDR types. (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

8034

Source Section

P_SGSN_CDR

PEAK_OPEN_CAMEL_M_CDR

Peak of samples of open M-CDRs with CAMEL relation

Data Source

SGSN

Source Field

8096

Source Section

P_SGSN_CDR

PEAK_OPEN_CAMEL_S_CDR

Peak of samples of open S-CDRs with CAMEL relation

Data Source

SGSN

Source Field

8100

Source Section

P_SGSN_CDR

PEAK_OPEN_GB_M_CDR

Peak of samples of number of open Gb M-CDRs.

Data Source

SGSN

Source Field

8082

Source Section

P_SGSN_CDR

PEAK_OPEN_GB_S_CDR

Peak of samples of number of open Gb S-CDRs

Data Source

SGSN

Source Field

8076

Source Section

P_SGSN_CDR

PEAK_OPEN_IPV4_S_CDR

Peak of samples of open IPv4 S-CDRs

Data Source

SGSN

Source Field

8088

Source Section

P_SGSN_CDR

PEAK_OPEN_IPV6_S_CDR

Peak of samples of open IPv6 S-CDRs

Data Source

SGSN

Source Field

8092

Source Section

P_SGSN_CDR

PEAK_OPEN_M_CDR_GB_IU

Peak of samples of number of open M-CDRs. Both Iu and Gb interfaces included.

Data Source

SGSN

Source Field

8084

Source Section

P_SGSN_CDR

PEAK_OPEN_M_CDR_GB_ROAM_SUBS

Peak value of number of active M-CDRs by roaming Gb-users

Data Source

SGSN

Source Field

8143

Source Section

P_SGSN_CDR

PEAK_OPEN_M_CDR_IU_IF_SUBS

Peak of samples of open Iu M-CDRs.

Data Source

SGSN

Source Field

8120

Source Section

P_SGSN_CDR

PEAK_OPEN_M_CDR_IU_ROAM_SUBS

Peak value of number of active M-CDRs by roaming Iu-users.

Data Source

SGSN

Source Field

8151

Source Section

P_SGSN_CDR

PEAK_OPEN_M_CDR_TOT_ROAM_SUBS

Peak total value of roaming M-CDRs.

Data Source

SGSN

Source Field

8157

Source Section

P_SGSN_CDR

PEAK_OPEN_PREPAID_M_CDR

Peak of samples of open Prepaid M-CDRs.

Data Source

SGSN

Source Field

8104

Source Section

P_SGSN_CDR

PEAK_OPEN_PREPAID_S_CDR

Peak of samples of open Prepaid S-CDRs.

Data Source

SGSN

Source Field

8108

Source Section

P_SGSN_CDR

PEAK_OPEN_S_CDR_GB_IU

Peak of samples of number of open S-CDRs. Both Iu and Gb interfaces included.

Data Source

SGSN

Source Field

8078

Source Section

P_SGSN_CDR

PEAK_OPEN_S_CDR_GB_ROAM_SUBS

Peak value of number of active S-CDRs by roaming Gb-users

Data Source

SGSN

Source Field

8147

Source Section

P_SGSN_CDR

PEAK_OPEN_S_CDR_IU_IF_SUBS

Peak of samples of open Iu S-CDRs.

Data Source

SGSN

Source Field

8116

Source Section

P_SGSN_CDR

PEAK_OPEN_S_CDR_IU_ROAM_SUBS

Peak value of number of active S-CDRs by roaming Iu-users.

Data Source

SGSN

Source Field

8155

Source Section

P_SGSN_CDR

PEAK_OPEN_S_CDR_SECOND_PDP_CON

Peak of samples of open S-CDRs that are related to secondary PDP contexts.

Data Source

SGSN

Source Field

8112

Source Section

P_SGSN_CDR

PEAK_OPEN_S_CDR_TOT_ROAM_SUBS

Peak total value of roaming S-CDRs.

Data Source

SGSN

Source Field

8158

Source Section

P_SGSN_CDR

PEAK_PMM_CONN_IU_PDP_CTX

Maximum number of PMM-connected Iu PDP-context per SGSN.

Data Source

SGSN

Source Field

4111

Source Section

P_SGSN_USER

PEAK_PR_CLASS_1_PDP_CONTEXTS

Maximum Number of priority class 1 PDP contexts.

Data Source

SGSN

Source Field

4057

Source Section

P_SGSN_USER

PEAK_PR_CLASS_2_PDP_CONTEXTS

Maximum Number of priority class 2 PDP contexts.

Data Source

SGSN

Source Field

4059

Source Section

P_SGSN_USER

PEAK_PR_CLASS_3_PDP_CONTEXTS

Maximum Number of priority class 3 PDP contexts.

Data Source

SGSN

Source Field

4061

Source Section

P_SGSN_USER

PEAK_PR_CLASS_4_PDP_CONTEXTS

Maximum Number of priority class 4 PDP contexts.

Data Source

SGSN

Source Field

4063

Source Section

P_SGSN_USER

PEAK_PR_CLASS_CONV_PDP_CONTEX

Maximum Number of priority class Conversational PDP contexts.

Data Source

SGSN

Source Field

4067

Source Section

P_SGSN_USER

PEAK_PR_CLASS_STR_PDP_CONTEXTS

Maximum Number of priority class Streaming PDP contexts.

Data Source

SGSN

Source Field

4065

Source Section

P_SGSN_USER

PEAK_S_CDR_QUEUE_LENGTH

Peak S-CDR recovery buffer utilisation. Peg retired

Data Source

SGSN

Source Field

8002

Source Section

P_SGSN_CDR

PEAK_SMO_CDR_QUEUE_LENGTH

Peak S-SMO-CDR recovery buffer utilisation. Peg retired

Data Source

SGSN

Source Field

8016

Source Section

P_SGSN_CDR

PEAK_SMT_CDR_QUEUE_LENGTH

Peak S-SMT-CDR recovery buffer utilisation. Peg retired

Data Source

SGSN

Source Field

8023

Source Section

P_SGSN_CDR

PERLENSEC

Measurement collection interval (in seconds)

PURGES_WITH_HLR_FAIL_SMMU_0

Number of purge procedures with HLR failure.

Data Source

SGSN

Source Field

4070

Source Section

P_SGSN_USER

PURGES_WITH_HLR_FAIL_SMMU_1

Number of purge procedures with HLR failure.

Data Source

SGSN

Source Field

4074

Source Section

P_SGSN_USER

PURGES_WITH_HLR_FAIL_SMMU_2

Number of purge procedures with HLR failure.

Data Source

SGSN

Source Field

4078

Source Section

P_SGSN_USER

PURGES_WITH_HLR_FAIL_SMMU_3

Number of purge procedures with HLR failure.

Data Source

SGSN

Source Field

4082

Source Section

P_SGSN_USER

PURGES_WITH_HLR_FAIL_SMMU_4

Number of purge procedures with HLR failure.

Data Source

SGSN

Source Field

4086

Source Section

P_SGSN_USER

RECEIVED_M_CDRS

Nr of M-CDRs generated, and received from the charging collection entity

Data Source

SGSN

Source Field

8010

Source Section

P_SGSN_CDR

RECEIVED_NODE_ALIVE_REQUESTS

Number of Node Alive Requests that the SGSN receives from the charging gateway (CG).

Data Source

SGSN

Source Field

8054

Source Section

P_SGSN_CDR

RECEIVED_PREPAID_M_CDRS

Nr of prepaid M-CDRs generated, received from charging collection entity

Data Source

SGSN

Source Field

8029

Source Section

P_SGSN_CDR

RECEIVED_PREPAID_S_CDRS

Nr of prepaid S-CDRs generated, received from charging collection entity

Data Source

SGSN

Source Field

8028

Source Section

P_SGSN_CDR

RECEIVED_PREPAID_SMO_CDRS

Nr of prepaid SMO-CDRs generated, received from charging collection entity

Data Source

SGSN

Source Field

8030

Source Section

P_SGSN_CDR

RECEIVED_PREPAID_SMT_CDRS

Nr of prepaid SMT-CDRs generated, received from charging collection entity

Data Source

SGSN

Source Field

8031

Source Section

P_SGSN_CDR

RECEIVED_RED_REQ_DUE_ANOTHER

Number of Redirection Requests received by the SGSN from charging gateway (CG) with cause another node is about to go down.

Data Source

SGSN

Source Field

8056

Source Section

P_SGSN_CDR

RECEIVED_RED_REQ_DUE_REC_BUFFE

Number of Redirection Requests that the SGSN receives from the charging gateway (CG) with cause the receive buffers are becoming full

Data Source

SGSN

Source Field

8058

Source Section

P_SGSN_CDR

RECEIVED_RED_REQ_DUE_SEND_BUFF

Number of Redirection Requests that the SGSN receives from the charging gateway (CG) with cause the send buffers are becoming full

Data Source

SGSN

Source Field

8059

Source Section

P_SGSN_CDR

RECEIVED_RED_REQ_DUE_SYSTEM_FA

Number of Redirection Requests that the SGSN receives from the charging gateway (CG) with cause system failure.

Data Source

SGSN

Source Field

8057

Source Section

P_SGSN_CDR

RECEIVED_RED_REQ_DUE_THIS_NODE

Number of Redirection Requests that the SGSN receives from the charging gateway (CG) with cause this node is about to go down.

Data Source

SGSN

Source Field

8055

Source Section

P_SGSN_CDR

RECEIVED_S_CDRS

Nr of S-CDRs generated, and received from the charging collection entity

Data Source

SGSN

Source Field

8003

Source Section

P_SGSN_CDR

RECEIVED_SMO_CDRS

Nr of S-SMO-CDRs generated, and received

Data Source

SGSN

Source Field

8017

Source Section

P_SGSN_CDR

RECEIVED_SMT_CDRS

Nr of S-SMT-CDRs generated, and received

Data Source

SGSN

Source Field

8024

Source Section

P_SGSN_CDR

REJ_ATTACH_IN_EAR_PHASE

Number of rejected attach attempts in the first overload control checkpoint due to overload noticed by the PAPU.

Data Source

SGSN

Source Field

11008

Source Section

P_SGSN_OVERLOAD

REJ_MO_SMS_ATTEMPTS

Number of rejected MO SMS due to overload noticed by the PAPU.

Data Source

SGSN

Source Field

11007

Source Section

P_SGSN_OVERLOAD

REJ_PDP_CONT_ACT_ATTEMPTS

Number of rejected PDP context activation attempts due to overload noticed by the PAPU.

Data Source

SGSN

Source Field

11004

Source Section

P_SGSN_OVERLOAD

REJ_PDP_CONT_MODIFY_ATT

Number of rejected PDP context modify attempts due to overload noticed by the PAPU.

Data Source

SGSN

Source Field

11010

Source Section

P_SGSN_OVERLOAD

REJ_RA_UPD_IN_EARLY_PHASE

Number of rejected routing area update attempts in the first overload control checkpoint due to overload.

Data Source

SGSN

Source Field

11009

Source Section

P_SGSN_OVERLOAD

REJECTED_ATTACH_ATTEMPTS

Number of rejected attach attempts in the second overload control checkpoint due to overload noticed by the PAPU.

Data Source

SGSN

Source Field

11003

Source Section

P_SGSN_OVERLOAD

REJECTED_RA_UPDATES

Number of rejected routing area update attempts in the second overload control checkpoint due to overload noticed by the PAPU.

Data Source

SGSN

Source Field

11005

Source Section

P_SGSN_OVERLOAD

RELEASED_DATA_RECORD_PACKETS

Number of released GTP' packets sent to the secondary charging gateway (CG).

Data Source

SGSN

Source Field

8052

Source Section

P_SGSN_CDR

RESENT_DATA_RECORD_PACKETS

Number of GTP' packets sent to charging gateway (CG) during retry.

Data Source

SGSN

Source Field

8049

Source Section

P_SGSN_CDR

RESENT_M_CDRS

Nr of M-CDRs resent to Charging Gateway. Peg retired

Data Source

SGSN

Source Field

8013

Source Section

P_SGSN_CDR

RESENT_S_CDRS

Nr of S-CDRs resent to Charging Gateway. Peg retired

Data Source

SGSN

Source Field

8006

Source Section

P_SGSN_CDR

RESENT_SMO_CDRS

Nr of S-SMO-CDRs resent to Charging Gateway. Peg retired

Data Source

SGSN

Source Field

8020

Source Section

P_SGSN_CDR

RESENT_SMT_CDRS

Nr of S-SMT-CDRs resent to Charging Gateway. Peg retired

Data Source

SGSN

Source Field

8027

Source Section

P_SGSN_CDR

S_CDR_STORED_ON_DISK_OVERFL

S-CDRs stored on disk due to Ga interface overflow. Stored CDRS are transferred to CG with FTP.

Data Source

SGSN

Source Field

8175

Source Section

P_SGSN_CDR

SENT_DATA_RECORD_PACKET

Number of GTP' packets sent to the charging gateway (CG) at the first attempt.

Data Source

SGSN

Source Field

8048

Source Section

P_SGSN_CDR

SENT_POSSIBLY_DUPLICATED_DATA

Number of possible duplicated GTP' packets sent to the secondary charging gateway (CG).

Data Source

SGSN

Source Field

8050

Source Section

P_SGSN_CDR

SGSN_LEVEL_PS_PAGING_ATT

Number of SGSN level pagers. The maximum number of SGSN-level paging attempts in one paging procedure is defined with the GPRS Network Handling MML, command group EJ.

Data Source

SGSN

Source Field

26002

Source Section

P_SGSN_GB_SGSN_PAGING

SGSN_LEVEL_PS_PAGINGS

Number of started Gb PS paging procedures.

Data Source

SGSN

Source Field

26000

Source Section

P_SGSN_GB_SGSN_PAGING

SGSN_LEVEL_UNSUCC_PS_PAG

Number of failed Gb PS paging procedures.

Data Source

SGSN

Source Field

26001

Source Section

P_SGSN_GB_SGSN_PAGING

SGSNRelease

SGSN Release

SMO_CDR_STORED_ON_DISK_OVERFL

SMO-CDRs stored on disk due to Ga interface overflow. Stored CDRS are transferred to CG with FTP.

Data Source

SGSN

Source Field

8177

Source Section

P_SGSN_CDR

SMT_CDR_STORED_ON_DISK_OVERFL

SMT-CDRs stored on disk due to Ga interface overflow. Stored CDRS are transferred to CG with FTP.

Data Source

SGSN

Source Field

8178

Source Section

P_SGSN_CDR

STARTED_INTERCEPTIONS

Nr of started interceptions requested by LEA (Peg retired, SG6, RP12)

Data Source

SGSN

Source Field

4025

Source Section

P_SGSN_USER

SUCC_DATA_COMPR_NEG

Number of successful data compression negotiations.

Data Source

SGSN

Source Field

4107

Source Section

P_SGSN_USER

SUCC_DATA_RECORD_PACKET_RESPON

Number of GTP' packets that have been sent as a response by the charging gateway (CG).

Data Source

SGSN

Source Field

8053

Source Section

P_SGSN_CDR

SUCC_HEADER_COMPR_NEG

Number of successful header compression negotiations.

Data Source

SGSN

Source Field

4103

Source Section

P_SGSN_USER

SUCC_MT_LOCATION_REQUEST

Number of all successful mobile-terminated location requests.

Data Source

SGSN

Source Field

4155

Source Section

P_SGSN_USER

SUCC_PURGES_SMMU_0

Number of successful purge procedures.

Data Source

SGSN

Source Field

4068

Source Section

P_SGSN_USER

SUCC_PURGES_SMMU_1

Number of successful purge procedures.

Data Source

SGSN

Source Field

4072

Source Section

P_SGSN_USER

SUCC_PURGES_SMMU_2

Number of successful purge procedures.

Data Source

SGSN

Source Field

4076

Source Section

P_SGSN_USER

SUCC_PURGES_SMMU_3

Number of successful purge procedures.

Data Source

SGSN

Source Field

4080

Source Section

P_SGSN_USER

SUCC_PURGES_SMMU_4

Number of successful purge procedures.

Data Source

SGSN

Source Field

4084

Source Section

P_SGSN_USER

SUM_PMM_CONN_IU_PDP_CTX

Sum of number of PMM-connected Iu PDP-context per SGSN.

Data Source

SGSN

Source Field

4113

Source Section

P_SGSN_USER

UMTS_ACC_GERAN_REJ_DUE_LA_RES

Number of UMTS subscribers whose access to GERAN has been rejected due to local access restriction.

Data Source

SGSN

Source Field

4117

Source Section

P_SGSN_USER

UMTS_ACC_UTRAN_REJ_DUE_LA_RES

Number of UMTS subscribers whose access to UTRAN has been rejected due to local access restriction.

Data Source

SGSN

Source Field

4121

Source Section

P_SGSN_USER

UNSUCCESSFUL_PURGES_SMMU_0

Number of unsuccessful purge procedures.

Data Source

SGSN

Source Field

4069

Source Section

P_SGSN_USER

UNSUCCESSFUL_PURGES_SMMU_1

Number of unsuccessful purge procedures.

Data Source

SGSN

Source Field

4073

Source Section

P_SGSN_USER

UNSUCCESSFUL_PURGES_SMMU_2

Number of unsuccessful purge procedures.

Data Source

SGSN

Source Field

4077

Source Section

P_SGSN_USER

UNSUCCESSFUL_PURGES_SMMU_3

Number of unsuccessful purge procedures.

Data Source

SGSN

Source Field

4081

Source Section

P_SGSN_USER

UNSUCCESSFUL_PURGES_SMMU_4

Number of unsuccessful purge procedures.

Data Source

SGSN

Source Field

4085

Source Section

P_SGSN_USER

V42_BIS_COMPRESSION_USERS

Nr of attached V.42bis compression users

Data Source

SGSN

Source Field

4008

Source Section

P_SGSN_USER

VJ_HEADER_COMPRESSION_USERS

Nr of attached Van Jacobsen Header Compression users

Data Source

SGSN

Source Field

4007

Source Section

P_SGSN_USER

System Primitive Calculations

The following is a list of primitive calculations for the System entity.

GRAPHmultiLineSeparator

Special Control Field for Multi-Line Graphs

Calculation

""

NUMDAYS

of days in Report

Calculation

DAYSINREPORT ()

NUMHOURS

of hours in Summation Data

Calculation

PERFORMANCE DATA REFERENCE
IBM Prospect 8.0 for Nokia GSM/GPRS

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