

# Release Notes

**Prospect® 8.0.4.1**

**Nortel GGU 4.0.14.0.20**



## **DOCUMENT CONTROL**

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## Table of Contents

<b>1</b>	<b><i>Description</i></b> _____	<b>4</b>
<b>2</b>	<b><i>Supported Platforms</i></b> _____	<b>5</b>
<b>3</b>	<b><i>New Features</i></b> _____	<b>6</b>
<b>4</b>	<b><i>Known Problems</i></b> _____	<b>15</b>
<b>5</b>	<b><i>Upgrade Instructions</i></b> _____	<b>16</b>
<b>6</b>	<b><i>Useful Hints</i></b> _____	<b>24</b>
<b>7</b>	<b><i>Customer Support</i></b> _____	<b>26</b>
<b>8</b>	<b><i>Manifest</i></b> _____	<b>27</b>

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# 1 Description

This document provides information on the Prospect® 8.0 for Nortel GSM/GPRS/UMTS RP14 patch 20 (4.0.14.0.20). This is a patch release. This release adds support for the PM statistic changes introduced by Nortel OMC-R/BSS V17.0 upgrade.

This release does not change the Prospect core version or the recommended Prospect client version.

- The Prospect Base version certified against this release is 8.0.4.1.05
- The client version certified against this release is 8.0.4.0.8
- The operating system version certified against this release is Solaris 9 and Solaris 10.
- The Oracle Database version certified against this release is Oracle 9i - 9.2.0.8.

## 2 Supported Platforms

Complete platform support information for the current release is in the *Prospect Server Preparation Guide*. Complete client hardware and software requirements are in the *Prospect Installation Guide*.

<b><i>Already Supported Vendor Software</i></b>
Nortel Passport 15000 Wireless Gateway / UMTS SGSN / Aggregation Node UMTS03 3.0
Nortel Media Gateway (MGW) MGW17, MGW18, W-NMS 5.0.1/NSS 19
Nortel Passport 15000 GPRS SGSN GPRS 2.1, 3.0, 4.0, 5.0, 6.0, PC04
Nortel Shasta GGSN UMTS03 3.0, 3.2.1, 4.0, 4.1
Nortel SS7/IP Gateway – GPRS R2.1, R3.0, R4.0, UMTS03, GPRS6.0/UMTS4.0
Nortel RNC UMTS03 UA3.1, UA3.2 and UA4.0
Nortel Node B UMTS03 UA3.1, UA3.2 and UA4.0
Nortel MSC GSM13, GSM15, GSM/NSS17 (includes NSS16), GSM/NSS18, W-NMS 5.0.1/NSS 19
Nortel HLR GSM13, GSM15, GSM/NSS17 (includes NSS16), GSM/NSS18
Nortel USP 7.0, 8.1, 10.0, 12.0
Nortel SLR NSS17
Nortel Data Server NSS17
Nortel GSM/GPRS/EDGE BSS – 12.04, 12.04B, 12.04C, 12.04D, 13.02B, 14.3, 15.0, 15.1, 16.0 based on OMC-R v16.0
Nortel GPRS/EDGE PCUSN – 12.04, 12.04B, 12.04C, 12.04D, 13.02B, 14.3, 15.0, 15.1, 16.0 based on OMC-R v16.0

<b><i>Added Supported Vendor Software in this release</i></b>
Nortel GSM/GPRS/EDGE BSS - 17.0 based on OMC-R v17.0
Nortel GPRS/EDGE PCUSN - 17.0 based on OMC-R v17.0

## 3 New Features

### 3.1 Nortel GPRS/EDGE PCUSN

This release modifies the performance data dictionary in Nortel GPRS network elements. The following list shows changes to entities

Prospect Entity	Managed Object	Counter Status	Technology
pBlock	PBK	added	GPRS

New counters are as below:-

Prospect Field Name	Entity Name	Heading Line 1	Heading Line 2	Datatype	Field Type	Description	Aggregator
pcuNbCpuLoadInd	pBlock	# Durations	CPU Load	I	C	15314/0 Cumulative number of durationPeriods of 50 ms ± 8 ms (random), where the instantaneousCpuLoad is higher than 87.5%	S

## 3.2 Nortel GSM

This release modifies the performance data dictionary in GSM/GPRS network elements. The following list shows the list of new entities and also changes made to existing entity.

Prospect Entity	Managed Object	Counter Status	Technology
Handover_Utran	ACU	New	GSM
PCMA	PCMTCU	New	GSM
Sector	BTS	Added	GSM
PCM	PCMBSC	Added	GSM
Transceiver	TMA	Added	GSM GPRS

New counters are as below:-

Prospect Field Name	Entity Name	Heading Line 1	Heading Line 2	Datatype	Field Type	Description	Aggregator
hoNcellsRequestUtranUplinkStrength	Handover_Utran	HO NeighCell Req	Utran: Uplink Strength	I	C	2210/0 Number of UMTS handover requests to the neighbour cell: Uplink Strength	S
hoNcellsRequestUtranDownlinkStrength	Handover_Utran	HO NeighCell Req	Utran: Downlink Strength	I	C	2210/1 Number of UMTS handover requests to the neighbour cell: Downlink Strength	S
hoNcellsRequestUtranUplinkQuality	Handover_Utran	HO NeighCell Req	Utran: Uplink Quality	I	C	2210/2 Number of UMTS handover requests to the neighbour cell: Uplink Quality	S
hoNcellsRequestUtranDownlinkQuality	Handover_Utran	HO NeighCell Req	Utran: Downlink Quality	I	C	2210/3 Number of UMTS handover requests to the neighbour cell: Downlink Quality	S
hoNcellsRequestUtranDistance	Handover_Utran	HO NeighCell Req	Utran: Distance	I	C	2210/4 Number of UMTS handover requests to the neighbour cell: Distance	S
hoNcellsRequestUtranPowerBudget	Handover_Utran	HO NeighCell Req	Utran: Power Budget	I	C	2210/5 Number of UMTS handover requests to the neighbour cell: Power Budget	S
hoNcellsRequestUtranTraffic	Handover_Utran	HO NeighCell Req	Utran: Traffic	I	C	2210/6 Number of UMTS handover requests to the neighbour cell: Traffic	S
hoNcellsRequestUtranForcedHo	Handover_Utran	HO NeighCell Req	Utran: Forced HO	I	C	2210/7 Number of UMTS handover requests to the neighbour cell: Inter Cell O&M (forced handover)	S
hoNcellsRequestUtranAMR	Handover_Utran	HO NeighCell Req	Utran: AMR	I	C	2210/8 Number of UMTS handover requests to the neighbour cell: Alarm AMR	S
hoNcellsExecutionUtran	Handover_Utran	HO NeighCell	Execution Utran	I	C	2211/0 Number of UMTS handover attempts to the cell	S
hoNcellsUnsuccessUtranOldChannel	Handover_Utran	HO NeighCell Unsuccess	Utran: Old Channel	I	C	2212/0 Number of failures to execute UMTS handover to the cell, mobile returns to old channel	S
hoNcellsUnsuccessUtranTimer	Handover_Utran	HO NeighCell Unsuccess	Utran: Timer	I	C	2212/1 Number of failures to execute UMTS handover to the cell, with cause BSC timer	S

						expiration	
hoNcellsUnsuccessOther	Handover_Utran	HO NeighCell	Utran: Unsuccess Other	I	C	2212/2 Number of failures to execute UMTS handover to the cell, with other cause	S
hoNcellsSuccessUtranUplinkStrength	Handover_Utran	HO NeighCell Success	Utran: Uplink Strength	I	C	2213/0 Number of UMTS handover success to the neighbour cell: Uplink Strength	S
hoNcellsSuccessUtranDownlinkStrength	Handover_Utran	HO NeighCell Success	Utran: Downlink Strength	I	C	2213/1 Number of UMTS handover success to the neighbour cell: Downlink Strength	S
hoNcellsSuccessUtranUplinkQuality	Handover_Utran	HO NeighCell Success	Utran: Uplink Quality	I	C	2213/2 Number of UMTS handover success to the neighbour cell: Uplink Quality	S
hoNcellsSuccessUtranDownlinkQuality	Handover_Utran	HO NeighCell Success	Utran: Downlink Quality	I	C	2213/3 Number of UMTS handover success to the neighbour cell: Downlink Quality	S
hoNcellsSuccessUtranDistance	Handover_Utran	HO NeighCell Success	Utran: Distance	I	C	2213/4 Number of UMTS handover success to the neighbour cell: Distance	S
hoNcellsSuccessUtranPowerBudget	Handover_Utran	HO NeighCell Success	Utran: Power Budget	I	C	2213/5 Number of UMTS handover success to the neighbour cell: Power Budget	S
hoNcellsSuccessUtranTraffic	Handover_Utran	HO NeighCell Success	Utran: Traffic	I	C	2213/6 Number of UMTS handover success to the neighbour cell: Traffic	S
hoNcellsSuccessUtranForcedHo	Handover_Utran	HO NeighCell Success	Utran: Forced HO	I	C	2213/7 Number of UMTS handover requests to the neighbour cell: Inter Cell O&M (forced handover)	S
hoNcellsSuccessUtranAMR	Handover_Utran	HO NeighCell Success	Utran: AMR	I	C	2213/8 Number of UMTS handover success to the neighbour cell: Alarm AMR	S
trafficReleaseT3121	Sector	Traffic Release	T3121	I	C	1164/34 Number of releases while the communication is in traffic phase: T3121 expiry	S
hoFailureIncomingIntraBssTchCellCongestion	Sector	HO FailureIncomingIntraBss	TCH Cell Congestion	I	C	1758/5 Number of incoming intra BSS handover requests, on TCH with cause cell congestion, which have been refused	S
hoFailureIncomingIntraBssSdcchCellCongestion	Sector	HO FailureIncomingIntraBss	SDCCH Cell Congestion	I	C	1759/4 Number of incoming intra BSS handover requests, on SDCCH with cause cell congestion, which have been refused	S
hoFailureIncomingInterBssTchCellCongestion	Sector	HO FailureIncomingInterBss	TCH Cell Congestion	I	C	1760/6 Number of incoming inter BSS handover requests, on TCH with target cell congestion, which have been refused	S
hoFailureIncomingInterBssSdcchCellCongestion	Sector	HO FailureIncomingInterBss	SDCCH Cell Congestion	I	C	1761/5 Number of incoming inter BSS handover requests, on SDCCH with cause target cell congestion, which have been refused	S
nbCM3FromUmtsFddMs	Sector	Class Mark 3 From	UMTS FDD MS	I	C	2202/0 Number of classmark 3 element received for MS supporting UMTS FDD	S
hoRequestIncomingUtran	Sector	HO Request	Incoming Utran	I	C	2203/0 Number of handover from UMTS	S
hoExecutionIncomingUtran	Sector	HO Execution	Incoming Utran	I	C	2204/0 Number of incoming handover execution attempt from UMTS	S
hoSuccessIncomingUtran	Sector	HO Success	Incoming Utran	I	C	2205/0 Number of successful incoming handover from UMTS	S



hoRequestUtranUplinkStrength	Sector	HO Request	Utran Uplink Strength	I	C	2206/0 Number of UMTS handover requests in the cell: Uplink Strength	S
hoRequestUtranDownlinkStrength	Sector	HO Request	Utran Downlink Strength	I	C	2206/1 Number of UMTS handover requests in the cell: Downlink Strength	S
hoRequestUtranUplinkQuality	Sector	HO Request	Utran Uplink Quality	I	C	2206/2 Number of UMTS handover requests in the cell: Uplink Quality	S
hoRequestUtranDownlinkQuality	Sector	HO Request	Utran Downlink Quality	I	C	2206/3 Number of UMTS handover requests in the cell: Downlink Quality	S
hoRequestUtranDistance	Sector	HO Request	Utran Distance	I	C	2206/4 Number of UMTS handover requests in the cell: Distance	S
hoRequestUtranPowerBudget	Sector	HO Request	Utran Power Budget	I	C	2206/5 Number of UMTS handover requests in the cell: Power Budget	S
hoRequestUtranTraffic	Sector	HO Request	Utran Traffic	I	C	2206/6 Number of UMTS handover requests in the cell: Traffic	S
hoRequestUtranForcedHo	Sector	HO Request	Utran Forced HO	I	C	2206/7 Number of UMTS handover requests in the cell: inter-cell O&M (forced handover)	S
hoRequestUtranAMR	Sector	HO Request	Utran AMR	I	C	2206/8 Number of UMTS handover requests in the cell: Alarm AMR	S
hoExecutionUtran	Sector	HO Execution	Utran	I	C	2207/0 Number of UMTS handover attempts in the cell	S
hoUnsuccessUtranOldChannel	Sector	HO Unsuccess	Utran Old Channel	I	C	2208/0 Number of failures to execute UMTS handover from the cell, with mobile returns to old channel	S
hoUnsuccessUtranTimer	Sector	HO Unsuccess	Utran Timer	I	C	2208/1 Number of failures to execute UMTS handover from the cell, with cause BSC t3121 timer expiration	S
hoUnsuccessUtranOther	Sector	HO Unsuccess	Utran Other	I	C	2208/2 Number of failures to execute UMTS handover from the cell, with other cause	S
hoFailureUtranGeranUMode	Sector	HO FailureUtran	GeranUMode	I	C	2209/0 Number of UMTS handover requests that have been refused with cause GERAN lu-mode failure	S
hoFailureUtranTrafficLoad	Sector	HO FailureUtran	Traffic Load	I	C	2209/1 Number of UMTS handover requests that have been refused with cause traffic load in the target cell higher than in the source cell	S
hoFailureUtranRadioResource	Sector	HO FailureUtran	Radio Resource	I	C	2209/2 Number of UMTS handover requests that have been refused with cause no radio resource available	S
hoFailureUtranOther	Sector	HO FailureUtran	Other	I	C	2209/3 Number of UMTS handover requests that have been refused with other cause	S
estabIndicSigEmr	Sector	Receipts Estab Indic	Sig EMR	I	C	2216/0 Number of receipt of an ESTABLISHMENT_INDICATION message in call establishment phase	S
pcmBscFaultLsaRcHsaRc	PCM	PCM BSC Fault	Hardware Failure	I	C	3067/1 Number of fault related to the PCM (Abis, Ater, Agprs) viewed from the BSC: hardware failure	S

pcmBscFaultOutOfService	PCM	PCM BSC Fault	Out Of Service	I	C	3067/2 Number of fault related to the PCM (Abis, Ater, Agprs) viewed from the BSC: O&M	S
pcmBscFaultPcm	PCM	PCM BSC Fault	PCM Failure	I	C	3067/0 Number of fault related to the PCM (Abis, Ater, Agprs) viewed from the BSC: PCM failure	S
pcmBscUnavailabilityCum	PCM	Total PCM BSC	Unavailability	F	C	3065/0 Total duration of unavailability of the PCM (Abis, Ater, Agprs) viewed from the BSC (in milli-seconds)	S
pcmBscUnavailabilityEch	PCM	# Samp PCM BSC	Unavailability	F	C	3065/0 Number of samplings for duration of unavailability of the PCM (Abis, Ater, Agprs) viewed from the BSC.	J
pcmBscUnavailabilityMax	PCM	Max PCM BSC	Unavailability	F	C	3065/0 Maximum duration of unavailability of the PCM (Abis, Ater, Agprs) viewed from the BSC (in milli-seconds)	Q
pcmBscUnavailabilityMoy	PCM	Ave PCM BSC	Unavailability	F	C	3065/0 Average duration of unavailability of the PCM (Abis, Ater, Agprs) viewed from the BSC (in milli-seconds)	A
pcmTcuFaultLsaRcHsaRc	PCMA	PCM TCU Fault	Hardware Failure	I	C	3068/1 Number of fault related to the PCMA viewed from the TCU: hardware failure	S
pcmTcuFaultOutOfService	PCMA	PCM TCU Fault	Out Of Service	I	C	3068/2 Number of fault related to the PCMA viewed from the TCU: O&M	S
pcmTcuFaultPcma	PCMA	PCM TCU Fault	PCMA Failure	I	C	3068/0 Number of fault related to the PCMA viewed from the TCU: PCMA failure	S
pcmTcuUnavailabilityCum	PCMA	Total PCM TCU	Unavailability	F	C	3066/0 Total duration of unavailability of the PCMA viewed from the TCU (in milli-seconds).	S
pcmTcuUnavailabilityEch	PCMA	# Samp PCM TCU	Unavailability	F	C	3066/0 Number of samplings for duration of unavailability of the PCMA viewed from the TCU.	J
pcmTcuUnavailabilityMax	PCMA	Max PCM TCU	Unavailability	F	C	3066/0 Maximum duration of unavailability of the PCMA viewed from the TCU (in milli-seconds).	Q
pcmTcuUnavailabilityMoy	PCMA	Avg PCM TCU	Unavailability	F	C	3066/0 Average duration of unavailability of the PCMA viewed from the TCU (in milli-seconds).	A
nbBadDownlinkFramesClassicTdma	Transceiver	Bad Downlink Frames	Transmitted Classic	I	C	2201/0 Number of downlink bad frames transmitted in classic calls (FR, EFR)	S
nbEstimBadDownlinkFramesAmrFr102Tdma	Transceiver	Estim Bad Downlink Frames	AMR FR Codec 10.2	I	C	2197/3 Number of bad downlink radio frames for AMR FR calls in codec 10.2	S
nbEstimBadDownlinkFramesAmrFr475Tdma	Transceiver	Estim Bad Downlink Frames	AMR FR Codec 4.75	I	C	2197/0 Number of bad downlink radio frames for AMR FR calls in codec 4.75	S
nbEstimBadDownlinkFramesAmrFr59Tdma	Transceiver	Estim Bad Downlink Frames	AMR FR Codec 5.9	I	C	2197/1 Number of bad downlink radio frames for AMR FR calls in codec 5.9	S
nbEstimBadDownlinkFramesAmrFr67Tdma	Transceiver	Estim Bad Downlink Frames	AMR FR Codec 6.7	I	C	2197/2 Number of bad downlink radio frames for AMR FR calls in	S

esAmrFr67Tdma		Frames				codec 6.7	
nbEstimBadDownlinkFramesAmrHr475Tdma	Transceiver	Estim Bad Downlink Frames	AMR HR Codec 4.75	I	C	2199/0 Number of bad downlink radio frames for AMR HR calls in codec 4.75	S
nbEstimBadDownlinkFramesAmrHr59Tdma	Transceiver	Estim Bad Downlink Frames	AMR HR Codec 5.9	I	C	2199/1 Number of bad downlink radio frames for AMR HR calls in codec 5.9	S
nbEstimBadDownlinkFramesAmrHr67Tdma	Transceiver	Estim Bad Downlink Frames	AMR HR Codec 6.7	I	C	2199/2 Number of bad downlink radio frames for AMR HR calls in codec 6.7	S
nbTransDownlinkFramesAmrFr102Tdma	Transceiver	Trans Downlink Frames	AMR FR Codec 10.2	I	C	2196/3 Number of transmitted downlink radio frames for AMR FR calls in codec 10.2	S
nbTransDownlinkFramesAmrFr475Tdma	Transceiver	Trans Downlink Frames	AMR FR Codec 4.75	I	C	2196/0 Number of transmitted downlink radio frames for AMR FR calls in codec 4.75	S
nbTransDownlinkFramesAmrFr59Tdma	Transceiver	Trans Downlink Frames	AMR FR Codec 5.9	I	C	2196/1 Number of transmitted downlink radio frames for AMR FR calls in codec 5.9	S
nbTransDownlinkFramesAmrFr67Tdma	Transceiver	Trans Downlink Frames	AMR FR Codec 6.7	I	C	2196/2 Number of transmitted downlink radio frames for AMR FR calls in codec 6.7	S
nbTransDownlinkFramesAmrHr475Tdma	Transceiver	Trans Downlink Frames	AMR HR Codec 4.75	I	C	2198/0 Number of transmitted downlink radio frames for AMR HR calls in codec 4.75	S
nbTransDownlinkFramesAmrHr59Tdma	Transceiver	Trans Downlink Frames	AMR HR Codec 5.9	I	C	2198/1 Number of transmitted downlink radio frames for AMR HR calls in codec 5.9	S
nbTransDownlinkFramesAmrHr67Tdma	Transceiver	Trans Downlink Frames	AMR HR Codec 6.7	I	C	2198/2 Number of transmitted downlink radio frames for AMR HR calls in codec 6.7	S
nbTransDownlinkFramesClassicTdma	Transceiver	Trans Downlink Frames	Transmitted Classic	I	C	2200/0 Number of downlink frames transmitted in classic calls (FR, EFR)	S
PaSwitchOffDuration	Transceiver	PA Switch Off	Duration	I	C	2227/0 PA powered off duration during the current observation period	S
PaSwitchOffNumber	Transceiver	PA Switch Off	Number	I	C	2228/0 Number of PA powered off during the current observation period	S
trafficReleaseT3121Tdma	Transceiver	Traffic Releases	T3121 TDMA	I	C	1174/11 Number of releases for T3121 reason (during handover to Utran) while the communication is in "traffic" phase on the concerned TDMA	S
pcuLackAgprsJokerTSCum	Transceiver	Total PCU Lack	Agprs Joker TS	F	C	15280/0 Total number of additional Agprs Jokers TS in the DL direction that would be required to reach the MCS targeted by the Link Adaptation	S
pcuLackAgprsJokerTSNbs	Transceiver	# Samp PCU Lack	Agprs Joker TS	F	C	15280/0 Number of samplings for additional Agprs Jokers TS in the DL direction that would be required to reach the MCS targeted by the Link Adaptation	J

pcuLackAgprsJokerTSAvg	Transceiver	Ave PCU Lack	Agprs Joker TS	F	C	15280/0 Average number of additional Agprs Jokers TS in the DL direction that would be required to reach the MCS targeted by the Link Adaptation	A
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Retired counters are as below:-

Prospect Field Name	Entity Name	Heading Line 1	Heading Line 2	Datatype	Field Type	Description	Aggregator
cardSynthLoadCum	BSC_Proc	Synth Load	Proc Cum	I	C	1835 Cumulative synthetic load on Processor (Counter is not supported in BSS V17.0)	S
cardSynthLoadEch	BSC_Proc	Synth Load	Proc NoS	I	C	1835 Number of samples for Synthetic load on Processor (Counter is not supported in BSS V17.0)	S
cardSynthLoadMax	BSC_Proc	Synth Load	Proc Max	I	C	1835 Maximum synthetic load on Processor (Counter is not supported in BSS V17.0)	Q
cardSynthLoadMoy	BSC_Proc	Synth Load	Proc Ave	F	C	1835 Average synthetic load on Processor (Counter is not supported in BSS V17.0)	S
cgOverloadRejectedOpChannelReqCg	BSC_Proc	CPUE Overload	Rejct ChanReq	F	C	1803/1 Number of rejected calls on channel requests due to overload (Counter is not supported in BSS V17.0)	S
cgOverloadRejectedOpEstablishIndCg	BSC_Proc	CPUE Overload	Rejct EstabInd	F	C	1803/2 Number of rejected calls on establish indication due to overload (Counter is not supported in BSS V17.0)	S
cgOverloadRejectedOpHoReqCg	BSC_Proc	CPUE Overload	Rejct HOreq	F	C	1803/3 Number of rejected calls on handover request due to overload (Counter is not supported in BSS V17.0)	S
cgOverloadRejectedOpPageReqBtsCg	BSC_Proc	CPUE Overload	Rej PageReqBTS	F	C	1803/4 Number of rejected calls on handover requests due to an overloaded cell (Counter is not supported in BSS V17.0)	S
cgOverloadRejectedOpPageReqCg	BSC_Proc	CPUE Overload	Rejct PageReq	F	C	1803/0 Number of rejected calls on paging requests due to overload (Counter is not supported in BSS V17.0)	S
cgOverloadRejectedOpSmsCbCg	BSC_Proc	CPUE Overload	Rejct Sms-cb	F	C	1803/5 Number of rejected sms-cb messages due to overload situation (Counter is not supported in BSS V17.0)	S
lapdOverloadRejectedOpSicd	BSC_Proc	LAPD CallRejd	Overload SICD	I	C	1834 Number of rejected calls on paging requests due to SICD board overload (Counter is not supported in BSS V17.0)	S
prLoadCum	BSC_Proc	Processor load	(2g-BSC) % Cum	I	C	1400 Cumulative value for the load of the Processor board in percent (Counter is not supported in BSS V17.0).	S
prLoadEch	BSC_Proc	Processor load	(2g-BSC) % Nbs	I	C	1400 Number of samples for load of the Processor board (Counter is not supported in BSS V17.0)	S

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prLoadMax	BSC_Proc	Processor load	(2g-BSC) % Max	I	C	1400 Maximum for the load of the Processor board in percent (Counter is not supported in BSS V17.0).	Q
prLoadMoy	BSC_Proc	Processor load	(2g-BSC) % Avg	F	C	1400 Average load of the Processor board in percent (Counter is not supported in BSS V17.0).	A
pcmFaultDDTBoard	PCM	PCM Fault	DDTI Board	F	C	1755/2 Number of faults relating to the PCM with cause DDTI/SLTI board fault (Counter is not supported in BSS V17.0)	S
pcmFaultExternal	PCM	PCM Fault	External	F	C	1755/0 Number of faults relating to the PCM with cause external PCM fault (Counter is not supported in BSS V17.0)	S
pcmFaultInternal	PCM	PCM Fault	Internal	F	C	1755/1 Number of faults relating to the PCM with cause internal fault (Counter is not supported in BSS V17.0)	S
pcmFaultOutOfService	PCM	PCM Fault	Out of Service	F	C	1755/3 Number of faults relating to the PCM with cause taken out of service for an O&M reason (Counter is not supported in BSS V17.0)	S
pcmUnavailabilityCum	PCM	PCM Unavail	Cum	I	C	1114 Total for time of PCM unavailability (Counter is not supported in BSS V17.0)	S
pcmUnavailabilityEch	PCM	PCM Unavail	NoS	I	C	1114 Number of samples for time of PCM unavailability (Counter is not supported in BSS V17.0)	S
pcmUnavailabilityMax	PCM	PCM Unavail	Max	I	C	1114 Maximum time of PCM unavailability (Counter is not supported in BSS V17.0)	Q
pcmUnavailabilityMoy	PCM	PCM Unavail	Ave	F	C	1114 Average time of PCM unavailability (Counter is not supported in BSS V17.0)	S
chainStandByResponse	BSC	ChainStand	ByResponse-retired fr 4.0.12.0.0	I	C	1122 Number of passive chain response messages (Counter is not supported in BSS V17.0)	S
chainStandByUpdate	BSC	ChainStand	ByUpdate-retired fr 4.0.12.0.0	I	C	1121 Number of passive chain update messages (Counter is not supported in BSS V17.0)	S
omcInputIframe	BSC	OMC input	I-Frame-retired fr 4.0.12.0.0	I	C	1301 Number of I frames received (Counter is not supported in BSS V17.0)	S
omcInputRepeatedIframe	BSC	OMC input	Reptd I-frame-retired fr 4.0.12.0.0	I	C	1303 Number of repeated I frames received (Counter is not supported in BSS V17.0)	S
omcInputRnrFrame	BSC	OMC input	RNR-frame-retired fr 4.0.12.0.0	I	C	1305 Number of RNR frames received (Counter is not supported in BSS V17.0)	S
omcLinkSwitchOver	BSC	OMClink	SwitchOver	I	C	1115 Number of link changeovers (Counter is not supported in BSS V17.0)	S
omcOutputIframe	BSC	OMC output	I-Frame-retired fr 4.0.12.0.0	I	C	1300 Number of I frames sent (Counter is not supported in BSS V17.0)	S
omcOutputRepeatedIframe	BSC	OMC output	Reptd I-frame-retired fr	I	C	1302 Number of repeated I frames sent (Counter is not supported in BSS V17.0)	S

			4.0.12.0.0				
omcOutputRnrFrame	BSC	OMC output	RNR-frame-retired fr 4.0.12.0.0	I	C	1304 Number of RNR frames sent (Counter is not supported in BSS V17.0)	S
abisLevel1ErrorsBadFrame	LAPD	LAPD Level-1	BadFrame Rcvd	I	C	1084/0 Number of LAPD Level 1 errors: Erroneous frame received (Counter is not supported in BSS V17.0)	S
abisLevel1ErrorsCrcError	LAPD	LAPD Level-1	CRC Error	I	C	1084/3 Number of LAPD Level 1 errors: CRC error (Counter is not supported in BSS V17.0)	S
abisLevel1ErrorsLostAlign	LAPD	LAPD Level-1	Lost Align	I	C	1084/4 Number of LAPD Level 1 errors: Loss of alignment (Counter is not supported in BSS V17.0)	S
channelActivateTchHrDataNT6000	Sector	ChanActiv TCH/	HR DataNT6000	I	C	1708/0 Number of channel activation for non-transparent data service on half rate TCH with a 6000 b/s transmission rate (Counter is removed in BSS V17.0).	S
channelActivateTchHrDataT1200	Sector	ChanActiv TCH/	HR DataT1200	I	C	1706/2 Number of channel activation for transparent data service on half rate TCH with a 1200 b/s transmission rate (Counter is removed in BSS V17.0) .	S
channelActivateTchHrDataT16	Sector	ChanActiv TCH/	HR DataT16	I	C	1706/0 Number of channel activation for transparent data service on half rate TCH (Counter is removed in BSS V17.0)	S
channelActivateTchHrDataT2400	Sector	ChanActiv TCH/	HR DataT2400	I	C	1706/3 Number of channel activation for transparent data service on half rate TCH with a 2400 b/s transmission rate (Counter is removed in BSS V17.0).	S
channelActivateTchHrDataT4800	Sector	ChanActiv TCH/	HR DataT4800	I	C	1706/4 Number of channel activation for transparent data service on half rate TCH with a 4800 b/s transmission rate (Counter is removed in BSS V17.0).	S
channelActivateTchHrDataT600	Sector	ChanActiv TCH/	HR DataT600	I	C	1706/1 Number of channel activation for transparent data service on half rate TCH with a 600 b/s transmission rate (Counter is removed in BSS V17.0).	S
channelActTchHrDataNT	Sector	ChannelActiv	TCH/HR DataNT	I	C	1712/0 Number of TCH/HR activation for non-transparent data service (Counter is removed in BSS V17.0)	S
channelActTchHrDataT	Sector	ChannelActiv	TCH/HR DataT	I	C	1711/0 Number of TCH/HR activation for transparent data service (Counter is removed in BSS V17.0)	S

## **4 Known Problems**

Please refer to the release notes for NortelGGU RP14 (4.0.14.0.0) for known issues

## 5 Upgrade Instructions

### 5.1 Prerequisites

This release requires a Prospect system running NortelGGU RP14 (4.0.14.0.10)

#### 5.1.1 Network Timeouts

If your system has a security policy in place such that a session is disconnected after a lengthy period of apparent inactivity, you should disable it during this upgrade. The upgrade can take a few hours to run and requires no user input during the majority of the upgrade. This can make the upgrade session appear idle. If timeouts are not disabled, the upgrade terminal could be disconnected during the upgrade.

#### 5.1.2 Disk Space and Table Space Requirements

Check the disk space under /u01 for sufficient space. The installation of the patch requires additional 17 MB disk space under /u01 file system.

The install script also requires that at least 10% of total tablespace size is available for each tablespace. Please contact customer support if there is less than 10% of total tablespace available for any of the tablespaces.

#### 5.1.3 XDK

The Oracle Database must have XDK installed. Log into the database using SQL\*Plus:

```
$ sqlplus $DB_CONNECT
```

Please use the following sql statement to check if the XDK is installed accordingly. Oracle XDK for Java should be there in the result. The version must be 9.2.0.x.

```
SQL> SELECT comp_id, comp_name, version FROM dba_registry;
```

COMP_ID	COMP_NAME	VERSION
XML	Oracle XDK for Java	9.2.0.10.0

#### 5.1.4 Perl Version

Make sure that /usr/bin/env perl is version 5.6.1. Type the following command:

```
$ /usr/bin/env perl -v
```

```
This is perl, v5.6.1 ...
```

*If either version is wrong, especially if it is earlier than required, some scripts might not run, or might produce incorrect results.*

#### 5.1.5 Java Version

Make sure that the java is version 1.4.2 and above. Type the following command to check the java version.

```
$ java -version
```

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```
java version "1.4.2_05"
Java(TM) 2 Runtime Environment, Standard Edition (build
1.4.2_05-b04)
Java HotSpot(TM) Client VM (build 1.4.2_05-b04, mixed mode)
```

*If either version is wrong, especially if it is earlier than required, some scripts might not run, or might produce incorrect results.*

### 5.1.6 Checking Environment Variables

Execute the following command to verify that the environment variables LOG and OK are NOT set to anything:

```
$ echo $LOG $OK
$ <- default setting should be empty
```

If the above environment variables are set, please unset the environment variables as below:

```
$ unset LOG
$ unset OK
$ echo $LOG $OK
$ <- it should show null value
```

### 5.1.7 Baseline Requirements

The base environment that this release will be applied against:

- Prospect® 8.0 for Nortel GSM/GPRS/UMTS 4.0.14.0.10.4 (either a fresh install or an upgrade from an earlier release)

You can check this by running the following command as the Prospect UNIX user:

```
$ show_installed
```

The output will look something like this(Base is 4.0.14.0.10.4 fresh install):-

COMPONENT	INSTALL_TY	INSTALL_DATE
CORE Prospect rev 8.0.4.1 b5	INSTALL	08-AUG-04 16:32:44
VENDOR NorGPRS_Core rev 4.0.14.0.10 b4	UPGRADE	08-AUG-06 12:38:37
VENDOR NorGSM rev 4.0.14.0.10 b4	UPGRADE	08-AUG-06 12:54:18
VENDOR NorGPRS_Radio rev 4.0.14.0.0 b2	INSTALL	08-AUG-04 17:04:19
VENDOR NorUMTS_RAN rev 4.0.14.0.0 b2	INSTALL	08-AUG-04 17:18:10
VENDOR NorHLR_Univivity rev 4.0.14.0.0 b2	INSTALL	08-AUG-04 17:26:58

The versions (rev) of CORE Prospect and VENDOR module must be greater than or equal to those shown. The build number (b1) and install type (INSTALL or UPGRADE) for each component is unimportant. The install dates will be different from those shown.

**Important!** *It is critical that you apply this patch to an environment at the correct patch level. Please verify the environment carefully. For more information, please contact customer support.*

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## 5.2 Installation Privileges Required

The following privileges are required for an upgrade.

<b>Privilege</b>	<b>Required</b>
UNIX flexpm user in DBA group	Yes
Root privilege required	No
Oracle sys user password set to default (change_on_install)	Yes

## 5.3 Pre-Installation Instructions

### 5.3.1 System Backup

This patch cannot be uninstalled. This upgrade involves updates to the database and the metadata; therefore recovery from backup is the only way to reverse the changes made by this upgrade. You must perform a full system backup before installing this upgrade. If needed, please refer to the "Backing up the Database" section of the *Prospect Administration Guide*. Please contact customer support if you require further support.

### 5.3.2 Note schedule\_maint Settings

If the server is down for an extended period of time the script `schedule_maint` could display some jobs as not scheduled. Thus the jobs will not run and the system will fail.

Before the upgrade, run `schedule_maint` to get a list of the current schedule settings. Make a note of the next run time of each job.

### 5.3.3 Note Partition Maintenance Settings

During the upgrade a number of new tables are added to the Prospect system. Occasionally this can cause the script `past_part_maint.sh` to display data retention settings as "Unlimited."

Before the upgrade, run `past_part_maint.sh` to get a list of the current data retention settings.

### 5.3.4 Oracle Sys Account Access

Prospect 8.0 requires that all logins using the `sys` account must be qualified as `sysdba`. The following Oracle changes may be required.

1. Telnet to Prospect server from a remote system to verify if the change is needed. After connect to Prospect server, try to log in using `sqlplus`:

```
$ sqlplus /nolog
SQL> connect sys/change_on_install@flexpm as sysdba
```

If you can log in, you can skip the rest of this procedure.

If you get an error concerning privileges, then you need to continue with the following steps.

2. Set the `remote_login_passwordfile` parameter in the `init<sid>.ora` file. On most Prospect systems the `sid` is `flexpm`. Log in as the oracle user, and then enter the following command.

```
$ cd $ORACLE_BASE/admin/flexpm/pfile
```

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3. Edit the `init<sid>.ora` file (for example, `initflexpm.ora`) and add the following line.
 

```
remote_login_passwordfile=EXCLUSIVE
```
4. Create the Oracle password file to allow remote `sys` access. While still logged in as the oracle user verify that `$ORACLE_HOME` and `$ORACLE_SID` are correct, then enter the following command.
 

```
$ orapwd file=${ORACLE_HOME}/dbs/orapw${ORACLE_SID} \
password=change_on_install entries=10
```
5. Bounce the database so that the parameter and password file take effect. If you get an error concerning the password file, verify that it is in the `dbs` directory and that the filename is `orapwflexpm`.
6. To verify that the changes have taken effect, repeat step 1.

## 5.4 Installation Instructions

1. If this Prospect system is associated with a Prospect Web system, it is advisable to use the Prospect Web Administration Tool to disable the datasource associated with this Prospect system. See the Prospect Web Administration Guide for more information.
2. Log in as user `flexpm`
3. Stop the middleware before installing the patch.
 

```
$ ps-mgr stop all
$ ps-mgr halt
```
4. Download and copy the TAR package to be installed on to the appropriate Prospect Server into a staging directory, for example,
 

```
$ mkdir -p /var/tmp/4.0.14.0-TIV-PROSPECT-NORGGU-IF0020
```
5. `cd` to the staging directory
 

```
$ cd /var/tmp/4.0.14.0-TIV-PROSPECT-NORGGU-IF0020
```
6. Untar the TAR package using the following command:
 

```
$ tar -xvf 4.0.14.0-TIV-PROSPECT-NORGGU-IF0020.tar
```
7. Check the environment setting for `WM_PRODUCT`. The `WM_PRODUCT` variable should be pointing to `PROSPECT`.
 

```
$ env|grep WM_PRODUCT
WM_PRODUCT=PROSPECT
```

If the value is different, add the below statement to the `.profile`

```
export WM_PRODUCT
WM_PRODUCT="${WM_PRODUCT:=${wm_product}}";
```

Logout from the terminal and login as `flexpm` user again. Grep the `WM_PRODUCT` variable again and it should be pointing to `PROSPECT`.
8. Run the installation tool preview option by typing the following command, examine the log for any abnormal message. Please contact customer support if you need any help.
 

```
$ ./wminstall -b $FLEXPM_BASE -i ProspectBase -portbase
$PORT_GROUP -d $DB_CONNECT -core_spec core.spec.9i -v -preview
```

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9. The output of the command line should be same as the following. You should check the line that have **UPGRADE** word:

```
+-----+
| Vendor Tarball      :
|   Module - NorGPRS_Radio, version - 4.0.14.0.20.2 : All prerequisites met
|   FlexPM-NorGPRS_Radio_4014020.tgz                : UPGRADE - VENDOR - 4.0.14.
0.20.2
+-----+
| Vendor Tarball      :
|   Module - NorGSM, version - 4.0.14.0.20.2 : All prerequisites met
|   FlexPM-NorGSM_4014020.tgz                      : UPGRADE - VENDOR -
4.0.14.0.20.1
+-----+
```

If the output from the preview contains no errors, install the application by running the same command again, but without the `-preview` option.

```
$ ./wminstall -b $FLEXPM_BASE -i ProspectBase -portbase
$PORT_GROUP -d $DB_CONNECT -core_spec core.spec.9i -v
```

10. A license agreement is displayed. Use the scroll bar to read the complete text if it does not display in the window. Enter `yes` (case sensitive) to continue with the installation. The installation aborts if you do not enter `yes`.

**Note:**

The installation of the upgrade might take a while to complete, the log file (with filename like `<YYYY>__<MM>__<DD>__<HH>__<MM>__<SS>`) under `/var/tmp` can be viewed from another console during the installation for the installation progress. The date changes as each module installs.

After `wminstall` is completed, examine the `detail.log` under the directory `$FLEXPM_HOME/audit/<YYYY>__<MM>__<DD>__<HH>__<MM>__<SS>__<running_number>` for any error messages.

## 5.5 Post-Installation Instructions

### 5.5.1 Re-source the Profile

After the install finishes, log out and log back in as `flexpm`, if you have not done so already.

### 5.5.2 Check for invalid objects

After an upgrade finishes, it is useful to check for any invalid objects in the database. Log into the database using `SQL*Plus`:

```
$ sqlplus $DB_CONNECT
SQL> select object_type, object_name from user_objects where
status='INVALID' and object_type<>'VIEW';
```

This should produce the output:

```
no rows selected
```

If the above `SELECT` statement outputs some rows, please recompile the schema. Use the correct value for `schema_name` if it differs from below:

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---

```
SQL> execute dbms_utility.compile_schema('schema_name', FALSE);
```

If your schema\_name is FLEXP, you can use the command as below:-

```
SQL> execute dbms_utility.compile_schema('FLEXP', FALSE);
```

### 5.5.3 Installed Version Verification

It is helpful to run `show_installed`, to confirm that everything is installed correctly.

The following registered entries will be updated and shown as:

```
COMPONENT                                INSTALL_TY  INSTALL_DATE
-----
"
"
VENDOR NorGPRS_Radio rev 4.0.14.0.20 b2  UPGRADE    08-SEP-11 12:13:05
VENDOR NorGSM rev 4.0.14.0.20 b2      UPGRADE    08-SEP-11 12:28:10
```

The **VENDOR modules** for `NorGPRS_Radio` and `NorGSM` should be at `4.0.14.0.20 b1` respectively.

The version numbers (`rev`) should be the same as those shown. The install type (`INSTALL`, `PATCH` or `UPGRADE`) is not important. The install dates and times will be different from those shown.

### 5.5.4 Configure Time Zone Region

*For further information on Time Zone Regions please refer to the Prospect Administration Guide.*

This can be configured as follows:

1. Review your current Time Zone Region. If your time zone information is correct, skip to 5.5.5.

```
$ set_tzr.sh -t
Connected.
Greenwich Mean Time
```

2. Review the list of available Time Zone Regions:

```
$ timezoneregion.sh -t
Connected.
America/Anchorage    -540 [1] First Sunday on or after Mar 8 at
02:00 ... First Sunday in Nov at 02:00, 60 minutes
America/Buenos Aires -180
America/Caracas     -240
America/Chicago     -360 [1] First Sunday on or after Mar 8 at
02:00 ... First Sunday in Nov at 02:00, 60 minutes
America/Denver      -420 [1] First Sunday on or after Mar 8 at
02:00 ... First Sunday in Nov at 02:00, 60 minutes
America/Honolulu    -600
America/Indianapolis -300
America/Lima Peru   -300
America/Mexico City -480 [1] First Sunday on or after Mar 8 at
02:00 ... First Sunday in Nov at 02:00, 60 minutes
```

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---

```
America/New York      -300 [1] First Sunday on or after Mar 8 at
02:00 ... First Sunday in Nov at 02:00, 60 minutes
America/Noronha      -120
```

```
...
```

3. Set your Time Zone Region using one of the existing options:

```
$ set_tzr.sh -n "America/Seattle"
Connected.
OK: America/Seattle
```

### 5.5.5 Start the Middleware

Once the installation has been completed, you should start the middleware so that data can be loaded and the system can be used.

1. Log in as user `flexpm`, if you are not already logged in.
2. Start the middleware.

```
$ ps-mgr init
```

### 5.5.6 Check schedule settings

After the middleware has been restarted, run `schedule_maint` to check the next run time of the scheduled jobs. If any of the jobs display the next run time as "job not scheduled," then run `schedule_maint` and update the values to an appropriate future time based on the settings you recorded in Section 5.3.2.

For example, to set the `pm_daily` job to run at 1:00 am on 1 May 2006.

```
schedule_maint pm_daily 20060501 0100
```

*Note: Remember to enter a time in the future. If unsure of appropriate times then please contact customer support*

### 5.5.7 Check partition settings

Run `past_part_maint.sh` to get a list of the current data retention settings. If any of the number displays is different that settings you recorded in Section 5.3.3, then run `past_part_maint.sh` to update the values.

For example, to have 30 days data retention for traffic table types.

```
past_part_maint.sh traffic 30
```

### 5.5.8 Enable Datasource in Prospect Web

If this Prospect system is associated with a Prospect Web system and you disabled the datasource in section 5.4 step 1, then use the Prospect Web Administration Tool to enable the datasource with this Prospect system.

## 5.6 Uninstallation Procedure

This patch cannot be uninstalled. It involves updates to the database or the metadata, therefore recovery from backup is the only way to reverse the changes made by this release/patch. You must perform a full system backup before installing this patch. If

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---

needed, please refer to the "Backing up the Database" section of the *Prospect Administration Guide*. Please contact customer support if you require further support.

---

## 6 Useful Hints

### 6.1 Prospect Client/Server Compatibility

The Prospect client is backward compatible with older Prospect servers. If you try to use an older client with newer server, the results are undefined.

### 6.2 Prospect Single Client

This release features a single, uniform client for all vendor versions.

Users of the Prospect system have expressed the need to connect to all of their Prospect servers with a single client. Several customers have installed multiple Prospect servers, which cover several different vendor technologies. Two key benefits to the single client are:

- Reduced number of clients that your IT department need to install
- Reduced confusion among users over which Prospect client should be used with which Prospect server.

The single Prospect client supports Prospect servers co-released with the client and a defined number of server versions released before the client. Prospect servers released after the client are not supported (that is, the Prospect client is not forward-compatible). Contact your Vallent customer support representative to identify the server versions that your client supports.

This feature removes support for two or more Prospect clients installed on the same PC. Side-by-side installations were originally supported because the Prospect client was not backward compatible with older versions of the server. Full support for backward compatibility removes the need for side-by-side support.

### 6.3 Ports Used by the Prospect Client

The Prospect client uses two ports to connect to the Prospect server:

- **FX port** — Most queries from the Prospect client, status monitor, Auto Downloader, and DSMonitor (DSMonitor is a process that registers for updates from the DataServer) use this port. By default the FX port number is the base port plus four (4). For example, if the base port is 6440, the FX port would be 6444.
- **Event port** — DSMonitor and Prospect Alarm use this port. By default the Event port number is the base port plus three (3). For example, if the base port is 6440, the Event port would be 6443.

If you have closed the ports required by the Prospect client for security reasons, or if you are using these ports for other services, you need to either re-open or re-assign them to the Prospect FX and Event ports. Otherwise, the ability for the Prospect client to be able to communicate with the Prospect server is compromised.

To determine which port numbers are required for your system, log on as `flexpm` and run the following commands:

```
$ echo $FX_DS_PORT
$ echo $EVENT_PORT
```



---

## 6.4 add\_filetype\_timeout.sh

The add\_filetype\_timeout.sh script is not recommended to be used for checking the data file if it does not arrive as expected. If used, user will have to wait for a very long period of time as the add\_filetype\_timeout.sh script increases the time to clean up the schedule table when the middleware is started up.

## **7 Customer Support**

Contact customer support if a problem is encountered during the installation of this patch or release.

## **8 Manifest**

Please refer to manifest.txt in the staging directory.

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