

Oracle® Communications Diameter Signaling Router Release Notice



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Oracle Communications Diameter Signaling Router Release Notice, Release 8.5.X

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What's New in this Guide

This section introduces the documentation updates for Release 8.5.0.2.0 in Oracle Communications Diameter Signaling Router (DSR) Release Notes.

The following sections are updated in Release 8.5.0.2.0:

- [Feature Descriptions](#): Added new features supported in this release.
- [Documentation Pack](#): Updated the list of documents.
- [Supported Upgrade Paths](#): Added new upgrade paths for this release.
- [Resolved Bug List](#): Added new resolved bugs in this release.
- [Customer Known Bug List](#): Added 32911957 bug.

The following sections are updated in Release 8.5.0.1.0:

- [Media Pack](#): Updated the Automated Test Suite part number.
- [Feature Descriptions](#): Added new features supported in this release.
- [Documentation Pack](#): Updated the list of documents.
- [Supported Upgrade Paths](#): Added new upgrade paths for this release.
- [Resolved Bug List](#): Added new resolved bugs in this release.
- [Customer Known Bug List](#): Added the following vSTP bugs: 32672994, 32573278, and 31983406.

The following sections is updated in Release 8.5.0.0.1:

- [Resolved Bug List](#): Added new resolved bugs.

The following sections are updated in Release 8.5:

- [Feature Descriptions](#): Added a new DSR feature information.
- [Supported Upgrade Paths](#): Updated the supported upgrade path for DRS, SDS, and IDIH.
- [Resolved Bug List](#): Added a new resolved bug.

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1. Select **2** for New Service Request.
2. Select **3** for Hardware, Networking and Solaris Operating System Support.
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 - For Technical issues such as creating a new Service Request (SR), select **1**.
 - For Non-technical issues such as registration or assistance with My Oracle Support, select **2**.

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1

Introduction

This Release Notice includes feature descriptions, supported hardware baseline, and media and documentation pack contents, and identifies the supported upgrade paths. This document includes listings for both the resolved and known bugs for this release. Directions for accessing key Oracle sites and services are also identified in the Oracle References and Services chapter.

Release Notices are included in the documentation pack made available with every software release.

DSR Overview

Oracle Communications Diameter Signaling Router (DSR) helps communications service providers monetize their network more efficiently to remain competitive in the market. It creates a centralized and secure signaling architecture that enables core networks to grow incrementally and to support increasing service and traffic demands. The distinctive advantages provided by the Oracle Communications Diameter Signaling Router are network scalability, resiliency, interoperability, and security, as well as network visibility. The cloud deployable Oracle Communications Diameter Signaling Router enables service providers to manage Diameter signaling while optimizing network resources, therefore maximizing the return on network and technology investments.

Disclaimer

Before installing third-party software on the same server with Oracle products, for example, DSR, PCRF, UDR, PIC, EAGLE, and so on, you must be aware of the following information:

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- Oracle Support may require that the customer uninstall the non-Oracle software and reinstall Oracle products, for example, DSR, PCRF, UDR, PIC, EAGLE, and so on, to recover the system to address any field issue.

2

Feature Descriptions

This chapter provides a summary of each feature released in DSR release 8.5.0.1.

Release 8.5.0.2.0

DSR

No new features for this release.

vSTP

The following vSTP feature is implemented in release 8.5.0.2.0:

- **vSTP IPv6 Support:** Both IPv4 and IPv6 addresses are supported in IP configuration of local and remote hosts for Signaling links. For more information, see *Oracle Communications Diameter Signaling Router Virtual Signaling Transfer Point User's Guide*

VNFM

The following VNFM features are implemented in release 5.2.0.0.0:

- **Segregation of OAM and Replication Traffic Support:** This feature supports separate network for OAM and Replication traffic. For more information, see *Oracle Communications Virtual Network Functions Manager Installation and User Guide*.
- **IPFE and Service Mp Scale from Sizing 0:** This feature supports scale from sizing 0 for IPFE and Service Mp VMs. For more information, see *Oracle Communications Virtual Network Functions Manager Installation and User Guide*.
- **vSTP Service MP deployment:** VNFM deploys the Service MP along with vSTP-MP only. This is an optional feature. For more information, see *Oracle Communications Virtual Network Functions Manager Installation and User Guide*.

SCEF

The following SCEF features are implemented in release 8.5.0.2.0:

- **Support of External Group ID for NIDD:** The group Message Delivery feature allows an SCS/AS to deliver a payload to a group of UEs. SCEF supports group message delivery for a group of UEs which are part of the same External Group ID. For more information, see *Oracle® Communications Diameter Signaling Router Service Capability Exposure Function User's Guide*.
- **Support of External Group ID for ME:** SCEF supports Monitoring Events using External Group Identifier. SCEF also support monitoring of multiple/group of UE's procedures. For more information, see *Oracle® Communications Diameter Signaling Router Service Capability Exposure Function User's Guide*.

Release 8.5.0.1.0

DSR

The following DSR features are implemented in release 8.5.0.1.0:

- Mobile Private Network (MPN) vDRA: This feature aggregates Diameter and RADIUS traffic from external gateways towards appropriate Diameter and RADIUS peers. External gateways are palced on an automated process through provisioning portals. For more information, see the following guides:
 - *Oracle Communications Diameter Signaling Router Feature Guide*
 - *Oracle Communications Diameter Signaling Router Diameter User's Guide*
 - *Oracle Communications Diameter Signaling Router RADIUS User's Guide*
 - *Oracle Communications Diameter Signaling Router Alarms and KPIs Reference Guide*
 - *Oracle Communications Diameter Signaling Router Measurements Reference Guide*
- Mission Critical Push to Talk (MCPTT) Rx Gateway: The Rx ShUDR (Rx Gateway MCPTT) application enables the Push to Talk service using the DCA framework. For more information, see the following guides:
 - *Oracle Communications Diameter Signaling Router Feature Guide*
 - *Oracle Communications Diameter Signaling Router Rx ShUDR Application User Guide*
- Diameter Security Application (DSA) with Session Integrity Validation Check (SIVC): This feature facilitates GPRS Tunnelling Protocol - Core (GTP - C) signaling fraud detection based on the subscriber location information for an outbound roaming subscriber. It scans the 3GPP-Gx-CCR-I message of outbound roaming subscribers to check whether a Update Location Request (ULR) message corresponding to the Credit Control Request - Initial (CCR-I) message is present in UDR DB or not. For more information, see the following guides:
 - *Oracle Communications Diameter Signaling Router Feature Guide*
 - *Oracle Communications Diameter Security Application User's Guide with UDR*

vSTP

The following vSTP features are implemented in release 8.5.0.1.0:

- vSTP eLynx TDM card support: Starting with this release, the Time Division Multiplexing (TDM) over vSTP supports signal transmission over the eLynx Card. For more information, see *Oracle Communications Diameter Signaling Router Virtual Signaling Transfer Point User's Guide*
- vSTP Home SMS Routing: With this release, vSTP provides an enhanced capability to address spoofing and spamming issues using the Home SMS Routing. This functionality enables operators to route all the MO and MT SMS through an SMS proxy service located in the HPLMN of the receiving MS. The service provides an SMS signaling FW that analyzes MO and MT packets before

submitting or delivering them. For more information, see *Oracle Communications Diameter Signaling Router vSTP SS7 Security User's Guide*.

- vSTP Max and Reserved Link TPS: vSTP supports Reserved link TPS and Maximum link TPS parameters. The Reserved link TPS is a reserved bandwidth for specific link and the Max link TPS is MAX limit for the link. For more information, see *Oracle Communications Diameter Signaling Router Virtual Signaling Transfer Point User's Guide*.
- vSTP Multi-component TCAP message security: The Multi-component TCAP message security feature provides additional capability to the existing TCAP Opcode Based Routing (TOBR) functionality. This feature enables the MSU being processed under the GTT Set of type OPCODE to check for the presence of multiple MAP operations in the same message. For more information, see *Oracle Communications Diameter Signaling Router vSTP SS7 Security User's Guide*.
- vSTP Reassembly error for SCCP XUDT message: This feature enhances the vSTP screening capability of SCCP XUDT segmented messages by checking the length of the first segment and based on it a decision can be made to drop or allow the packet into the network. vSTP can discard reassembly procedure if the length of the first segmented MSU is less than configured length. For more information, see *Oracle Communications Diameter Signaling Router vSTP SS7 Security User's Guide*.
- vSTP SCTP Firewall Enhancements: With this release, vSTP enables operators to configure the Linux firewall to allow desired signaling network traffic on vSTP-MPs. This feature provides capability to dynamically update the Linux firewall configuration on vSTP-MPs to allow or restrict signaling traffic. For more information, see *Oracle Communications Diameter Signaling Router vSTP SS7 Security User's Guide*.
- vSTP TCAP Decoding Enhancement: vSTP provides the functionality to filter the ITU messages in case of any additional octets present in the TCAP layer. For more information, see *Oracle Communications Diameter Signaling Router Virtual Signaling Transfer Point User's Guide*.
- vSTP Test Mode for GTT actions: vSTP provides the functionality to test the set of rules applied in SS7 network to block unauthorized traffic. This feature provides a detection mode, which raises an event for the MSU that encounters the GTT action and skips all the GTT actions included in that set. This helps identify all traffic that is discarded/copied/forwarded while the rule is active. For more information, see *Oracle Communications Diameter Signaling Router Virtual Signaling Transfer Point User's Guide*.
- vSTP TIF Enhancements: The TIF functionality has been enhanced with the support for Linkset, Generic Number, and Redirecting Number based Blocklisting in vSTP for ISUP traffic. For more information, see *Oracle Communications Diameter Signaling Router TIF User's Guide*.

VNFM

The following VNFM features are implemented in release 5.1.0.0.0:

- Operate VNF: This feature changes the operational state of a VNF instance, including starting and stopping the VNF instance. For more information, see *Oracle Communications Virtual Network Functions Manager Installation and User Guide*.
- Heal VNFM: This feature is a resource for healing a VNFc instance. For more information, see *Oracle Communications Virtual Network Functions Manager Installation and User Guide*.
- Custom Size vDSR Instantiation: This feature enables instantiation of custom number of VNFc for DSR signaling and SDS signaling VNFs. For more information, see *Oracle Communications Virtual Network Functions Manager Installation and User Guide*.

- Dual IP stack support for Diameter+SBR flavor through VNF: This feature supports Dual IP Stack deployment and the existing single IP deployment model. For more information, see *Oracle Communications Virtual Network Functions Manager Installation and User Guide*.

SCEF

No new SCEF features.

Release 8.5.0.0.1

No new features for this release.

Release 8.5.0.0.0

DSR

The following DSR features are implemented in release 8.5.0.0.0:

- Support for the large vDAMP profile (35K MPS) on OL7 and KVM 1.5.3.
- Support for Visualization with Common Security Dashboard.
- Zero Balance Application (ZBA) and Steering of Roaming (SoR) to support UDR instead of USBR.
- Support for Service Based Interface.
- The var partition size is increased from 1 GB to 2 GB only on DSR systems.

vSTP

The following vSTP features are implemented in release 8.5.0.0.0:

- vSTP Accounting Measurements.
- Multiple Linksets and Routes Support.
- ELK integration with Security Dashboard for Monitoring and Logging of security analytics.
- vSTP G-Flex Feature Support.

VNFM

The following VNFM features are implemented in release 5.0.0.0.0:

- Support for vDSR scaling
- Support for APIGW with the new DB VMs
- Modify VNF Information Operation
- Cloud-init to ensure that DA-MP is not instantiated before SOAM

SCEF

The following SCEF features are implemented in release 8.5.0.0.0:

- Integrated Diameter Intelligence Hub 8.3.2 (IDIH) support has been added for SCEF Diameter interfaces.
- SCEF Monitoring Location Area configuration includes the TRACKING AREA ID and ROUTING AREA ID information to support the RAC/TAC range.

 **Note:**

When a DSR with SCEF application enabled is upgraded from any earlier version to DSR 8.5 or later, then the existing MMI configuration records for /scef/monitoringlocationareas/ is deleted after the upgrade due to the change in the schema information.

- Support for Device Status Query Troubleshooting Application Program Interface (API) to retrieve and delete IP and Non-IP data corresponding to a device from SCEF.

DSR Deprecated/Obsolete Software (Bug 28224086)

The following features are deprecated from 8.4.0.5 and later:

- DSA with USBR
- ZBA with USBR
- SOR with USBR

The following software elements are not compatible with DSR 8.4 and later:

- DAMP Active-Standby Configuration
- GLA
- MAP Diameter Interworking

Virtualized Engineered DSR (VEDSR) deployment, also known as TVOE based Fully Virtualized Rack Mount Server (FV RMS) Signaling node, is not supported from DSR 8.3 and later. The following are the non-supported network elements of Virtualized Engineered DSR (VEDSR):

- DSR NOAM,
- DSR SOAM,
- DSR Message Processors (MP),
- SS7 MP,
- DSR IPFE,
- DSR SBR (Session/Binding/Universal),
- SDS NOAM,
- SDS SOAM,
- SDS QS,

- SDS DP



Note:

DSR and SDS BareMetal Installations with TVOE based NOAM/SOAM will continue to be supported.

Virtualized Engineered DSR (VEDSR) networks and associated elements need to be migrated to virtual DSR implementation based on KVM with/without OpenStack or VMware prior to DSR 8.3 or 8.4.x upgrade or install.

3

Media and Documentation

Oracle Communications software is available for electronic download on the Oracle Software Delivery Cloud (OSDC). Documentation is delivered electronically on the Oracle Help Center (OHC). Both the software Media Pack and Documentation Pack are listed in this chapter.

Media Pack

All components available for download from the Oracle Software Delivery Cloud (<https://edelivery.oracle.com/>) are in the following Media Pack contents tables.

**Note:**

This list is accurate at the time of release but is subject to change. See the Oracle software delivery website for the latest information.

DSR Release 8.5.0.2.0

Table 3-1 Media Pack Contents for DSR 8.5.0.2.0

Part Number	Description
V1017455-01	Oracle Communications Diameter Signaling Router 8.5.0.2.0-92.8.0 ISO image
V1017456-01	Oracle Communications Diameter Signaling Router 8.5.0.2.0-92.8.0 OVA image
V1017448-01	Oracle Communications Diameter Signaling Router, Full Address Resolution 8.5.0.2.0-92.8.0 ISO image
V1017449-01	Oracle Communications Diameter Signaling Router, Full Address Resolution 8.5.0.2.0-92.8.0 OVA image
V1017478-01	Oracle Communications Diameter Signaling Router Application Programming Interface Gateway 8.5.0.2.0-92.8.0 ISO image
V1017479-01	Oracle Communications Diameter Signaling Router Application Programming Interface Gateway 8.5.0.2.0-92.8.0 OVA image
V1017480-01	Oracle Communications Diameter Signaling Router Application Programming Interface Gateway MySQL NDB Cluster 7.6.8
V1017481-01	Oracle Communications Diameter Signaling Router Automated Test Suite (ATS) 8.5.0.2.0-1.0.0
V1017469-01	Oracle Communications Diameter Signaling Router Diameter Security Application 8.5.0.2.0-92.8.0
V1017471-01	Oracle Communications Diameter Signaling Router Rx ShUDR 8.5.0.2.0-92.8.0
V1017470-01	Oracle Communications Diameter Signaling Router Steering Of Roaming Application 8.5.0.2.0-92.8.0

Table 3-1 (Cont.) Media Pack Contents for DSR 8.5.0.2.0

Part Number	Description
V1017459-01	Oracle Communications Diameter Signaling Router Zero Balance Application 8.5.0.2.0-92.8.0
V1017451-01	Oracle Communications Diameter Signaling Router Virtual Network Functions Manager 5.2.0.0.0-52.9.0 QCOW2 image
V1017450-01	Oracle Communications Diameter Signaling Router Virtual Network Functions Manager Artifacts 5.2.0.0.0-52.9.0
V1017452-01	Oracle Communications User Data Repository 12.6.2.0.0-18.14.0 ISO image
V1017453-01	Oracle Communications User Data Repository 12.6.2.0.0-18.14.0 OVA image
V1017486-01	Oracle Communications User Data Repository Provisioning Gateway 12.6.2.0.0-1.0.0 QCOW2 image
V1017454-01	Oracle Communications Diameter Signaling Router 8.5.0.2.0-92.8.0 MIBS
V1011553-01	Oracle Communications Tekelec Platform Distribution 7.8.0.0.0-89.5.0
V1017438-01	Oracle Communications Tekelec Platform Distribution 7.8.0.0.0-89.8.1

DSR Release 8.5.0.1.0

Table 3-2 Media Pack Contents for DSR 8.5.0.1.0

Part Number	Description
V1008884-01	Oracle Communications Diameter Signaling Router 8.5.0.1.0-91.17.0 ISO image
V1008885-01	Oracle Communications Diameter Signaling Router 8.5.0.1.0-91.17.0 OVA image
V1008891-01	Oracle Communications Diameter Signaling Router, Full Address Resolution 8.5.0.1.0-91.17.0 ISO image
V1008892-01	Oracle Communications Diameter Signaling Router, Full Address Resolution 8.5.0.1.0-91.17.0 OVA image
V1008897-01	Oracle Communications Diameter Signaling Router Application Programming Interface Gateway 8.5.0.1.0-91.17.0 ISO image
V1008898-01	Oracle Communications Diameter Signaling Router Application Programming Interface Gateway 8.5.0.1.0-91.17.0 OVA image
V1007215-01	Oracle Communications Diameter Signaling Router Application Programming Interface Gateway MySQL NDB Cluster 7.6.8
V1009652-01	Oracle Communications Diameter Signaling Router Automated Test Suite (ATS) 8.5.0.1.0-1.0.13
V1008886-01	Oracle Communications Diameter Signaling Router Diameter Security Application 8.5.0.1.0-91.17.0
V1008888-01	Oracle Communications Diameter Signaling Router Steering Of Roaming Application 8.5.0.1.0-91.17.0
V1008887-01	Oracle Communications Diameter Signaling Router Zero Balance Application 8.5.0.1.0-91.17.0
V1008889-01	Oracle Communications Diameter Signaling Router Rx ShUDR Application 8.5.0.1.0-91.17.0

Table 3-2 (Cont.) Media Pack Contents for DSR 8.5.0.1.0

Part Number	Description
V1007209-01	Oracle Communications Diameter Signaling Router Virtual Network Function Manager 5.1.0.0.0_51.9.2
V1008890-01	Oracle Communications Diameter Signaling Router 8.5.0.1.0-91.17.0 MIBS
V1008895-01	Oracle Communications Tekelec Platform Distribution 7.7.1.0.0-88.75.0

DSR Release 8.5.0.0.1

No updates for this release.

DSR Release 8.5.0.0.0

Table 3-3 Media Pack Contents DSR 8.5.0.0.0

Part Number	Description
V1003525-01	Oracle Communications Diameter Signaling Router 8.5.0.0.0_90.11.0
V1003526-01	Oracle Communications Diameter Signaling Router 8.5.0.0.0_90.11.0 OVA
V1003528-01	Oracle Communications Diameter Signaling Router Automated Test Suite ATS- 8.5.0.0.0-1.0.0
V1003524-01	Oracle Communications Diameter Signaling Router Virtual Network Function Manager 5.0.0.0.0_50.5.0.qcow2
V1003515-01	Oracle Communications Diameter Signaling Router, Full Address Resolution 8.5.0.0.0_90.11.0
V1003516-01	Oracle Communications Diameter Signaling Router, Full Address Resolution 8.5.0.0.0_90.11.0.oVA OVA
V1003520-01	Oracle Communications User Data Repository 12.6.1.0.0_18.7.0 OVA
V1003530-01	Oracle Communications User Data Repository Provisioning Gateway 12.6.1.0.0_1.0.0
V1003519-01	Oracle Communications User Data Repository 12.6.1.0.0_18.7.0
V1003523-01	Oracle Communications Diameter Signaling Router Diameter Security Application 8.5.0.0.0_90.11.0
V1003517-01	Oracle Communications Diameter Signaling Router Application Programming Interface Gateway 8.5.0.0.0_90.11.0
V1003518-01	Oracle Communications Diameter Signaling Router Application Programming Interface Gateway 8.5.0.0.0_90.11.0-x86_64 OVA
V1003527-01	Oracle Communications Diameter Signaling Router Application Programming Interface Gateway Database 7.6.8 QCOW2

Load Line Up

DSR 8.5.0.2.0

DSR Release 8.5.0.2.0 contains the following components:

- Application Line Up
 - DSR: 8.5.0.2.0_92.8.0
 - SDS: 8.5.0.2.0_92.8.0
 - DSRAPIGW: 8.5.0.2.0_92.8.0
 - VNFM: 5.2.0.0.0_52.9.0
 - ATS: 8.5.0.0.0-1.0.0
- Platform Line Up
 - TPD: 7.8.0.0.0-89.8.1
 - TVOE: 3.6.2.0.0-88.58.0
 - PMAC: 6.6.1.0.0-66.9.0
 - Comcol: 7.5.0.34.0-14121
 - Appw: 9.3.0-93.8.0
 - Exgs: 9.3.0-93.8.0

DSR Release 8.5.0.1.0

DSR Release 8.5.0.1.0 contains the following components:

- Application Line Up
 - DSR: 8.5.0.1.0_91.17.0
 - SDS: 8.5.0.1.0_91.17.0
 - DSRAPIGW: 8.5.0.1.0_91.17.0
 - VNFM: 5.1.0.0.0_51.9.2
 - ATS: 8.5.0.1.0-1.0.13
- Platform Line Up
 - TPD: 7.7.1.0.0-88.75.0
 - TVOE: 3.6.2.0.0-88.58.0
 - PMAC: 6.6.1.0.0-66.9.0
 - Comcol: 7.5.0.30.0-14117
 - Appw: 9.2.0-92.12.0
 - Exgs: 9.2.0-92.13.0

DSR Release 8.5.0.0.1

No updates for this release.

DSR Release 8.5.0.0.0

DSR Release 8.5.0.0.0 contains the following components:

- Application Line Up
 - DSR: 8.5.0.0.0_90.11.0

- SDS: 8.5.0.0.0_90.11.0
- DSRAPIGW: 8.5.0.0.0_90.11.0
- VNFM: 5.0.0.0.0_50.5.0
- ATS 8.5.0.0.0-1.0.0
- UDR: 12.6.1.0.0_18.7.0
- Platform Line Up
 - TPD: 7.7.0.0.0-88.68.0
 - TVOE: 3.6.2.0.0-88.58.0
 - PMAC: 6.6.1.0.0-66.9.0
 - Comcol: 7.5.0.20.0-14027
 - Appw: 9.1.0-91.10.0
 - Exgs: 9.1.0-91.10.0

Documentation Pack

All documents available for download from the [Oracle Help Center \(OHC\)](#) site.

Table 3-4 Documentation Pack Contents

Release Notices and Licensing Information User Manuals Document Set
DSR 8.5 Release Notice
DSR 8.5 Licensing Information User Manual
DSR Planning, Installation, Upgrade, and Disaster Recovery Document Set
DSR Feature Guide
DSR Planning Guide
DSR C-Class Hardware and Software Installation Procedure 1/2
DSR C-Class Software Installation and Configuration Procedure 2/2
DSR Software Upgrade Guide
Rack Mount Server Installation Guide
Rack Mount Server Disaster Recovery Guide
Rack Mount Server Network Interconnect
DSR C-Class Disaster Recovery User's Guide
DSR/SDS Failover User's Guide
DCA Feature Activation Procedure
DTLS Feature Activation Procedure
FABR Feature Activation Procedure
Mediation Feature Activation Procedure
PCA Feature Activation Procedure
RBAR Feature Activation Procedure
SCEF Feature Activation Procedure
DSR Security App Using Mediation Example Procedure
DSR Network Impact Report
DSR Compliance Matrix
Zero Balance Application User's Guide

Table 3-4 (Cont.) Documentation Pack Contents

DSR VM Placement and CPU Socket Pinning Tool
DSR VNF HEAT Templates
DSR Security Guide
Diameter Security Application User's Guide with UDR
DSR Automated Test Suite (ATS) Installation and User Guide
Diameter Signaling Router Rx ShUDR Application User Guide
Cloud Installation and Upgrade Document Set
DSR Cloud Installation Guide
DSR Cloud Software Upgrade Guide
DSR Cloud Disaster Recovery Guide
DSR API Gateway Installation Guide
DSR API Gateway Disaster Recovery Guide
DSR VNFM Installation and User Guide
VNFM HEAT Templates
DSR Cloud Benchmarking Guide
SDS Cloud Installation Guide
SDS Cloud Disaster Recovery Guide
SDS Installation and Configuration Guide
SDS Software Upgrade Guide
SDS Disaster Recovery Guide
Diameter Signaling Router Core Document Set
Glossary
DSR Getting Started
Roadmap to Hardware Documentation Reference
Operation, Administration, and Maintenance (OAM) User's Guide
Diameter User's Guide
Mediation User's Guide
Policy Charging Application User's Guide
Subscriber Binding Repository (SBR) User's Guide
Measurements Reference
Alarms and KPIs Reference
Communication Agent User's Guide
Range Based Address Resolution (RBAR) User's Guide
Full Address Based Resolution (FABR) User's Guide
MMI API Specification
IP Front End (IPFE) User's Guide
SCEF User's Guide
SCEF - YAML Files
DSR SCEF Partner's User's Guide
Virtual Equipment Identity Register (vEIR) User's Guide
Mobile Number Portability (MNP) User's Guide
Diameter Common User's Guide
Diameter Custom Application (DCA) User's Guide

Table 3-4 (Cont.) Documentation Pack Contents

Diameter Custom Application (DCA) Programmer's Guide
Roaming Steering Application User's Guide
RADIUS User's Guide
Related Publications Reference
vSTP User's Manual
vSTP SS7 Security User's Guide
vSTP TDM Installation Manual
TIF User's Guide
Subscriber Data Server Document Set
SDS Getting Started
SDS User's Guide
SDS Provisioning Interface Guide
UDR Installation, Upgrade, and Disaster Recovery Document Set
UDR Cloud Installation and Configuration Guide
UDR Heat Templates
Provisioning Gateway Heat Templates
UDR Cloud Disaster Recovery Guide
UDR Software Upgrade Procedure
UDR Bulk Import/Export File Specification
UDR SOAP Provisioning Interface Specification
UDR REST Provisioning Interface Specification
Provisioning Gateway Installation Guide
Integrated Diameter Intelligence Hub (IDIH) Document Set
IDIH 8.2.3 Release Notice
IDIH User's Guide
IDIH Alarm Forwarding Administrator's Guide
IDIH Audit Viewer Administrator's Guide
IDIH Operations, Administration and Maintenance Administrator's Guide
IDIH ProTrace User's Guide
IDIH Log Viewer Administrator's Guide

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Supported Hardware Baseline

The Hardware identified in [Table 4-1](#) comprises the Hardware and server versions that have been verified with this release.

Supported Hardware Baseline

Table 4-1 Supported Hardware Baseline

Hardware	Description
HP Gen8	Intel Sandy Bridge CPU-based dual-socket blades and rack mount servers manufactured by HP
HP Gen9	Intel Haswell CPU-based dual-socket blades and rack mount servers manufactured by HP
HP Gen9 v2	Intel Haswell CPU-based dual-socket blades and rack mount servers manufactured by HP
Netra X5-2	Intel Haswell CPU-based dual-socket rack mount servers manufactured by Oracle
Oracle X5-2	Intel Haswell CPU-based dual-socket rack mount servers manufactured by Oracle
Oracle X6-2	Intel Haswell CPU-based dual-socket rack mount servers manufactured by Oracle
Oracle X7-2	Intel Haswell CPU-based dual-socket rack mount servers manufactured by Oracle

The following sections contains the information about Oracle and HP hardware Bill of Material (BOM).

Oracle Hardware

Oracle X7-2 for DSR (AC Power)				
Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
X7-2 AC Copper for Production				
7117671		ORACLE X7-2 AC Copper for Production		1
7115194	Oracle	7115194	Oracle Server X7-2: 1 RU base chassis with motherboard, eight 2.5-inch drive slots disk cage, 2 PSUs, slide rail kit, and cable management arm	1

Oracle X7-2 for DSR (AC Power)				
Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
7110339	Oracle	7110339	Eight 2.5-inch drive slots, DVD-RW and disk cage for 1U	1
7113235	Oracle	7113235	1 Intel® Xeon® Platinum 8160 24-core 2.1 GHz processor (for factory installation)	2
7115198	Oracle	7115198	One 16 GB DDR4-2666 registered DIMM (for factory installation)	16
7111107	Oracle	7111107	One 1.2 TB 10000 rpm 2.5-inch SAS-3 HDD with marlin bracket (for factory installation)	4
7117125	Oracle	7117125	Oracle Storage 12 Gb SAS PCIe RAID HBA, internal: 16 port and 2 GB memory (for factory installation)	1
7111182	Oracle	7111182	Oracle Quad Port 10GBase-T Adapter (for factory installation)	1
333W-10-13-C14RA	Oracle	333W-10-13-C14RA	Power cord: Sun Rack jumper, 1 meter, C14RA plug, C13 connector, 13 A (for factory installation)	2
7115197	Oracle	7115197	Short heat sink (for factory installation)	2
6331A-N	Oracle	6331A-N	2.5-inch HDD filler panel (for factory installation)	6
7102748	Oracle	7102748	PCIe filler panel (for factory installation)	2
7116456	Oracle	7116456	Processor clip (for factory installation)	2
7117386	Oracle	7117386	SAS cables for 1U (for factory installation)	1
X7-2 AC Copper for Lab (Non-High Available)				

Oracle X7-2 for DSR (AC Power)				
Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
7117671		ORACLE X7-2 AC Copper for Production		1
7115194	Oracle	7115194	Oracle Server X7-2: 1 RU base chassis with motherboard, eight 2.5-inch drive slots disk cage, 2 PSUs, slide rail kit, and cable management arm	1
7110339	Oracle	7110339	Eight 2.5-inch drive slots, DVD-RW and disk cage for 1U	1
7113235	Oracle	7113235	1 Intel® Xeon® Platinum 8160 24-core 2.1 GHz processor (for factory installation)	2
7115198	Oracle	7115198	One 16 GB DDR4-2666 registered DIMM (for factory installation)	16
7111107	Oracle	7111107	One 1.2 TB 10000 rpm 2.5-inch SAS-3 HDD with marlin bracket (for factory installation)	2
7117125	Oracle	7117125	Oracle Storage 12 Gb SAS PCIe RAID HBA, internal: 16 port and 2 GB memory (for factory installation)	1
7111182	Oracle	7111182	Oracle Quad Port 10GBase-T Adapter (for factory installation)	1
333W-10-13-C14RA	Oracle	333W-10-13-C14RA	Power cord: Sun Rack jumper, 1 meter, C14RA plug, C13 connector, 13 A (for factory installation)	2
7115197	Oracle	7115197	Short heat sink (for factory installation)	2

Oracle X7-2 for DSR (AC Power)				
Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
6331A-N	Oracle	6331A-N	2.5-inch HDD filler panel (for factory installation)	6
7102748	Oracle	7102748	PCIe filler panel (for factory installation)	2
7116456	Oracle	7116456	Processor clip (for factory installation)	2
7117386	Oracle	7117386	SAS cables for 1U (for factory installation)	1
X7-2 AC Fiber for Production				
7117671		ORACLE X7-2 AC Copper for Production		1
7115194	Oracle	7115194	Oracle Server X7-2: 1 RU base chassis with motherboard, eight 2.5-inch drive slots disk cage, 2 PSUs, slide rail kit, and cable management arm	1
7110339	Oracle	7110339	Eight 2.5-inch drive slots, DVD-RW and disk cage for 1U	1
7113235	Oracle	7113235	1 Intel® Xeon® Platinum 8160 24-core 2.1 GHz processor (for factory installation)	2
7115198	Oracle	7115198	One 16 GB DDR4-2666 registered DIMM (for factory installation)	16
7111107	Oracle	7111107	One 1.2 TB 10000 rpm 2.5-inch SAS-3 HDD with marlin bracket (for factory installation)	4
7117125	Oracle	7117125	Oracle Storage 12 Gb SAS PCIe RAID HBA, internal: 16 port and 2 GB memory (for factory installation)	1

Oracle X7-2 for DSR (AC Power)				
Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
7111182	Oracle	7111182	Oracle Quad Port 10GBase-T Adapter (for factory installation)	1
333W-10-13-C14RA	Oracle	333W-10-13-C14RA	Power cord: Sun Rack jumper, 1 meter, C14RA plug, C13 connector, 13 A (for factory installation)	2
7115197	Oracle	7115197	Short heat sink (for factory installation)	2
6331A-N	Oracle	6331A-N	2.5-inch HDD filler panel (for factory installation)	6
7102748	Oracle	7102748	PCIe filler panel (for factory installation)	2
7116456	Oracle	7116456	Processor clip (for factory installation)	2
7117386	Oracle	7117386	SAS cables for 1U (for factory installation)	1
2124A	Oracle	2124A	QSFP Optical SR (for factory installation)	4
X7-2 AC Fiber for Lab (Non-High Available)				
7117671		ORACLE X7-2 AC Copper for Production1		1
7115194	Oracle	7115194	Oracle Server X7-2: 1 RU base chassis with motherboard, eight 2.5-inch drive slots disk cage, 2 PSUs, slide rail kit, and cable management arm	1
7110339	Oracle	7110339	Eight 2.5-inch drive slots, DVD-RW and disk cage for 1U	1
7113235	Oracle	7113235	1 Intel® Xeon® Platinum 8160 24-core 2.1 GHz processor (for factory installation)	2

Oracle X7-2 for DSR (AC Power)				
Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
7115198	Oracle	7115198	One 16 GB DDR4-2666 registered DIMM (for factory installation)	16
7111107	Oracle	7111107	One 1.2 TB 10000 rpm 2.5-inch SAS-3 HDD with marlin bracket (for factory installation)	2
7117125	Oracle	7117125	Oracle Storage 12 Gb SAS PCIe RAID HBA, internal: 16 port and 2 GB memory (for factory installation)	1
7111182	Oracle	7111182	Oracle Quad Port 10GBase-T Adapter (for factory installation)	1
333W-10-13-C14RA	Oracle	333W-10-13-C14RA	Power cord: Sun Rack jumper, 1 meter, C14RA plug, C13 connector, 13 A (for factory installation)	2
7115197	Oracle	7115197	Short heat sink (for factory installation)	2
6331A-N	Oracle	6331A-N	2.5-inch HDD filler panel (for factory installation)	6
7102748	Oracle	7102748	PCIe filler panel (for factory installation)	2
7116456	Oracle	7116456	Processor clip (for factory installation)	2
7117386	Oracle	7117386	SAS cables for 1U (for factory installation)	1
2124A	Oracle	2124A	QSFP Optical SR (for factory installation)	4

HP Hardware

Table 4-2 Gen 9 v2 Blades

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
		HPE BL460 Gen9 Config 1	HPE BL460 Gen9 Configuration 1	1
	Hewlett-Packard	813198-B21	HPE ProLiant BL460c Gen9 E5-v4 10Gb/20Gb FlexibleLOM Configure-to-order Blade Server	1
	Hewlett-Packard	819853-L21	HPE BL460c Gen9 Intel® Xeon® E5-2695v4 (2.1GHz/18-core/45MB/120W) FIO Proc Kit	1
	Hewlett-Packard	819853-B21	HPE BL460c Gen9 Intel® Xeon® E5-2695v4 (2.1GHz/18-core/45MB/120W) Proc Kit	1
	Hewlett-Packard	805349-B21	HPE 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit (Use with the V4 processor only)	8
	Hewlett-Packard	872479-B21	HPE 1.2 TB 12G SAS 10K rpm SFF (2.5-inch) SC Ent 3yr Warranty Hard Drive	2
	Hewlett-Packard	684214-B21	HPE Ethernet 10Gb 2-port 560FLB Adapter (Flex LOM)	1
	Hewlett-Packard	665246-B21	HPE Ethernet 10Gb 2-port 560M Adapter	2
	Hewlett-Packard	761871-B21	HPE Smart Array P244br/1GB FBWC 12Gb 2-ports Int FIO SAS Controller	1
	Hewlett-Packard	758959-B22	HPE LEGACY FIO MODE SETTING	1

Table 4-3 Gen 9 v2 RMS Server (DC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
Gen 9 RMS v2 Prod Server (DC)				
		HPE DL380 Gen9 v2 DC	OCDSR Configuration 1	1
	Hewlett-Packard	719064-B21	HPE ProLiant DL380 Gen9 8SFF	1
	Hewlett-Packard	817951-L21	HPE DL380 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) FIO Processor Kit (Processor Kit Ships with a High Performance Heatsink)	1
	Hewlett-Packard	817951-B21	HPE DL380 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) Processor Kit (Processor Kit Ships with a High Performance Heatsink)	1
	Hewlett-Packard	805349-B21	HPE 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit (Use with V4 processor only)	16
	Hewlett-Packard	749974-B21	HPE Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller (Includes the HP Smart Storage Battery)	1
	Hewlett-Packard	665249-B21	HPE Ethernet 10Gb Dual Port 560SFP+ Adapter	2

Table 4-3 (Cont.) Gen 9 v2 RMS Server (DC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
	Hewlett-Packard	872479-B21	HPE 1.2 TB 12G SAS 10K rpm SFF (2.5-inch) SC Ent 3yr Warranty Hard Drive	2
	Hewlett-Packard	720480-B21	HPE 800 W Flex Slot-48VDC Hot Plug Power Supply Kit	2
	Hewlett-Packard	512485-B21	HPE iLO Advanced including 1yr 24x7 Technical Support	1
	Hewlett-Packard	720863-B21	HPE 2U Small Form Factor Ball Bearing Gen8 Rail Kit with CMA (Required for Zone 4 installations)	1
	Hewlett-Packard	768900-B21	HPE DL380 Gen9 Systems Insight Display Kit	1
	Hewlett-Packard	758959-B22	HPE LEGACY FIO MODE SETTING	1
	Hewlett-Packard	719070-B21	HPE DL380 G9 Chassis NEBS Conversion Kit	1
	Hewlett-Packard	719079-B21	HPE DL380 Gen9 High Performance Fan Kit	1
	Hewlett-Packard	J6X43A	HPE 12AWG PWR-48V DC 3.0m Crd (DC Power Cable two required)	2
Gen 9 v2 RMS non High Available (for Lab) Server (DC)				
		HPE DL380 Gen9 v2 DC	OCDSR Configuration 2 Non HA for Lab	1
	Hewlett-Packard	719064-B21	HPE ProLiant DL380 Gen9 8SFF	1

Table 4-3 (Cont.) Gen 9 v2 RMS Server (DC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
	Hewlett-Packard	817951-L21	HPE DL380 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) FIO Processor Kit (Processor Kit Ships with a High Performance Heatsink)	1
	Hewlett-Packard	817951-B21	HPE DL380 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) Processor Kit (Processor Kit Ships with a High Performance Heatsink)	1
	Hewlett-Packard	805349-B21	HPE 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit (Use with V4 processor only)	16
	Hewlett-Packard	749974-B21	HPE Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller (Includes the HP Smart Storage Battery)	1
	Hewlett-Packard	665249-B21	HPE Ethernet 10Gb Dual Port 560SFP+ Adapter	2
	Hewlett-Packard	872479-B21	HPE 1.2 TB 12G SAS 10K rpm SFF (2.5-inch) SC Ent 3yr Warranty Hard Drive	4

Table 4-3 (Cont.) Gen 9 v2 RMS Server (DC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
	Hewlett-Packard	720480-B21	HPE 800 W Flex Slot-48VDC Hot Plug Power Supply Kit	2
	Hewlett-Packard	512485-B21	HPE iLO Advanced including 1yr 24x7 Technical Support	1
	Hewlett-Packard	720863-B21	HPE 2U Small Form Factor Ball Bearing Gen8 Rail Kit with CMA (Required for Zone 4 installations)	1
	Hewlett-Packard	768900-B21	HPE DL380 Gen9 Systems Insight Display Kit	1
	Hewlett-Packard	758959-B22	HPE LEGACY FIO MODE SETTING	1
	Hewlett-Packard	719070-B21	HPE DL380 G9 Chassis NEBS Conversion Kit	1
	Hewlett-Packard	719079-B21	HPE DL380 Gen9 High Performance Fan Kit	1
	Hewlett-Packard	J6X43A	HPE 12AWG PWR-48V DC 3.0m Crd (DC Power Cable two required)	2
Gen 9 v2 RMS IDIH Server (DC)				
		HPE DL380 Gen9 v2 DC	OCDSR Configuration 5	1
	Hewlett-Packard	719064-B21	HPE ProLiant DL380 Gen9 8SFF	1

Table 4-3 (Cont.) Gen 9 v2 RMS Server (DC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
	Hewlett-Packard	817951-L21	HPE DL380 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) FIO Processor Kit (Processor Kit Ships with a High Performance Heatsink)	1
	Hewlett-Packard	817951-B21	HPE DL380 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) Processor Kit (Processor Kit Ships with a High Performance Heatsink)	1
	Hewlett-Packard	805349-B21	HPE 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit (Use with V4 processor only)	16
	Hewlett-Packard	749974-B21	HPE Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller (Includes the HP Smart Storage Battery)	1
	Hewlett-Packard	665249-B21	HPE Ethernet 10Gb Dual Port 560SFP+ Adapter	2
	Hewlett-Packard	872479-B21	HPE 1.2 TB 12G SAS 10K rpm SFF (2.5-inch) SC Ent 3yr Warranty Hard Drive	6

Table 4-3 (Cont.) Gen 9 v2 RMS Server (DC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
	Hewlett-Packard	720480-B21	HPE 800 W Flex Slot-48VDC Hot Plug Power Supply Kit	2
	Hewlett-Packard	512485-B21	HPE iLO Advanced including 1yr 24x7 Technical Support	1
	Hewlett-Packard	720863-B21	HPE 2U Small Form Factor Ball Bearing Gen8 Rail Kit with CMA (Required for Zone 4 installations)	1
	Hewlett-Packard	768900-B21	HPE DL380 Gen9 Systems Insight Display Kit	1
	Hewlett-Packard	758959-B22	HPE LEGACY FIO MODE SETTING	1
	Hewlett-Packard	719070-B21	HPE DL380 G9 Chassis NEBS Conversion Kit	1
	Hewlett-Packard	719079-B21	HPE DL380 Gen9 High Performance Fan Kit	1
	Hewlett-Packard	J6X43A	HPE 12AWG PWR-48V DC 3.0m Crd (DC Power Cable two required)	2

Table 4-4 Gen 9 v2 RMS Server (AC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
Gen 9 RMS v2 Prod Server (AC)				
		HPE DL380 Gen9 v2 AC	OCDSR Configuration 1	0
	Hewlett-Packard	719064-B21	HPE ProLiant DL380 Gen9 8SFF	1

Table 4-4 (Cont.) Gen 9 v2 RMS Server (AC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
	Hewlett-Packard	817951-L21	HPE DL380 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) FIO Processor Kit (Processor Kit Ships with a High Performance Heatsink)	1
	Hewlett-Packard	817951-B21	HPE DL380 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) Processor Kit (Processor Kit Ships with a High Performance Heatsink)	1
	Hewlett-Packard	805349-B21	HPE 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit (Use with V4 processor only)	16
	Hewlett-Packard	749974-B21	HPE Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller (Includes the HP Smart Storage Battery)	1
	Hewlett-Packard	665249-B21	HPE Ethernet 10Gb Dual Port 560SFP+ Adapter	2
	Hewlett-Packard	872479-B21	HPE 1.2 TB 12G SAS 10K rpm SFF (2.5-inch) SC Ent 3yr Warranty Hard Drive	2
	Hewlett-Packard	720479-B21	HPE 800 W Flex Slot Platinum Hot Plug Power Supply Kit (AC Power Supply)	2

Table 4-4 (Cont.) Gen 9 v2 RMS Server (AC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
	Hewlett-Packard	512485-B21	HPE iLO Advanced including 1yr 24x7 Technical Support	1
	Hewlett-Packard	720863-B21	HPE 2U Small Form Factor Ball Bearing Gen8 Rail Kit with CMA (Required for Zone 4 installations)	1
	Hewlett-Packard	768900-B21	HPE DL380 Gen9 Systems Insight Display Kit	1
	Hewlett-Packard	758959-B22	HPE LEGACY FIO MODE SETTING	1
	Hewlett-Packard	719070-B21	HPE DL380 G9 Chassis NEBS Conversion Kit	1
	Hewlett-Packard	719079-B21	HPE DL380 Gen9 High Performance Fan Kit	1
Gen 9 v2 RMS non High Available (for Lab) Server (AC)				
		HPE DL380 Gen9 v2 AC	OCDSR Configuration 2 Non HA for Lab	1
	Hewlett-Packard	719064-B21	HPE ProLiant DL380 Gen9 8SFF	1
	Hewlett-Packard	817951-L21	HPE DL380 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) FIO Processor Kit (Processor Kit Ships with a High Performance Heatsink)	1
	Hewlett-Packard	817951-B21	HPE DL380 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) Processor Kit (Processor Kit Ships with a High Performance Heatsink)	1

Table 4-4 (Cont.) Gen 9 v2 RMS Server (AC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
	Hewlett-Packard	805349-B21	HPE 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit (Use with V4 processor only)	16
	Hewlett-Packard	749974-B21	HPE Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller (Includes the HP Smart Storage Battery)	1
	Hewlett-Packard	665249-B21	HPE Ethernet 10Gb Dual Port 560SFP+ Adapter	2
	Hewlett-Packard	872479-B21	HPE 1.2 TB 12G SAS 10K rpm SFF (2.5-inch) SC Ent 3yr Warranty Hard Drive	4
	Hewlett-Packard	720479-B21	HPE 800 W Flex Slot Platinum Hot Plug Power Supply Kit (AC Power Supply)	2
	Hewlett-Packard	512485-B21	HPE iLO Advanced including 1yr 24x7 Technical Support	1
	Hewlett-Packard	720863-B21	HPE 2U Small Form Factor Ball Bearing Gen8 Rail Kit with CMA (Required for Zone 4 installations)	1
	Hewlett-Packard	768900-B21	HPE DL380 Gen9 Systems Insight Display Kit	1
	Hewlett-Packard	758959-B22	HPE LEGACY FIO MODE SETTING	1
	Hewlett-Packard	719070-B21	HPE DL380 G9 Chassis NEBS Conversion Kit	1
	Hewlett-Packard	719079-B21	HPE DL380 Gen9 High Performance Fan Kit	1

Table 4-4 (Cont.) Gen 9 v2 RMS Server (AC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
Gen 9 v2 RMS IDIH Server (AC)				
		HPE DL380 Gen9 v2 AC	OCDSR Configuration 5	1
	Hewlett-Packard	719064-B21	HPE ProLiant DL380 Gen9 8SFF	1
	Hewlett-Packard	817951-L21	HPE DL380 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) FIO Processor Kit (Processor Kit Ships with a High Performance Heatsink)	1
	Hewlett-Packard	817951-B21	HPE DL380 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) Processor Kit (Processor Kit Ships with a High Performance Heatsink)	1
	Hewlett-Packard	805349-B21	HPE 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit (Use with V4 processor only)	16
	Hewlett-Packard	749974-B21	HPE Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller (Includes the HP Smart Storage Battery)	1
	Hewlett-Packard	665249-B21	HPE Ethernet 10Gb Dual Port 560SFP+ Adapter	2
	Hewlett-Packard	872479-B21	HPE 1.2 TB 12G SAS 10K rpm SFF (2.5-inch) SC Ent 3yr Warranty Hard Drive	6

Table 4-4 (Cont.) Gen 9 v2 RMS Server (AC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
	Hewlett-Packard	720479-B21	HPE 800 W Flex Slot Platinum Hot Plug Power Supply Kit (AC Power Supply)	2
	Hewlett-Packard	512485-B21	HPE iLO Advanced including 1yr 24x7 Technical Support	1
	Hewlett-Packard	720863-B21	HPE 2U Small Form Factor Ball Bearing Gen8 Rail Kit with CMA (Required for Zone 4 installations)	1
	Hewlett-Packard	768900-B21	HPE DL380 Gen9 Systems Insight Display Kit	1
	Hewlett-Packard	758959-B22	HPE LEGACY FIO MODE SETTING	1
	Hewlett-Packard	719070-B21	HPE DL380 G9 Chassis NEBS Conversion Kit	1
	Hewlett-Packard	719079-B21	HPE DL380 Gen9 High Performance Fan Kit	1

Table 4-5 Gen 9 Blade v1

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
		HP BL460 Gen9 Config 1	HP BL460 Gen9 Configuration 1	1
	Hewlett-Packard	727021-B21	HP ProLiant BL460c Gen9 E5-v3 10Gb/20Gb FlexibleLOM Configure-to-order Blade Server	1
	Hewlett-Packard	727003-L21	HP BL460c Gen9 Intel® Xeon® E5-2695v3 (2.3GHz/14-core/35MB/120W) FIO Processor Kit	1

Table 4-5 (Cont.) Gen 9 Blade v1

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
	Hewlett-Packard	727003-B21	HP BL460c Gen9 Intel® Xeon® E5-2695v3 (2.3GHz/14-core/35MB/120W) Processor Kit	1
	Hewlett-Packard	726719-B21	HP 16GB (1x16GB) Dual Rank x4 PC4-2133P-R (DDR4-2133) Registered	8
	Hewlett-Packard	872479-B21	HPE 1.2 TB 12G SAS 10K rpm SFF (2.5-inch) SC Ent 3yr Warranty Hard Drive	2
	Hewlett-Packard	655639-B21	HP Ethernet 10Gb 2-port 560FLB Adapter (Flex LOM)	1
	Hewlett-Packard	665246-B21	HP Ethernet 10Gb 2-port 560M Adapter	2
	Hewlett-Packard	761871-B21	HP Smart Array P244br/1GB FBWC 12Gb 2-ports Int FIO SAS Controller	1
	Hewlett-Packard	758959-B22	HP LEGACY FIO MODE SETTING	1

Table 4-6 Gen 9 v1 RMS Server (DC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
Gen 9 RMS v1 Prod Server (DC)				
		HP DL380 Gen9 DC	OCDSR Configuration 1	1
	Hewlett-Packard	719064-B21	HP ProLiant DL380 Gen9 8SFF Configure-to-order Server	1
	Hewlett-Packard	762766-L21	HP DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit	1

Table 4-6 (Cont.) Gen 9 v1 RMS Server (DC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
	Hewlett-Packard	762766-B21	HP DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit	1
	Hewlett-Packard	726719-B21	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Reg Memory Kit	16
	Hewlett-Packard	749974-B21	HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller	1
	Hewlett-Packard	665249-B21	HP Ethernet 10-Gb 2-port 560SFP+Adapter	2
	Hewlett-Packard	872479-B21	HPE 1.2 TB 12G SAS 10K rpm SFF (2.5-inch) SC Ent 3yr Warranty Hard Drive	2
	Hewlett-Packard	720480-B21	HP 800 W Flex Slot-48VDC Hot Plug Power Supply Kit	2
	Hewlett-Packard	512485-B21	HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server License	1
	Hewlett-Packard	720863-B21	HP 2U Small Form Factor Ball Bearing Gen8 Rail Kit with CMA (Required for Zone 4 installations)	1
	Hewlett-Packard	768900-B21	HP DL380 Gen9 Systems Insight Display Kit	1
	Hewlett-Packard	758959-B22	HP LEGACY FIO MODE SETTING	1
	Hewlett-Packard	719070-B21	HP DL380 G9 Chassis NEBS Conversion Kit	1

Table 4-6 (Cont.) Gen 9 v1 RMS Server (DC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
	Hewlett-Packard	719079-B21	HP DL380 Gen9 High Performance Fan Kit	1
	Hewlett-Packard	J6X43A	HP 12AWG PWR-48V DC 3.0m Crd (DC Power Cable two required)	2
Gen 9 v1 RMS non High Available (for Lab) Server (DC)				
		HP DL380 Gen9 DC	OCDSR Configuration 2 Non HA for Lab	1
	Hewlett-Packard	719064-B21	HP ProLiant DL380 Gen9 8SFF Configure-to-order Server	1
	Hewlett-Packard	762766-L21	HP DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit	1
	Hewlett-Packard	762766-B21	HP DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit	1
	Hewlett-Packard	726719-B21	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Reg Memory Kit	16
	Hewlett-Packard	749974-B21	HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller	1
	Hewlett-Packard	665249-B21	HP Ethernet 10-Gb 2-port 560SFP+Adapter	2
	Hewlett-Packard	872479-B21	HPE 1.2 TB 12G SAS 10K rpm SFF (2.5-inch) SC Ent 3yr Warranty Hard Drive	4
	Hewlett-Packard	720480-B21	HP 800 W Flex Slot-48VDC Hot Plug Power Supply Kit	2

Table 4-6 (Cont.) Gen 9 v1 RMS Server (DC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
	Hewlett-Packard	512485-B21	HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server License	1
	Hewlett-Packard	720863-B21	HP 2U Small Form Factor Ball Bearing Gen8 Rail Kit with CMA (Required for Zone 4 installations)	1
	Hewlett-Packard	768900-B21	HP DL380 Gen9 Systems Insight Display Kit	1
	Hewlett-Packard	758959-B22	HP LEGACY FIO MODE SETTING	1
	Hewlett-Packard	719070-B21	HP DL380 G9 Chassis NEBS Conversion Kit	1
	Hewlett-Packard	719079-B21	HP DL380 Gen9 High Performance Fan Kit	1
	Hewlett-Packard	J6X43A	HP 12AWG PWR-48V DC 3.0m Crd (DC Power Cable two required)	2
Gen 9 v1 RMS IDIH Server (DC)				
		HP DL380 Gen9 DC	OCDSR Configuration 5	1
	Hewlett-Packard	719064-B21	HP ProLiant DL380 Gen9 8SFF	1
	Hewlett-Packard	762766-L21	HP DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit (Processor Kit Ships with a High Performance Heatsink)	1

Table 4-6 (Cont.) Gen 9 v1 RMS Server (DC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
	Hewlett-Packard	762766-B21	HP DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit (Processor Kit Ships with a High Performance Heatsink)	1
	Hewlett-Packard	726719-B21	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Reg Memory Kit (Pick memory dims modules in groups of 4, 8,12,16 with a minimum requirement of 8x16GB=128GB and a maximum requirement of 16x16GB=256GB)	16
	Hewlett-Packard	749974-B21	HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller (Includes the HP Smart Storage Battery)	1
	Hewlett-Packard	665249-B21	HP Ethernet 10-Gb 2-port 560SFP+Adapter	2
	Hewlett-Packard	720480-B21	HP 800 W Flex Slot-48VDC Hot Plug Power Supply Kit	2
	Hewlett-Packard	512485-B21	HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server License	1
	Hewlett-Packard	720863-B21	HP 2U Small Form Factor Ball Bearing Gen8 Rail Kit with CMA (Required for Zone 4 installations)	1

Table 4-6 (Cont.) Gen 9 v1 RMS Server (DC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
	Hewlett-Packard	768900-B21	HP DL380 Gen9 Systems Insight Display Kit	1
	Hewlett-Packard	758959-B22	HP LEGACY FIO MODE SETTING	1
	Hewlett-Packard	719070-B21	HP DL380 G9 Chassis NEBS Conversion Kit	1
	Hewlett-Packard	719079-B21	HP DL380 Gen9 High Performance Fan Kit	1
	Hewlett-Packard	872479-B21	HPE 1.2 TB 12G SAS 10K rpm SFF (2.5-inch) SC Ent 3yr Warranty Hard Drive	6
	Hewlett-Packard	J6X43A	HP 12AWG PWR-48V DC 3.0m Crd (DC Power Cable two required)	2

Table 4-7 Gen 9 v1 RMS Server (AC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
Gen 9 RMS v1 Prod Server (AC)				
		HP DL380 Gen9 AC	OCDSR Configuration 1	1
	Hewlett-Packard	719064-B21	HP ProLiant DL380 Gen9 8SFF Configure-to-order Server	1
	Hewlett-Packard	762766-L21	HP DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit	1
	Hewlett-Packard	762766-B21	HP DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit	1

Table 4-7 (Cont.) Gen 9 v1 RMS Server (AC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
	Hewlett-Packard	726719-B21	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Reg Memory Kit	16
	Hewlett-Packard	749974-B21	HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller	1
	Hewlett-Packard	665249-B21	HP Ethernet 10-Gb 2-port 560SFP+Adapter	2
	Hewlett-Packard	872479-B21	HPE 1.2 TB 12G SAS 10K rpm SFF (2.5-inch) SC Ent 3yr Warranty Hard Drive	2
	Hewlett-Packard	720479-B21	HP 800 W Flex Slot Platinum Hot Plug Power Supply Kit (AC Power Supply)	2
	Hewlett-Packard	512485-B21	HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server License	1
	Hewlett-Packard	720863-B21	HP 2U Small Form Factor Ball Bearing Gen8 Rail Kit with CMA (Required for Zone 4 installations)	1
	Hewlett-Packard	768900-B21	HP DL380 Gen9 Systems Insight Display Kit	1
	Hewlett-Packard	758959-B22	HP LEGACY FIO MODE SETTING	1
	Hewlett-Packard	719070-B21	HP DL380 G9 Chassis NEBS Conversion Kit	1
	Hewlett-Packard	719079-B21	HP DL380 Gen9 High Performance Fan Kit	1

Table 4-7 (Cont.) Gen 9 v1 RMS Server (AC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
Gen 9 v1 RMS non High Available (for Lab) Server (AC)				
		HP DL380 Gen9 AC	OCDSR Configuration 2 Non HA for Lab	1
	Hewlett-Packard	719064-B21	HP ProLiant DL380 Gen9 8SFF Configure-to-order Server	1
	Hewlett-Packard	762766-L21	HP DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit	1
	Hewlett-Packard	762766-B21	HP DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit	1
	Hewlett-Packard	726719-B21	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Reg Memory Kit	16
	Hewlett-Packard	749974-B21	HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller	1
	Hewlett-Packard	665249-B21	HP Ethernet 10-Gb 2-port 560SFP+Adapter	2
	Hewlett-Packard	872479-B21	HPE 1.2 TB 12G SAS 10K rpm SFF (2.5-inch) SC Ent 3yr Warranty Hard Drive	4
	Hewlett-Packard	720479-B21	HP 800 W Flex Slot Platinum Hot Plug Power Supply Kit (AC Power Supply)	2

Table 4-7 (Cont.) Gen 9 v1 RMS Server (AC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
	Hewlett-Packard	512485-B21	HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server License	1
	Hewlett-Packard	720863-B21	HP 2U Small Form Factor Ball Bearing Gen8 Rail Kit with CMA (Required for Zone 4 installations)	1
	Hewlett-Packard	768900-B21	HP DL380 Gen9 Systems Insight Display Kit	1
	Hewlett-Packard	758959-B22	HP LEGACY FIO MODE SETTING	1
	Hewlett-Packard	719070-B21	HP DL380 G9 Chassis NEBS Conversion Kit	1
	Hewlett-Packard	719079-B21	HP DL380 Gen9 High Performance Fan Kit	1
Gen 9 v1 RMS IDIH Server (AC)				
		HP DL380 Gen9 AC	OCDSR Configuration 5	1
	Hewlett-Packard	719064-B21	HP ProLiant DL380 Gen9 8SFF	1
	Hewlett-Packard	762766-L21	HP DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit (Processor Kit Ships with a High Performance Heatsink)	1

Table 4-7 (Cont.) Gen 9 v1 RMS Server (AC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
	Hewlett-Packard	762766-B21	HP DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit (Processor Kit Ships with a High Performance Heatsink)	1
	Hewlett-Packard	726719-B21	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Reg Memory Kit (Pick memory dims modules in groups of 4, 8,12,16 with a minimum requirement of 8x16GB=128GB and a maximum requirement of 16x16GB=256GB)	16
	Hewlett-Packard	749974-B21	HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller (Includes the HP Smart Storage Battery)	1
	Hewlett-Packard	665249-B21	HP Ethernet 10-Gb 2-port 560SFP+Adapter	2
	Hewlett-Packard	720479-B21	HP 800 W Flex Slot Platinum Hot Plug Power Supply Kit (AC Power Supply)	2
	Hewlett-Packard	512485-B21	HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server License	1

Table 4-7 (Cont.) Gen 9 v1 RMS Server (AC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
	Hewlett-Packard	720863-B21	HP 2U Small Form Factor Ball Bearing Gen8 Rail Kit with CMA (Required for Zone 4 installations)	1
	Hewlett-Packard	768900-B21	HP DL380 Gen9 Systems Insight Display Kit	1
	Hewlett-Packard	758959-B22	HP LEGACY FIO MODE SETTING	1
	Hewlett-Packard	719070-B21	HP DL380 G9 Chassis NEBS Conversion Kit	1
	Hewlett-Packard	719079-B21	HP DL380 Gen9 High Performance Fan Kit	1
	Hewlett-Packard	872479-B21	HPE 1.2 TB 12G SAS 10K rpm SFF (2.5-inch) SC Ent 3yr Warranty Hard Drive	6
Gen 9 v1 RMS IDIH Server (DC)				
		HP DL380 Gen9 DC	OCDSR Configuration 5	1
	Hewlett-Packard	719064-B21	HP ProLiant DL380 Gen9 8SFF	1
	Hewlett-Packard	762766-L21	HP DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit (Processor Kit Ships with a High Performance Heatsink)	1
	Hewlett-Packard	762766-B21	HP DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit (Processor Kit Ships with a High Performance Heatsink)	1

Table 4-7 (Cont.) Gen 9 v1 RMS Server (AC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
	Hewlett-Packard	726719-B21	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Reg Memory Kit (Pick memory dims modules in groups of 4, 8,12,16 with a minimum requirement of 8x16GB=128GB and a maximum requirement of 16x16GB=256GB)	16
	Hewlett-Packard	749974-B21	HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller (Includes the HP Smart Storage Battery)	1
	Hewlett-Packard	665249-B21	HP Ethernet 10-Gb 2-port 560SFP+Adapter	2
	Hewlett-Packard	720480-B21	HP 800 W Flex Slot-48VDC Hot Plug Power Supply Kit	2
	Hewlett-Packard	512485-B21	HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server License	1
	Hewlett-Packard	720863-B21	HP 2U Small Form Factor Ball Bearing Gen8 Rail Kit with CMA (Required for Zone 4 installations)	1
	Hewlett-Packard	768900-B21	HP DL380 Gen9 Systems Insight Display Kit	1
	Hewlett-Packard	758959-B22	HP LEGACY FIO MODE SETTING	1

Table 4-7 (Cont.) Gen 9 v1 RMS Server (AC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
	Hewlett-Packard	719070-B21	HP DL380 G9 Chassis NEBS Conversion Kit	1
	Hewlett-Packard	719079-B21	HP DL380 Gen9 High Performance Fan Kit	1
	Hewlett-Packard	872479-B21	HPE 1.2 TB 12G SAS 10K rpm SFF (2.5-inch) SC Ent 3yr Warranty Hard Drive	6
	Hewlett-Packard	J6X43A	HP 12AWG PWR-48V DC 3.0m Crd (DC Power Cable two required)	2

Table 4-8 Gen 8 Blades

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
Gen8 Blade DA-MP				
7108039			HP D9N37A_BLA460C GEN8_BLADE SERVER_009_RO HS	1
7108039	Hewlett-Packard	735151-B21	HP ProLiant BL460c Gen8 E5-v2 10Gb FlexibleLOM Server	1
7108039	Hewlett-Packard	690164-B21	HP Smart Array P220i Controller FIO Kit	1
7108039	Hewlett-Packard	718056-L21	HP BL460c Gen8 E5-2680v2 FIO Kit	1
7108039	Hewlett-Packard	718056-B21	HP BL460c Gen8 E5-2680v2 Kit	1
7108039	Hewlett-Packard	708641-B21	HP 16GB 2Rx4 PC3-14900R-13 Kit	4
7108039	Hewlett-Packard	652583-B21	HP 652583-B21_600GB 6G SAS_HDD_10K_SFF_ROHS	2

Table 4-8 (Cont.) Gen 8 Blades

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
7108039	Hewlett-Packard	631884-B21	HP 631884-B21_HP FLEX-10_10GB_2 PORT_ 530M ADAPTER_ROHS	2
7108039	Hewlett-Packard	684211-B21	HP 684211-B21_HP FLEX-10_10GB_2 PORT_530FLB FIO ADAPTER_ROHS	1
Gen8 Blade SOAM				
7108027			HP D9N30A_BLADE GEN8_SERVER_001_ROHS	1
7108027	Hewlett-Packard	735151-B21	HP ProLiant BL460c Gen8 E5-v2 10Gb FlexibleLOM Server	1
7108027	Hewlett-Packard	690164-B21	HP Smart Array P220i Controller FIO Kit	1
7108027	Hewlett-Packard	718056-L21	HP BL460c Gen8 E5-2680v2 FIO Kit	1
7108027	Hewlett-Packard	718056-B21	HP BL460c Gen8 E5-2680v2 Kit	1
7108027	Hewlett-Packard	708641-B21	HP 16GB 2Rx4 PC3-14900R-13 Kit	8
7108027	Hewlett-Packard	652589-B21	HP 652589-B21_900GB 6G SAS_HDD_10K_SFF_ROHS	2
7108027	Hewlett-Packard	631884-B21	HP 631884-B21_HP FLEX-10_10GB_2 PORT_ 530M ADAPTER_ROHS	2
7108027	Hewlett-Packard	684211-B21	HP 684211-B21_HP FLEX-10_10GB_2 PORT_530FLB FIO ADAPTER_ROHS	1
Gen8 Blade DIH				

Table 4-8 (Cont.) Gen 8 Blades

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
7108104	Hewlett-Packard	406740-B21	HP-406740-B21_1GBE_PASS THRU MODULE_001_ROHS	1
7108027			HP D9N30A_BL460C GEN8_BLADE SERVER_001_ROHS	1
7108027	Hewlett-Packard	735151-B21	HP ProLiant BL460c Gen8 E5-v2 10Gb FlexibleLOM Server	1
7108027	Hewlett-Packard	690164-B21	HP Smart Array P220i Controller FIO Kit	1
7108027	Hewlett-Packard	718056-L21	HP BL460c Gen8 E5-2680v2 FIO Kit	1
7108027	Hewlett-Packard	718056-B21	HP BL460c Gen8 E5-2680v2 Kit	1
7108027	Hewlett-Packard	708641-B21	HP 16GB 2Rx4 PC3-14900R-13 Kit	8
7108027	Hewlett-Packard	652589-B21	HP 652589-B21_900GB 6G SAS_HDD_10K_SFF_ROHS	2
7108027	Hewlett-Packard	631884-B21	HP 631884-B21_HP FLEX-10_10GB_2 PORT_530M ADAPTER_ROHS	2
7108027	Hewlett-Packard	684211-B21	HP 684211-B21_HP FLEX-10_10GB_2 PORT_530FLB FIO ADAPTER_ROHS	1
7108130			HP_STORAGE BLADE QW918A_600GB HARD DRIVES_ROHS	1
7108130	Hewlett-Packard	QW918A	HP QW918A_STORAGE BLADE FOR ASSY_ROHS	1

Table 4-8 (Cont.) Gen 8 Blades

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
7108130	Hewlett-Packard	652583-B21	HP 652583-B21_600GB 6G SAS_HDD_10K_SFF_ROHS	12

Table 4-9 Gen 8 Server (DC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
Management Server				
7109444			HP D9N07A_DL380 GEN8_DC_SERVER_001_ROHS	1
7109444	Hewlett-Packard	653200-B21	HP 653200-B21_HP DL380P GEN8 8_SFF_CTO CHASSIS_ROHS	1
7109444	Hewlett-Packard	715215-L21	HP DL380p Gen8 E5-2680v2 FIO Kit	1
7109444	Hewlett-Packard	715215-B21	HP DL380p Gen8 E5-2680v2 Kit	1
7109444	Hewlett-Packard	708641-B21	HP 16GB 2Rx4 PC3-14900R-13 Kit	8
7109444	Hewlett-Packard	631679-B21	HP 631679-B21_HP 1GB P SERIES_SMART ARRAY_FLASH BACKED WRITE CACHE UPGRADE_ROHS	1
7109444	Hewlett-Packard	652589-B21	HP 652589-B21_900GB 6G SAS_HDD_10K_SFF_ROHS	2
7109444	Hewlett-Packard	636673-B21	HP 636673-B21_HP 750W_COMMON SLOT_-48VDC_HOT PLUG POWER SUPPLY KIT	2

Table 4-9 (Cont.) Gen 8 Server (DC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
7109444	Hewlett-Packard	512485-B21	HP 512485-B21_PROLIANT ESSENTIALS_INTEGRATED LIGHTS-OUT ADVANCED PACK_1 SVR LICENSE_NO MEDIA	1
7109444	Hewlett-Packard	684208-B21	HP 684208-B21_HP FLEXLOM_1GB_4-PORT_331FLR ETHERNET ADAPTER_ROHS	1
7109444	Hewlett-Packard	647594-B21	HP 647594-B21_331T_4P_1G_PCIE ADAPTER_ROHS	1
7109444	Hewlett-Packard	663478-B21	HP 663478-B21_HP 2U_SFF_BALL BEARING GEN8 RAIL KIT_ROHS	1
7109444	Hewlett-Packard	707865-B21	HP 707865-B21_DL380 GEN8_NEBS CONVERSION CAGE KIT_PCI SLOTS 1-3_ROHS	1
7109447	TELECT	009-8005-3404H	TEL 009-8005-3404H_FUSE PANEL_150A_4/4_DC_1U_ROHS 5/6	1
7108162	Anixter	814-0034-06	ASSEMBLY MATERIALS_GEN8 DC RMS_POWER UNTERMINATED_MTG HARDWARE_ROHS 5/6	1

Table 4-9 (Cont.) Gen 8 Server (DC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
7110434	Anixter	814-0034-07	ASSEMBLY MATERIALS_RM S_EXTENTION KIT_ETH CABLES_ROHS 5/6	1
NOAM server				
7108070			HP D9N07A_DL380 GEN8_DC_SER VER_001_ROHS	1
7108070	Hewlett-Packard	653200-B21	HP 653200- B21_HP DL380P GEN8 8_SFF_CTO CHASSIS_ROHS	1
7108070	Hewlett-Packard	715215-L21	HP DL380p Gen8 E5-2680v2 FIO Kit	1
7108070	Hewlett-Packard	715215-B21	HP DL380p Gen8 E5-2680v2 Kit	1
7108070	Hewlett-Packard	708641-B21	HP 16GB 2Rx4 PC3-14900R-13 Kit	8
7108070	Hewlett-Packard	631679-B21	HP 631679- B21_HP 1GB P SERIES_SMART ARRAY_FLASH BACKED WRITE CACHE UPGRADE_ROH S	1
7108070	Hewlett-Packard	652589-B21	HP 652589- B21_900GB 6G SAS_HDD_10K_ SFF_ROHS	2
7108070	Hewlett-Packard	636673-B21	HP 636673- B21_HP 750W_COMMON SLOT_-48VDC_ HOT PLUG POWER SUPPLY KIT	2

Table 4-9 (Cont.) Gen 8 Server (DC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
7108070	Hewlett-Packard	512485-B21	HP 512485-B21_PROLIANT ESSENTIALS_INTEGRATED LIGHTS-OUT ADVANCED PACK_1 SVR LICENSE_NO MEDIA	1
7108070	Hewlett-Packard	684208-B21	HP 684208-B21_HP FLEXLOM_1GB_4-PORT_331FLR ETHERNET ADAPTER_ROHS	1
7108070	Hewlett-Packard	647594-B21	HP 647594-B21_331T_4P_1G_PCIE ADAPTER_ROHS	1
7108070	Hewlett-Packard	663478-B21	HP 663478-B21_HP 2U_SFF_BALL BEARING GEN8 RAIL KIT_ROHS	1
7108070	Hewlett-Packard	707865-B21	HP 707865-B21_DL380 GEN8_NEBS CONVERSION CAGE KIT_PCISLOTS 1-3_ROHS	1
7108146	Hewlett-Packard	A5S98A	HP A5S98A_POWER CABLE_DC GEN8 SERVER_2.5M LONG_TERMINATED SERVER END_UNTERMINATED PDP END_ROHS	1
7110434	Anixter	814-0034-07	ASSEMBLY MATERIALS_RMS_EXTENTION KIT_ETH CABLES_ROHS 5/6	1
SDS Server				

Table 4-9 (Cont.) Gen 8 Server (DC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
7108070			HP D9N07A_DL380 GEN8_DC_SER VER_001_ROHS	1
7108070	Hewlett-Packard	653200-B21	HP 653200- B21_HP DL380P GEN8 8_SFF_CTO CHASSIS_ROHS	1
7108070	Hewlett-Packard	715215-L21	HP DL380p Gen8 E5-2680v2 FIO Kit	1
7108070	Hewlett-Packard	715215-B21	HP DL380p Gen8 E5-2680v2 Kit	1
7108070	Hewlett-Packard	708641-B21	HP 16GB 2Rx4 PC3-14900R-13 Kit	8
7108070	Hewlett-Packard	631679-B21	HP 631679- B21_HP 1GB P SERIES_SMART ARRAY_FLASH BACKED WRITE CACHE UPGRADE_ROH S	1
7108070	Hewlett-Packard	652589-B21	HP 652589- B21_900GB 6G SAS_HDD_10K_ SFF_ROHS	2
7108070	Hewlett-Packard	636673-B21	HP 636673- B21_HP 750W_COMMON SLOT_-48VDC_ HOT PLUG POWER SUPPLY KIT	2
7108070	Hewlett-Packard	512485-B21	HP 512485- B21_PROLIANT ESSENTIALS_IN TEGRATED LIGHTS-OUT ADVANCED PACK_1 SVR LICENSE_NO MEDIA	1

Table 4-9 (Cont.) Gen 8 Server (DC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
7108070	Hewlett-Packard	684208-B21	HP 684208-B21_HP FLEXLOM_1GB_4-PORT_331FLR ETHERNET ADAPTER_ROHS	1
7108070	Hewlett-Packard	647594-B21	HP 647594-B21_331T_4P_1G_PCIE ADAPTER_ROHS	1
7108070	Hewlett-Packard	663478-B21	HP 663478-B21_HP 2U_SFF_BALL BEARING GEN8 RAIL KIT_ROHS	1
7108070	Hewlett-Packard	707865-B21	HP 707865-B21_DL380 GEN8_NEBS CONVERSION CAGE KIT_PCI SLOTS 1-3_ROHS	1
7108146	Hewlett-Packard	A5S98A	HP A5S98A_POWER CABLE_DC GEN8 SERVER_2.5M LONG_TERMINATED SERVER END_UNTERMINATED PDP END_ROHS	1
7110434	Anixter	814-0034-07	ASSEMBLY MATERIALS_RMS_EXTENTION KIT_ETH CABLES_ROHS 5/6	1
Query Server				
7108070			HP D9N07A_DL380 GEN8_DC_SERVER_001_ROHS	1
7108070	Hewlett-Packard	653200-B21	HP 653200-B21_HP DL380P GEN8 8_SFF_CTO CHASSIS_ROHS	1
7108070	Hewlett-Packard	715215-L21	HP DL380p Gen8 E5-2680v2 FIO Kit	1

Table 4-9 (Cont.) Gen 8 Server (DC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
7108070	Hewlett-Packard	715215-B21	HP DL380p Gen8 E5-2680v2 Kit	1
7108070	Hewlett-Packard	708641-B21	HP 16GB 2Rx4 PC3-14900R-13 Kit	8
7108070	Hewlett-Packard	631679-B21	HP 631679-B21_HP 1GB P SERIES SMART ARRAY_FLASH BACKED WRITE CACHE UPGRADE_ROHS	1
7108070	Hewlett-Packard	652589-B21	HP 652589-B21_900GB 6G SAS_HDD_10K_SFF_ROHS	2
7108070	Hewlett-Packard	636673-B21	HP 636673-B21_HP 750W_COMMON SLOT_-48VDC_HOT PLUG POWER SUPPLY KIT	2
7108070	Hewlett-Packard	512485-B21	HP 512485-B21_PROLIANT ESSENTIALS_INTEGRATED LIGHTS-OUT ADVANCED PACK_1 SVR LICENSE_NO MEDIA	1
7108070	Hewlett-Packard	684208-B21	HP 684208-B21_HP FLEXLOM_1GB_4-PORT_331FLR ETHERNET ADAPTER_ROHS	1
7108070	Hewlett-Packard	647594-B21	HP 647594-B21_331T_4P_1G_PCIE ADAPTER_ROHS	1
7108070	Hewlett-Packard	663478-B21	HP 663478-B21_HP 2U_SFF_BALL BEARING GEN8 RAIL KIT_ROHS	1

Table 4-9 (Cont.) Gen 8 Server (DC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
7108070	Hewlett-Packard	707865-B21	HP 707865-B21_DL380 GEN8_NEBS CONVERSION CAGE KIT_PCI SLOTS 1-3_ROHS	1
7108146	Hewlett-Packard	A5S98A	HP A5S98A_POWER CABLE_DC GEN 8 SERVER_2.5M LONG_TERMINATED SERVER END_UNTERMINATED PDP END_ROHS	1
7110434	Anixter	814-0034-07	ASSEMBLY MATERIALS_RMS_EXTENTION KIT_ETH CABLES_ROHS 5/6	1
Gen 8 IDIH Server				
7108081			HP D9U38A_DL380 GEN8_DC_SERVER_005_ROHS	1
7108081	Hewlett-Packard	653200-B21	HP 653200-B21_HP DL380P GEN8 8_SFF_CTO CHASSIS_ROHS	1
7108081	Hewlett-Packard	715215-L21	HP DL380p Gen8 E5-2680v2 FIO Kit	1
7108081	Hewlett-Packard	715215-B21	HP DL380p Gen8 E5-2680v2 Kit	1
7108081	Hewlett-Packard	708641-B21	HP 16GB 2Rx4 PC3-14900R-13 Kit	8
7108081	Hewlett-Packard	631679-B21	HP 631679-B21_HP 1GB P SERIES_SMART ARRAY_FLASH BACKED WRITE CACHE UPGRADE_ROHS	1

Table 4-9 (Cont.) Gen 8 Server (DC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
7108081	Hewlett-Packard	652589-B21	HP 652589-B21_900GB 6G SAS_HDD_10K_SFF_ROHS	6
7108081	Hewlett-Packard	636673-B21	HP 636673-B21_HP 750W_COMMON SLOT_-48VDC_HOT PLUG POWER SUPPLY KIT	2
7108081	Hewlett-Packard	512485-B21	HP 512485-B21_PROLIANT ESSENTIALS_INTEGRATED LIGHTS-OUT ADVANCED PACK_1 SVR LICENSE_NO MEDIA	1
7108081	Hewlett-Packard	684208-B21	HP 684208-B21_HP FLEXLOM_1GB_4-PORT_331FLR ETHERNET ADAPTER_ROHS	1
7108081	Hewlett-Packard	593722-B21	HP 593722-B21_NC365T_4 PORT ETHERNET SERVER ADAPTER_ROHS	2
7108081	Hewlett-Packard	631670-B21	HP 631670-B21_HP SMART ARRAY_P420/1GIB FBWC CONTROLLER_ROHS	1
7108081	Hewlett-Packard	662883-B21	HP 662883-B21_HP 380/385 GEN8_8-SFF CAGE/BKPLN KIT_ROHS	1
7108081	Hewlett-Packard	663478-B21	HP 663478-B21_HP 2U_SFF_BALL BEARING GEN8 RAIL KIT_ROHS	1

Table 4-9 (Cont.) Gen 8 Server (DC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
7108081	Hewlett-Packard	662897-B21	HP 662897-B21_HP MINI SAS STRAIGHT TO STRAIGHT 37IN CABLE ASSEMBLIES_R OHS	2
7108081	Hewlett-Packard	707865-B21	HP 707865-B21_DL380 GEN8_NEBS CONVERSION CAGE KIT_PCI SLOTS 1-3_ROHS	2
7108081	Hewlett-Packard	653206-B21	HP 653206-B21_DL380P/385P GEN8 3 SLOT PCI-E RISER KIT_ROHS	1
7108146	Hewlett-Packard	A5S98A	HP A5S98A_POWER CABLE_DC GEN 8 SERVER_2.5M LONG_TERMINATED SERVER END_UNTERMINATED PDP END_ROHS	1
7110434	Anixter	814-0034-07	ASSEMBLY MATERIALS_RMS_EXTENTION KIT_ETH CABLES_ROHS 5/6	1

Table 4-10 Gen 8 Server (AC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
Management Server				
7109443			DL380 GEN8_AC_C-CLASS_MANAGEMENT SERVER_021_ROHS	1

Table 4-10 (Cont.) Gen 8 Server (AC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
7109443	Hewlett-Packard	653200-B21	HP 653200-B21_HP DL380P GEN8 8_SFF_CTO CHASSIS_ROHS	1
7109443	Hewlett-Packard	715215-L21	HP DL380p Gen8 E5-2680v2 FIO Kit	1
7109443	Hewlett-Packard	715215-B21	HP DL380p Gen8 E5-2680v2 Kit	1
7109443	Hewlett-Packard	708641-B21	HP 16GB 2Rx4 PC3-14900R-13 Kit	8
7109443	Hewlett-Packard	631679-B21	HP 631679-B21_HP 1GB P SERIES_SMART ARRAY_FLASH BACKED WRITE CACHE UPGRADE_ROHS	1
7109443	Hewlett-Packard	652589-B21	HP 652589-B21_900GB 6G SAS_HDD_10K_SFF_ROHS	2
7109443	Hewlett-Packard	656363-B21	HP 656363-B21_HP 750W_COMMON SLOT_PLATINUM PLUS_HOT PLUG POWER SUPPLY KIT_ROHS	2
7109443	Hewlett-Packard	512485-B21	HP 512485-B21_PROLIANT ESSENTIALS_INTEGRATED LIGHTS-OUT ADVANCED PACK_1 SVR LICENSE_NO MEDIA	1
7109443	Hewlett-Packard	684208-B21	HP 684208-B21_HP FLEXLOM_1GB_4-PORT_331FLR ETHERNET ADAPTER_ROHS	1
7109443	Hewlett-Packard	647594-B21	HP 647594-B21_331T_4P_1G_PCIE ADAPTER_ROHS	1

Table 4-10 (Cont.) Gen 8 Server (AC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
7109443	Hewlett-Packard	663478-B21	HP 663478-B21_HP 2U_SFF_BALL BEARING GEN8 RAIL KIT_ROHS	1
7110434	Anixter	814-0034-07	ASSEMBLY MATERIALS_RMS _EXTENTION KIT_ETH CABLES_ROHS 5/6	1
NOAM Server				
7108054			HP D9N03A_DL380 GEN8_AC_SERV ER_001_ROHS	1
7108054	Hewlett-Packard	653200-B21	HP 653200-B21_HP DL380P GEN8 8_SFF_CTO CHASSIS_ROHS	1
7108054	Hewlett-Packard	715215-L21	HP DL380p Gen8 E5-2680v2 FIO Kit	1
7108054	Hewlett-Packard	715215-B21	HP DL380p Gen8 E5-2680v2 Kit	1
7108054	Hewlett-Packard	708641-B21	HP 16GB 2Rx4 PC3-14900R-13 Kit	8
7108054	Hewlett-Packard	631679-B21	HP 631679-B21_HP 1GB P SERIES_SMART ARRAY_FLASH BACKED WRITE CACHE UPGRADE_ROHS	1
7108054	Hewlett-Packard	652589-B21	HP 652589-B21_900GB 6G SAS_HDD_10K_S FF_ROHS	2
7108054	Hewlett-Packard	656363-B21	HP 656363-B21_HP 750W_COMMON SLOT_PLATINUM PLUS_HOT PLUG POWER SUPPLY KIT_ROHS	2

Table 4-10 (Cont.) Gen 8 Server (AC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
7108054	Hewlett-Packard	512485-B21	HP 512485-B21_PROLIANT ESSENTIALS_INTEGRATED LIGHTS-OUT ADVANCED PACK_1 SVR LICENSE_NO MEDIA	1
7108054	Hewlett-Packard	684208-B21	HP 684208-B21_HP FLEXLOM_1GB_4 -PORT_331FLR ETHERNET ADAPTER_ROHS	1
7108054	Hewlett-Packard	647594-B21	HP 647594-B21_331T_4P_1G_PCIE ADAPTER_ROHS	1
7108054	Hewlett-Packard	663478-B21	HP 663478-B21_HP 2U_SFF_BALL BEARING GEN8 RAIL KIT_ROHS	1
7110434	Anixter	814-0034-07	ASSEMBLY MATERIALS_RMS_EXTENSION KIT_ETH CABLES_ROHS 5/6	1
SDS Server				
7108054			HP D9N03A_DL380 GEN8_AC_SERVER_001_ROHS	1
7108054	Hewlett-Packard	653200-B21	HP 653200-B21_HP DL380P GEN8 8_SFF_CTO CHASSIS_ROHS	1
7108054	Hewlett-Packard	715215-L21	HP DL380p Gen8 E5-2680v2 FIO Kit	1
7108054	Hewlett-Packard	715215-B21	HP DL380p Gen8 E5-2680v2 Kit	1
7108054	Hewlett-Packard	708641-B21	HP 16GB 2Rx4 PC3-14900R-13 Kit	8

Table 4-10 (Cont.) Gen 8 Server (AC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
7108054	Hewlett-Packard	631679-B21	HP 631679-B21_HP 1GB P SERIES_SMART ARRAY_FLASH BACKED WRITE CACHE UPGRADE_ROHS	1
7108054	Hewlett-Packard	652589-B21	HP 652589-B21_900GB 6G SAS_HDD_10K_SFF_ROHS	2
7108054	Hewlett-Packard	656363-B21	HP 656363-B21_HP 750W_COMMON SLOT_PLATINUM PLUS_HOT PLUG POWER SUPPLY KIT_ROHS	2
7108054	Hewlett-Packard	512485-B21	HP 512485-B21_PROLIANT ESSENTIALS_INTEGRATED LIGHTS-OUT ADVANCED PACK_1 SVR LICENSE_NO MEDIA	1
7108054	Hewlett-Packard	684208-B21	HP 684208-B21_HP FLEXLOM_1GB_4-PORT_331FLR ETHERNET ADAPTER_ROHS	1
7108054	Hewlett-Packard	647594-B21	HP 647594-B21_331T_4P_1G_PCIE ADAPTER_ROHS	1
7108054	Hewlett-Packard	663478-B21	HP 663478-B21_HP 2U_SFF_BALL BEARING GEN8 RAIL KIT_ROHS	1
7110434	Anixter	814-0034-07	ASSEMBLY MATERIALS_RMS_EXTENSION KIT_ETH CABLES_ROHS 5/6	1
Query Server				

Table 4-10 (Cont.) Gen 8 Server (AC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
7108054			HP D9N03A_DL380 GEN8_AC_SERV ER_001_ROHS	1
7108054	Hewlett-Packard	653200-B21	HP 653200- B21_HP DL380P GEN8 8_SFF_CTO CHASSIS_ROHS	1
7108054	Hewlett-Packard	715215-L21	HP DL380p Gen8 E5-2680v2 FIO Kit	1
7108054	Hewlett-Packard	715215-B21	HP DL380p Gen8 E5-2680v2 Kit	1
7108054	Hewlett-Packard	708641-B21	HP 16GB 2Rx4 PC3-14900R-13 Kit	8
7108054	Hewlett-Packard	631679-B21	HP 631679- B21_HP 1GB P SERIES_SMART ARRAY_FLASH BACKED WRITE CACHE UPGRADE_ROHS	1
7108054	Hewlett-Packard	652589-B21	HP 652589- B21_900GB 6G SAS_HDD_10K_S FF_ROHS	2
7108054	Hewlett-Packard	656363-B21	HP 656363- B21_HP 750W_COMMON SLOT_PLATINUM PLUS_HOT PLUG POWER SUPPLY KIT_ROHS	2
7108054	Hewlett-Packard	512485-B21	HP 512485- B21_PROLIANT ESSENTIALS_INT TEGRATED LIGHTS-OUT ADVANCED PACK_1 SVR LICENSE_NO MEDIA	1
7108054	Hewlett-Packard	684208-B21	HP 684208- B21_HP FLEXLOM_1GB_4 -PORT_331FLR ETHERNET ADAPTER_ROHS	1

Table 4-10 (Cont.) Gen 8 Server (AC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
7108054	Hewlett-Packard	647594-B21	HP 647594-B21_331T_4P_1G_PCIE_ADAPTER_ROHS	1
7108054	Hewlett-Packard	663478-B21	HP 663478-B21_HP_2U_SFF_BALL_BEARING_GEN8_RAIL_KIT_ROHS	1
7110434	Anixter	814-0034-07	ASSEMBLY_MATERIALS_RMS_EXTENTION_KIT_ETH_CABLES_ROHS_5/6	1
Gen 8 IDIH Server				
7108067			HP D9U37A_DL380_GEN8_AC_SERVER_005_ROHS	1
7108067	Hewlett-Packard	653200-B21	HP 653200-B21_HP_DL380P_GEN8_8_SFF_CTO_CHASSIS_ROHS	1
7108067	Hewlett-Packard	715215-L21	HP DL380p Gen8 E5-2680v2 FIO Kit	1
7108067	Hewlett-Packard	715215-B21	HP DL380p Gen8 E5-2680v2 Kit	1
7108067	Hewlett-Packard	708641-B21	HP 16GB 2Rx4 PC3-14900R-13 Kit	8
7108067	Hewlett-Packard	631679-B21	HP 631679-B21_HP_1GB_P_SERIES_SMART_ARRAY_FLASH_BACKED_WRITE_CACHE_UPGRADE_ROHS	1
7108067	Hewlett-Packard	652589-B21	HP 652589-B21_900GB_6G_SAS_HDD_10K_SFF_ROHS	6
7108067	Hewlett-Packard	656363-B21	HP 656363-B21_HP_750W_COMMON_SLOT_PLATINUM_PLUS_HOT_PLUG_POWER_SUPPLY_KIT_ROHS	2

Table 4-10 (Cont.) Gen 8 Server (AC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
7108067	Hewlett-Packard	512485-B21	HP 512485-B21_PROLIANT ESSENTIALS_INT EGRATED LIGHTS-OUT ADVANCED PACK_1 SVR LICENSE_NO MEDIA	1
7108067	Hewlett-Packard	684208-B21	HP 684208-B21_HP FLEXLOM_1GB_4 -PORT_331FLR ETHERNET ADAPTER_ROHS	1
7108067	Hewlett-Packard	593722-B21	HP 593722-B21_NC365T_4 PORT ETHERNET SERVER ADAPTER_ROHS	2
7108067	Hewlett-Packard	631670-B21	HP 631670-B21_HP SMART ARRAY_P420/1GIB FBWC CONTROLLER_R OHS	1
7108067	Hewlett-Packard	662883-B21	HP 662883-B21_HP 380/385 GEN8_8-SFF CAGE/BKPLN KIT_ROHS	1
7108067	Hewlett-Packard	663478-B21	HP 663478-B21_HP 2U_SFF_BALL BEARING GEN8 RAIL KIT_ROHS	1
7108067	Hewlett-Packard	662897-B21	HP 662897-B21_HP MINI SAS STRAIGHT TO STRAIGHT 37IN CABLE ASSEMBLIES_RO HS	2
7108067	Hewlett-Packard	653206-B21	HP 653206-B21_DL380P/385P GEN8 3 SLOT PCI-E RISER KIT_ROHS	1

Table 4-10 (Cont.) Gen 8 Server (AC Power)

Oracle Part Number	Supplier	Supplier Part Number	Description	Unit Qty
7110434	Anixter	814-0034-07	ASSEMBLY MATERIALS_RMS _EXTENTION KIT_ETH CABLES_ROHS 5/6	1

5

Firmware Components

The firmware components are software that is installed on the Hardware. These components are listed in this chapter and are also listed in the Firmware Release Notice. Please refer to the latest Firmware Release Notice for any updates to this list.

Oracle Firmware Upgrade Pack

Oracle Firmware Upgrade Pack Release Notes 3.1.8, HP Solutions Firmware Upgrade Pack Release Notes 2.2.12 and 2.2.13 provide information about the firmware versions approved for this Oracle Firmware Upgrade Pack release to assist customers with upgrading their Oracle hardware. Also, additional instructions and guidance on the firmware upgrades have been provided wherever possible.

These Release Notes are available on Oracle Help Center (OHC) at https://docs.oracle.com/cd/E93250_01/index.htm.

6

Supported Upgrade Paths

This release has been tested for an upgrade from specific prior releases. This chapter contains the exact paths for the upgrade. Please verify your current installed release is listed on a valid upgrade path.

The possible upgrade paths to DSR Release 8.5.0.2.0 are listed in the following table:

Component	From	To
DSR	8.4.0.X.Y, 8.5	8.5.0.X
SDS	8.4.0.X.Y, 8.5	8.5.0.X
IDIH	8.2.1, 8.2.2	8.2.3
vSTP	8.4, 8.4.0.3, 8.4.0.5, 8.4.0.6, 8.5	8.5.0.X

where X denotes PI end cycle and Y denotes patches within the PIC cycle

Note:

- Any upgrade other than listed above is not recommended or supported. Version 8.5 is supported as a new or fresh installation.
- VEDSR is not supported from DSR Release 8.3 onwards.
- Diameter Security Application (DSA) with Universal-SBR (USBR) application is not supported from DSR Release 8.4.0.5.0. Customers using this application must not upgrade DSR software to DSR 8.4.0.5.0 release and should migrate to DSA with UDR based application.
- Zero Balance Application with USBR and Steering of Roaming (SOR) with USBR are not supported from DSR Release 8.4.0.5.0 and later. Customers using these applications must not upgrade the DSR software to DSR 8.4.0.5.0 or later release and should migrate to ZBA with UDR and SOR with UDR based applications.

7

Resolved and Known Bugs

This chapter lists the resolved and known bugs for DSR release 8.5.x.

These lists are distributed to customers with a new software release at the time of General Availability (GA) and are updated for each maintenance release.

Severity Definitions

The problem report sections in this document refer to bug severity levels. Definitions of these levels can be found in the publication, *TL 9000 Quality Management System Measurement Handbook*.

Problem Report

A report from a customer or on behalf of the customer concerning a product or process defect requesting an investigation of the issue and a resolution to remove the cause. The report may be issued via any medium.

Problem reports are systemic deficiencies with Hardware, software, documentation, delivery, billing, invoicing, servicing, or any other process involved with the acquisition, operation, or performance of a product. An incident reported simply to request help to bring back the service or functionality to normal without the intent to investigate and provide a resolution to the cause of the incident is not a problem report.

1. **Critical:** Conditions that severely affect the primary functionality of the product and because of the business impact to the customer requires non-stop immediate corrective action regardless of time of day, or day of the week as viewed by a customer on discussion with the organization such as:
 - Product inoperability (total or partial outage),
 - A reduction in the capacity capability, that is, traffic/data handling capability, such that expected loads cannot be handled,
 - Any loss of emergency capability (for example, emergency 911 calls), or
 - Safety hazard or risk of security breach.
2. **Major:** Product is usable, but a condition exists that seriously degrades the product operation, maintenance, or administration, etc., and requires attention during pre-defined standard hours to resolve the situation. The urgency is less than in critical situations because of a less immediate or impending effect on product performance, customers, and the customer's operation and revenue, such as:
 - Reduction in product's capacity (but still able to handle the expected load),
 - Any loss of administrative or maintenance visibility of the product and/or diagnostic capability,
 - Repeated degradation of an essential component or function, or
 - Degradation of the product's ability to provide any required notification of malfunction.

3. Minor: Other problems of a lesser severity than critical or major such as conditions that have little or no impairment on the function of the system.

The numbered severity levels in the tables below correspond to these definitions of 1–Critical, 2–Major, or 3–Minor.

Resolved Bug List

Release 8.5.0.2.0

DSR

Table 7-1 DSR Release 8.5.0.2.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32705552	3	8.4.0.0.0	No XML document error while exporting alarm history at SOAM and NOAM
32746021	3	8.4.0.0.0	Edit of Peer Node failed when 32 Peers are configured
33006967	3	8.5.0.0.0	Fix for Rx Sh UDR comagent alarm for release 8.5.0.0.0.2.0
33019146	3	8.5.0.0.0	Diameter: Peer Node Groups Export fails
33140635	4	8.5.0.0.0	IPFE reboot is observed, due to the ETH OPS Line getting added during the upgrade
31678337	3	8.1.0.0.0	GUI for SNMP Trap Ack/Unack partial command not working
25529974	3	8.0.0.0.0	DSR MMI Issues in AppWorks MON URIs
32547500	4	8.4.0.0.0	"count" is different than the total records in CSV exported file

vSTP

Table 7-2 vSTP Release 8.5.0.2.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
33051190	3	8.5.0.0.0	Incorrect Transaction Portion on VSTP generated TCAP Error
33051180	3	8.5.0.0.0	TOBR not working for segmented xudt
32741924	2	8.5.0.0.0	MMI is NOT allowing to add IPv6 Connection
33030133	3	8.5.0.0.0	Linkset BIE not working correctly and there are incorrect SSN prohibited alarms

Table 7-2 (Cont.) vSTP Release 8.5.0.2.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
33184829	2	8.5.0.0.0	Issues in Local Signaling Point, Remote Signaling Point and Network Appearances due to group code
33207557	3	8.5.0.0.0	vSTP adding extra bytes to outgoing message causing message length to exceed 272 bytes
33236804	3	8.5.0.0.0	ServingNodeIndication not going in ATI request in PS domain(SFAPP Feature)
33198402	3	8.5.0.0.0	ITUIS and ITUNS pointcode support for Sfapp

VNFM**Table 7-3 VNFM Release 5.2.0.0.0 Resolved Bugs**

Bug Number	Severity	Found in Release	Title
33233157	2	5.0.0.0.0	Update apache tomcat to 9.0.50
33168721	3	5.0.0.0.0	Automate TSA Port Deletion on OpenStack while Termination
33168740	3	5.0.0.0.0	Rsync fix for not working on secondary vnfm
33164190	3	5.0.0.0.0	Cloud-init Fix For DR-NOAM issue
33203994	3	5.0.0.0.0	NOAM 01 cloud-init failure with state OOS
33149013	3	5.0.0.0.0	Automate Networking -> Services for Segregation of OAM and Replication Traffic.
32446561	3	5.0.0.0.0	Apache Tomcat 9.x < 9.0.40 Information Disclosure
32446781	3	5.0.0.0.0	SSH Server CBC Mode Ciphers Enabled
32446690	3	5.0.0.0.0	Apache Tomcat 5.0.0.0.0.x < 5.0.0.0.0.58 / 9.0.x < 9.0.38 HTTP/2 Request Mix-Up
32918962	3	5.0.0.0.0	Deploy APIGW VNF with Fixed IP address support
31768098	3	5.0.0.0.0	VNFM to support Scale out feature for APIGW VNF

SCEF

Table 7-4 SCEF Release 8.5.0.2.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
33062871	3	8.5.0.0.0	SCEF: UE_REACHABILITY reporting needs correction
31363175	3	8.5.0.0.0	SCEF: AVP Number-Of-UE-Per-Location-Configuration is absent in CIR (ME NUMBER_OF_UES_IN_AN_AREA)
32338889	3	8.5.0.0.0	SCEF does not report edrxCycleLength and suggestedNumberOfD on T8
32976061	3	8.5.0.0.0	SCEF: ME Group subscription and reporting
32809663	3	8.5.0.0.0	SCEF: Support for External Group identifier for NIDD

Release 8.5.0.1.0

DSR

Table 7-5 DSR Release 8.5.0.1.0 Resolved Bugs

Bug Number	Severity	Found In Release	Title
32673235	3	8.5.0.0.0	Database backup issue fix for ATS suite execution
32584437	4	8.5.0.0.0	VPLMNID_OLD State Data Field Name in UDR is mismatching
32246540	2	8.5.0.0.0	Patch delivery mechanism for BUG# 32202445 IPFE Target Sets MMI should expand the short form of IPv6 Addresses before entering in DB
32216053	3	8.5.0.0.0	Import/Export Support for all Radius MO's
32215542	4	8.5.0.0.0	DCA based Rx-ShUDR application Drop-2
32202469	3	8.5.0.0.0	ATS should use the long IPv6 format while inserting IPFE Target Sets through MMI

Table 7-5 (Cont.) DSR Release 8.5.0.1.0 Resolved Bugs

Bug Number	Severity	Found In Release	Title
32202445	3	8.5.0.0.0	IPFE Target Sets MMI should expand the short form of IPv6 Addresses before entering in DB
32161952	4	8.5.0.0.0	MCPTT Rx Gateway feature Code bug(Development Feature)
32140015	4	8.5.0.0.0	MPN vDRA feature request - Radius, Rf interface
32134480	3	8.5.0.0.0	DSA Package issue for grok pattern (ELK sample deliverable for customer)
32130808	2	8.5.0.0.0	Observed error Family/Opcode :[Error Code 002] - Invalid Syntax while editing opcode gta translation with family=*
32101395	4	8.5.0.0.0	vSTP SFAPP (SS7 FW) - ATI_ACK Decoding Error
32092399	4	8.5.0.0.0	HEAL VNF REST Resource Support for VNFM
32077093	3	8.5.0.0.0	SOAM PostUpgrade HealthCheck returns No Checks run
32077037	3	8.5.0.0.0	Change in MTP3 Configs user documentation.
32071538	3	8.5.0.0.0	Modify VNF URL fix
32056882	3	8.5.0.0.0	Discover REST request fails on Secondary VNFM
32045289	4	8.5.0.0.0	Rx-ShUDR DCA Application - MCPTT Rx Gateway feature
32017329	4	8.5.0.0.0	Invalid time/date in Diagnostic Tool Report
32012205	3	8.5.0.0.0	RADIUS UDP Client Ports with enabled Radius Connection
31993819	3	8.5.0.0.0	Not able to modify the entry in NPP Service Table

Table 7-5 (Cont.) DSR Release 8.5.0.1.0 Resolved Bugs

Bug Number	Severity	Found In Release	Title
31869913	3	8.5.0.0.0	R8.5.0.0.0_ST:Incorrect information in /vstp/remotesignalingpoints tatus MO
31869206	4	8.5.0.0.0	Comagent MMI commands not supported for older MMI version 3.0
31862788	4	8.5.0.0.0	R8.5.0.0.0_ST:asNotification adding as default parameter for Mtp2 type linksets
31846900	3	8.5.0.0.0	DSA Support for Session Integrity Validation Check
31818625	3	8.5.0.0.0	Ingress MSG per second counter on connection is not clearing after the traffic stops
31774486	4	8.5.0.0.0	system not allowed to delete the places directly even place association was present
31646904	4	8.5.0.0.0	MP_Perf: Performance rate of 5K TIF & 8GTT not working
31185206	3	8.5.0.0.0	8.4.0.5: httpd linux process core file formed post upgrade
30817039	4	8.5.0.0.0	DSA: Timeout answers messages not processed by Stateless CM limitation
29451723	3	8.5.0.0.0	Observed success and Error confirmations together when applied filter in KPIs screen
29373957	4	8.5.0.0.0	MMI allows nsfi=afdstn for si=1 and si=2 for SIO MTP screening rules, whereas not for SI>=3
29367616	3	8.5.0.0.0	Database backup is not working for SDS SO in Rel 8.4.0.0.0-84.11.3

Table 7-5 (Cont.) DSR Release 8.5.0.1.0 Resolved Bugs

Bug Number	Severity	Found In Release	Title
29226921	4	8.5.0.0.0	[MMI] - /vstp/ featureadminstates - RAML document should be updated for supported GET/PUT Operations
27301480	3	8.5.0.0.0	Configuration of TCAP GTT entries
25975473	4	8.5.0.0.0	M2PA link status gets displayed as UP though its down
3251756	3	8.5.0.0.0	Subsystem Prohibited event not found on VSTP
32281311	3	8.5.0.0.0	Secondary Route Restricted on vSTP
32791474	3	8.5.0.0.0	vSTP setting spare bit value 0x03 by default in SLTM/SLTA message for ITU-I domain which causes link failure
31989029	4	8.4.0.0.0	Active and Standby NOAMs/SOAMs are sending SNMP traps instead of Active only

vSTP**Table 7-6 vSTP Release 8.5.0.1.0 Resolved Bugs**

Bug number	Severity	Found In Release	Subject
32672060	2	8.5.0.0.0	elynx driver is not loaded on VSTP release 8.5.0.0.0.1.0_91.12.0
32648541	3	8.5.0.0.0	HomeSMSC: Phase2 Call flow is working correctly with SMRPDA tag=81 (LMSI) in MTFSM Opcode
32647813	4	8.5.0.0.0	Retrieve linkset MO entries from SCCP instead of M3RL
32643425	3	8.5.0.0.0	Unwanted EXP DATA seen on outgoing updateLocation message after SFAPP processing

Table 7-6 (Cont.) vSTP Release 8.5.0.1.0 Resolved Bugs

Bug number	Severity	Found In Release	Subject
32637384	3	8.5.0.0.0	DSR 8.5.0.0.0: dsr process crash observed on all DAMPs in fresh Install, NO-DAMP leader detected & DB Replication alarms observed on GUI
32616855	2	8.5.0.0.0	Observed service MP unavailable alarm on 8.5.0.0.0.1.0_91.10.0 after upgrade.
32616525	3	8.5.0.0.0	vSTP Incremental upgrade failing from from Rel. 91.9 to Rel. 91.10
32611187	3	8.5.0.0.0	HomeSMSC: Incomplete event in case of IMSI length in MTFSM message is not equal to 14/15
32598483	2	8.5.0.0.0	HomeSMSC: MTFSM validation not working correctly in case of segmented XUDT MTFSM msgs
32598288	3	8.5.0.0.0	vSTP use TPC instead of SPC for M2PA linksets
32589739	2	8.5.0.0.0	vSTP_SIG: Traffic is not getting transmitted from MP after enabling Accounting Measurement Feature
32585749	3	8.5.0.0.0	vSTP - Known issues in ELYNX feature
32581131	4	8.5.0.0.0	abterm seen in Route on SSN CGPA MOFSM packet on applying default action
32579579	2	8.5.0.0.0	HomeSMSC: vstp process is getting restarted on SS7 MP IF MT-FSM positive case has run just after negative case
32573302	4	8.5.0.0.0	Feature Admin State GUI Screen is displaying ¿TBGTTLS¿ feature status as No/Yes

Table 7-6 (Cont.) vSTP Release 8.5.0.1.0 Resolved Bugs

Bug number	Severity	Found In Release	Subject
32573104	3	8.5.0.0.0	HomeSMSC:Event NOT raised for MSISDN entry Not Found case in reportSmDeliveryStatus message
32572618	3	8.5.0.0.0	HomeSMSC: Incorrect handling in case of SRIACK received instead of MTFSM ACK
32572301	3	8.5.0.0.0	HomeSMSC: [Phase3] Incorrect behavior observed If sending ReportSM-DeliveryStatus message with MSISDN tag other than 0x04
32566081	2	8.5.0.0.0	vstp-gui RPM is missing from DSR.pkglist file
32564910	3	8.5.0.0.0	Incremental Upgrade Failing if vstp RPM is changed manually on the server
32557666	2	8.5.0.0.0	8.5.0.0.0.1_ST:NPP not applied correctly on MOSMS & IDPR
32554005	3	8.5.0.0.0	Preventive TFP not being sent to active route.
32552172	3	8.5.0.0.0	HomeSMSC: Fallback measurement is NOT getting pegged If Sending SRI-SM message without CGPA and Default Action=Fallback
32548095	2	8.5.0.0.0	HomeSMSC: [Perf]: Few MO-FSM calls were getting discarded due to SRI-SM Timeout when successful calls were running with 500 TPS
32548037	4	8.5.0.0.0	SRI SM ACK/MT FSM ACK should be send to proxy if CdRI = route on SSN and GTT digits matches proxy digits and other hope counter/class issues

Table 7-6 (Cont.) vSTP Release 8.5.0.1.0 Resolved Bugs

Bug number	Severity	Found In Release	Subject
32547398	3	8.5.0.0.0	HomeSMSC:Scmbllmsi Len parameter needs to be removed from smsproxyoptions MO
32546800	3	8.5.0.0.0	vSTP - Known issues in ELYNX feature
32543707	4	8.5.0.0.0	Error Codes additions and Enhancements for Elynx Interface Mapping Feature
32537424	3	8.5.0.0.0	HomeSMSC: 'SmsProxy' parameter should be turned ON for HLR linkset also
32537182	3	8.5.0.0.0	HomeSMSC: Inconsistent VstpSMSProxyMTSMIn vkTimeout and VstpSMSProxySRISMS ucc Meas when MTFSM is not received
32530573	2	8.5.0.0.0	HomeSMSC: One Proxy MP (out of 4 proxy MPs) is NOT able to handle MO-FSM Traffic
32529943	3	8.5.0.0.0	Upgrade loader missing for TID NOT FOUND FOR ACK
32523476	3	8.5.0.0.0	HomeSMSC: Messages should fall through normal GTT processing If Service MPs are Unavailable
32510662	3	8.5.0.0.0	8.5.0.0.0.1_ST:guiReq Map.log increasing in size to 3.2G
32507526	2	8.5.0.0.0	HomeSMSC: Proxy MP changing the Hop counter of reassembled message to 0
32495734	3	8.5.0.0.0	HomeSMSC: Phase2:Incorrect behavior when sending MT-FSM with Class1 Message
32489847	3	8.5.0.0.0	HomeSMSC: Phase2: Incorrect behavior observed If SRI-SM-ACK message is sending without Dialogue Portion

Table 7-6 (Cont.) vSTP Release 8.5.0.1.0 Resolved Bugs

Bug number	Severity	Found In Release	Subject
32488778	2	8.5.0.0.0	Tcap_Dec_enh:Event(70457) is not getting raised when sending message with invalid length in the transaction portion.
32487182	3	8.5.0.0.0	HomeSMSC: DOS functionality timer not working correctly
32487175	3	8.5.0.0.0	HomeSMSC:Incorrect encoding of reportSmDeliveryStatus message by proxy MP
32484026	3	8.5.0.0.0	8.5.0.0.0.1_TIF_enh:actSetName not updated in npsrs with PUT in GUI
32482530	3	8.5.0.0.0	8.5.0.0.0.1_TIF_enh: Generic name is getting display incorrectly in the generic name GUI screen
32482334	3	8.5.0.0.0	HomeSMSC: Phase2: NO event has raised when sending SRI-SM-ACK message for which 'Message Length' in TCAP part is NOT correct
32477461	2	8.5.0.0.0	HomeSMSC: Observed vstpservice boot when sending MO-FSM messages at 100 TPS such that SCCP Validation Failed and default action=Udts was configured.
32476929	4	8.5.0.0.0	Incorrect structure used for memset size
32476925	4	8.5.0.0.0	Hard coded calculation for memcpy size
32476792	4	8.5.0.0.0	vSTP: GUI - No GTA addresses filtered when using "Filter LIKE <GTA_ADDRESS>"
32468714	3	8.5.0.0.0	HomeSMSC:VstpSMSP roxyMTSMMsgDiscard not pegging in case of VLR decoding error in SRI-ACK

Table 7-6 (Cont.) vSTP Release 8.5.0.1.0 Resolved Bugs

Bug number	Severity	Found In Release	Subject
32467933	2	8.5.0.0.0	Tcap_Dec_enh: Message is not getting discarded when sending a message with invalid length of ACN.
32462501	2	8.5.0.0.0	HomeSMSC: Getting DEOCDE ERROR when sending MOFSM message with Package type as CONTINUE
32457476	2	8.5.0.0.0	HomeSMSC: Getting vstp service boot when 2 TPS MT-Spoofing successful calls are running and in parallel 200 TPS only MT-FSM messages are running.
32452863	2	8.5.0.0.0	HomeSMSC: Inconsistent MTFSM processing in case of SCRAMBLED IMSI MISMATCH
32452701	2	8.5.0.0.0	HomeSMSC: vstp service process is getting booted If SRISM message was sending without CGPA and Discard action has configured (Phase-2)
32440096	4	8.5.0.0.0	Enhance ASN.1 decoding to restrict additional octets in TCAP layer
32438439	3	8.5.0.0.0	HomeSMSC: Incorrect behavior observed If sending MT-FSM message with SMRPOA tag other than 0x82
32433337	3	8.5.0.0.0	HomeSMSC: Hex digits are not shown for SMRPOA address in event vstp service#70454
32433280	3	8.5.0.0.0	HomeSMSC: Incorrect behavior observed If OTID and DTID are NOT same in SRI-SM and SRI-SM-ACK.

Table 7-6 (Cont.) vSTP Release 8.5.0.1.0 Resolved Bugs

Bug number	Severity	Found In Release	Subject
32433261	3	8.5.0.0.0	HomeSMSC:Incomplete content in event vstpservice#70450 Error Cause = SCRAMBLED IMSI NOT FOUND
32433242	3	8.5.0.0.0	HomeSMSC: Incorrect event raised in case of IMSI length in MT-FSM message is not equal to 14/15
32433128	2	8.5.0.0.0	MOFSM Discard and Encoding pegs/ATH are getting raised in Performance scenario
32428801	3	8.5.0.0.0	HomeSMSC: Incorrect Event raised If VLR tag is other than 0xA0 in SRI-ACK
32427958	3	8.5.0.0.0	Separate TX measurement for MTFSM packet at SS7 MP when CDPA matches with ProxyGT digits
32427939	3	8.5.0.0.0	Create similar measurement for MO case VstpSMSProxySRISMS ucc and create one for TID failure.
32427927	3	8.5.0.0.0	Delivery report TX handling at SS7 MP flag , proxy digit checking opcode based, measurement handling and changes at proxy when CDPA does not match Proxy Digits
32427018	2	8.5.0.0.0	M2PA link went down with reason "M2PA Delayed Acknowledgement Timer(T7) Expired" after 4-5 hours on long duration run
32420441	3	8.5.0.0.0	HomeSMSC:VstpSMSProxyMOSMMsgDiscard meas not pegged with MO-FSM CGPA BlockList

Table 7-6 (Cont.) vSTP Release 8.5.0.1.0 Resolved Bugs

Bug number	Severity	Found In Release	Subject
32419209	3	8.5.0.0.0	HomeSMSC: Inconsistent behavior of measurements VstpSMSProxyMTSMTx and VstpSMSProxySRISMTx.
32418796	3	8.5.0.0.0	HomeSMSC: Incorrect behavior If SRI-SM message is sending without CGPA digits in case of MT-Spoofing.
32412620	3	8.5.0.0.0	8.5.0.0.0.0.1_TIF_enh: I nvalidate gname entries with preceding spaces, succeeding spaces and only spaces
32406573	3	8.5.0.0.0	HomeSMSC: Unexpected issues obsrvd in case of default action UDTS and TCAPERR
32402134	3	8.5.0.0.0	HomeSMSC: MTFSM functionality change in case of MTFSM CDPA is NOT proxy GT
32400589	2	8.5.0.0.0	HomeSMSC: Getting vstp service boot in case of SRI-ACK decoding in case of MT-FSM successful scenario
32400562	2	8.5.0.0.0	HomeSMSC: vstp service getting booted when successful scenario is running with 10 TPS only for MO-FSM processing
32397331	3	8.5.0.0.0	HomeSMSC: MOFSM incorrectly processing the Incorrect IMSI tag
32397271	3	8.5.0.0.0	8.5.0.0.0.0.1_TIF_enh: I ncorrect default value of GenericNameSet in linkset MO
32393565	2	8.5.0.0.0	8.5.0.0.0.0.1_TIF_enh: Message is getting relayed instead of discard by tifgnbl SA
32393086	3	8.5.0.0.0	vSTP_SIG: Buffer size need to be updated as there is traffic loss at 20K TPS

Table 7-6 (Cont.) vSTP Release 8.5.0.1.0 Resolved Bugs

Bug number	Severity	Found In Release	Subject
32380689	3	8.5.0.0.0	vSTP_Mul : In vital logs information for "Translation Found" is coming
32375866	3	8.5.0.0.0	KPI and Performance Measurement support on VSTPService
32371383	2	8.5.0.0.0	HomeSMSC: Observed inconsistent behavior among the Service MPs.
32370662	2	8.5.0.0.0	HomeSMSC:Observing vstp service boot in case of opcode other than MT-FSM received at proxy MP
32366315	3	8.5.0.0.0	8.5.0.0.0.1_TIF_enh: Unable to perform Edit Operation Using Gname GUI for Gname having #&+ special characters
32353741	3	8.5.0.0.0	HomeSMSC: VstpSMSProxyMOSMS ccpValSucc measurement is NOT getting pegged under System-Wide
32353333	3	8.5.0.0.0	HomeSMSC:Inconsistent behavior in case vstp receives SRISM message with dialog portion missing
32353322	3	8.5.0.0.0	HomeSMSC:Default action TCAPERR not working correctly in case of MT-FSM validation failed scenario
32349436	2	8.5.0.0.0	HomeSMSC: vstp service booted when sending MO-FSM messages at 10 TPS and NOT sending SRI-ACK
32348907	2	8.5.0.0.0	HomeSMSC: VSTP process booted in case of MT-FSM processing
32344023	3	8.5.0.0.0	Observed Major alarm "CFG-DB Validation Error" after updating the IP address of existing Localhost

Table 7-6 (Cont.) vSTP Release 8.5.0.1.0 Resolved Bugs

Bug number	Severity	Found In Release	Subject
32343558	3	8.5.0.0.0	HomeSMSC: Incorrect event raised in case of MT-FSM validation Failed scenario
32343529	3	8.5.0.0.0	HomeSMSC: NO event raised in case of IMSI length in SRI-ACK is not equal to 14/15
32343507	2	8.5.0.0.0	HomeSMSC: vstpservice process booted in case of SRISM CGPA is configured as BlockList in SMSCSTATUS MO
32343444	2	8.5.0.0.0	HomeSMSC:vstpservice process booted in case of MT-FSM success scenario
32343406	2	8.5.0.0.0	HomeSMSC:MOFSM processing NOT working correctly in case of segmented MOFSM XUDT messages
32338564	3	8.5.0.0.0.1	8.5.0.0.0.1_TIF_enh: MMI Issue in GET and DELETE operation of genericname MO
32328912	3	8.5.0.0.0	HomeSMSC:Mandatory parameters are missing from event vstpservice#70450
32322426	3	8.5.0.0.0	MBR is NOT working for ATI-ACK and PSI-ACK with dialogue response tag 0X61
32322420	3	8.5.0.0.0	ATI-ACK is not getting decoded if optional user information is present in dialogue portion
32319968	2	8.5.0.0.0	HomeSMSC: Getting vstpservice boot when sending MO-FSM with MAP version other than 3
32319526	3	8.5.0.0.0	HomeSMSC: Message should be simply discarded at Proxy MP if there any Decoding Error found in MO-FSM or SRI-ACK packets

Table 7-6 (Cont.) vSTP Release 8.5.0.1.0 Resolved Bugs

Bug number	Severity	Found In Release	Subject
32309870	3	8.5.0.0.0	HomeSMSC: smscstatus MO AllowList and BlockList functionality change for HOMESMC feature
32309843	3	8.5.0.0.0	HomeSMSC:Mtfsmlnvk Timer expiry event along with meas. pegging needs to be enabled
32309465	3	8.5.0.0.0	HomeSMSC: Incorrect event in case of Scrambled IMSI mismatch
32309358	3	8.5.0.0.0	HomeSMSC:MT-FSM validation NOT working correctly
32298331	3	8.5.0.0.0	HomeSMSC: Unable to update smscstatus MO
32297671	3	8.5.0.0.0	HomeSMSC: TCAP-Error is not sending to Originator whenever default action (Tcaperr) triggered.
32296869	2	8.5.0.0.0	HomeSMSC: vstpserice process got restarted and abterms when sending messages at 10 TPS
32296600	4	8.5.0.0.0	8.5.0.0.0.0.1_TIF_enh: TIF Enhancement GUI Issues
32292223	3	8.5.0.0.0	HomeSMSC:Changes in messages received and transmitted by vSTP for MT-FSM processing
32282716	4	8.5.0.0.0	VSTPSERVICE_Proc process showing on NOAM
32281767	3	8.5.0.0.0	Performance Improvement for support of Reserved tps (Link Tps) and Max Link Tps for Link in Linkset in vSTP.
32266550	4	8.5.0.0.0	8.5.0.0.0.0.1_TIF_enh:E nhance TIFRDNBL SA TRACE
32256006	4	8.5.0.0.0	EAGLE Instances in vSTP Document

Table 7-6 (Cont.) vSTP Release 8.5.0.1.0 Resolved Bugs

Bug number	Severity	Found In Release	Subject
32251687	3	8.5.0.0.0	Observed error "AS notification is applicable only if adapter type is m3ua" if user edits M2PA & Mtp2 type of Linkset
32251366	4	8.5.0.0.0	vSTP_XUDT: Value of allowedFirstSegLen is not getting changed to 0
32251058	3	8.5.0.0.0	HomeSMSC: GTT hierarchies are NOT working with SRI-SM GTT translation.
32250536	3	8.5.0.0.0	HomeSMSC: CDPA PC=0 in UDTS when applying default action and Sending UDTS to Originator
32245172	3	8.5.0.0.0	HomeSMSC: Incorrect event structure for event vstpservice#70447{Service Validation Failed}
32245042	3	8.5.0.0.0	HomeSMSC: CDPA PC and CGPA PC both are same in TCAP Error when applying default action and sending TCAP-Error to Originator
32240797	2	8.5.0.0.0	vSTP : Max 10K traffic is getting transmitted from vSTP
32232779	2	8.5.0.0.0	HomeSMSC: vstpservice process restarted IF Validation Failed and default action=Udts applied.
32232084	2	8.5.0.0.0	HomeSMSC: Obsrvd vstpservice boot with 14 digit imsi length and successful validation case
32232061	2	8.5.0.0.0	HomeSMSC: MOFSM validation not working correctly in case of 15 digits IMSI length
32222405	3	8.5.0.0.0	vSTP_MulCom : Different behavior to handle 4 Opcode message for ANSI and ITUI domain

Table 7-6 (Cont.) vSTP Release 8.5.0.1.0 Resolved Bugs

Bug number	Severity	Found In Release	Subject
32215394	3	8.5.0.0.0	Incomplete TCAP data is printed for Event 70445.
32206437	3	8.5.0.0.0	HomeSMSC: MO-FSM message should be processed as per the SMSC Status entry for HEXA-Decimal digits
32206234	3	8.5.0.0.0	HomeSMSC: Incorrect proxy MP processing in case of XUDT segmented MOFSM messages
32192889	3	8.5.0.0.0	HomeSMSC: No decoding error generated from invalid message scenarios
32192437	4	8.5.0.0.0	Observed sev 4 during get operation on linksets MO.
32192398	3	8.5.0.0.0	HomeSMSC: NAI value of SMRPOA from the incoming message (MO-FSM) has ignored IF DefCC=None in VstpSMSProxyOptions
32191057	3	8.5.0.0.0	HomeSMSC: SRISM generated in case of GTI=0 in SCCP CG part
32188453	4	8.5.0.0.0	8.5.0.0.0.1_TIF_enh: Incorrect trace output of TIFLSBL
32174588	3	8.5.0.0.0	HomeSMSC: Service MPID should be in decimal format only when appending in CGPA to generating SRI-SM.
32173877	3	8.5.0.0.0	HomeSMSC: MMI: Not able to update single or few parameter in SMSC ProxyOptions MO
32169213	3	8.5.0.0.0	HomeSMSC: Issues found on SMSC Status MO
32169185	3	8.5.0.0.0	HomeSMSC: Issues found on SMSC ProxyOptions MO
32169006	3	8.5.0.0.0	HomeSMSC: Incorrect SRI-SM encoding

Table 7-6 (Cont.) vSTP Release 8.5.0.1.0 Resolved Bugs

Bug number	Severity	Found In Release	Subject
32168982	3	8.5.0.0.0	HomeSMSC:MMI Issue in "Sccpoptions" MO
32168924	3	8.5.0.0.0	HomeSMSC:ServiceMP Message Validation Decoding Error in case of 12 digits IMSI in SRI-ACK
32149732	3	8.5.0.0.0	Support of Reserved tps (Link Tps) and Max Link Tps for Link in Linkset in vSTP.
32135888	3	8.5.0.0.0	XUDT Reassembly procedure shall be discarded when First Segment length is less than Configured length
32134572	4	8.5.0.0.0	8.5.0.0.0.1_TIF_enh: RAML needs updation / vstp/npps-services for new SAs
32134530	3	8.5.0.0.0	8.5.0.0.0.1_TIF_enh: actSetName not updated with PUT when fd="any value"
32130808	3	8.5.0.0.0	Observed error "Family/ Opcode :[Error Code 002] - Invalid Syntax" while editing opcode gta translation with family=*
32122700	3	8.5.0.0.0	Parameter "allow multiple components" 's value "NO" is getting accepted while configuring GTA entry for other than opcode GTTSETTYPE
32120976	3	8.5.0.0.0	In VSTP GUI Parameter "Allow Multiple Components" has only two value either Yes & No
32115750	3	8.5.0.0.0	Parameter "checkmulcomp" are getting displayed with all type of GTTSETS on retrieval of GTTSET table
32104415	2	8.5.0.0.0	Abterm files are getting generated on VSTP MP server after doing fresh install on latest release 8.5.0.0.0.0.1_91.1.0

Table 7-6 (Cont.) vSTP Release 8.5.0.1.0 Resolved Bugs

Bug number	Severity	Found In Release	Subject
32101395	2	8.5.0.0.0	vSTP SFAPP (SS7 FW) - ATI_ACK Decoding Error
32078380	3	8.5.0.0.0	Module testing issue fixes vSTP TIF Enhancement
32077037	4	8.5.0.0.0	Change in MTP3 Configs user documentation.
32076737	4	8.5.0.0.0	MMI/GUI for TCAP Multicomponent MO
31993819	3	8.5.0.0.0	Not able to modify the entry in NPP Service Table
31869913	4	8.5.0.0.0	R8.5.0.0.0_ST:Incorrect information in /vstp/ remotesignalingpointsta tus MO
31862788	3	8.5.0.0.0	R8.5.0.0.0_ST: asNotification adding as default parameter for Mtp2 type linksets
31808634	4	8.5.0.0.0	[vSTP]: Buffer overflow by one
31646904	3	8.4.0.0.0	MP_Perf: Performance rate of 5K TIF & 8GTT not working
29373957	4	8.4.0.0.0	MMI allows nsfi=aftdstn for si=1 and si=2 for SIO MTP screening rules, whereas not for SI>=3
29226921	4	8.4.0.0.0	[MMI] - /vstp/ featureadminstates - RAML document should be updated for supported GET/PUT Operations
27301480	3	8.5.0.0.0	Configuration of TCAP GTT entries
25975473	4	8.1.0.0.0	M2PA link status gets displayed as UP though its down

VNFM

Table 7-7 VNFM 5.1.0.0.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32447038	3	5.0.0.0.0	Dual IP Stack Support for Diameter+SBR flavor for Signaling Stack
32447086	3	5.0.0.0.0	VNFM Support to Custom Size vDSR Instantiation
32427559	3	5.0.0.0.0	TSA Password removal in logs
32395396	3	5.0.0.0.0	Cloud-Init Improvements
32483811	3	5.0.0.0.0	Cloud-init Restart Comcoal services in case of DB Reinitialization failure
32318725	3	5.0.0.0.0	Cloud-Init Fix for VNFM
32535846	3	5.0.0.0.0	Heal For Active NOAM
32451983	3	5.0.0.0.0	TSA not getting configured for multiple XSI and same network
31929737	4	5.0.0.0.0	Nessus Scan on VNFM 5.0.0.0.0 Bug: HSTS Missing from HTTPS Server
32451147	3	5.0.0.0.0	Uplift of four 3rd party SW - Swagger Annotations, Common IO, CommonsLang, SwaggerCore
31801964	4	5.0.0.0.0	SSH Server CBC Mode Ciphers Enabled
32179979	3	5.0.0.0.0	Retry Mechanism of MMI call for large Profile
32319315	3	5.0.0.0.0	Adding Openstack pre-requisite for creating stacks on cloud using VNFM
32071538	3	5.0.0.0.0	Modify VNF URL fix
32084222	3	5.0.0.0.0	IDIH Deployment via VNFM 4.5 is failing
32056882	3	5.0.0.0.0	Discover REST request fails on Secondary VNFM

Table 7-7 (Cont.) VNFM 5.1.0.0.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
31982320	3	5.0.0.0.0	VNFM Deployment of Dual Stack should have same Vlan Id for all Interfaces

SCEF

None.

Release 8.5.0.0.1

DSR

Table 7-8 DSR Release 8.5.0.0.1 Resolved Bugs

Bug Number	Severity	Found In Release	Title
32202445	4	8.5.0.0.0	IPFE Target Sets MMI should prevent the short form of IPv6 Addresses to enter in DB
32267080	3	8.5.0.0.0	ATS to configure TSA

vSTP

None.

VNFM

Table 7-9 VNFM 5.0.1.0.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32180639	3	5.0.0.0.0	GEO Redundant VNFM is unable to change state hosted in different AZ of different tenants.

SCEF

None.

Release 8.5.0.0.0

DSR

Table 7-10 DSR Release 8.5.0.0.0 Resolved Bugs

Bug Number	Severity	Found In Release	Title
31941547	3	8.4.0.0.0	Connection Capacity Dashboard display issue
31912155	3	8.4.0.0.0	Reserved Ingress MPS cannot be increased after the Capacity Configuration Set is created
31884939	3	8.4.0.0.0	The Answer Result-Code parameter value is not present when editing the PRT rule
31875702	4	8.4.0.0.0	ETL (Egress Throttle List) is not loaded successfully
31868064	4	8.4.0.0.0	edition of mediation screen throwing error
31814654	3	8.5.0.0.0	VSTP: Action Sftthrot not discarding messages
31725516	2	8.4.0.0.0	DSR: License Measurement loops create Thread Watchdog timer expiry in License Meas thread
31718618	3	8.4.0.0.0	Issue in globaltitleaddresses MO with startAddress and endAddress fields
31679934	3	8.4.0.0.0	Primary and Secondary VNFM instances show Primary status.
31677837	3	8.4.0.0.0	DSR is crashing after upgrade to 8.4.0.0.0.5 while enabling CAF application.
31659938	4	8.4.0.0.0	For IpfeResponder connections GUI showing wrong status when connections are disabled
31655908	4	8.1.0.0.0	SOAM Dashboard is inaccessible after the upgrade

Table 7-10 (Cont.) DSR Release 8.5.0.0.0 Resolved Bugs

Bug Number	Severity	Found In Release	Title
31642637	2	8.4.0.0.0	The value None or none should be streamlined for all the parameters in sccpmnptions MO
31631390	3	8.4.0.0.0	Enhance GUI window local server gp. under remote server
31623680	2	8.4.0.0.0	MP_Perf:VstpTxM3RL BufOverflow with Changeback
31623211	3	8.4.0.0.0	Update/Edit command should not be supported for CAT2IMSI and CAT2GTA tables
31622721	3	8.4.0.0.0	View Trap Log Report All, returns an empty screen
31582503	4	8.4.0.0.0	Inconsistency among different MO GUI screens
31534423	4	8.4.0.0.0	The Help page is not visible for GUI screens
31483158	4	8.4.0.0.0	SBR Database Disable to Prepare Error on DSR
31470920	3	8.4.0.0.0	Signaling VNF Configuration Changes to support higher VNFCs
31438018	3	8.1.0.0.0	Export all of sudden stopped working towards Remote server
31437005	3	8.4.0.0.0	Update of Boolean variables in SDS Options not stored in database
31322115	3	8.4.0.0.0	DAMP Abterm during FABR overnight run
31322013	3	8.4.0.0.0	ASG Upgrade enhancement to handle the post upgrade validation failure
31321990	3	8.4.0.0.0	apwSoapServer is restarting because of Process Watchdog Failure

Table 7-10 (Cont.) DSR Release 8.5.0.0.0 Resolved Bugs

Bug Number	Severity	Found In Release	Title
31205564	3	8.4.0.0.0	Cannot turn on 16-Priority Feature -- [Error Code 19176] - The Available Alarm Budget cannot be less than 0
31205319	3	8.4.0.0.0	error while running command verifyUpgrade
31102906	4	8.2.0.0.0	DSA PreLocChkExecFailed Alm occurred in Customer Environment
31088281	4	8.4.0.0.0	MMI: eventid filtering for resource /mon/ alarmeventshistory should get all data
31068525	3	8.3.0.0.0	DSR SOAM GUI Slowness
30966560	4	8.4.0.0.0	Remove references of default GUI password from code
30920090	3	8.4.0.0.0	vSTP_SFAPP: Measurement counter VstpTxSfappMsg is not pegging
30248920	3	8.4.0.0.0	DSR 8.4.0.0.0: changes in Alarm Threshold Options in DSR SOAM System Options Gives error
29506202	4	8.4.0.0.0	Appworks MMI bugs
29490967	4	8.2.0.0.0	KPI export not working when specifying Time of Day
29375352	4	8.4.0.0.0	VSTP_8.4.0.0.0_ATIN P_FT: Duplicate entries getting added in /sccapplications/ status MO.
29192695	2	8.2.0.0.0	Millisecond section of Start Time and Stop Time fields of any trace always shows zero
26645942	3	8.2.0.0.0	Security Log History: some entries are with UNKNOWN Screen

Table 7-10 (Cont.) DSR Release 8.5.0.0.0 Resolved Bugs

Bug Number	Severity	Found In Release	Title
25643859	4	8.0.0.0.0	GUI: SBR Status screen repeating display of server groups with >25 SGs.
25525005	3	8.0.0.0.0	Data Export Transfer Now and Test Transfer does not provide feedback to the user
25231844	4	8.0.0.0.0	Selecting Edit button with keyboard takes you to a blank screen
24616310	4	8.0.0.0.0	Radius: Network Options - browser cookies store shared secret
2647890	3	8.2.0.0.0	VSTP does not show overall Destination route status for a Destination Routeset
31875702	4	8.4.0.0.0	ETL (Egress Throttle List) is not loaded successfully
31864238	3	8.4.0.0.0	Main Menu: Policy and Charging > Maintenance > Policy Database Query. search button click not working
31769687	3	8.4.0.0.0	Unable to Add DataExport by using Hostname through DSR GUI
31559296	3	8.5.0.0.0	var partition size needs to be increased on DSR systems

vSTP

None.

VNFM**Table 7-11 VNFM 5.0.0.0.0 Resolved Bugs**

Bug Number	Severity	Found in Release	Title
31605235	3	5.0.0.0.0	Active Noam server check in cloud-init
31914919	3	5.0.0.0.0	VNFM Routes for Ethernet Interfaces

Table 7-11 (Cont.) VNFM 5.0.0.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
31848493	3	5.0.0.0.0	VNFM 4.5.0.0.0.0.0.0.0.0_45 .5.0.0.0.0 medium profile does not support 4 MPs
31818991	3	4.5.0.0.0	VNFM PI-C 45.5 Swagger issue after reboot
31047829	3	4.3.0.0.0	VNFM creating un-required server groups (SGs) for DSR/SDS
31654839	4	4.5.0.0.0	VNFM support for GEO Redundancy - Rsync operation failed
30942616	3	4.3.0.0.0	Swagger IP is not accessible when snmpReceiverAddress is kept IPv6
31915041	3	5.0.0.0.0	Apache Tomcat to be upgraded from 9.0.36 to 9.0.37
31801934	4	5.0.0.0.0	Apache Tomcat Default Files should not be available
31801907	4	5.0.0.0.0	TLS Version 1.0 Protocol Detection
31789770	4	4.5.0.0.0	Modify VNF Bug Fix
31795880	3	4.5.0.0.0	VNFM support while adding TSA VIPs on the SOAM behaving unexpectedly

SCEF

Table 7-12 SCEF 8.5.0.0.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
OCSG (DSRAPIGW)			
29685488	3	8.4.0.0.0	SCEF - Validation of IP address against the AF identifier in the AF traffic
29685459	3	8.4.0.0.0	SCEF support for rate limiting based on monitoring event type
29959511	3	8.4.0.0.0	MP Failover Scenario not working as expected in VMWare

Table 7-12 (Cont.) SCEF 8.5.0.0.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
30106328	2	8.4.0.0.0	Support for MYSQL DB at SCEF API Gateway
30106306	3	8.4.0.0.0	PSK support for IP data delivery (MQTT)
30231451	3	8.4.0.0.0	OCSG CustomSLA ME fix
30106318	2	8.4.0.0.0	MQTT - Support for MT messages
30106340	2	8.4.0.0.0	HA support,APN rate control, IPDD measurements, AAA server integration
30133372	2	8.4.0.0.0	CDR support for IPDD
30314772	3	8.4.0.0.0	SCEF APIGW: SCS AS Address field in CDR has LoadBalancerIp
30314712	3	8.4.0.0.0	SCEF APIGW : No extID in CDRs with unsuccessful Result-Code
30676651	3	8.4.0.0.0	SCEF: no ExternalID in CDR records for MT from buffer notifications
30980891	3	8.4.0.0.0	OCSG AAA Responds with Application Not Supported Error
31211943	3	8.4.0.0.0	SCEF: IP GW answers with 5001 on receiving ACR from MME
31558749	3	8.4.0.0.0	SCEF MQTT: Buffered Message Delivery Status Notification needs correction
31558679	3	8.4.0.0.0	SCEF MQTT: Monitoring Event Notification should contain ExternalID and topic
31523660	3	8.4.0.0.0	SCEF MQTT: Unclear answer on MT data buffering

Table 7-12 (Cont.) SCEF 8.5.0.0.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
31491694	3	8.4.0.0.0	SCEF MQTT: IPGW always answers with 5012 UNABLE_TO_COMPLY error
31491539	3	8.4.0.0.0	SCEF MQTT: Broker answeres with Connection Refused, Server unavailable“
31426224	3	8.4.0.0.0	SCEF: AVPs Accounting-Record-Type and Accounting-Record-Number are missing in IPGW response
31244192	2	8.4.0.0.0	Troubleshooting tool based on UE identifiers IMSI/MSISDN/Ext.Id - Device status through SBR and MYSQL DB
DSR			
29806711	3	8.4.0.0.0	Generic Bug of DSR 8.2 and 8.3.0.0.0 fixed in DSR 8.4.0.0.0 (29645981, 29686410, 29686558, 29686309)
29717110	3	8.4.0.0.0	SCEF Logging Feature for MTS
29708522	4	8.4.0.0.0	SCEF does not have MMI support for 'supportedFeatureListId' parameter in SCEF Options table
29647866	4	8.3.0.0.0	SCEF MMI documentation : Need to remove parameters which are not in use
29946848	3	8.4.0.0.0	Monitoring Event Number of UEs not sending error HTTP response
30048895	4	8.4.0.0.0	SCEF PDN Establishment option shows 'Unknown' in the log
30048869	4	8.4.0.0.0	SCEF Nidd log the PDN establishment time is not updated

Table 7-12 (Cont.) SCEF 8.5.0.0.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
30105799	3	8.4.0.0.0	SCEF sending Notifications to Appservers which are down. Does not retry sending after checking
30190315	3	8.4.0.0.0	SCEF: NIDD context can't be edited/ deleted after PATCH with duration change in NIDD config
30342479	3	8.4.0.0.0	SCEF: Error during GET NIDD
30309559	3	8.4.0.0.0	SCEF: Increase MaxAuthDuration maximum value in NIDD Configuration Set
30256240	4	8.4.0.0.0	SCEF NIDD KPI Enhancement for MTS Russia
30358976	3	8.4.0.0.0	SCEF does not validate user identifier for MT requests
30314304	3	8.4.0.0.0	SCEF MONTE is using User identifier in RIR required to use only Scef Reference Id
30482530	3	8.4.0.0.0	Thread watch dog failure for stack task of Deir Processes
30483334	3	8.4.0.0.0	MMI command mon/alarms/{id} produces error Forbidden.
30725222	3	8.4.0.0.0	SCEF: MT NIDD Notification has status instead of deliveryStatus
30676682	3	8.4.0.0.0	IP address of App servers should not be returned in response
30712311	3	8.4.0.0.0	SCEF MONTE 'Availability after DDN failure': maximumNumberOfR eports
30991838	3	8.4.0.0.0	SCEF: NIDD MT delivery Notification is not sending User Identifier value to Appserver

Table 7-12 (Cont.) SCEF 8.5.0.0.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
30957564	3	8.4.0.0.0	SCEF MONTE is using User identifier in RIR required to use only Scef Reference Id
30957798	3	8.4.0.0.0	SCEF: There is no required counter for Amount of messages in buffer (KPI)
30957503	3	8.4.0.0.0	SCEF: Maximum values for maxPacketBufferSize and dataDuration need to be changed
31604692	3	8.4.0.0.0	SCEF : Enhance and provide a Device Info debug tool
31863698	3	8.4.0.0.0	SCEF Bump up the upgrade loaders to execute in 8.5.0.0.0.0-90.X.X
31790516	3	8.4.0.0.0	SCEF Install loaders are not executed successfully
31328029	3	8.4.0.0.0	SCEF MMI not working for GUI display

Customer Known Bug List

DSR 8.5.X

The following table lists the known bugs and associated Customer Impact Statements. This information is provided for information purposes only.

Table 7-13 DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
32911957	3	8.5	IPv6: [Multi-Homing]: Traffic is NOT Auto-shifted to Primary XSI IP and Connection went down If Secondary IP is bring down via 'ifdown' command	This issue is specific to the scenario when the eth interface on the VM is shutdown using "ifdown" command. Other scenarios of multihoming switching are working fine. Workaround: None
28134563	3	8.3	Auto Site Upgrade failure not cleaned up automatically, reupgrade attempt blocked	If during Automated Site Upgrade, the upgrade on a server fails due to an issue like NTP failure or greater than 70% /var usage, the customer may observe a message, site already has an automated site upgrade in progress, stating upon trying to restart the upgrade. Workaround: Cancel the Site upgrade task from Main Menu: Status & Manage > Tasks > Active Tasks screen. Then, restart the upgrade.

Table 7-13 (Cont.) DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
28353971	3	8.3	OCSG does not validate special characters in ScsAsId delimiter	<p>If customers enter special characters in SCSASID_APN_Suffix_Delimiter in the OCSG console, the URL is rendered incorrectly.</p> <p>Workaround: APIGW user document will describe the constraint on the delimiter configuration parameter.</p>
28435966	3	8.3	Invalid notification sent if DRR is with missing Absent-Subscriber-Diagnostic-T4	<p>If an SMSC sends a DRR with invalid SM-Delivery-Outcome-T4 AVP value as '0' but missing 'Absent-Subscriber-Diagnostic-T4' AVP, the SCEF Notification report will not be correct.</p> <p>Notification report:</p> <pre> /daf-network/ apigw/v1 { "msisdn": "98873983003", "result": "Unknown" } DeviceTriggeringDeliveryResult: 255" </pre> <p>Workaround: None</p>

Table 7-13 (Cont.) DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
28545072	3	8.3	Duplicate OID name in DSR MIB (eagleXgDsrDbHealthImpactNotify)	There is a duplicate name DbHealthImpact for different OIDs, which will cause an issue when trying to load the MIB file into the SNMP server. Workaround: In the MIB file, edit the OID name for the 31151 event from DbHealthImpact to DbHealthImpactPersist.
26939388	3	8.2	SDS Upgrade: NOAM Servers shall not switchover while Auditing is in progress	None, if the documented workaround is followed. Workaround: NOAM upgrades are manual upgrade, and the documented procedure instructs the operator to look for the Audit clearance Alarm.
26969222	3	8.2	EVENT_NUMBER: 31000 GN_INTERN/WRN Upload failed [FileUploader.cxx:123] post 8.2	Minimal impact is the problem that occurs. The alarm may cycle a few times and then clear after the system retries file transfer. This has only been observed in one test system and did not have a long-term impact on the system.

Table 7-13 (Cont.) DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
27087175	3	8.2	Device Deployment Failed alarms on IPFEs while upgrading from 7.1.1 to 8.2	<p>In the unlikely event that the TPD provd server is down, and we happen to have a device edit pending, the edit will be blocked and an alarm is raised. (Bug title reflects an instance where this has happened once in the test cycle.)</p> <p>Workaround: Perform a trivial edit to the device; this will retry the edit operation with tpdprovd.</p>
27355369	3	8.2	[8.2ST]: ERA process restart observed on NO while upgrading SDS 7.3 to 8.2	<p>During the SDS upgrade, after the switchover from the primary cluster to the upgraded cluster, users provisioned data. Abterms were observed for a process, which monitors provisioning tables, however, the process is independent of provisioning.</p> <p>Workaround: None. The issue occurred once in a partial upgraded system. There is no traffic impact on SDS. The affected process recovers from abterm automatically.</p>

Table 7-13 (Cont.) DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
27413746	3	8.2	SNMP Trapping screen issues for SNMPv3 Engine ID field	<p>Users cannot view generated SNMPv3 Engine ID on the SNMP Trapping screen.</p> <p>Workaround:</p> <ol style="list-style-type: none"> 1. Navigate to Configuration > Networking > Networks. 2. Check the default network name for NOAM/SOAM according to the requirement (for example, to configure SNMP trapping for the NOAM/SOAM server group, "XMI" is the default network name). 3. Execute the command: <code>ip link grep -A1 <network name> grep ether awk '{print \$2}'</code> on NOAM for NOAM SG and on SOAM for SOAM SG where <network name> is text from step 2. The expected output of the command is formatted like: <pre>02:2a:84:bc:81:0c</pre> 4. Remove all of the colons (:) from the output of step #3 and concatenate it after "800001430c" for the engine ID. For example: <pre>800001430c022a84bc810c</pre>

Table 7-13 (Cont.) DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
26710183	4	8.2	RE when edited to remove the destination, should not be saved	If an RE is edited and all destination are set to None, then any FABR queries to this particular RE will fail (ATTACH failures will be observed). Workaround: None. As a note: for any FABR query to pass, a valid destination must be assigned to an RE.
27182197	4	8.2	[8.2FT]: Domain ID field in filter gets disabled after filtering it once	In Main Menu: SDS > Configuration > Subscribers screen, after filtering on Domain ID, if the page is reloaded, the Domain ID text box is greyed out and disabled.
26116286	3	8.1	USBR update and concurrentupdate stackevent resets the creationTime to 0	If any DCA application uses update API or concurrentUpdate API, the creation time of a USBR record will be reset to 0. So, the DCA application business logic cannot rely on the USBR record creation time. However, there is currently no requirement of DCA applications developed so far to use the record's creation time.

Table 7-13 (Cont.) DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
26186891	3	8.1	8.1 VSTP-ST:Obs Routing fail events for UDTS msg without mentioning its UDTS	Minimal impact. The fix would help in debugging messages discarded at MTP3 due to routing failure. With fields currently reported in event 70064, users will not be able to differentiate whether UDT/XUDT or error message like UDTS/XUDTS. Additional fields will help in troubleshooting which messages are being discarded by MTP3 due to routing failure.
26243446	3	8.1	Information showing as green even though HostName is incorrect	No functional impact. Error text is displayed with a green background.
26290407	3	8.1	8.1 Maj Upg NOAM "10134 Server upgrade operation failed", but upgrade succeeded	There will be a false alarm, but the upgrade will still be in progress. Upgrade progress can be verified from the Upgrade Screen. Moreover, Upgrade logs can be verified to see the progress of the upgrade.

Table 7-13 (Cont.) DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
25573507	4	8.1	[DSR SSST 8.1] IPFE validation missing in IPFE > Configuration > Options screen	If a wrong IP address is used, then TSA will not work. This will only happen when operator is configuring the IP address incorrectly. In field, operator shall use the correct IP address and verify the configuration before starting the traffic.
25737480	4	8.1	[DSR SSST 8.1]When we insert device, XSI IPv4 address replaces with IPv6 address.	Operators will not be able to add two devices at the same time
26188293	4	8.1	[DASH:P&C] DSR Dashboard PCA Avg Ing MPS instead reported as RxPdraMsgRate	The Dashboard screen does not include OCDRA MPS, it is showing only PDRA MPS. SBR Sessions under Servers tab SBR Sessions field is not including OCDRA Sessions count.

Table 7-13 (Cont.) DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
26270776	4	8.1	Process Util spikes seen for pingAllLivePeer and iptablesAdm	<p>This has no impact on the advertised performance figures.</p> <p>While testing the smallest VM resource profile, such as 4 vCPUs/8G RAM), we observed an anomaly wherein pingAllLivePeer, and iptablesAdm tasks result in CPU spikes. The benchmarked/ advertised MPS, that is, 6K RBAR MPS per DA-MP) has already considered these spikes and runs fine with this anomaly.</p>

Table 7-13 (Cont.) DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
26313885	4	8.1	DSR 8.1:ST: Status & Manage > Files is not accessible from NO & throw error	<p>In NOAM and SOAM when there will be a large number of files present inside File Management Area (/var/TKLC/db/filemgmt) and the user clicks on "Status & Manage > Files" option on GUI for that server, then apwSoapServer will become slow as it will utilize the max CPU to sort the files in memory. This will impact the apwSoapserver functionality as well as that overall server performance. This is limited to OAM servers and will not impact Signaling Servers. This is a legacy issue.</p> <p>This issue occurred because Remote Server Copy was not deleting the files after copying them to the remote server. A separate Bug will be raised to address this issue.</p>
24564563	3	8	Network Devices added via GUI or MMI become "Discovered" on delete	<p>No operational impact. The issue is transient and clears on its own.</p> <p>Workaround: None.</p>

Table 7-13 (Cont.) DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
24796935	3	8	[AW:oampAgent] "DB Late Write Nonactive" alarm by NO during Act->Stby transition	No operational impact. Alarm may be triggered when switchover of NOAM occurs. Workaround: None.
25505595	3	8	DSR 8.0:ST: InstallOS op on guests using PMAC failed with reason as internal err	No impact to traffic. Filesystem full could prevent normal operations such upgrades or addition of new servers. The filesystem full condition was a result of an ISO being copied into an incorrect location (home/ admusr). Workaround: Delete extra files that have been incorrectly copied to /home/admusr. This will clear the alarm and allow normal operation.
25529974	3	8	DSR MMI Issues in AppWorks MON URIs	None. Measurement budget is not currently enforced.
25575141	3	8	[PDRA:Recon] Disabling PDRA during USBR Recon fails with Error code 21648	Users will not be able to disable PDRA function while running a reconfiguration plan for a USBR database. Users can disable function after all reconfiguration plans have been completed.

Table 7-13 (Cont.) DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
25637633	3	8	Unknown column 'ROLE' in 'where clause'	<p>Minimal impact as filter is not typically used for System OAM during upgrades. User will receive error "Unknown column 'ROLE' in 'where clause'", when filtering on Server Role "System OAM" through the Main Menu: Administration > Software Management > Upgrade screen.</p> <p>Workaround: Users can navigate to the desired System OAM tab to get the data.</p>
25651803	3	8	[PCA:CACD] Alarm for Degraded ComAgent Conns when USBRs removed from Session RD	<p>No functional impact. Alarm is raised for servers that do not belong to the active Session SBR Database.</p> <p>Workaround: To clear the alarm, restart the SBR servers on which the alarm is raised.</p> <p>CAUTION: If any DCA application is actively sending data to these SBR servers, this workaround is NOT recommended as it may cause traffic loss.</p>

Table 7-13 (Cont.) DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
25656089	3	8	DSR8.0:ST: ISO deployment got stuck for the site when servers got restarted	During preparation for upgrade activity, if the user reboots a server while an ISO transfer is taking place, the transfer will be stopped and will not restart until a manual workaround is performed. Workaround: Contact My Oracle Support for assistance.
25669402	3	8	DSR 8.0:ST:VIPs not activated when servers are in same network but diff sites	If all SOAM servers (different sites) are in the same network, users will not be able to access SOAM using VIP when spare SOAM server becomes active. Workaround: is available.
25719122	3	8	[PDRA:ApplRestar t] psbr abterm can occur during controlled shutdown/restart	No service/traffic impact. An abterm may be generated during the process restart through GUI (Status&Manage > Server).

Table 7-13 (Cont.) DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
25730821	3	8	[ISBR:HaRes] SBRs may fail to de-register COMCOL Resources when removed from RDs	No impact to traffic since this issue was observed on a decommissioned server group that is not a part of resizing plan. Also, there should be no operational impact as MOP source documentation has been updated to the required cleanup of decommissioned Servers and Server Groups. Workaround: If there are any Servers and Server Groups which are no longer being used after the completion of a Resizing plan, then the user should delete them.
23421644	4	8	[AW]Log In button not centered in the box at the Login Screen in Firefox browser	No operational impact. Cosmetic issue only.
23858799	4	8	Local Pause Update Inconsistent	No operational impact. On several GUI screens, there are two Pause Updates check boxes, one with scope global to the GUI and the other with a scope local to that menu item.
24377541	4	8	[Network Insert Screen]: VLAN ID field should not be mandatory	In the Main Menu > Networking > Networks [Insert] screen, users will need to populate the VLAN ID field with a value of 1-4094 regardless of whether used or not.

Table 7-13 (Cont.) DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
24479659	4	8	IPFE Target Set issue with BIE and gcli	Exported IPFE files cannot be used for import operations.
24621473	4	8	The SBR HA and HA health check scripts accessing tables instead of SOAP APIs.	No impact.
24935222	4	8	LRGSYS: KPI screen taking a long time to display	Potential GUI delay. On large topologies, it can take up to 90 seconds to draw the KPI screen. Workaround: None.
25028429	4	8	DSR Backout: invalid response from User (yes vs. y) shouldn't abort CLI Session	If users do not type y or N in response to, "Continue backout? [y/N]:", there is no reason given for the abort of the backout command. Workaround: The backout command can be re-entered.

Table 7-13 (Cont.) DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
25379612	4	8	IDIH : 80.17.2: OAM GUI showing extra Mediation input Sources	No operational impact. Extra mediation source entries may be displayed. If the IDIH has ever been modified to retrieve data from another DSR SOAM, table entries for server hosts from the other SOAM will be displayed in IDIH OAM application screen Applications > DSR>"Mediation Input Sources". Workaround: Disregard hosts that no longer apply to the current configuration.
25462998	4	8	Pause update not functioning on Comm Agent Screens	Minimal customer impact. The GUI status screens under "Communication Agent > Maintenance" will continue to update when a pause update check box is selected.
25542610	4	8	When NMS server added user may return to a screen with addition not reported	Update may not be reflected on GUI until it is manually refreshed. Workaround: None. Users need to navigate back to the desired screen rather than be automatically returned to it.

Table 7-13 (Cont.) DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
25584247	4	8	Misleading DCA Custom Event Template Throttling Description	Misleading 'Alarm Throttling Interval' description. Minimum value is incorrect. [Default = 60; Range = 0-300] should read [Default = 60; Range = 5-300].
25616683	4	8	Capacity Summary screen constraints inconsistent with Online Help doc	Online help has an inaccuracy concerning max local nodes =32 instead of 48.
25660736	4	8	Backout: SOAM returns errors with verifyUpgrade and verifyBackout.	The only impact is ERRORS may be returned when running verifyUpgrade and verifyBackout. The backout completes successfully. Workaround: None. The backout completes successfully.
23132640	3	7.3	[DSR7.3] Issues configuring/reconfiguring PCRF records	If two sites are configured using the same SOAM Network Element, it is not possible to configure the same PCRF entry at both sites. Workaround: Use a different SOAM Network Element at each site. During the installation, it is possible to configure two SOAM Network Elements with different names and all of the same network configuration.

Table 7-13 (Cont.) DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
29518322	3	8.4	MIX of ANSI + ITUI traffic (72K for 8 MP ₂ s per site) is not able to run on my performance setup, whereas same amount of traffic for just ITUI domain is running fine.	MIX traffic routing results in MSU failure, when running traffic is close to configured Link TPS. Workaround: None
29518100	3	8.4	Few ITUI domain links got stuck in congestion level though I have reduced traffic to zero	When a linkset is pushed for more traffic routing, which triggers egress congestion, and if remains under this traffic stress, where links bounce due to congestion. Some Links get stuck in congestion levels though traffic gets reduced to zero. Here, Congestion level stuck links will never route egress traffic until they get reset.
29531355	4	8.4	STP8.4_GPORT_FT: MTSMSIMSI not taking ASDDN / ASDRNDN values	Resonse messages in case of GPORT cannot be encoded MTSMSIMSI as ASDDN and ASDRNDN.
29408014	3	8.4	On making the relativeCost value of Secondary entry same as relativeCost value of Primary entry, load sharing is not happening with respect to the weight.	Load sharing will not occur correctly on changing to the same cost. This could cause an early onset of congestion due to not using all available paths to load share. Workaround: Reconfigure the MAP load sharing group by deleting the existing mapset group. Or, avoid put operation for changing RC.

Table 7-13 (Cont.) DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
31860267	3	8.5	R8.5_ST:Obsrvng VstpMsgDiscardD uetoCongestion discards during HA state change activity on MP	Message discards/ loss is observed when the vSTP MP is abruptly brought down manually during live traffic, by either changing the HA state of MP to OOS, or by disabling the vstp process at MP manually. Such operations are not recommended during normal vSTP MP operation. Workaround: None
31757106	3	8.5	vSTP_SIG: XCA and CBA message are not sent for ITUN24 domain	SNM (Signalling Network Management) messages for ITUN24 domain will not work. ITUN24 domain traffic is running fine. For other domains, SNM messages are working fine. Workaround: None
31757057	3	8.5	[vSTP_SIG]: for ITUN24 domain, RST message is not sent when TFP message is received	SNM (Signalling Network Management) messages for ITUN24 domain will not work. ITUN24 domain traffic is running fine. For other domains, SNM messages are working fine. Workaround: None

Table 7-13 (Cont.) DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
31588873	3	8.5	MP_Perf: Observed discards due to congestion with MTP screening traffic	The MTP Screening with wild characters is heavy operation & consuming excessive CPU causing M3RL layer to congest. System shall limit TPS to 15K per MP when MTP3 Screening is turned ON. Workaround: Limit MTP3 Screening traffic to 15K TPS per vSTP MP for Gateway STP. No Impact for Non-Gateway deployments.
32672994	3	8.5	vSTP_SIG : During traffic at 100% TPS, links are getting down and not coming up	M2PA links may go down some time when the traffic runs at the maximum MP capacity and does not recover automatically. Workaround: Disable and then enable the affected link from GUI/MMI to bring the link up.

Table 7-13 (Cont.) DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
32573278	3	8.5	8.5.0.1_ST:Comagent connection gets deleted in case of UDR based traffic	Comagent connections between vSTP and UDR go down for some time during high traffic scenarios. Transactions at vSTP MP may timeout and fail during such time when the connection is down with UDR. Workaround: None. The comagent connections recover automatically.
31983406	3	8.5	R8.5.0.1:VstpM3UAEventQueue alarms on intervstp M3UA links	Queue alarms and congestion is observed while running 10K TPS traffic on one of the M3UA links. Workaround: None. Run lower than 10K TPS per M3UA link.