

Release Notes

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1 Description

This document provides information on the Prospect® 8.0 for Lucent UMTS RP8 Patch 20 (5.1.8.0.20.1). This is patch release. The release adds support for counter groups due to MSC04.04 late adders and UTRAN r5.1 based on OMC-U r5.1

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*.

<i>Already Supported Vendor Software</i>
Lucent UMTS RAN 03.01 (including XML Bulk CM file), 03.03.03, 04.03, R5.0
Lucent UMTS SGSN 03.03.03, 04.01
Lucent UMTS Call Server 03.03.03, 04.01/R13, 04.04/R14
LucComExtra – based on SOW14 & SOW15 architecture & design doc

<i>Added Supported Vendor Software in this release</i>
Lucent UMTS Call Server 04.04.02/R14
Lucent UMTS RAN R5.1

3 New Features

3.1 LucentUMTS Call Server

3.1.1 MSC04.04.02 late adders

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

Entity	Category / collection rule	Counter Status	Technology
ServiceMember	Location Update	Extended	UMTS
	Throttling		
RNC_BearerType	Paging per LAC/RNC and Bearer Type	Added	UMTS
BearerType	Paging per Bearer Type	Extended	UMTS

New counters are as below:-

Prospect Field Name	Entity Name	Heading Line 1	Heading Line 2	Datatype	Field Type	Description	Aggregator
attPageReqRNC	RNC_BearerType	Attmpd page	Req RNC Btype	I	C	Attempted page requests per LAC / RNC.	S
succPageReqRNC	RNC_BearerType	Succ page	Req RNC Btype	I	C	Successful page requests per LAC / RNC.	S
GMSCSigGatewayOverloadCtrl	ServiceMember	GMSC Sgnl Gway	Ovrlid Cntrl	I	C	GMSC Signalling Gateway Overload Control	S
ReqForAuthSetsSentToHLRTripletsDisc	ServiceMember	ReqForAuthSets	SentToHLRTripletsDisc	I	C	Requests for Authentication Sets Sent to HLR - UMTS Triplets Discarded	S
ReqForAuthSetsSentToHLRResync	ServiceMember	ReqForAuthSets	SentToHLRResync	I	C	Requests for Authentication Sets Sent to HLR - Resynchronization	S
ReqForAuthSetsSentToHLRReplenish	ServiceMember	ReqForAuthSets	SentToHLRReplenish	I	C	Requests for Authentication Sets Sent to HLR - Replenish	S
succIdReqToPVLRSNoVectors	ServiceMember	SuccIdReq	ToPVLRSNoVectors	I	C	Successful Send IDs Containing No Authentication Vectors	S
IDReqToPVLRSUnidentifiedSub	ServiceMember	IDReqToPVLRS	UnidentifiedSub	I	C	Identification Request to PVLRS - Unidentified Subscriber	S
attThirdPageReq_GSM	BearerType	Att 3rd Page	Request GSM	I	C	Attempted 3rd Page Requests - GSM	S
succThirdPageReqsReq_GSM	BearerType	Succ 3rd Page	Request GSM	I	C	Successful 3rd Page Requests - GSM	S
attThirdPageReq_UMTS	BearerType	Att 3rd Page	Request UMTS	I	C	Attempted 3rd Page Requests - UMTS	S
succThirdPageReqsReq_UMTS	BearerType	Succ 3rd Page	Request UMTS	I	C	Successful 3rd Page Requests - UMTS	S
attThirdPageReq_Unknown	BearerType	Att 3rd Page	Request Unknown	I	C	Attempted 3rd Page Requests - Unknown	S

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succThirdPageReqsReq_Unknown	BearerType	Succ 3rd Page	Request Unknown	I	C	Successful 3rd Page Requests - Unknown	S
attThirdPageReqsFlood	BearerType	Att 3rd Flood	Page Req	I	C	Attempted 3rd Flood Page Requests	S
succThirdPageReqsFlood	BearerType	Succ 3rd Flood	Page Req	I	C	Successful 3rd Flood Page Requests	S

3.1.2 Split file

This release also add supports the split for PM stats data file in to two files, one for regular stats and other for SNMP/trap base stats, which are distinguished by <RC> (Running Count) being added in data file name.

3.1.3 Special Character

This release also add supports for 3GPP standard special characters, '<>"&'. The core patch 8.0.4.6.1 is needed to support this feature.

3.2 LucentUMTS UTRAN R5.1

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

Entity	Category / collection rule	Counter Status	Technology
NeighborRNC	Quality based inter-frequency hard handover	Extended/added	UMTS
	Power and Signal Strength PMs		
	RAB Mean Cell DCH		
	Radio Bearer Reconfiguration HS-DSCH to DCH		
RNC	RncFunction	Extended/added	UMTS
	Downlink Data Rates / User Bits		
	Uplink Data Rates / User Bits		
UtranCell	Dynamic Code Allocation	Extended/added	UMTS
	HSDPA resource related Performance Measurements		
	Power and Signal Strength PMs		
	Quality based inter-frequency hard handover		
	RAB Mean Cell DCH		
	Radio Bearer Reconfiguration HS-DSCH to DCH		
	RRC Connection Establishment		

New counters are as below:-

Prospect Field Name	Entity Name	Heading Line 1	Heading Line 2	Datatype	Field Type	Description	Aggregator
HHO_AttPrepOutInterF	NeighborRNC	Out InterFreq	Prep Att due to	I	C	Attempted preparations for outgoing inter-frequency	S

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req_Qual_RSCP		HHO	Qual RSCP			hard handovers - quality due to RSCP - NeighborRNC	
HHO_AttemptOutInterFreq_req_Qual_RSCP	UtranCell	Out InterFreq HHO	Prep Att due to Qual RSCP	I	C	Attempted preparations for outgoing inter-frequency hard handovers - quality due to RSCP - UtranCell	S
RRC_FailConnEstab_LoadThrottle	UtranCell	RRC Fail Conn Estab	Load Throttle	I	C	This counter is incremented, whenever the RNC rejects a received RRC Connection Request due to Excessive Cell load throttling and an RRC CONNECTION REJECT message is sent to the UE. It shall be pegged against the cell the RRC Connection Request message was received on.	S
UE_MeasRep_6A_Stream_128UL_HSDSCH	UtranCell	UE 6A MeasRep Strm	128UL HSDSCH Cell	I	C	This measurement indicates the number of 6A measurement reports received by the RNC for a UE providing 128kbps UL Streaming with HS DL. The PM indicates that the GBR may not have been fulfilled in the UL for some period of time.	S
UE_MeasRep_6A_Stream_128UL_HSDSCH	Neighbor RNC	UE 6A MeasRep Strm	128UL HSDSCH PRNC	I	C	This measurement indicates the number of 6A measurement reports received by the RNC for a UE providing 128kbps UL Streaming with HS DL. The PM indicates that the GBR may not have been fulfilled in the UL for some period of time.	S
RAB_MeanCellDCH_OneS_DCH_HSDSCH	Neighbor RNC	RAB MeanCell IDCH	1B1S DCH/HSDSCH PRNC	F	C	This measurement provides the mean number of connections with the UE in Cell_DCH with one I/B RAB and one Streaming RAB mapped to HSDPA/DCH.	F
RAB_MeanCellDCH_OneS_DCH_HSDSCH	UtranCell	RAB MeanCell IDCH	1B1S DCH/HSDSCH Cell	F	C	This measurement provides the mean number of connections with the UE in Cell_DCH with one I/B RAB and one Streaming RAB mapped to HSDPA/DCH.	F
RAB_MeanCellDCH_TwoS_DCH_HSDSCH	Neighbor RNC	RAB MeanCell IDCH	2B1S DCH/HSDSCH PRNC	F	C	This measurement provides the mean number of connections with the UE in Cell_DCH with two I/B RABs and one Streaming RAB mapped to HSDPA/DCH.	F
RAB_MeanCellDCH_TwoS_DCH_HSDSCH	UtranCell	RAB MeanCell IDCH	2B1S DCH/HSDSCH Cell	F	C	This measurement provides the mean number of connections with the UE in Cell_DCH with two I/B RABs and one Streaming RAB mapped to HSDPA/DCH.	F

RAB_MeanCellDCH_UL336_DLHSDSCH656	UtranCell	RAB_MeanCellIDCH	ULEDCH336_DLHSDSCH656	F	C	This measurement provides the mean number of PS RABs with UE being in Cell_DCH mapped on E-DCH / HS-DSCH transport channels with an RLC PDU size of 336 for UL and 656 bit for DL.	F
RAB_MeanCellDCH_UL336_DLHSDSCH656	UtranCell	RAB_MeanCellIDCH	ULDCH336_DLHSDSCH656Cell	F	C	This measurement provides the mean number of PS RABs with UE being in Cell_DCH mapped on DCH / HS-DSCH transport channels with an RLC PDU size of 336 for UL and 656 bit for DL.	F
RAB_MeanCellDCH_UL336_DLHSDSCH656	NeighborRNC	RAB_MeanCellIDCH	ULDCH336_DLHSDSCH656PRNC	F	C	This measurement provides the mean number of PS RABs with UE being in Cell_DCH mapped on DCH / HS-DSCH transport channels with an RLC PDU size of 336 for UL and 656 bit for DL.	F
RAB_MeanActiveStrmDCH_HSDSCH	RNC	RAB_MeanActive	StrmDCH/HSDSCH	F	C	Mean Number of Active DL RABs per QoS Class on DCH / HSDSCH	F
DataRate_PSDLStrm_HSDSCH	RNC	DataRatePSDLStrm	HSDSCH in kbps	F	C	This measurement provides the DL throughput for QoS class streaming mapped on HSDSCH.	F
RB_ReconfAtt_PSStrm_HSDSCH_DCH_sum	UtranCell	RB_ReconfAttPSStrm	HSDSCH/DCH Sum Cell	I	C	This measurement counts the total number of RB reconfiguration attempts for transition from HS-DSCH to DCH for a streaming RAB. This counter provides the total RNC attempts to transition a UE from HS-DSCH to DCH with a Streaming RAB.	S
RB_ReconfAtt_PSStrm_HSDSCH_DCH_sum	NeighborRNC	RB_ReconfAttPSStrm	HSDSCH/DCH Sum PRNC	I	C	This measurement counts the total number of RB reconfiguration attempts for transition from HS-DSCH to DCH for a streaming RAB. This counter provides the total RNC attempts to transition a UE from HS-DSCH to DCH with a Streaming RAB.	S
RB_ReconfAtt_PSStrm_HSDSCH_DCH_RLF	UtranCell	RB_ReconfAttPSStrm	HSDSCH/DCH RLF Cell	I	C	This measurement counts the total number of RB reconfiguration attempts for transition from HS-DSCH to DCH for a streaming RAB. This counter provides the total RNC attempts to transition a UE from HS-DSCH to DCH with a Streaming RAB due to radio link failure on the HSDPA serving cell.	S

RB_ReconfAtt_PSStrm_HSDSCH_DCH_RLF	Neighbor RNC	RB ReconfAtt PS Strm	HSDSCH/DCH RLF PRNC	I	C	This measurement counts the total number of RB reconfiguration attempts for transition from HS-DSCH to DCH for a streaming RAB. This counter provides the total RNC attempts to transition a UE from HS-DSCH to DCH with a Streaming RAB due to radio link failure on the HSDPA serving cell.	S
RB_ReconfAtt_PSStrm_HSDSCH_DCH_cellsupport	UtranCell	RB ReconfAtt PS Strm	HSDSCH/DCH cell Supp Cell	I	C	This measurement counts the total number of RB reconfiguration attempts for transition from HS-DSCH to DCH for a streaming RAB. This counter provides the total RNC attempts to transition a UE from HS-DSCH to DCH with a Streaming RAB due to Streaming HSDPA being disabled in the cell due to OAM configuration.	S
RB_ReconfAtt_PSStrm_HSDSCH_DCH_cellsupport	Neighbor RNC	RB ReconfAtt PS Strm	HSDSCH/DCH cell Supp PRNC	I	C	This measurement counts the total number of RB reconfiguration attempts for transition from HS-DSCH to DCH for a streaming RAB. This counter provides the total RNC attempts to transition a UE from HS-DSCH to DCH with a Streaming RAB due to Streaming HSDPA being disabled in the cell due to OAM configuration.	S
RB_ReconfAtt_PSStrm_HSDSCH_DCH_Cmfail	UtranCell	RB ReconfAtt PS Strm	HSDSCH/DCH Cmfail Cell	I	C	This measurement counts the total number of RB reconfiguration attempts for transition from HS-DSCH to DCH for a streaming RAB. This counter provides the total RNC attempts to transition a UE from HS-DSCH to DCH with a Streaming RAB due to compressed mode failure.	S
RB_ReconfAtt_PSStrm_HSDSCH_DCH_Cmfail	Neighbor RNC	RB ReconfAtt PS Strm	HSDSCH/DCH Cmfail PRNC	I	C	This measurement counts the total number of RB reconfiguration attempts for transition from HS-DSCH to DCH for a streaming RAB. This counter provides the total RNC attempts to transition a UE from HS-DSCH to DCH with a Streaming RAB due to compressed mode failure.	S
MeanNbrHSDPACodesAlloc	UtranCell	Mean Nbr HSDPA	Codes Alloc	F	C	This measurement provides the mean number of HSDPA Codes allocated.	F
PhysSharedReconf	UtranCell	Phys Shar	Reconfig Req by	I	C	This counter provides the number of Physical Shared	S

gReq_DCA		Chan	DCA			Channel Reconfiguration Requests triggered by Dynamic Code Allocation (DCA).	
PhysSharChanReconfigFail_DCA	UtranCell	Phys Shar Chan	Reconfig Fail by DCA	I	C	This counter provides the number of NBAP Physical Shared Channel Reconfiguration Failure for a Physical Shared Channel Reconfiguration Request triggered by Dynamic Code Allocation (DCA).	S
RF_HsGbrPowerRatio_LE10	UtranCell	RF Hs Gbr Power Ratio	>= 0 to <= 10%	I	C	This measurement provides a distribution of the transmitted power used for GBR users to the power available for HSDPA. HSDPA power used for GBR to HSDPA available power Distribution: >= 0 to <= 10%.	S
RF_HsGbrPowerRatio_LE20	UtranCell	RF Hs Gbr Power Ratio	> 10 to <= 20%	I	C	This measurement provides a distribution of the transmitted power used for GBR users to the power available for HSDPA. HSDPA power used for GBR to HSDPA available power Distribution: > 10 to <= 20%.	S
RF_HsGbrPowerRatio_LE30	UtranCell	RF Hs Gbr Power Ratio	> 20 to <= 30%	I	C	This measurement provides a distribution of the transmitted power used for GBR users to the power available for HSDPA. HSDPA power used for GBR to HSDPA available power Distribution: > 20 to <= 30%.	S
RF_HsGbrPowerRatio_LE40	UtranCell	RF Hs Gbr Power Ratio	> 30 to <= 40%	I	C	This measurement provides a distribution of the transmitted power used for GBR users to the power available for HSDPA. HSDPA power used for GBR to HSDPA available power Distribution: > 30 to <= 40%.	S
RF_HsGbrPowerRatio_LE50	UtranCell	RF Hs Gbr Power Ratio	> 40 to <= 50%	I	C	This measurement provides a distribution of the transmitted power used for GBR users to the power available for HSDPA. HSDPA power used for GBR to HSDPA available power Distribution: > 40 to <= 50%.	S
RF_HsGbrPowerRatio_LE60	UtranCell	RF Hs Gbr Power Ratio	> 50 to <= 60%	I	C	This measurement provides a distribution of the transmitted power used for GBR users to the power available for HSDPA. HSDPA power used for GBR to HSDPA available	S

						power Distribution: > 50 to <= 60%.	
RF_HsGbrPowerRatio_LE70	UtranCell	RF Hs Gbr Power Ratio	> 60 to <= 70%	I	C	This measurement provides a distribution of the transmitted power used for GBR users to the power available for HSDPA. HSDPA power used for GBR to HSDPA available power Distribution: > 60 to <= 70%.	S
RF_HsGbrPowerRatio_LE80	UtranCell	RF Hs Gbr Power Ratio	> 70 to <= 80%	I	C	This measurement provides a distribution of the transmitted power used for GBR users to the power available for HSDPA. HSDPA power used for GBR to HSDPA available power Distribution: > 70 to <= 80%.	S
RF_HsGbrPowerRatio_LE90	UtranCell	RF Hs Gbr Power Ratio	> 80 to <= 90%	I	C	This measurement provides a distribution of the transmitted power used for GBR users to the power available for HSDPA. HSDPA power used for GBR to HSDPA available power Distribution: > 80 to <= 90%.	S
RF_HsGbrPowerRatio_LE100	UtranCell	RF Hs Gbr Power Ratio	> 90 to <= 100%	I	C	This measurement provides a distribution of the transmitted power used for GBR users to the power available for HSDPA. HSDPA power used for GBR to HSDPA available power Distribution: > 90 to <= 100%.	S
RF_HsAvailPowerRatio_LE10	UtranCell	RF Hs Avail Power Ratio	>= 0 to <= 10%	I	C	This measurement provides a distribution of the transmitted power available for HSDPA users as a ratio of the total cell power: HSDPA Available power Distribution >= 0 to <= 10%.	S
RF_HsAvailPowerRatio_LE20	UtranCell	RF Hs Avail Power Ratio	> 10 to <= 20%	I	C	This measurement provides a distribution of the transmitted power available for HSDPA users as a ratio of the total cell power: HSDPA Available power Distribution > 10 to <= 20%.	S
RF_HsAvailPowerRatio_LE30	UtranCell	RF Hs Avail Power Ratio	> 20 to <= 30%	I	C	This measurement provides a distribution of the transmitted power available for HSDPA users as a ratio of the total cell power: HSDPA Available power Distribution > 20 to <= 30%.	S
RF_HsAvailPowerRatio_LE40	UtranCell	RF Hs Avail Power Ratio	> 30 to <= 40%	I	C	This measurement provides a distribution of the transmitted power available for HSDPA users as a ratio of the total cell power:	S

						HSDPA Available power Distribution > 30 to <= 40%.	
RF_HsAvail PowerRatio_LE50	UtranCell	RF Hs Avail Power Ratio	> 40 to <= 50%	I	C	This measurement provides a distribution of the transmitted power available for HSDPA users as a ratio of the total cell power: HSDPA Available power Distribution > 40 to <= 50%.	S
RF_HsAvail PowerRatio_LE60	UtranCell	RF Hs Avail Power Ratio	> 50 to <= 60%	I	C	This measurement provides a distribution of the transmitted power available for HSDPA users as a ratio of the total cell power: HSDPA Available power Distribution > 50 to <= 60%.	S
RF_HsAvail PowerRatio_LE70	UtranCell	RF Hs Avail Power Ratio	> 60 to <= 70%	I	C	This measurement provides a distribution of the transmitted power available for HSDPA users as a ratio of the total cell power: HSDPA Available power Distribution > 60 to <= 70%.	S
RF_HsAvail PowerRatio_LE80	UtranCell	RF Hs Avail Power Ratio	> 70 to <= 80%	I	C	This measurement provides a distribution of the transmitted power available for HSDPA users as a ratio of the total cell power: HSDPA Available power Distribution > 70 to <= 80%.	S
RF_HsAvail PowerRatio_LE90	UtranCell	RF Hs Avail Power Ratio	> 80 to <= 90%	I	C	This measurement provides a distribution of the transmitted power available for HSDPA users as a ratio of the total cell power: HSDPA Available power Distribution > 80 to <= 90%.	S
RF_HsAvail PowerRatio_LE100	UtranCell	RF Hs Avail Power Ratio	> 90 to <= 100%	I	C	This measurement provides a distribution of the transmitted power available for HSDPA users as a ratio of the total cell power: HSDPA Available power Distribution > 90 to <= 100%.	S
RF_HsGbr CodeRatio_LE10	UtranCell	RF Hs Gbr Code Ratio	>= 0 to <= 10%	I	C	This measurement provides a distribution of the ratio of number of SF16 codes used to schedule GBR users to the total number of HS-PDSCH codes available. HSDPA codes used for GBR to Available HSDPA codes Distribution: >= 0 to <= 10%.	S
RF_HsGbr CodeRatio_LE20	UtranCell	RF Hs Gbr Code Ratio	> 10 to <= 20%	I	C	This measurement provides a distribution of the ratio of number of SF16 codes used to schedule GBR users to the total number of HS-PDSCH codes available. HSDPA codes used for GBR to Available HSDPA codes Distribution: > 10 to	S

						<= 20%.	
RF_HsGbrCodeRatio_LE30	UtranCell	RF Hs Gbr Code Ratio	> 20 to <= 30%	I	C	This measurement provides a distribution of the ratio of number of SF16 codes used to schedule GBR users to the total number of HS-PDSCH codes available. HSDPA codes used for GBR to Available HSDPA codes Distribution: > 20 to <= 30%.	S
RF_HsGbrCodeRatio_LE40	UtranCell	RF Hs Gbr Code Ratio	> 30 to <= 40%	I	C	This measurement provides a distribution of the ratio of number of SF16 codes used to schedule GBR users to the total number of HS-PDSCH codes available. HSDPA codes used for GBR to Available HSDPA codes Distribution: > 30 to <= 40%.	S
RF_HsGbrCodeRatio_LE50	UtranCell	RF Hs Gbr Code Ratio	> 40 to <= 50%	I	C	This measurement provides a distribution of the ratio of number of SF16 codes used to schedule GBR users to the total number of HS-PDSCH codes available. HSDPA codes used for GBR to Available HSDPA codes Distribution: > 40 to <= 50%.	S
RF_HsGbrCodeRatio_LE60	UtranCell	RF Hs Gbr Code Ratio	> 50 to <= 60%	I	C	This measurement provides a distribution of the ratio of number of SF16 codes used to schedule GBR users to the total number of HS-PDSCH codes available. HSDPA codes used for GBR to Available HSDPA codes Distribution: > 50 to <= 60%.	S
RF_HsGbrCodeRatio_LE70	UtranCell	RF Hs Gbr Code Ratio	> 60 to <= 70%	I	C	This measurement provides a distribution of the ratio of number of SF16 codes used to schedule GBR users to the total number of HS-PDSCH codes available. HSDPA codes used for GBR to Available HSDPA codes Distribution: > 60 to <= 70%.	S
RF_HsGbrCodeRatio_LE80	UtranCell	RF Hs Gbr Code Ratio	> 70 to <= 80%	I	C	This measurement provides a distribution of the ratio of number of SF16 codes used to schedule GBR users to the total number of HS-PDSCH codes available. HSDPA codes used for GBR to Available HSDPA codes Distribution: > 70 to <= 80%.	S
RF_HsGbrCodeRatio_LE90	UtranCell	RF Hs Gbr Code	> 80 to <= 90%	I	C	This measurement provides a distribution of the ratio of number of SF16 codes used	S

		Ratio				to schedule GBR users to the total number of HS-PDSCH codes available. HSDPA codes used for GBR to Available HSDPA codes Distribution: > 80 to <= 90%.	
RF_HsGbrCodeRatio_LE100	UtranCell	RF Hs Gbr Code Ratio	> 90 to <= 100%	I	C	This measurement provides a distribution of the ratio of number of SF16 codes used to schedule GBR users to the total number of HS-PDSCH codes available. HSDPA codes used for GBR to Available HSDPA codes Distribution: > 90 to <= 100%.	S
RF_HsCodes_0	UtranCell	Avail HS SF16	HsCodes 0	I	C	This measurement provides a distribution of number of SF16 codes available in the cell for HS-PDSCH. Available HSDPA codes Distribution: HsCode0	S
RF_HsCodes_1	UtranCell	Avail HS SF16	HsCodes 1	I	C	This measurement provides a distribution of number of SF16 codes available in the cell for HS-PDSCH. Available HSDPA codes Distribution: HsCode1	S
RF_HsCodes_2	UtranCell	Avail HS SF16	HsCodes 2	I	C	This measurement provides a distribution of number of SF16 codes available in the cell for HS-PDSCH. Available HSDPA codes Distribution: HsCode2	S
RF_HsCodes_3	UtranCell	Avail HS SF16	HsCodes 3	I	C	This measurement provides a distribution of number of SF16 codes available in the cell for HS-PDSCH. Available HSDPA codes Distribution: HsCode3	S
RF_HsCodes_4	UtranCell	Avail HS SF16	HsCodes 4	I	C	This measurement provides a distribution of number of SF16 codes available in the cell for HS-PDSCH. Available HSDPA codes Distribution: HsCode4	S
RF_HsCodes_5	UtranCell	Avail HS SF16	HsCodes 5	I	C	This measurement provides a distribution of number of SF16 codes available in the cell for HS-PDSCH. Available HSDPA codes Distribution: HsCode5	S
RF_HsCodes_6	UtranCell	Avail HS SF16	HsCodes 6	I	C	This measurement provides a distribution of number of SF16 codes available in the cell for HS-PDSCH. Available HSDPA codes Distribution: HsCode6	S
RF_HsCodes_7	UtranCell	Avail HS SF16	HsCodes 7	I	C	This measurement provides a distribution of number of SF16 codes available in the cell for HS-PDSCH. Available HSDPA codes	S

						Distribution: HsCode7	
RF_HsCodes_8	UtranCell	Avail HS SF16	HsCodes 8	I	C	This measurement provides a distribution of number of SF16 codes available in the cell for HS-PDSCH. Available HSDPA codes Distribution: HsCode8	S
RF_HsCodes_9	UtranCell	Avail HS SF16	HsCodes 9	I	C	This measurement provides a distribution of number of SF16 codes available in the cell for HS-PDSCH. Available HSDPA codes Distribution: HsCode9	S
RF_HsCodes_10	UtranCell	Avail HS SF16	HsCodes 10	I	C	This measurement provides a distribution of number of SF16 codes available in the cell for HS-PDSCH. Available HSDPA codes Distribution: HsCode10	S
RF_HsCodes_11	UtranCell	Avail HS SF16	HsCodes 11	I	C	This measurement provides a distribution of number of SF16 codes available in the cell for HS-PDSCH. Available HSDPA codes Distribution: HsCode11	S
RF_HsCodes_12	UtranCell	Avail HS SF16	HsCodes 12	I	C	This measurement provides a distribution of number of SF16 codes available in the cell for HS-PDSCH. Available HSDPA codes Distribution: HsCode12	S
RF_HsCodes_13	UtranCell	Avail HS SF16	HsCodes 13	I	C	This measurement provides a distribution of number of SF16 codes available in the cell for HS-PDSCH. Available HSDPA codes Distribution: HsCode13	S
RF_HsCodes_14	UtranCell	Avail HS SF16	HsCodes 14	I	C	This measurement provides a distribution of number of SF16 codes available in the cell for HS-PDSCH. Available HSDPA codes Distribution: HsCode14	S
RF_HsCodes_15	UtranCell	Avail HS SF16	HsCodes 15	I	C	This measurement provides a distribution of number of SF16 codes available in the cell for HS-PDSCH. Available HSDPA codes Distribution: HsCode15	S
MAC_FlowInd_HS_GbrFailed	UtranCell	MAC Flow Ind HS	GBR Fail	I	C	This measurement provides the number of 1 second periods where HSDPA flows fail the GBR, because (GBR * sample period) > credited bits.	S
MAC_FlowInd_HS_GbrFulfilled	UtranCell	MAC Flow Ind HS	GBR Fulfill	I	C	This measurement provides the number of 1 second periods where HSDPA flows fulfill the GBR.	S
DataRate_PS128DL_Avg	RNC	Data Rate PS RAB	DL 128kbps Avg	F	C	Data Rate for PS RABs with DL 128 kbps. This peg provides Average aggregation for the measurement.	A

DataRate_P S128DL_Max	RNC	Data Rate PS RAB	DL 128kbps Max	F	C	Data Rate for PS RABs with DL 128 kbps. This peg provides Maximum aggregation for the measurement.	C
DataRate_P S128DL_SumMax	RNC	Data Rate PS RAB	DL 128kbps SumMax	F	C	Data Rate for PS RABs with DL 128 kbps. This peg provides Sum across time and Maximum across elements aggregation for the measurement.	K
DataRate_P S128UL_Avg	RNC	Data Rate PS RAB	UL 128kbps Avg	F	C	Data Rate for PS RABs with UL 128 kbps. This peg provides Average aggregation for the measurement.	A
DataRate_P S128UL_Max	RNC	Data Rate PS RAB	UL 128kbps Max	F	C	Data Rate for PS RABs with UL 128 kbps. This peg provides Maximum aggregation for the measurement.	C
DataRate_P S128UL_SumMax	RNC	Data Rate PS RAB	UL 128kbps SumMax	F	C	Data Rate for PS RABs with UL 128 kbps. This peg provides Sum across time and Maximum across elements aggregation for the measurement.	K
DataRate_P S16DL_Avg	RNC	Data Rate	PS RABs DL 16k Avg	F	C	Data Rate for PS RABs with DL 16 kbps. This peg provides Average aggregation for the measurement.	A
DataRate_P S16DL_Max	RNC	Data Rate	PS RABs DL 16k Max	F	C	Data Rate for PS RABs with DL 16 kbps. This peg provides Maximum aggregation for the measurement.	C
DataRate_P S16DL_SumMax	RNC	Data Rate	PS RABs DL 16k SumMax	F	C	Data Rate for PS RABs with DL 16 kbps. This peg provides Sum across time and Maximum across elements aggregation for the measurement.	K
DataRate_P S16UL_Avg	RNC	Data Rate	PS RABs UL 16k Avg	F	C	Data Rate for PS RABs with UL 16 kbps. This peg provides Average aggregation for the measurement.	A
DataRate_P S16UL_Max	RNC	Data Rate	PS RABs UL 16k Max	F	C	Data Rate for PS RABs with UL 16 kbps. This peg provides Maximum aggregation for the measurement.	C
DataRate_P S16UL_SumMax	RNC	Data Rate	PS RABs UL 16k SumMax	F	C	Data Rate for PS RABs with UL 16 kbps. This peg provides Sum across time and Maximum across elements aggregation for the measurement.	K
DataRate_P S32DL_Avg	RNC	Data Rate PS RAB	DL 32kbps Avg	F	C	Data Rate for PS RABs with DL 32 kbps. This peg provides Average aggregation for the measurement.	A

DataRate_P S32DL_Max	RNC	Data Rate PS RAB	DL 32kbps Max	F	C	Data Rate for PS RABs with DL 32 kbps. This peg provides Maximum aggregation for the measurement.	C
DataRate_P S32DL_SumMax	RNC	Data Rate PS RAB	DL 32kbps SumMax	F	C	Data Rate for PS RABs with DL 32 kbps. This peg provides Sum across time and Maximum across elements aggregation for the measurement.	K
DataRate_P S32UL_Avg	RNC	Data Rate PS RAB	UL 32kbps Avg	F	C	Data Rate for PS RABs with UL 32 kbps. This peg provides Average aggregation for the measurement.	A
DataRate_P S32UL_Max	RNC	Data Rate PS RAB	UL 32kbps Max	F	C	Data Rate for PS RABs with UL 32 kbps. This peg provides Maximum aggregation for the measurement.	C
DataRate_P S32UL_SumMax	RNC	Data Rate PS RAB	UL 32kbps SumMax	F	C	Data Rate for PS RABs with UL 32 kbps. This peg provides Sum across time and Maximum across elements aggregation for the measurement.	K
DataRate_P S384DL_Avg	RNC	Data Rate PS RAB	DL 384kbps Avg	F	C	Data Rate for PS RABs with DL 384 kbps. This peg provides Average aggregation for the measurement.	A
DataRate_P S384DL_Max	RNC	Data Rate PS RAB	DL 384kbps Max	F	C	Data Rate for PS RABs with DL 384 kbps. This peg provides Maximum aggregation for the measurement.	C
DataRate_P S384DL_SumMax	RNC	Data Rate PS RAB	DL 384kbps SumMax	F	C	Data Rate for PS RABs with DL 384 kbps. This peg provides Sum across time and Maximum across elements aggregation for the measurement.	K
DataRate_P S384UL_Avg	RNC	Data Rate	PS RABs UL 384k Avg	F	C	Data Rate for PS RABs with UL 384 kbps. This peg provides Average aggregation for the measurement.	A
DataRate_P S384UL_Max	RNC	Data Rate	PS RABs UL 384k Max	F	C	Data Rate for PS RABs with UL 384 kbps. This peg provides Maximum aggregation for the measurement.	C
DataRate_P S384UL_SumMax	RNC	Data Rate	PS RABs UL 384k SumMax	F	C	Data Rate for PS RABs with UL 384 kbps. This peg provides Sum across time and Maximum across elements aggregation for the measurement.	K

The aggregator type for the counters as below is changed.

Prospect	Entity	Heading	Heading	Datatype	Field Type	Description	Aggre
----------	--------	---------	---------	----------	------------	-------------	-------

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Field Name	Name	Line 1	Line 2				gator
DataRate_P S16DL	RNC	Data Rate	PS RABs DL 16k	F	C	Data Rate for PS RABs with DL 16 kbps	S
DataRate_P S16UL	RNC	Data Rate	PS RABs UL 16k	F	C	Data Rate for PS RABs with UL 16 kbps	S
DataRate_P S384UL	RNC	Data Rate	PS RABs UL 384k	F	C	Data Rate for PS RABs with UL 384 kbps	S

4 Resolved Issue

Following is a list of problems present in the previous release that have been resolved

<i>DDTS / SRS</i>	<i>Sev</i>	<i>Description</i>
SEAd69143/PMR 43111	3	Incorrect aggregation for Lucent UMTS field. The fields DataRate_PS384UL and DataRate_PS384DL are complementary uplink and downlink rate counters. The DataRate_PS384DL field sums overtime and element. The DataRate_PS384UL averages over time and element, but it should sum like the downlink field.
SEAd69083/PMR43 633/APAR IZ15198	2	Lucent RP8 upgrade – ORA-01440 on table LU_TF_U_RNC_UCELL(n)_DBH during SEAd66674 fix
valnt00041837/ PMR43553,499,000/ APAR IZ23396	3	REPORT FAILED: EXCEPTION : [SERVERERROR] ORA-01455: CONVERTING COLUMN OVERFLOWS INTEGER DATATYPE

5 Known Problems

Please refer to the release notes for LucentUMTS RP8 (5.0.8.0.0) for known issues

6 Upgrade Instructions

6.1 Prerequisites

This release requires a Prospect system running LucentUMTS RP8 Patch 10 (5.0.8.0.10)

6.1.1 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.

6.1.2 Disk Space and Table Space Requirements

The installation of the patch requires additional 15 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.

6.1.3 XDK

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

```
$ sqlplus $DB_CONNECT
```

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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

6.1.4 Perl Version

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

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

The first line of the output should start with:

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

If the installed version is earlier than required, some scripts might not run, or might produce incorrect results.

6.1.5 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
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 the installed version is earlier than required, some scripts might not run, or might produce incorrect results.

6.1.6 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
```

```
$ <- setting should be empty
```

6.1.7 Baseline Requirements

The base environment that this release will be applied against:

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- Prospect® 8.0 for Lucent UMTS 5.0.8.0.0 base release (either a fresh install or an upgrade from an earlier release)
- Prospect® 8.0 for Lucent UMTS 5.0.8.0.1 counter bundle release
- Prospect® 8.0 for Lucent UMTS 5.0.8.0.10 patch release

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

```
$ show_installed
```

This will produce output similar to the following:

```

COMPONENT                                INSTALL_TY  INSTALL_DATE
-----
CORE Prospect rev 8.0.4.1 b5              INSTALL    08-JAN-29 16:04:14
CORE Prospect rev 8.0.4.wmload b4         PATCH      08-JAN-14 17:39:57
VENDOR LuUTRAN rev 5.0.8.0.10 b1        UPGRADE   08-JAN-29 16:09:36
VENDOR LuUMTS_SGSN rev 5.0.8.0.1 b1       UPGRADE    08-JAN-29 16:12:43
VENDOR LucComExtra rev 5.0.8.0.0 b3       UPGRADE    08-JAN-29 16:19:41
VENDOR LuUMTS_CS rev 5.0.8.0.0 b3        INSTALL   08-JAN-29 17:05:41

```

The versions (*rev*) of CORE Prospect and VENDOR module must be greater than or equal to those shown. The build number (*b3*) 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.

6.2 Installation Privileges Required

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

6.3 Pre-Installation Instructions

6.3.1 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.

6.3.2 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.

6.3.3 Note Partition Maintenance Settings

During the upgrade a number of new tables may have been added to the Prospect system. Before the upgrade, run `past_part_maint.sh` to get a list of the current data retention settings.

6.3.4 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
```

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.

6.4 Installation Instructions

1. 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/5.1.8.0-TIV-PROSPECT-LUUMTS-IF0020
```

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2. cd to the staging directory


```
$ cd /var/tmp/5.1.8.0-TIV-PROSPECT-LUUMTS-IF0020
```
3. Untar the TAR package using the following command:


```
$ tar -xvf 5.1.8.0-TIV-PROSPECT-LUUMTS-IF0020.tar
```
4. 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.
5. Log in as user flexpm.
6. Stop the middleware if it is running


```
$ ps-mgr stop all
$ ps-mgr halt
```
7. Run the installation tool with PREVIEW option by typing the following command and examine the output for any abnormal messages. 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 -preview -v
```

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

```
+-----+
| Vendor Tarball   :
|   Module - LuUTRAN, version - 5.1.8.0.20.3 : All prerequisites met
|   FlexPM-LuUTRAN_518020.tgz       : UPGRADE - VENDOR - 5.1.8.0.20.3
+-----+
| Vendor Tarball   :
|   Module - LuUMTS_CS, version - 5.1.8.0.20.3 : All prerequisites met
|   FlexPM-LuUMTS_CS_518020.tgz     : UPGRADE - VENDOR - 5.1.8.0.20.3
+-----+
```

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
```

9. 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.
```

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6.5 Post-Installation Instructions

6.5.1 Resource the Profile

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

6.5.2 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:

```
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);
```

6.5.3 Installed Version Verification

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

The following registered entries will be updated and shown as:-

COMPONENT	INSTALL_TY	INSTALL_DATE

"		
"		
VENDOR LuUTRAN rev 5.1.8.0.20 b3	UPGRADE	08-APR-22 15:04:59
VENDOR LuUMTS_CS rev 5.1.8.0.20 b3	UPGRADE	08-APR-22 15:11:49

The `VENDOR` modules for `LuUTRAN` and `LuUMTS_CS` should be at `5.1.8.0.20 b3`.

Note: 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.

6.5.4 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 Middleware

```
$ ps-mgr init
```

6.5.5 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 6.3.2.

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

6.5.6 Check partition settings

Run `past_part_maint.sh` to check current data retention settings. Run `past_part_maint.sh` to update the settings for newly added tables based on the values recorded in Section 6.3.3 for the following table types:

```
past_part_maint.sh traffic x
past_part_maint.sh sSUMDaily x
past_part_maint.sh sSUMWeekly x
past_part_maint.sh sSUMMonthly x
past_part_maint.sh sBHDaily x
```

6.5.7 Enable Datasource in Prospect Web

If this Prospect system is associated with a Prospect Web system and you disabled the datasource in section 6.4 step 1, then use the Prospect Web Administration Tool to enable the datasource with this Prospect system.

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

7 Useful Hints

7.1 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.

7.2 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.

7.3 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
```

8 Customer Support

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

9 Manifest

Please refer to manifest.txt in the staging directory.

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