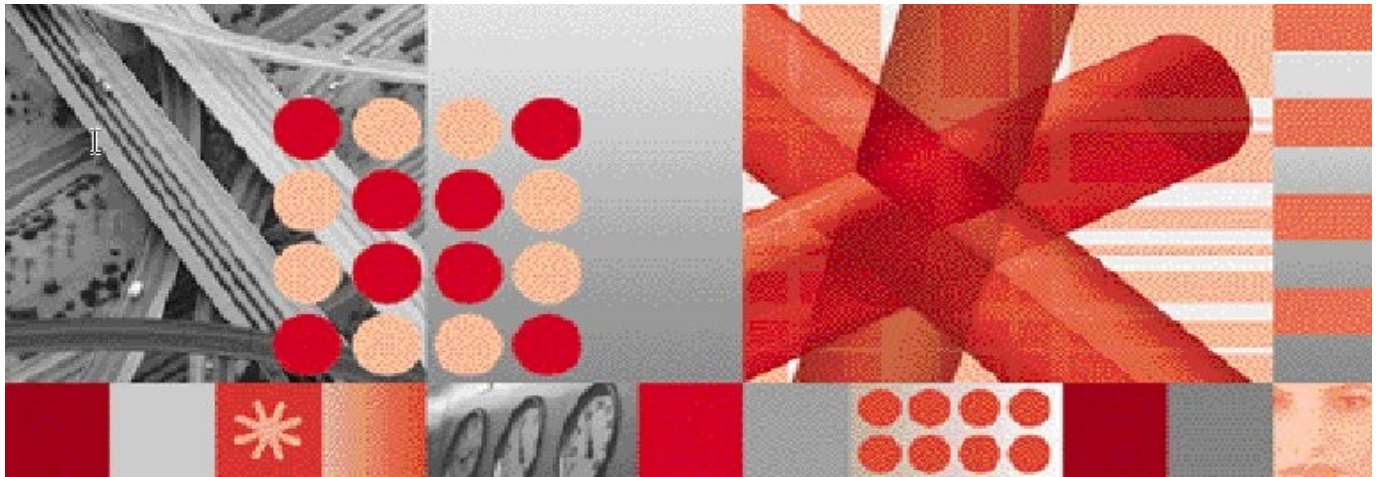


Version 3.5.0.2



Ericsson MGW R5.1 Gateway Configuration Distribution Note

Note: Before using this information and the product it supports, read the information in Notices on page 34.

This edition applies to Version 4.1 of IBM® Tivoli® Netcool® Performance Manager for Wireless and to all subsequent releases and modifications until otherwise indicated in new editions.

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1 About this Documentation

1.1 Audience

The target audience of this document is IBM Performance Manager for Wireless customers. They should be familiar with telecommunication and IT principles and should also have a good understanding of Solaris.

IMPORTANT: Before attempting an installation of Performance Manager for Wireless you are strongly advised to read the release notes and any readme files distributed with your Performance Manager for Wireless software. Readme files and release notes may contain information specific to your installation not contained in this guide. Failure to consult readme files and release notes may result in a corrupt, incomplete or failed installation.

Note: Performance Manager for Wireless Administrators should not, without prior consultation and agreement from IBM, make any changes to the Index Organized tables or database schema. Changes to the Index Organized tables or database schema may result in corruption of data and failure of the Performance Manager for Wireless System. This applies to all releases of Performance Manager for Wireless using all versions of interfaces.

1.2 Required Skills and Knowledge

This guide assumes you are familiar with the following:

- General IT Principles
- Sun Solaris Operating System
- Oracle Database
- Windows operating systems
- Graphical User Interfaces
- Network Operator's OSS and BSS systems architecture

This guide also assumes that you are familiar with your company's network and with procedures for configuring, monitoring, and solving problems on your network.

2 Associated Documents

The following documentation accompanies this release:

2.1 Referenced Documents

Document Name	Document Description
[Gateways Install Note]	This document describes the steps required to install and run a Gateway.

2.2 Other Related Documents

Document Name	Document Description
[Gateway Framework User Guide]	Gateway Framework User Guide describing the management and configuration of the Gateway Framework.
[3GPP-XML]	3GPP-XML User Guide describing the management and configuration of the Vendor Gateway.
[3GPP-ASN.1]	3GPP-ASN.1 User Guide describing the management and configuration of the Vendor Gateway.

3 Introduction

You should read this Distribution Note before proceeding to install the Gateway Configuration.

For information on the Gateway Framework, its configuration and use refer to the [Gateway Framework User Guide].

The Gateway Framework and Vendor Gateway are supplied as separate packages. As part of the Vendor Gateway installation process, it must reference a Gateway Framework installation. This separation simplifies the maintenance and version control of multiple vendor Gateway installations on a single server.

This Distribution Note provides an overview of the release history of the Gateway Configuration.

3.1 Vendor Gateway Version

This Gateway Configuration requires the following Vendor Gateway:

- 3GPP-XML version 3.5.1.1
- 3GPP-ASN.1 version 3.5.1.2

4 Release History

4.1 Release 3.5.0.2

Release date 12 October 2009

Listed below are the enhancements to this release.

#	Description
N/A	N/A

Listed below are the bugs fixed in this release.

Bug#	Description
IZ55187	Octets Counters No Longer Pegged In R5.1
IZ55193	IPINTERFACE PEGGED Counters Are Now Reset After Each Period In R5.1
IZ55099	GIGABITETHERNET Pegged Counters Are Now Reset After Each Period In R5.1
IZ55123	ATMPort-VPLTP-VPCTP-VCLTP and ATMPort-VPLTP PEGGED Counters PMRECEIVEDATMCELLS and PMTRANSMITTEDATMCELLS Are Now Reset
IZ56210	Counter PMSCTPCURRESTAB Is Loaded Incorrectly
IZ53579	No Data For Type TRANSPORTNETWORK MTP3BSPITU MTP3BSLS
valnt00094621	Rename of counter names not require
valnt00094809	Hi-Lo Counters change (PMR - 06107,124,848)

4.2 Release 3.5.0.1

Release date 18 August 2009

Listed below are the enhancements to this release.

#	Description
N/A	N/A

Listed below are the bugs fixed in this release.

Bug#	Description
------	-------------

valnt00091888	Gateway Configuration Distribution Note updates
valnt00092102	PIF files remains in 'inter d' folder for ASN.1 Raw Data
valnt00092155	Only one instance produced in LIF for all Signalling Link Block
valnt00092296	Some counters missing in Mgw MediaCallStatistics Block
valnt00092385	Errors in Gateway audit and log file

4.3 Release 3.4.1.1

Release date 20 July 2009

Listed below are the enhancements to this release.

#	Description
1	Creation of new blocks based on current available blocks
2	Creation of new blocks based on aggregation on current available blocks

Listed below are the bugs fixed in this release.

Bug#	Description
N/A	N/A

4.4 Release 3.4.0.2

Release date 16 April 2009

Listed below are the enhancements to this release.

#	Description
1	The usage of the new document template for Gateway Configuration Distribution Notes
2	Gateway Configuration changes to support R5.1 data

Listed below are the bugs fixed in this release.

Bug#	Description
N/A	N/A

4.5 Release 3.4.0.1

Release date 15 October 2008

Listed below are the enhancements to this release.

Enhancement#	Description
1	Porting of the configuration from MPM to NA, for both 3GPP-XML and 3GPP-ASN.1 format
2	Minor configuration adjustment

Listed below are the bugs fixed in this release.

Bug#	Description
N/A	N/A

4.6 Release 3.4.0.1

Release date 3 June 2008

Listed below are the enhancements to this release.

Enhancement#	Description
1	Bluewash and updating of IBM copyrights
2	Renaming of counters/blocks
3	Converting of white space inside data value to underscore

Listed below are the bugs fixed in this release.

Bug#	Description
N/A	N/A

5 Data type and releases supported

Please refer to the [Gateway Installation Notes] for the detail on the vendor version and the GC directory structure.

Vendor Performance Data Type	Gateway Configuration Release Directory	Supported Vendor Version
Ericsson MGW 3GPP-XML	r5.1-3gpp-xml-config	R5.1
Ericsson MGW 3GPP-ASN.1	r5.1-3gpp-asn.1-config	R5.1
Ericsson MGW 3GPP-XML	r4.2-3gpp-xml-config	R4.2
Ericsson MGW 3GPP-ASN.1	r4.2-3gpp-asn.1-config	R4.2

5.1 Raw input files

The gateway configuration was built against and supports the following performance raw file definition. Differences in file naming may occur due to the configurable nature of some vendor equipment. Under such conditions, the variances are not immediately supported by the gateway configuration.

5.1.1 File names

XML file names are in the format:-
A20070326.0000-0015_1.xml

ASN.1 file names are in the format:-
A20061129.1130-1145_LSPCW_1

5.1.2 Naming Rules

Naming Rules for XML raw data file

<Type><Startdate>.<Starttime>- [<Enddate>.]<Endtime>_ [<UniqueId>] [_<RC>]

<Type> consist of (A/B/C/D)

- A - Single NE, single granularity period.
- B - Multiple NEs, single granularity period.
- C - Single NE, multiple granularity periods.

D - Multiple NEs, multiple granularity periods.

<Startdate> is the date when the granularity period begins (for A and B) or the first granularity period of the measurement result comes to availability (C and D). It takes the format of YYYYMMDD, where

YYYY - 4 digits year.

MM - 2 digits month (01-12).

DD - 2 digits day (01-31).

<Starttime> is the time when the scenario mentioned above happens. It takes the format of HHMMshhmm, where

HH - 2 digits hour (00-23)

MM - 2 digits minute (00-59)

s - The sign for UTC time (+ or -)

hh - 2 digits hour for local time differential from UTC time (00-23)

mm - 2 digits minute for local time differential from UTC time (00-59)

The following are optional tokens in the filename:

<Enddate> only exists if the type is C or D. It indicates the end of the last granularity period. The format is the same as <Startdate>.

<Endtime> indicates when the granularity period (the last granularity period if type is C or D) ends. The format is same as <Starttime> but the minute portion is only in multiple of 5, i.e. (00, 05, 10, 15 etc.).

<UniqueId> is the name of the NE, EM or domain. This field is optional.

<RC> is a running count. It shall be appended only if the filename is not unanimous.

Naming Rules for ASN.1 raw data file

<Type><Startdate>.<Starttime>-<Endtime>[_<Node>_<RC>]

The file name does not contain the time given in local time with the shift towards Coordinated Universal Time (UTC).

The Starttime field and Endtime field are of the format HHMM (Hours and Minutes) and given in UTC.

The RC (running count) parameter is always appended with the value of "1".

5.1.3 File Format

File format for XML raw data file

The files are in the standard 3GPP XML data format.

The blockname should be extracted from the <moid>

```
<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="MeasDataCollection.xsl"?>
<!DOCTYPE mdc SYSTEM "MeasDataCollection.dtd">
<mdc xmlns:HTML="http://www.w3.org/TR/REC-xml">
<mfh>
<ffv>32.401 V6.2</ffv>
<sn>SubNetwork=ONRM_RootMo,SubNetwork=MGW,MeContext=MGWJKT601</sn>
<st></st>
<vn></vn>
<cbt>20070326000000Z</cbt>
</mfh>
<md>
<neid>
<neun></neun>
<nedn>SubNetwork=ONRM_RootMo,SubNetwork=MGW,MeContext=MGWJKT601</nedn>
<nesw>GMPV3_MGw_NDP_R4.1.0.0_R1A01</nesw>
</neid>
<mi>
<mts>20070326001500Z</mts>
<gp>900</gp>
<mt>pmVcBbe</mt>
<mt>pmVcEs</mt>
<mt>pmVcSes</mt>
<mt>pmVcUas</mt>
<mv>
<moid>ManagedElement=1,Equipment=1,Subrack=3,Slot=22,PlugInUnit=1,
ExchangeTerminal=1,Os155SpiTtp=MOD2-22-2,Vc4Ttp=1</moid>
<r>0</r>
<r>0</r>
<r>0</r>
<r>900</r>
</mv>
<mv>
```

File format for ASN.1 raw data file

The files are in the standard 3GPP ASN.1 data format.

The blockname should be extracted from the MeasObjInstId.

(Below is only a content sample of the data file. The actual data file is in ASN.1 binary format, whereby the characters used and line sequence may differ from what is shown here)

```
GROUP!A20061129.1130-1145_LSPCW_1!CollectionBeginTime!SenderName!MeasObjInstId!
GranularityPeriod!MeasTimeStamp!MeasType!SuspectFlag!pmTfoAmrNbNegotiations!pmT
foAmrNbEstablishments!pmTfoAmrNbDroppedCalls!pmTfoAmrNbFallbacks!pmTfoAmrNbReNe
gotiations!pmTfoAmrNbReEstablishments!pmTfoAmrNbEndPointMode!pmTfoEfrNegotiatio
ns!pmTfoEfrEstablishments!pmTfoEfrDroppedCalls!pmTfoEfrFallbacks!pmTfoEfrReNego
tiations!pmTfoEfrReEstablishments!pmTfoEfrEndPointMode!
```

```
DATA!!2006-11-29 11:30!SubNetwork=CH,SubNetwork=MGW,MeContext=LSPCW!ManagedElem
ent=1,MsProcessing=1,TfoService=1!900!2006-11-29 11:45!!0!0!0!0!0!0!0!0!0!0!0!
!0!0!0!
```

```
GROUP!A20061129.1130-1145_LSPCW_1!CollectionBeginTime!SenderName!MeasObjInstId!  
GranularityPeriod!MeasTimeStamp!MeasType!SuspectFlag!egressAtmPcr!ingressAtmPcr  
!userLabel!AtmTrafficDescriptorId!
```

```
DATA!!2006-11-29 11:30!SubNetwork=CH,SubNetwork=MGw,MeContext=LSPCW!ManagedElem  
ent=1,TransportNetwork=1,AtmTrafficDescriptor=C1Q1P44150M0!900!2006-11-29 11:45  
!!0!44150!44150!!!
```

5.2 Hierarchy input files

The gateway configuration was built against and supports the following hierarchy raw file definition. Differences in file naming may occur due to the configurable nature of some vendor equipment. Under such conditions, the variances are not immediately supported by the gateway configuration.

N/A

5.2.1 Hierarchy Diagram

```
Network  
|  
+----- Region  
|  
|----- AAL1_Tp_Vcc_Tp  
|  
|----- AAL2_Signalling_Point  
|  
|----- AAL2_Access_Point  
|  
|----- AAL5_Tp_Vcc_Tp  
|  
|----- ATM_Port  
|  
|----- VplTp  
|  
|----- VpcTp  
|  
|----- VclTp  
|  
|----- AtmTrafficDescriptor  
|  
|----- DChannel_Tp  
|  
|----- Gcp_Association  
|  
|----- IP_Interface  
|  
|----- Ethernet_Link  
|  
|----- Ip_Atm_Link  
|  
|----- IUA_App_Server  
|  
|----- Ip_Protocol_Layer  
|  
|----- MGW  
|  
|----- AAL2PathVccTp  
|  
|----- E1  
|  
|----- Echo_Cancellation  
|  
|----- IMA
```

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```

|
|      +----- Interactive_Messaging
|      +----- MGW_Resource_Pool
|      +----- MS_Processing
|              +----- MS_Device_Pool
|      +----- OS155
|      +----- Sigtran
|      +----- STS1
|      +----- STS3
|      +----- T1
|      +----- TdmTermGrp
|      +----- VC11
|      +----- VC12
|      +----- VC3
|      +----- VC4
|      +----- VMGW
|      +----- VT15
+----- MTP3B_AP
+----- MTP3B_SP
|      +----- MTP3B_SRS
|              +----- MTP3B_SR
+----- Nni_SAAL_Tp
+----- OSPF
|      +----- OSPF_Area
|      +----- OSPF_Interface
+----- Plug_In_Unit
|      +----- Fast_Ethernet
|      +----- GigabitEthernet
|      +----- Medium_Access_Unit
|      +----- MS_Device_Group
+----- RemoteSite
+----- SGSN
|      +----- RNC
|              +----- NodeB
|                      +----- Synchronization
+----- Signalling_Point
+----- Unknown_RemoteSite

```

Below is the hierarchy diagram for the Vendor Neutral release:-

```
Network
|
+----- Region
|
|   +----- IP_Interface
|   |
|   |   +----- MGW
|   |   |
|   |   |   +----- RNC
|   |   |   |
|   |   |   |   +----- Cell
|   |   |   |   |
|   |   |   |   |   +----- MTP3_UA_Link
|   |   |   |   |   |
|   |   |   |   |   |   +----- Saal_Termination_Point
|   |   |   |   |   |   |
|   |   |   |   |   |   |   +----- MTP3_UA_Link
|   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   +----- Saal_Termination_Point
|   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   +----- VMGW
|   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   +----- Signalling_Point
|   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   +----- Signalling_Linkset
|   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   +----- Signalling_Link
```


6 Configurations

6.1 Transfer Engine configuration

N/A

6.2 Parser Engine configuration

- All of the objects obtain their NETWORK_ID and REGION_ID from their respective directory names:-
 - NETWORK_ID – second last directory in the path
 - REGION_ID – last directory after the NETWORK_ID
- All required objects for 3GPP-XML and 3GPP-ASN.1 is parsed accordingly based on their Measurement Object Instance ID (MOID) and values.
- Below the necessary information to set the mapping of Starttime, Endtime, Day and period measurement:

Field in the LIFs	Mapping/expression
collectionBeginTime_Date	In ASN.1, extracted from CollectionBeginTime In XML, extracted from <cbt>
collectionBeginTime_Time	In ASN.1, extracted from CollectionBeginTime In XML, extracted from <cbt>
granularityPeriod	In ASN.1, extracted from GranularityPeriod In XML, extracted from <gp>

6.2.1 Order

The order of the values in the 3GPP-XML and 3GPP-ASN.1 files is as per the raw data.

6.2.2 Renaming

- Forbidden characters are to be replaced with underscore. Non-ASCII characters are to be removed.
- For counter userLabel (a user-input-field that contains special characters, spaces, etc.), spaces and non-ASCII characters is converted to underscore.

6.3 Post Parser user configuration

6.3.1 Aggregation

There are four aggregated blocks in this R5.1 TechPack named as Mgw_Aggregated_Ansi, Mgw_Aggregated_China, Mgw_Aggregated_Itu and Mgw_Aggregated_Ttc.

Generally, each block contains aggregated lower level data from the following blocks up to MGW level.

- IpSystem_IpAccessHostGpb
- ManagedElement_AccessSignalling_IuaApplicationServer
- MgwApplication_IpNetwork_RemoteSite
- MgwApplication_UnknownRemoteSite
- MgwApplication_Vmgw
- TransportNetwork_Aal2Sp_Aal2Ap
- TransportNetwork_SccpSp
- TransportNetwork_Sctp

Due to standards dependency (Ansi, China, Itu and Ttc standards being supported), each block also contains aggregated lower level data from the following specific blocks up to MGW level.

Mgw_Aggregated_Ansi:

- TransportNetwork_Mtp3bSpAnsi_M3uAssociation
- TransportNetwork_Mtp3bSpAnsi_Mtp3bSls

Mgw_Aggregated_China:

- TransportNetwork_Mtp3bSpChina_M3uAssociation
- TransportNetwork_Mtp3bSpChina_Mtp3bSls

Mgw_Aggregated_Itu:

- TransportNetwork_Mtp3bSpItu_M3uAssociation
- TransportNetwork_Mtp3bSpItu_Mtp3bSls

Mgw_Aggregated_Ttc:

- TransportNetwork_Mtp3bSpTtc_M3uAssociation
- TransportNetwork_Mtp3bSpTtc_Mtp3bSls

Additional aggregation to support Vendor Neutral release:

Block name	Aggregate to Common Object	Aggregated block
MsProcessing_EfrService_AGGR	MGW	MsProcessing_EfrService Key to be used to aggregate is nEDistinguishedName_MeContext
MsProcessing_AmrService_AGGR	MGW	MsProcessing_AmrService

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		Key to be used to aggregate is nEDistinguishedName_MeContext
MsProcessing_AmrWbService_AGGR	MGW	MsProcessing_AmrWbService Key to be used to aggregate is nEDistinguishedName_MeContext
MsProcessing_PcmService_AGGR	MGW	MsProcessing_PcmService Key to be used to aggregate is nEDistinguishedName_MeContext
MsProcessing_ContinuityCheckService_AGGR	MGW	MsProcessing_ContinuityCheckService Key to be used to aggregate is nEDistinguishedName_MeContext
MsProcessing_DtmfService_AGGR	MGW	MsProcessing_DtmfReceiverService MsProcessing_DtmfSenderService Key to be used to aggregate is nEDistinguishedName_MeContext NOTE Counters merged from MsProcessing_DtmfReceiverService Should have "DTMFDetect" inserted after the string "pm" in the counter name, e.g. pmTotalSeizures should become pmDTMFDetectTotalSeizures Counters merged from MsProcessing_DtmfSenderService Should have "DTMFGeneration" inserted after the string "pm" in the counter name, e.g. pmTotalSeizures should become pmDTMFGenerationTotalSeizures
MsProcessing_EcService_AGGR	MGW	MsProcessing_EcService Key to be used to aggregate is nEDistinguishedName_MeContext
MgwApplication_Vmgw_AGGR	MGW	MgwApplication_Vmgw Key to be used to aggregate is nEDistinguishedName_MeContext
MsProcessing_MpcService_AGGR	MGW	MsProcessing_MpcService Key to be used to aggregate is nEDistinguishedName_MeContext
MsProcessing_NrService_AGGR	MGW	MsProcessing_NrService Key to be used to aggregate is nEDistinguishedName_MeContext
MgwApplication_TdmTermGrp_AGGR	MGW	MgwApplication_TdmTermGrp Key to be used to aggregate is nEDistinguishedName_MeContext
MsProcessing_TfoService_AGGR	MGW	MsProcessing_TfoService Key to be used to aggregate is nEDistinguishedName_MeContext
Mgw_MediaCallStatistics	MGW	MgwApplication_Vmgw_AGGR MgwApplication_TdmTermGrp_AGGR Key to be used to aggregate is nEDistinguishedName_MeContext

Additional block creation with no aggregation to support Vendor Neutral release:

Block name	Object	Method of creation
TN_Mtp3bSpltu_M3UA	MTP3_UA_Link	Exact copy of block TransportNetwork_Mtp3bSplTU_M3uAssociation
TN_Mtp3bSpAnsi_M3UA	MTP3_UA_Link	Exact copy of block TransportNetwork_Mtp3bSpAnsi_M3uAssociation

TN_Mtp3bSpChina_M3UA	MTP3_UA_Link	Exact copy of block TransportNetwork_Mtp3bSpChina_M3uAssociation
TN_Mtp3bSpTtc_M3UA	MTP3_UA_Link	Exact copy of block TransportNetwork_Mtp3bSpTtc_M3uAssociation
Mtp3bltu_Mtp3bSI	Signalling_Link	Same counter set as TransportNetwork_Mtp3bSpltu_Mtp3bSIs but with no aggregation performed, i.e. counters are kept as Signalling Link level.
Mtp3bAnsi_Mtp3bSI	Signalling_Link	Same counter set as TransportNetwork_Mtp3bSpAnsi_Mtp3bSIs but with no aggregation performed, i.e. counters are kept as Signalling Link level.
Mtp3bChina_Mtp3bSI	Signalling_Link	Same counter set as TransportNetwork_Mtp3bSpChina_Mtp3bSIs but with no aggregation performed, i.e. counters are kept as Signalling Link level.
Mtp3bTtc_Mtp3bSI	Signalling_Link	Same counter set as TransportNetwork_Mtp3bSpTtc_Mtp3bSIs but with no aggregation performed, i.e. counters are kept as Signalling Link level.

6.3.2 Unpegging

Below is the list of counter block and its unpegged counter name:-

Block Name	Counter Name
ManagedElement_AccessSignalling_DChannelTp	pmDiscardedInboundFrames
ManagedElement_AccessSignalling_DChannelTp	pmDiscardedOutboundFrames
ManagedElement_AccessSignalling_DChannelTp	pmOctetsInRecFrames
ManagedElement_AccessSignalling_DChannelTp	pmOctetsInReTransmFrames
ManagedElement_AccessSignalling_DChannelTp	pmOctetsInTransmFrames
ManagedElement_AccessSignalling_DChannelTp	pmRecDmFramesRspToSabme
ManagedElement_AccessSignalling_DChannelTp	pmRecFrames
ManagedElement_AccessSignalling_DChannelTp	pmRecFramesCtrlFieldUndef
ManagedElement_AccessSignalling_DChannelTp	pmRecFramesFcsError
ManagedElement_AccessSignalling_DChannelTp	pmRecFramesN201Error
ManagedElement_AccessSignalling_DChannelTp	pmRecFramesNotPermInfoFldOrLngFr
ManagedElement_AccessSignalling_DChannelTp	pmRecFramesNrError
ManagedElement_AccessSignalling_DChannelTp	pmRecFrmr
ManagedElement_AccessSignalling_DChannelTp	pmRecInvalidFrames
ManagedElement_AccessSignalling_DChannelTp	pmRecUnexpectedFrames
ManagedElement_AccessSignalling_DChannelTp	pmRecUnsolicSupervisFrames
ManagedElement_AccessSignalling_DChannelTp	pmRetransmittedFrames
ManagedElement_AccessSignalling_DChannelTp	pmTransmDmFramesRspToSabme
ManagedElement_AccessSignalling_DChannelTp	pmTransmittedFrames
ManagedElement_AccessSignalling_DChannelTp	pmUnsuccRetrmsOthFramesN200Times
ManagedElement_AccessSignalling_DChannelTp	pmUnsuccRetrmsSabmeN200Times
ManagedElement_AccessSignalling_luaApplicationServer	pmluaSctpComLostExtReasons

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ManagedElement_AccessSignalling_IuaApplicationServer	pmIuaSctpComLostIntReasons
ManagedElement_AccessSignalling_IuaApplicationServer	pmRecAspdnMessages
ManagedElement_AccessSignalling_IuaApplicationServer	pmRecAspiaMessages
ManagedElement_AccessSignalling_IuaApplicationServer	pmSentIuaMessages
ManagedElement_AccessSignalling_IuaApplicationServer	pmSentQptmMessages
ManagedElement_AccessSignalling_IuaApplicationServer	pmUnsentIuaMessages
ManagedElement_AccessSignalling_IuaApplicationServer	pmUnsentQptmMessages
MgwApplication	pmNrOfAmrWbUnitsRejDueToCapacity
MgwApplication	pmNrOfG729UnitsRejDueToCapacity
MgwApplication	pmNrOfRejsByIslOverload
MgwApplication_GcpAssociation	pmNoOfSctpCommunicationErr
MgwApplication_GcpAssociation	pmNoOfSctpCommunicationLost
MgwApplication_GcpAssociation	pmNoOfSctpCongestionCeasedIndication
MgwApplication_GcpAssociation	pmNoOfSctpCongestionIndication
MgwApplication_GcpAssociation	pmNoOfSctpGcpMsgDiscarded
MgwApplication_GcpAssociation	pmNoOfSctpMaxTrialsForAssocEstabReached
MgwApplication_GcpAssociation	pmNoOfSctpNetworkStatusChange
MgwApplication_GcpAssociation	pmNoOfSctpSendFailure
MgwApplication_GcpAssociation	pmNoOfSctpSuccessAssocAbort
MgwApplication_GcpAssociation	pmNoOfSctpSuccessAssocEstablish
MgwApplication_GcpAssociation	pmNoOfSctpUnsuccessAssocEstablish
MgwApplication_IpNetwork_RemoteSite	pmConnMeasuredJitter6
MgwApplication_IpNetwork_RemoteSite	pmConnMeasuredJitter7
MgwApplication_IpNetwork_RemoteSite	pmConnMeasuredJitter8
MgwApplication_IpNetwork_RemoteSite	pmIpReceivedEcnPkts
MgwApplication_IpNetwork_RemoteSite	pmNrOfAdmCtrlAcceptedConnections
MgwApplication_IpNetwork_RemoteSite	pmRtpDiscardedPkts
MgwApplication_IpNetwork_RemoteSite	pmRtpLostPkts
MgwApplication_IpNetwork_RemoteSite	pmRtpReceivedDscpCongPackets
MgwApplication_IpNetwork_RemoteSite	pmRtpReceivedOctetsHi
MgwApplication_IpNetwork_RemoteSite	pmRtpReceivedOctetsLo
MgwApplication_IpNetwork_RemoteSite	pmRtpReceivedPktsHi
MgwApplication_IpNetwork_RemoteSite	pmRtpReceivedPktsLo
MgwApplication_IpNetwork_RemoteSite	pmRtpSentOctetsHi
MgwApplication_IpNetwork_RemoteSite	pmRtpSentOctetsLo
MgwApplication_IpNetwork_RemoteSite	pmRtpSentPktsHi
MgwApplication_IpNetwork_RemoteSite	pmRtpSentPktsLo
MgwApplication_IpNetwork_RemoteSite	pmSuccTransmittedPktsHi
MgwApplication_IpNetwork_RemoteSite	pmSuccTransmittedPktsLo
MgwApplication_TdmTermGrp	pmNoOfTdmTermsRejOverlProt
MgwApplication_UnknownRemoteSite	pmCallsWithRtpPacketLoss0
MgwApplication_UnknownRemoteSite	pmCallsWithRtpPacketLoss1
MgwApplication_UnknownRemoteSite	pmCallsWithRtpPacketLoss2
MgwApplication_UnknownRemoteSite	pmCallsWithRtpPacketLoss3
MgwApplication_UnknownRemoteSite	pmCallsWithRtpPacketLoss4
MgwApplication_UnknownRemoteSite	pmCallsWithRtpPacketLoss5
MgwApplication_UnknownRemoteSite	pmCallsWithRtpPacketLoss6
MgwApplication_UnknownRemoteSite	pmConnLatePktsRatio0
MgwApplication_UnknownRemoteSite	pmConnLatePktsRatio1

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MgwApplication_UnknownRemoteSite	pmConnLatePktsRatio2
MgwApplication_UnknownRemoteSite	pmConnLatePktsRatio3
MgwApplication_UnknownRemoteSite	pmConnLatePktsRatio4
MgwApplication_UnknownRemoteSite	pmConnLatePktsRatio5
MgwApplication_UnknownRemoteSite	pmConnLatePktsRatio6
MgwApplication_UnknownRemoteSite	pmConnMeasuredJitter0
MgwApplication_UnknownRemoteSite	pmConnMeasuredJitter1
MgwApplication_UnknownRemoteSite	pmConnMeasuredJitter2
MgwApplication_UnknownRemoteSite	pmConnMeasuredJitter3
MgwApplication_UnknownRemoteSite	pmConnMeasuredJitter4
MgwApplication_UnknownRemoteSite	pmConnMeasuredJitter5
MgwApplication_UnknownRemoteSite	pmConnMeasuredJitter6
MgwApplication_UnknownRemoteSite	pmConnMeasuredJitter7
MgwApplication_UnknownRemoteSite	pmConnMeasuredJitter8
MgwApplication_UnknownRemoteSite	pmIpReceivedEcnPkts
MgwApplication_UnknownRemoteSite	pmLatePktsDueToDeJitter
MgwApplication_UnknownRemoteSite	pmRtpDiscardedPkts
MgwApplication_UnknownRemoteSite	pmRtpLostPkts
MgwApplication_UnknownRemoteSite	pmRtpReceivedDscpCongPackets
MgwApplication_UnknownRemoteSite	pmRtpReceivedOctetsHi
MgwApplication_UnknownRemoteSite	pmRtpReceivedOctetsLo
MgwApplication_UnknownRemoteSite	pmRtpReceivedPktsHi
MgwApplication_UnknownRemoteSite	pmRtpReceivedPktsLo
MgwApplication_UnknownRemoteSite	pmRtpSentOctetsHi
MgwApplication_UnknownRemoteSite	pmRtpSentOctetsLo
MgwApplication_UnknownRemoteSite	pmRtpSentPktsHi
MgwApplication_UnknownRemoteSite	pmRtpSentPktsLo
MgwApplication_UnknownRemoteSite	pmSuccTransmittedPktsHi
MgwApplication_UnknownRemoteSite	pmSuccTransmittedPktsLo
MgwApplication_Vmgw	pmNoOfAmrOnluConns
MgwApplication_Vmgw	pmNoOfAmrOnVolpConns
MgwApplication_Vmgw	pmNoOfAmrWbOnluConns
MgwApplication_Vmgw	pmNoOfAmrWbOnNbConns
MgwApplication_Vmgw	pmNoOfAmrWbOnVolpConns
MgwApplication_Vmgw	pmNoOfCodecModRej
MgwApplication_Vmgw	pmNoOfCodecModReq
MgwApplication_Vmgw	pmNoOfEfrOnVolpConns
MgwApplication_Vmgw	pmNoOfG711OnVolpConns
MgwApplication_Vmgw	pmNrOfG729OnVolpConns
MgwApplication_Vmgw	pmNrOfIulpBearerSupervTmrExp
MgwApplication_Vmgw	pmNrOfVolpBearerSupervTmrExp
MsProcessing_AmrWbService	pmForcedRelease
MsProcessing_AmrWbService	pmNormalRelease
MsProcessing_AmrWbService	pmTotalSeizures
MsProcessing_AmrWbService	pmUnsuccSeizures
MsProcessing_G729Service	pmForcedRelease
MsProcessing_G729Service	pmNormalRelease
MsProcessing_G729Service	pmTotalSeizures
MsProcessing_G729Service	pmUnsuccSeizures

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MsProcessing_IpEtService	pmForcedRelease
MsProcessing_IpEtService	pmNormalRelease
MsProcessing_IpEtService	pmTotalSeizures
MsProcessing_IpEtService	pmUnsuccSeizures
MsProcessing_JitterHandlingService	pmIpRanConnLatePktsRatio0
MsProcessing_JitterHandlingService	pmIpRanConnLatePktsRatio1
MsProcessing_JitterHandlingService	pmIpRanConnLatePktsRatio2
MsProcessing_JitterHandlingService	pmIpRanConnLatePktsRatio3
MsProcessing_JitterHandlingService	pmIpRanConnLatePktsRatio4
MsProcessing_JitterHandlingService	pmIpRanConnLatePktsRatio5
MsProcessing_JitterHandlingService	pmIpRanConnLatePktsRatio6
MsProcessing_JitterHandlingService	pmIpRanConnMeasuredJitter0
MsProcessing_JitterHandlingService	pmIpRanConnMeasuredJitter1
MsProcessing_JitterHandlingService	pmIpRanConnMeasuredJitter2
MsProcessing_JitterHandlingService	pmIpRanConnMeasuredJitter3
MsProcessing_JitterHandlingService	pmIpRanConnMeasuredJitter4
MsProcessing_JitterHandlingService	pmIpRanConnMeasuredJitter5
MsProcessing_JitterHandlingService	pmLatePktsIpRan
MsProcessing_JitterHandlingService	pmLatePktsVolp
MsProcessing_JitterHandlingService	pmSuccTransmittedPktsIpRan
MsProcessing_JitterHandlingService	pmSuccTransmittedPktsVolp
MsProcessing_JitterHandlingService	pmVolpConnLatePktsRatio0
MsProcessing_JitterHandlingService	pmVolpConnLatePktsRatio1
MsProcessing_JitterHandlingService	pmVolpConnLatePktsRatio2
MsProcessing_JitterHandlingService	pmVolpConnLatePktsRatio3
MsProcessing_JitterHandlingService	pmVolpConnLatePktsRatio4
MsProcessing_JitterHandlingService	pmVolpConnLatePktsRatio5
MsProcessing_JitterHandlingService	pmVolpConnLatePktsRatio6
MsProcessing_JitterHandlingService	pmVolpConnMeasuredJitter0
MsProcessing_JitterHandlingService	pmVolpConnMeasuredJitter1
MsProcessing_JitterHandlingService	pmVolpConnMeasuredJitter2
MsProcessing_JitterHandlingService	pmVolpConnMeasuredJitter3
MsProcessing_JitterHandlingService	pmVolpConnMeasuredJitter4
MsProcessing_JitterHandlingService	pmVolpConnMeasuredJitter5
MsProcessing_JitterHandlingService	pmVolpConnMeasuredJitter6
MsProcessing_JitterHandlingService	pmVolpConnMeasuredJitter7
MsProcessing_JitterHandlingService	pmVolpConnMeasuredJitter8
MsProcessing_PcmService	pmForcedRelease
MsProcessing_PcmService	pmNormalRelease
MsProcessing_PcmService	pmTotalSeizures
MsProcessing_PcmService	pmUnsuccSeizures
MsProcessing_TfoService	pmTfoAmrWbDroppedCalls
MsProcessing_TfoService	pmTfoAmrWbEndPointMode
MsProcessing_TfoService	pmTfoAmrWbEstablishments
MsProcessing_TfoService	pmTfoAmrWbFallbacks
MsProcessing_TfoService	pmTfoAmrWbNegotiations
MsProcessing_TfoService	pmTfoAmrWbReEstablishments
MsProcessing_TfoService	pmTfoAmrWbReNegotiations
TransportNetwork_AtmPort_VplTp_VpcTp	pmBwErrBlocks

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TransportNetwork_AtmPort_VplTp_VpcTp	pmBwLostCells
TransportNetwork_AtmPort_VplTp_VpcTp	pmBwMissinsCells
TransportNetwork_AtmPort_VplTp_VpcTp	pmFwErrBlocks
TransportNetwork_AtmPort_VplTp_VpcTp	pmFwLostCells
TransportNetwork_AtmPort_VplTp_VpcTp	pmFwMissinsCells
TransportNetwork_AtmPort_VplTp_VpcTp	pmLostBrCells
TransportNetwork_AtmPort_VplTp_VpcTp	pmLostFpmCells
TransportNetwork_Mtp2TpAnsi	pmLocalSIBTime
TransportNetwork_Mtp2TpAnsi	pmNoOfMSUReceived
TransportNetwork_Mtp2TpAnsi	pmNoOfMSUTransmitted
TransportNetwork_Mtp2TpAnsi	pmNoOfNacks
TransportNetwork_Mtp2TpAnsi	pmNoOfReTransmittedOctets
TransportNetwork_Mtp2TpAnsi	pmNoOfSIOSIFReceived
TransportNetwork_Mtp2TpAnsi	pmNoOfSIOSIFTransmitted
TransportNetwork_Mtp2TpAnsi	pmNoOfStartedRBCongestion
TransportNetwork_Mtp2TpAnsi	pmNoOfSuReceivedInError
TransportNetwork_Mtp2TpAnsi	pmRemoteSIBTime
TransportNetwork_Mtp2TpChina	pmLocalSIBTime
TransportNetwork_Mtp2TpChina	pmNoOfMSUReceived
TransportNetwork_Mtp2TpChina	pmNoOfMSUTransmitted
TransportNetwork_Mtp2TpChina	pmNoOfNacks
TransportNetwork_Mtp2TpChina	pmNoOfReTransmittedOctets
TransportNetwork_Mtp2TpChina	pmNoOfSIOSIFReceived
TransportNetwork_Mtp2TpChina	pmNoOfSIOSIFTransmitted
TransportNetwork_Mtp2TpChina	pmNoOfStartedRBCongestion
TransportNetwork_Mtp2TpChina	pmNoOfSuReceivedInError
TransportNetwork_Mtp2TpChina	pmRemoteSIBTime
TransportNetwork_Mtp2TpIitu	pmLocalSIBTime
TransportNetwork_Mtp2TpIitu	pmNoOfMSUReceived
TransportNetwork_Mtp2TpIitu	pmNoOfMSUTransmitted
TransportNetwork_Mtp2TpIitu	pmNoOfNacks
TransportNetwork_Mtp2TpIitu	pmNoOfReTransmittedOctets
TransportNetwork_Mtp2TpIitu	pmNoOfSIOSIFReceived
TransportNetwork_Mtp2TpIitu	pmNoOfSIOSIFTransmitted
TransportNetwork_Mtp2TpIitu	pmNoOfStartedRBCongestion
TransportNetwork_Mtp2TpIitu	pmNoOfSuReceivedInError
TransportNetwork_Mtp2TpIitu	pmRemoteSIBTime
TransportNetwork_Mtp2TpTtc	pmLocalSIBTime
TransportNetwork_Mtp2TpTtc	pmNoOfMSUReceived
TransportNetwork_Mtp2TpTtc	pmNoOfMSUTransmitted
TransportNetwork_Mtp2TpTtc	pmNoOfNacks
TransportNetwork_Mtp2TpTtc	pmNoOfReTransmittedOctets
TransportNetwork_Mtp2TpTtc	pmNoOfSIOSIFReceived
TransportNetwork_Mtp2TpTtc	pmNoOfSIOSIFTransmitted
TransportNetwork_Mtp2TpTtc	pmNoOfStartedRBCongestion
TransportNetwork_Mtp2TpTtc	pmNoOfSuReceivedInError
TransportNetwork_Mtp2TpTtc	pmRemoteSIBTime
TransportNetwork_Mtp3bSpAnsi	pmNoOfCBARec
TransportNetwork_Mtp3bSpAnsi	pmNoOfCBASent

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TransportNetwork_Mtp3bSpAnsi	pmNoOfCOAXCAREC
TransportNetwork_Mtp3bSpAnsi	pmNoOfCOAXCAsent
TransportNetwork_Mtp3bSpAnsi	pmNoOfChangeBackDeclRec
TransportNetwork_Mtp3bSpAnsi	pmNoOfChangeOverRec
TransportNetwork_Mtp3bSpAnsi	pmNoOfControlledRerouteSuccessPerf
TransportNetwork_Mtp3bSpAnsi	pmNoOfECAREC
TransportNetwork_Mtp3bSpAnsi	pmNoOfECAsent
TransportNetwork_Mtp3bSpAnsi	pmNoOfECOSent
TransportNetwork_Mtp3bSpAnsi	pmNoOfEmergencyChangeOverRec
TransportNetwork_Mtp3bSpAnsi	pmNoOfForcedRerouteSuccessPerf
TransportNetwork_Mtp3bSpAnsi	pmNoOfSLTAFirstTimeOutRec
TransportNetwork_Mtp3bSpAnsi	pmNoOfSLTASecondTimeOutRec
TransportNetwork_Mtp3bSpAnsi	pmNoOfTRAREC
TransportNetwork_Mtp3bSpAnsi	pmNoOfTRASent
TransportNetwork_Mtp3bSpAnsi	pmNoOfTimerT21WasStarted
TransportNetwork_Mtp3bSpAnsi	pmNoOfUnsuccessForcedRerouting
TransportNetwork_Mtp3bSpAnsi	pmNoOfLowerPrioMsgDiscarded
TransportNetwork_Mtp3bSpAnsi	pmNoOfMaxTrialsForAssocActivReached
TransportNetwork_Mtp3bSpAnsi	pmNoOfMaxTrialsForAssocEstabReached
TransportNetwork_Mtp3bSpAnsi	pmNoOfSuccessAssocAbort
TransportNetwork_Mtp3bSpAnsi	pmNoOfSctpAssociationRestart
TransportNetwork_Mtp3bSpAnsi	pmNoOfSctpBufOverflow
TransportNetwork_Mtp3bSpAnsi	pmNoOfSctpCommunicationErr
TransportNetwork_Mtp3bSpAnsi	pmNoOfSctpNetworkStatusChange
TransportNetwork_Mtp3bSpAnsi	pmNoOfSctpResumeSending
TransportNetwork_Mtp3bSpAnsi	pmNoOfSctpSendFailure
TransportNetwork_Mtp3bSpAnsi	pmNoOfSuccessAssocEstablish
TransportNetwork_Mtp3bSpAnsi	pmNoOfUnsuccessAssocEstablish
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfRecUserData
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfSentUserData
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfAspacAckReceived
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfAspacAckSent
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfAspacReceived
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfAspacSent
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfAspdnAckReceived
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfAspdnAckSent
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfAspdnReceived
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfAspdnSent
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfAspiaAckReceived
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfAspiaAckSent
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfAspiaReceived
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfAspiaSent
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfAspupAckReceived
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfAspupAckSent
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfAspupReceived
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfAspupSent
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfCommunicationLost
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfCongestions
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfDataMsgRec

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TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfDataMsgSent
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfDaudMsgRec
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfDaudMsgSent
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfDavaRec
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfDavaSent
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfDunaRec
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfDunaSent
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfDupuRec
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfDupuSent
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfErrorMsgRec
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfErrorMsgSent
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfM3uaDataMsgDiscarded
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfNotifyMsgRec
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfSconRec
TransportNetwork_Mtp3bSpAnsi_M3uAssociation	pmNoOfSconSent
TransportNetwork_Mtp3bSpAnsi_Mtp3bAp	pmNoOfAdjacentSPNotAccessible
TransportNetwork_Mtp3bSpAnsi_Mtp3bAp	pmNoOfUserPartUnavailRec
TransportNetwork_Mtp3bSpAnsi_Mtp3bSIs	pmNoOfRecUserData
TransportNetwork_Mtp3bSpAnsi_Mtp3bSIs	pmNoOfSentUserData
TransportNetwork_Mtp3bSpAnsi_Mtp3bSrs_Mtp3bSr	pmNoOfSecondsAccumulatedRouteUnavailable
TransportNetwork_Mtp3bSpChina	pmNoOfCBARec
TransportNetwork_Mtp3bSpChina	pmNoOfCBASent
TransportNetwork_Mtp3bSpChina	pmNoOfCOAXCARec
TransportNetwork_Mtp3bSpChina	pmNoOfCOAXCASent
TransportNetwork_Mtp3bSpChina	pmNoOfChangeBackDeclRec
TransportNetwork_Mtp3bSpChina	pmNoOfChangeOverRec
TransportNetwork_Mtp3bSpChina	pmNoOfControlledRerouteSuccessPerf
TransportNetwork_Mtp3bSpChina	pmNoOfECARec
TransportNetwork_Mtp3bSpChina	pmNoOfECASent
TransportNetwork_Mtp3bSpChina	pmNoOfECOSent
TransportNetwork_Mtp3bSpChina	pmNoOfEmergencyChangeOverRec
TransportNetwork_Mtp3bSpChina	pmNoOfForcedRerouteSuccessPerf
TransportNetwork_Mtp3bSpChina	pmNoOfSLTAFirstTimeOutRec
TransportNetwork_Mtp3bSpChina	pmNoOfSLTASecondTimeOutRec
TransportNetwork_Mtp3bSpChina	pmNoOfTRARec
TransportNetwork_Mtp3bSpChina	pmNoOfTRASent
TransportNetwork_Mtp3bSpChina	pmNoOfTimerT21WasStarted
TransportNetwork_Mtp3bSpChina	pmNoOfUnsuccessForcedRerouting
TransportNetwork_Mtp3bSpChina	pmNoOfLowerPrioMsgDiscarded
TransportNetwork_Mtp3bSpChina	pmNoOfMaxTrialsForAssocActivReached
TransportNetwork_Mtp3bSpChina	pmNoOfMaxTrialsForAssocEstabReached
TransportNetwork_Mtp3bSpChina	pmNoOfSuccessAssocAbort
TransportNetwork_Mtp3bSpChina	pmNoOfSctpAssociationRestart
TransportNetwork_Mtp3bSpChina	pmNoOfSctpBufOverflow
TransportNetwork_Mtp3bSpChina	pmNoOfSctpCommunicationErr
TransportNetwork_Mtp3bSpChina	pmNoOfSctpNetworkStatusChange
TransportNetwork_Mtp3bSpChina	pmNoOfSctpResumeSending
TransportNetwork_Mtp3bSpChina	pmNoOfSctpSendFailure
TransportNetwork_Mtp3bSpChina	pmNoOfSuccessAssocEstablish

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TransportNetwork_Mtp3bSpChina	pmNoOfUnsuccessAssocEstablish
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfRecUserData
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfSentUserData
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfAspacAckReceived
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfAspacAckSent
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfAspacReceived
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfAspacSent
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfAspdnAckReceived
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfAspdnAckSent
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfAspdnReceived
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfAspdnSent
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfAspiaAckReceived
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfAspiaAckSent
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfAspiaReceived
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfAspiaSent
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfAspupAckReceived
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfAspupAckSent
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfAspupReceived
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfAspupSent
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfCommunicationLost
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfCongestions
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfDataMsgRec
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfDataMsgSent
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfDaudMsgRec
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfDaudMsgSent
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfDavaRec
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfDavaSent
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfDunaRec
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfDunaSent
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfDupuRec
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfDupuSent
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfErrorMsgRec
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfErrorMsgSent
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfM3uaDataMsgDiscarded
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfNotifyMsgRec
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfSconRec
TransportNetwork_Mtp3bSpChina_M3uAssociation	pmNoOfSconSent
TransportNetwork_Mtp3bSpChina_Mtp3bAp	pmNoOfAdjacentSPNotAccessible
TransportNetwork_Mtp3bSpChina_Mtp3bAp	pmNoOfUserPartUnavailRec
TransportNetwork_Mtp3bSpChina_Mtp3bSIs	pmNoOfAALINServiceInd
TransportNetwork_Mtp3bSpChina_Mtp3bSIs	pmNoOfAALOUTInd
TransportNetwork_Mtp3bSpChina_Mtp3bSIs	pmNoOfCBDSent
TransportNetwork_Mtp3bSpChina_Mtp3bSIs	pmNoOfCOOXCOSent
TransportNetwork_Mtp3bSpChina_Mtp3bSIs	pmNoOfLocalLinkCongestCeaseRec
TransportNetwork_Mtp3bSpChina_Mtp3bSIs	pmNoOfLocalLinkCongestRec
TransportNetwork_Mtp3bSpChina_Mtp3bSIs	pmNoOfMSURec
TransportNetwork_Mtp3bSpChina_Mtp3bSIs	pmNoOfMSUSent
TransportNetwork_Mtp3bSpChina_Mtp3bSIs	pmNoOfRecUserData
TransportNetwork_Mtp3bSpChina_Mtp3bSIs	pmNoOfSentUserData

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TransportNetwork_Mtp3bSpChina_Mtp3bSrs	pmNoOfDiscardedMsgFromBroadToNarrow
TransportNetwork_Mtp3bSpChina_Mtp3bSrs	pmNoOfTransferAllowedRec
TransportNetwork_Mtp3bSpChina_Mtp3bSrs	pmNoOfTransferControlledRec
TransportNetwork_Mtp3bSpChina_Mtp3bSrs	pmNoOfTransferProhibitedRec
TransportNetwork_Mtp3bSpChina_Mtp3bSrs_Mtp3bSr	pmNoOfSecondsAccumulatedRouteUnavailable
TransportNetwork_Mtp3bSpltu	pmNoOfCBARec
TransportNetwork_Mtp3bSpltu	pmNoOfCBASent
TransportNetwork_Mtp3bSpltu	pmNoOfCOAXCARec
TransportNetwork_Mtp3bSpltu	pmNoOfCOAXCASent
TransportNetwork_Mtp3bSpltu	pmNoOfChangeBackDeclRec
TransportNetwork_Mtp3bSpltu	pmNoOfChangeOverRec
TransportNetwork_Mtp3bSpltu	pmNoOfControlledRerouteSuccessPerf
TransportNetwork_Mtp3bSpltu	pmNoOfECARec
TransportNetwork_Mtp3bSpltu	pmNoOfECASent
TransportNetwork_Mtp3bSpltu	pmNoOfECOSent
TransportNetwork_Mtp3bSpltu	pmNoOfEmergencyChangeOverRec
TransportNetwork_Mtp3bSpltu	pmNoOfForcedRerouteSuccessPerf
TransportNetwork_Mtp3bSpltu	pmNoOfSLTAFirstTimeOutRec
TransportNetwork_Mtp3bSpltu	pmNoOfSLTASecondTimeOutRec
TransportNetwork_Mtp3bSpltu	pmNoOfTRARec
TransportNetwork_Mtp3bSpltu	pmNoOfTRASent
TransportNetwork_Mtp3bSpltu	pmNoOfTimerT21WasStarted
TransportNetwork_Mtp3bSpltu	pmNoOfUnsuccessForcedRerouting
TransportNetwork_Mtp3bSpltu	pmNoOfLowerPrioMsgDiscarded
TransportNetwork_Mtp3bSpltu	pmNoOfMaxTrialsForAssocActivReached
TransportNetwork_Mtp3bSpltu	pmNoOfMaxTrialsForAssocEstabReached
TransportNetwork_Mtp3bSpltu	pmNoOfSuccessAssocAbort
TransportNetwork_Mtp3bSpltu	pmNoOfSctpAssociationRestart
TransportNetwork_Mtp3bSpltu	pmNoOfSctpBufOverflow
TransportNetwork_Mtp3bSpltu	pmNoOfSctpCommunicationErr
TransportNetwork_Mtp3bSpltu	pmNoOfSctpNetworkStatusChange
TransportNetwork_Mtp3bSpltu	pmNoOfSctpResumeSending
TransportNetwork_Mtp3bSpltu	pmNoOfSctpSendFailure
TransportNetwork_Mtp3bSpltu	pmNoOfSuccessAssocEstablish
TransportNetwork_Mtp3bSpltu	pmNoOfUnsuccessAssocEstablish
TransportNetwork_Mtp3bSpltu_M3uAssociation	pmNoOfRecUserData
TransportNetwork_Mtp3bSpltu_M3uAssociation	pmNoOfSentUserData
TransportNetwork_Mtp3bSpltu_Mtp3bAp	pmNoOfAdjacentSPNotAccessible
TransportNetwork_Mtp3bSpltu_Mtp3bAp	pmNoOfUserPartUnavailRec
TransportNetwork_Mtp3bSpltu_Mtp3bSis	pmNoOfRecUserData
TransportNetwork_Mtp3bSpltu_Mtp3bSis	pmNoOfSentUserData
TransportNetwork_Mtp3bSpltu_Mtp3bSrs	pmNoOfDiscardedMsgFromBroadToNarrow
TransportNetwork_Mtp3bSpltu_Mtp3bSrs	pmNoOfTransferAllowedRec
TransportNetwork_Mtp3bSpltu_Mtp3bSrs	pmNoOfTransferControlledRec
TransportNetwork_Mtp3bSpltu_Mtp3bSrs	pmNoOfTransferProhibitedRec
TransportNetwork_Mtp3bSpltu_Mtp3bSrs_Mtp3bSr	pmNoOfSecondsAccumulatedRouteUnavailable
TransportNetwork_Mtp3bSpTtc	pmNoOfCBARec
TransportNetwork_Mtp3bSpTtc	pmNoOfCBASent
TransportNetwork_Mtp3bSpTtc	pmNoOfCOAXCARec

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TransportNetwork_Mtp3bSpTtc	pmNoOfCOAXCASent
TransportNetwork_Mtp3bSpTtc	pmNoOfChangeBackDeclRec
TransportNetwork_Mtp3bSpTtc	pmNoOfChangeOverRec
TransportNetwork_Mtp3bSpTtc	pmNoOfControlledRerouteSuccessPerf
TransportNetwork_Mtp3bSpTtc	pmNoOfECARec
TransportNetwork_Mtp3bSpTtc	pmNoOfECASent
TransportNetwork_Mtp3bSpTtc	pmNoOfECOSent
TransportNetwork_Mtp3bSpTtc	pmNoOfEmergencyChangeOverRec
TransportNetwork_Mtp3bSpTtc	pmNoOfForcedRerouteSuccessPerf
TransportNetwork_Mtp3bSpTtc	pmNoOfSLTAFirstTimeOutRec
TransportNetwork_Mtp3bSpTtc	pmNoOfSLTASecondTimeOutRec
TransportNetwork_Mtp3bSpTtc	pmNoOfTRARec
TransportNetwork_Mtp3bSpTtc	pmNoOfTRASent
TransportNetwork_Mtp3bSpTtc	pmNoOfTimerT21WasStarted
TransportNetwork_Mtp3bSpTtc	pmNoOfUnsuccessForcedRerouting
TransportNetwork_Mtp3bSpTtc	pmNoOfLowerPrioMsgDiscarded
TransportNetwork_Mtp3bSpTtc	pmNoOfMaxTrialsForAssocActivReached
TransportNetwork_Mtp3bSpTtc	pmNoOfMaxTrialsForAssocEstabReached
TransportNetwork_Mtp3bSpTtc	pmNoOfSuccessAssocAbort
TransportNetwork_Mtp3bSpTtc	pmNoOfSctpAssociationRestart
TransportNetwork_Mtp3bSpTtc	pmNoOfSctpBufOverflow
TransportNetwork_Mtp3bSpTtc	pmNoOfSctpCommunicationErr
TransportNetwork_Mtp3bSpTtc	pmNoOfSctpNetworkStatusChange
TransportNetwork_Mtp3bSpTtc	pmNoOfSctpResumeSending
TransportNetwork_Mtp3bSpTtc	pmNoOfSctpSendFailure
TransportNetwork_Mtp3bSpTtc	pmNoOfSuccessAssocEstablish
TransportNetwork_Mtp3bSpTtc	pmNoOfUnsuccessAssocEstablish
TransportNetwork_Mtp3bSpTtc	pmNoOfIncomingAssocEstabRequestInStateDownWhenSta teEstablsBlocked
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfRecUserData
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfSentUserData
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfAspacAckReceived
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfAspacAckSent
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfAspacReceived
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfAspacSent
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfAspdnAckReceived
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfAspdnAckSent
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfAspdnReceived
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfAspdnSent
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfAspiaAckReceived
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfAspiaAckSent
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfAspiaReceived
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfAspiaSent
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfAspupAckReceived
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfAspupAckSent
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfAspupReceived
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfAspupSent
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfCommunicationLost
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfCongestions

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TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfDataMsgRec
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfDataMsgSent
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfDaudMsgRec
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfDaudMsgSent
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfDavaRec
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfDavaSent
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfDunaRec
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfDunaSent
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfDupuRec
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfDupuSent
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfErrorMsgRec
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfErrorMsgSent
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfM3uaDataMsgDiscarded
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfNotifyMsgRec
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfSconRec
TransportNetwork_Mtp3bSpTtc_M3uAssociation	pmNoOfSconSent
TransportNetwork_Mtp3bSpTtc_Mtp3bAp	pmNoOfAdjacentSPNotAccessible
TransportNetwork_Mtp3bSpTtc_Mtp3bAp	pmNoOfUserPartUnavailRec
TransportNetwork_Mtp3bSpTtc_Mtp3bSls	pmNoOfAALINServiceInd
TransportNetwork_Mtp3bSpTtc_Mtp3bSls	pmNoOfAALOUTInd
TransportNetwork_Mtp3bSpTtc_Mtp3bSls	pmNoOfCBDSent
TransportNetwork_Mtp3bSpTtc_Mtp3bSls	pmNoOfCOOXCOSent
TransportNetwork_Mtp3bSpTtc_Mtp3bSls	pmNoOfLocalLinkCongestCeaseRec
TransportNetwork_Mtp3bSpTtc_Mtp3bSls	pmNoOfLocalLinkCongestRec
TransportNetwork_Mtp3bSpTtc_Mtp3bSls	pmNoOfMSURec
TransportNetwork_Mtp3bSpTtc_Mtp3bSls	pmNoOfMSUSent
TransportNetwork_Mtp3bSpTtc_Mtp3bSls	pmNoOfRecUserData
TransportNetwork_Mtp3bSpTtc_Mtp3bSls	pmNoOfSentUserData
TransportNetwork_Mtp3bSpTtc_Mtp3bSrs	pmNoOfDiscardedMsgFromBroadToNarrow
TransportNetwork_Mtp3bSpTtc_Mtp3bSrs	pmNoOfTransferAllowedRec
TransportNetwork_Mtp3bSpTtc_Mtp3bSrs	pmNoOfTransferControlledRec
TransportNetwork_Mtp3bSpTtc_Mtp3bSrs	pmNoOfTransferProhibitedRec
TransportNetwork_Mtp3bSpTtc_Mtp3bSrs_Mtp3bSr	pmNoOfSecondsAccumulatedRouteUnavailable
TransportNetwork_Sctp	pmSctpAborted
TransportNetwork_Sctp	pmSctpActiveEstab
TransportNetwork_Sctp	pmSctpPassiveEstab
TransportNetwork_Sctp	pmSctpShutdowns
TransportNetwork_Sctp	pmSctpStatAssocOutOfBlue
TransportNetwork_Sctp	pmSctpStatChecksumErrorCounter
TransportNetwork_Sctp	pmSctpStatCommResume
TransportNetwork_Sctp	pmSctpStatCommStop
TransportNetwork_Sctp	pmSctpStatFragmentedUserMsg
TransportNetwork_Sctp	pmSctpStatOutOfOrderRecChunks
TransportNetwork_Sctp	pmSctpStatOutOfOrderSendChunks
TransportNetwork_Sctp	pmSctpStatReassembledUserMsg
TransportNetwork_Sctp	pmSctpStatRecChunks
TransportNetwork_Sctp	pmSctpStatRecChunksDropped
TransportNetwork_Sctp	pmSctpStatReceivedControlChunks
TransportNetwork_Sctp	pmSctpStatReceivedPackages

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TransportNetwork_Sctp	pmSctpStatRetransChunks
TransportNetwork_Sctp	pmSctpStatSentChunks
TransportNetwork_Sctp	pmSctpStatSentChunksDropped
TransportNetwork_Sctp	pmSctpStatSentControlChunks
TransportNetwork_Sctp	pmSctpStatSentPackages
FastEthernet	TotIfInOctets
FastEthernet	TotIfOutOctets
RemoteSite	TotRtpSentOctets
RemoteSite	TotRtpReceivedOctets
RemoteSite	TotRtpSentPkts
RemoteSite	TotRtpReceivedPkts
RemoteSite	TotSuccTransmittedPkts
Unknown_RemoteSite	TotRtpSentOctets
Unknown_RemoteSite	TotRtpReceivedOctets
Unknown_RemoteSite	TotRtpSentPkts
Unknown_RemoteSite	TotRtpReceivedPkts
Unknown_RemoteSite	TotSuccTransmittedPkts

6.3.3 Probability Density Function (PDF) Counter Support

PDF (Probability Density Function) counters are reported differently from the usual Peg or Gauge counters where counters are represented in particular range of a measurement. The counter is incremented when a measured value falls into this range.

There are two counters of type PDF in VclTp object named as pmBwUtilizationRx and pmBwUtilizationTx.

Object	Counters	Description
VclTp	pmBwUtilizationRx	<p>Description: The counter shows the utilization of the virtual connection in the receiving direction represented by a histogram, consisting of a list of 21 numbers. The first number is Peak Cell Rate (PCR) and the next 20 numbers are different load ranges (range counters) for the VclTp MO. The load is sampled every 10s and depending on the sampled value, the corresponding range counter is increased.</p> <p>Condition: Continuous measurement of load during the last measurement period.</p> <p>Counter is reset after measurement period: Yes</p> <p>Counter type: PDF</p> <p>Unit (range 0): PCR</p> <p>Unit (ranges 1 to 20): % of VC bandwidth</p> <p>PDF ranges: [0]: PCR, [1]: [0..5]%, [2]: [6..10]%, [3]: [11..15]%, [4]: [16..20]%, [5]: [21..25]%, [6]: [26..30]%, [7]: [31..35]%, [8]: [36..40]%, [9]: [41..45]%, [10]: [46..50]%, [11]: [51..55]%, [12]: [56..60]%, [13]: [61..65]%, [14]: [66..70]%, [15]: [71..75]%, [16]: [76..80]%, [17]: [81..85]%, [18]: [86..90]%, [19]: [91..95]%, [20]: [96..100]%</p>

VclTp	pmBwUtilizationTx	<p>Description: The counter shows the utilization of the virtual connection in the transmitting direction represented by a histogram, consisting of a list of 21 numbers, indexed from zero. The first number is Peak Cell Rate (PCR) and the next 20 numbers are different load ranges (range counters) for the VclTp MO. The load is sampled every 10s and depending on the sampled value, the corresponding range counter is increased.</p> <p>Condition: Continuous measurement of load during the last measurement period.</p> <p>Counter is reset after measurement period: Yes</p> <p>Counter type: PDF</p> <p>Unit (range 0): PCR</p> <p>Unit (ranges 1 to 20): % of VC bandwidth</p> <p>PDF ranges: [0]: PCR, [1]: [0..5]%, [2]: [6..10]%, [3]: [11..15]%, [4]: [16..20]%, [5]: [21..25]%, [6]: [26..30]%, [7]: [31..35]%, [8]: [36..40]%, [9]: [41..45]%, [10]: [46..50]%, [11]: [51..55]%, [12]: [56..60]%, [13]: [61..65]%, [14]: [66..70]%, [15]: [71..75]%, [16]: [76..80]%, [17]: [81..85]%, [18]: [86..90]%, [19]: [91..95]%, [20]: [96..100]%</p>
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These two counters are processed individually as the following:

1. pmBwUtilizationRx (PDF)

pmBwUtilRx_PCR: This counter takes position 0 which represents the PCR.

pmBwUtilRx_0_5: This counter takes position 1 which represents (0-5) percent usage of PCR.

pmBwUtilRx_6_10: This counter takes position 2 which represents (6-10) percent usage of PCR.

pmBwUtilRx_11_15: This counter takes position 3 which represents (11-15) percent usage of PCR.

pmBwUtilRx_16_20: This counter takes position 4 which represents (16-20) percent usage of PCR.

pmBwUtilRx_21_25: This counter takes position 5 which represents (21-25) percent usage of PCR.

pmBwUtilRx_26_30: This counter takes position 6 which represents (26-30) percent usage of PCR.

pmBwUtilRx_31_35: This counter takes position 7 which represents (31-35) percent usage of PCR.

pmBwUtilRx_36_40: This counter takes position 8 which represents (36-40) percent usage of PCR.

pmBwUtilRx_41_45: This counter takes position 9 which represents (41-45) percent usage of PCR.

pmBwUtilRx_46_50: This counter takes position 10 which represents (46-50) percent usage of PCR.

pmBwUtilRx_51_55: This counter takes position 11 which represents (51-55) percent usage of PCR.

pmBwUtilRx_56_60: This counter takes position 12 which represents (56-60) percent usage of PCR.

pmBwUtilRx_61_65: This counter takes position 13 which represents (61-65) percent usage of PCR.

pmBwUtilRx_66_70: This counter takes position 14 which represents (66-70) percent usage of PCR.

pmBwUtilRx_71_75: This counter takes position 15 which represents (71-75) percent usage of PCR.

pmBwUtilRx_76_80: This counter takes position 16 which represents (76-80) percent usage of PCR.
pmBwUtilRx_81_85: This counter takes position 17 which represents (81-85) percent usage of PCR.
pmBwUtilRx_86_90: This counter takes position 18 which represents (86-90) percent usage of PCR.
pmBwUtilRx_91_95: This counter takes position 19 which represents (91-95) percent usage of PCR.
pmBwUtilRx_96_100: This counter takes position 20 which represents (96-100) percent usage of PCR.

2. pmBwUtilizationTx (PDF)

pmBwUtilTx_PCR: This counter takes position 0 which represents the PCR.
pmBwUtilTx_0_5: This counter takes position 1 which represents (0-5) percent usage of PCR.
pmBwUtilTx_6_10: This counter takes position 2 which represents (6-10) percent usage of PCR.
pmBwUtilTx_11_15: This counter takes position 3 which represents (11-15) percent usage of PCR.
pmBwUtilTx_16_20: This counter takes position 4 which represents (16-20) percent usage of PCR.
pmBwUtilTx_21_25: This counter takes position 5 which represents (21-25) percent usage of PCR.
pmBwUtilTx_26_30: This counter takes position 6 which represents (26-30) percent usage of PCR.
pmBwUtilTx_31_35: This counter takes position 7 which represents (31-35) percent usage of PCR.
pmBwUtilTx_36_40: This counter takes position 8 which represents (36-40) percent usage of PCR.
pmBwUtilTx_41_45: This counter takes position 9 which represents (41-45) percent usage of PCR.
pmBwUtilTx_46_50: This counter takes position 10 which represents (46-50) percent usage of PCR.
pmBwUtilTx_51_55: This counter takes position 11 which represents (51-55) percent usage of PCR.
pmBwUtilTx_56_60: This counter takes position 12 which represents (56-60) percent usage of PCR.
pmBwUtilTx_61_65: This counter takes position 13 which represents (61-65) percent usage of PCR.
pmBwUtilTx_66_70: This counter takes position 14 which represents (66-70) percent usage of PCR.
pmBwUtilTx_71_75: This counter takes position 15 which represents (71-75) percent usage of PCR.
pmBwUtilTx_76_80: This counter takes position 16 which represents (76-80) percent usage of PCR.
pmBwUtilTx_81_85: This counter takes position 17 which represents (81-85) percent usage of PCR.
pmBwUtilTx_86_90: This counter takes position 18 which represents (86-90) percent usage of PCR.
pmBwUtilTx_91_95: This counter takes position 19 which represents (91-95) percent usage of PCR.
pmBwUtilTx_96_100: This counter takes position 20 which represents (96-100) percent usage of PCR.

6.3.4 Legacy R4.2 Post Parser configuration

The mapping information has been changed from R4.2 to R5.1 due to `moid` changes for the following blocks:

Objects (x)-shows the MO class	Mapping in R4.2	Mapping in R5.1
Ethernet_Link (EthernetLink)	<moid>ManagedElement=1,IpSystem=1,Ip=IP,EthernetLink=eth</moid>	<moid>ManagedElement=1,IpOam=1,Ip=IP,EthernetLink=eth</moid>
Ip_Protocol_Layer (Ip)	<moid>ManagedElement=1,IpSystem=1,Ip=IP</moid>	<moid>ManagedElement=1,IpOam=1,Ip=IP</moid>

These blocks would only be supported in its respective release:

- Blocks/LIF files generated using R4.2 data would only work using R4.2 loader and config
- Blocks/LIF files generated using R5.1 data would only work using R5.1 loader and config

The following blocks are processed:

Objects - Primary and secondary key(s) if needed (x)-shows the MO class	Exhaustive list of the Block names needed in the LIFs
AAL1_Tp_Vcc_Tp (Aal1TpVccTp)	TransportNetwork_Aal1TpVccTp
AAL2_Access_Point (Aal2Ap)	TransportNetwork_Aal2Sp_Aal2Ap
AAL2_Signalling_Point (Aal2Sp)	TransportNetwork_Aal2Sp
Aal2PathVccTp (Aal2PathVccTp)	TransportNetwork_Aal2PathVccTp
AAL5_Tp_Vcc_Tp (Aal5TpVccTp)	TransportNetwork_Aal5TpVccTp
ATM_Port (AtmPort, VpcTp)	TransportNetwork_AtPort, Virtual_path_grouped_from_VpcTp
AtmTrafficDescriptor (AtmTrafficDescriptor)	TransportNetwork_AtTrafficDescriptor
E1 (E1Ttp, E1PhysPathTerm)	Ess_E1Ttp Ess_E1PhysPathTerm
Echo_Cancellation (ECRouteParameterSet)	ECRouteParameterSet
Ethernet_Link (EthernetLink)	EthernetLink
Fast_Ethernet (FastEthernet)	FastEthernet
GigaBitEthernet (GigaBitEthernet)	Ess_GigaBitEthernet
IMA (ImaGroup, ImaLink)	ImaGroup ImaLink
Interactive_Messaging (ImBasicMessage, ImMessageComposition, ImVariableMessage)	InteractiveMessaging_ImBasicMessage InteractiveMessaging_ImMessageComposition InteractiveMessaging_ImVariableMessage
Ip_Attn_Link (IpAttnLink)	IpAttnLink
IP_Interface (IpAccessHostMsb ,IpInterface)	IpSystem_UdpHostMainMsb_IpAccessUdpHostMsb Ess_IpInterface
Ip_Protocol_Layer (Ip)	ManagedElement_Ip
IpAccessUdpHostMsb (IpAccessUdpHostMsb)	IpAccessUdpHostMsb
Medium_Access_Unit (MediumAccessUnit)	MediumAccessUnit
MGW (MgwApplication)	MgwApplication MgwApplication_Aggregated
MGW_Resource_Pool (ContinuityCheckService, CsdDigitalService, CsdGsmFaxService, CsdGsmFhService, CsdModemService, DtmfReceiverService, DtmfSenderService, EcService, EfrService, GttService, ImService, InmarsatService, IpbService, JitterHandlingService, MpcService, MccService, MultipleService, NrService, TfoService, TonesSenderService, UpFhService)	MsProcessing_ContinuityCheckService MsProcessing_CsdDigitalService MsProcessing_CsdGsmFaxService MsProcessing_CsdGsmFhService MsProcessing_CsdModemService MsProcessing_DtmfReceiverService MsProcessing_DtmfSenderService MsProcessing_EcService MsProcessing_EfrService MsProcessing_GttService MsProcessing_ImService MsProcessing_InmarsatService MsProcessing_IpbService MsProcessing_JitterHandlingService MsProcessing_MpcService MsProcessing_MccService MsProcessing_MultipleService MsProcessing_NrService MsProcessing_TfoService MsProcessing_TonesSenderService MsProcessing_UpFhService
MS_Device_Pool (MsDevicePool)	ManagedElement_MsProcessing_MsDevicePool
MS_Device_Group (MsDeviceGroup)	MsDeviceGroup
MS_Processing (MsProcessing)	ManagedElement_MsProcessing
MTP3B_AP (Mtp3bAp)	ManagedElement_TransportNetwork_Mtp3bAp
MTP3B_SR (Mtp3bSr)	TransportNetwork_Mtp3bSpltu_Mtp3bSrs_Mtp3bSr
Nni_SAAL_TP (NniSaalTp)	ManagedElement_TransportNetwork_NniSaalTp
OS155 (Os155SpiTtp)	Ess_Os155SpiTtp
OSPF (Ospf)	ManagedElement_IpSystem_Ospf
OSPF_Area (OspfArea)	ManagedElement_IpSystem_Ospf_OspfArea
OSPF_Interface (OspfInterface)	ManagedElement_IpSystem_Ospf_OspfInterface
Plug_In_Unit (PlugInUnit)	Ess_PlugInUnit
RemoteSite (RemoteSite)	MgwApplication_IpNetwork_RemoteSite

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Signalling_Point (SccpAccountingCriteria, SccpPolicing, SccpSrc, SccpSp, Mtp2TpAnsi, Mtp2Tpltu, Mtp3bSpltu, Mtp3bSpAnsi, Mtp3bSltu, Mtp3bSrs)	SccpAccountingCriteria SccpPolicing SccpSrc SccpSp TransportNetwork_Mtp2TpAnsi TransportNetwork_Mtp2Tpltu TransportNetwork_Mtp2TpChina TransportNetwork_Mtp3bSpltu TransportNetwork_Mtp3bSpAnsi TransportNetwork_Mtp3bSpltu_Mtp3bSls TransportNetwork_Mtp3bSpAnsi_Mtp3bSls TransportNetwork_Mtp3bSpltu_Mtp3bSrs TransportNetwork_Mtp3bSpAnsi_Mtp3bSrs
Sigtran (IpAccessHostGpb, M3uAssociation, SCTP, Mtp3bSpltu, Mtp3bSpAnsi)	IpSystem_IpAccessHostGpb TransportNetwork_Mtp3bSpltu_M3uAssociation TransportNetwork_Sctp TransportNetwork_Mtp3bSpltu TransportNetwork_Mtp3bSpAnsi
STS1 (Sts1SpeTtp)	Sts1SpeTtp
STS3 (Sts3CspeTtp)	Sts3CspeTtp
T1 (T1Ttp, T1PhysPathTerm)	T1Ttp T1PhysPathTerm
TdmTermGrp (TdmTermGrp)	MgwApplication_TdmTermGrp
VC12 (Vc12Ttp)	Ess_Vc12Ttp
VC4 (Vc4Ttp)	Ess_Vc4Ttp
VclTp (VclTp)	TransportNetwork_AtmPort_VplTp_VpcTp_VclTp
VMGW (Vmgw)	MgwApplication_Vmgw
VpcTp (VpcTp)	TransportNetwork_AtmPort_VplTp_VpcTp Traffic_agregated_from_VPCTP
VplTp (VplTp)	TransportNetwork_AtmPort_VplTp
VT15 (Vt15Ttp)	Vt15Ttp

Below is the list of the counter that is un-pegged at the gateway level. It is expected that existing un-pegging counters to remain.

Object	Block	Pegged Counters	Rollover value
MGW_Resource_Pool	MsProcessing_CsdGsmFax Service	pmAttemptCmm pmSuccCmm	2^31 or (2,147,483,647)
RemoteSite	ManagedElement_Mgw Application_IpNetwork_RemoteSite	pmNoOfAmr2Conns pmNoOfAmrConns pmNoOfEfrConns pmNoOfFrAmrConns pmNoOfHrAmrConns pmNoOfPcmDataConns pmNoOfPcmSpeechConns pmNoOfRdiConns pmNoOfUdiConns	2^31 or (2,147,483,647)

VMGW	MgwApplication_Vmgw	pmNoOfAlawOnNbConns	2^31 or (2,147,483,647)
		pmNoOfAlawOnTdmConns	
		pmNoOfAlawToUlawPcmLawConns	
		pmNoOfCompToNonDefaultPcmLawConns	
		pmNoOfNonNodeDefaultPcmLawConns	
		pmNoOfUlawOnNbConns	
		pmNoOfUlawOnTdmConns	

6.3.5 Time Normalisation Support

N/A

Appendix A Notices and Trademarks

This appendix contains the following:

- Notices
- Trademarks

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trademarks or service marks of others.