Oracle® Communications Diameter Signaling Router

Release Notes

Release 8.5.1.0.0

F51028-04

December 2022

ORACLE®

Contents

7   Resolved and Known Bugs

What's New in this Guide

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

Release 8.5.1.0.0 - F51028-04, December 2022

Updated the unit quantity to **2** of `872479-B21` supplier number for both AC and DC RMS servers in the HP Hardware section.

Release 8.5.1.0.0 - F51028-03, May 2022

- Resolved Bug List: Added a new DSR resolved bug 33218214.

Release 8.5.1.0.0 - F51028-02, February 2022

- Resolved Bug List: Added new VNFM resolved bugs 33725789 and 33725850.

Release 8.5.1.0.0 - F51028-01, December 2021

- Feature Descriptions: Added new and enhanced features supported in this release.
- Documentation Pack: Updated the Media Pack and Load Line Up details.
- Supported Upgrade Paths: Added new upgrade paths for this release.
- Resolved Bug List: Added new resolved bugs in this release.

My Oracle Support

My Oracle Support (https://support.oracle.com) is your initial point of contact for all product support and training needs. A representative at Customer Access Support can assist you with My Oracle Support registration.

Call the Customer Access Support main number at 1-800-223-1711 (toll-free in the US), or call the Oracle Support hotline for your local country from the list at http://www.oracle.com/us/support/contact/index.html. When calling, make the selections in the sequence shown below on the Support telephone menu:

1. Select **2** for New Service Request.

2. Select **3** for Hardware, Networking and Solaris Operating System Support.

3. Select one of the following options:

   - 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**.

You are connected to a live agent who can assist you with My Oracle Support registration and opening a support ticket.

My Oracle Support is available 24 hours a day, 7 days a week, 365 days a year.

1

Introduction

This Release Notice includes the following:

- Feature descriptions
- Information on supported hardware baseline
- Media and documentation pack
- Supported upgrade paths for this release
- Resolved and known bugs for this release

Release Notes are included in the documentation pack and 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:

- Oracle is not responsible for installation, operation, maintenance, and so on, of any non-Oracle distributed software with Oracle products, for example, DSR, PCRF, UDR, PIC, EAGLE, and so on.
- Additional due diligence, including testing, is recommended to be performed in the lab before deploying non-Oracle software on production sites to avoid potential issues.
- Oracle is not responsible for validating or integrating non-Oracle software with Oracle products, for example, DSR, PCRF, UDR, PIC, EAGLE, and so on. Additionally, the persistence of the non-Oracle software over the upgrade of any Oracle product may or may not occur, and Oracle does not guarantee that the non-Oracle software will persist.
- 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.

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Feature Descriptions

This chapter provides a summary of each feature released in DSR release 8.5.1.0.0.

Release 8.5.1.0.0

This sections summarizes all the new and enhanced features in DSR, vSTP, VNFM, and SCEF.

DSR

The following DSR features are implemented in release 8.5.1.0.0:

- **FABR with UDR**: The Full Address Based Resolution (FABR) application supports sending ComAgent stack events to User Data Repository (UDR), Network OAM (NOAM). FABR with UDR supports bundling and non-bundling cases. DSR can select Subscriber Database Server (SDS) or UDR as the database type for FABR queries. For more information about FABR, see the following guides:

  - *Oracle Communications Diameter Signaling Router Diameter User Guide*
  - *Oracle Communications Diameter Signaling Router Full Address Based Resolution User Guide*
  - *Oracle Communications Diameter Signaling Router Operations, Administration, and Maintenance Guide.*
  - *Oracle Communications Diameter Signaling Router Measurement Reference Guide*

- **Increase the number of Route Groups per Route List from 3 to 5**: The number of Route Groups per Route List has increased from 3 to 5. The user can configure 5 Route Groups per Route List. This configuration is supported from both GUI and MMI. For more information, see the following guides:

  - *Oracle Communications Diameter Signaling Router Diameter User Guide*
  - *Oracle Communications Diameter Signaling Router Operations, Administration, and Maintenance Guide.*

- **Support more than 20 applications in CER-CEA messages**: Earlier DSR was supporting only 10 Application IDs in CER/CEA. The user could configure only 10 Application IDs per CEX configuration set. By implementing this feature, DSR now supports 20 Application IDs in CER/CEA. For more information, see the following guides:

  - *Oracle Communications Diameter Signaling Router Diameter User Guide*
  - *Oracle Communications Diameter Signaling Router Operations, Administration, and Maintenance Guide.*

VNFM

The following VNFM feature is implemented in release 5.3.1:

- **Segregation of OAM and Replication Traffic Support**: This feature supports the following:

  – Separate network for OAM and Replication traffic

  – Supports DSR NOAM, DSR DR NOAM, and Signaling VNFs

  Replication traffic is optional for a user where it can be used as Inter-NE network (xmiRepl), Intra-NE network (imiRepl), or both or None. xmiRepl/imiRepl and xmi/imi supports single, dual, and mix mode subnet, where both OAM and Replication service network can be on IPV4 or IPV6. For more information, see *VNFM Installation and User Guide.*

The following VNFM features are implemented in release 5.3.0:

- **VNFM Get Operation Status**: VNFM supports the SOL003 operation Get Operation Status. The NFVO invokes Get Operation Status from VNF Life cycle management operations towards VNFM. VNFM queries the VNF for all life cycle management operation occurence. For more information, see *VNFM Installation and User Guide.*

- **VNFM to support vSTP Service MP deployment**: By implementing this feature, VNFM deploys the Service MP along with vSTP-MP only and Service MP deployment is optional. vSTP-MP can be independently deployed without service MP. For more information, see *VNFM Installation and User Guide.*

vSTP

The following vSTP feature is implemented in release 8.5.1.0.0:

- **Support for eLYNX PCIe Card**: Starting with this release, vSTP supports Time Division Multiplexing (TDM) through eLYNX PCIe Card. vSTP allows the eLYNX configurations through the vSTP Graphical User Interface (GUI).

> **✎ Note:**
>
> The following points must be considered while configuring the eLYNX Card:
>
> – The eLYNX card supports only E1 traffic.
>
> – eLYNX is supported when installed in Oracle X8-2 and X8-2L servers.
>
> – A maximum of 4 eLYNX cards per server are supported.
>
> – PCI slots 5 and 6 are not supported for eLYNX on the Oracle X8-2L servers.
>
> – Only 1 eLYNX card per Message Processor (MP) is supported.
>
> – The eLYNX card is rated to process a maximum of 10K messages per second. If the ingress message rate crosses the 10K per second limit, the eLYNX card gets locally congested, causing all the links on the eLYNX card to go out of service until the congestion condition abates. After the congestion condition clears, the eLYNX card starts the link alignment process again.
>
> If the congestion persists for too long, the eLYNX card can be impacted severely. Some links may not recover automatically. If this happens, then the eLYNX card musr be reset or reloaded to recover.

For more information about the eLYNX configurations, see *vSTP User Guide*.

For more information about eLYNX installation, see *vSTP eLYNX Installation Guide*

- **vSTP GTT Throttling Enhancements**: The vSTP SS7 security firewall is enhanced to support a new GTT Action for Egress throttling of individual GTT messages. The Indv_Throt action is added to provide support for Egress throttling of individual messages in a group. For more information, see *vSTP SS7 Security User Guide*.

- **vSTP CAP/INAP Filtering**: Starting with this release, vSTP supports the GTT translations based on CDPN, BCD CDPN, and SK+BCSM with the CAP/INAP filtering feature. It provides the following Opcodes to support CAP/INAP filtering:

  – Initial DP

  – IDPSMS

  – IDPGPRS

  For more information about the feature configurations, see *vSTP User Guide*.

- **vSTP UDTS Routing**: vSTP supports the routing of vSTP generated UDTS messages, based on Originating Point Code (OPC) of the incoming SCCP request or message. This provides an additional capability to the existing vSTP functionality wherein UDTS response messages generated by vSTP can be routed to originator, based on OPC of incoming UDT Message.

  For more information about the feature configurations, see *vSTP User Guide*.

- **ENUM Support**: DSR 8.5.1 is enhanced to support the ENUM functionality to access Unified Data Repository (UDR) using the ENUM protocol. The newly added ENUM application in DSR supports the ENUM interface on UDP with the bind9 software. For more information about the DSR ENUM Application, see *DSR ENUM User Guide*.

SCEF

The following SCEF features are implemented in release 8.5.1.0.0:

- **SCEF Reliable Data Transfer**: The Reliable Data Service is used by the UE and SCEF when using PDN Connection of PDN Type Non-IP. This service provides a mechanism for the SCEF to determine if the data was successfully delivered to the UE and vice-versa. For more information, see *SCEF User Guide.*

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 8.5.1.0.0

Table 3-1   Media Pack Contents for DSR 8.5.1.0.0

Part Number	Description
V1018402-01	Oracle Communications Diameter Signaling Router 8.5.1.0.0-94.11.0 ISO image
V1018403-01	Oracle Communications Diameter Signaling Router 8.5.1.0.0-94.11.0 OVA image
V1018395-01	Oracle Communications Diameter Signaling Router, Full Address Resolution 8.5.1.0.0-94.11.0 ISO image
V1018400-01	Oracle Communications Diameter Signaling Router, Full Address Resolution 8.5.1.0.0-94.11.0 OVA image
V1018385-01	Oracle Communications Diameter Signaling Router Application Programming Interface Gateway 8.5.1.0.0-94.11.0 ISO image
V1018390-01	Oracle Communications Diameter Signaling Router Application Programming Interface Gateway 8.5.1.0.0-94.11.0 OVA image
V1018401-01	Oracle Communications Diameter Signaling Router Application Programming Interface Gateway MySQL NDB Cluster 7.6.8 QCOW2
V1018404-01	Oracle Communications Diameter Signaling Router Diameter Security Application 8.5.1.0.0-94.11.0
V1018407-01	Oracle Communications Diameter Signaling Router Rx ShUDR 8.5.1.0.0-94.11.0
V1018410-01	Oracle Communications Diameter Signaling Router Steering Of Roaming Application 8.5.1.0.0-94.11.0
V1018406-01	Oracle Communications Diameter Signaling Router Zero Balance Application 8.5.1.0.0-94.11.0

Table 3-1   (Cont.) Media Pack Contents for DSR 8.5.1.0.0

Part Number	Description
V1018372-01	Oracle Communications Diameter Signaling Router Virtual Network Functions Manager 5.3.1.0.0-53.5.0 QCOW2 image
V1018375-01	Oracle Communications Diameter Signaling Router Virtual Network Functions Manager Artifacts 5.3.1.0.0-53.5.0
V1018376-01	Oracle Communications Diameter Signaling Router User Data Repository 12.6.3.0.0-18.18.0 ISO image
V1018381-01	Oracle Communications Diameter Signaling Router User Data Repository 12.6.3.0.0-18.18.0 OVA image
V1018411-01	Oracle Communications Diameter Signaling Router 8.5.1.0.0-94.11.0 MIBS
V1018332-01	Oracle Communications Tekelec Platform Distribution 7.8.1.0.0-89.13.0

Load Lineup

This section provides information about supported services and ATS for this release.

DSR Release 8.5.1.0.0

DSR Release 8.5.1.0.0 contains the following components:

- Application Line Up
  - DSR: 8.5.1.0.0-94.11.0
  - SDS: 8.5.1.0.0-94.11.0
  - DSRAPIGW: 8.5.1.0.0_94.11.0
  - VNFM: VNFM_5.3.1.0.0-53.5.0
  - ATS: 8.5.1.0.0-1.0.0
- Platform Line Up
  - TPD: 7.8.1.0.0-89.13.0
  - TVOE: 3.6.2.0.0-88.58.0
  - PMAC: 6.6.1.0.0-66.9.0
  - Comcol: 7.5.0.38.0-14123
  - Appw: 9.4.0-94.9.0
  - Exgs: 9.4.0-94.9.0

Documentation Pack

All documents are available for download from the Oracle Help Center (OHC) site.

Table 3-2   Documentation Pack Contents

Release Notes and Licensing Information User Manuals Document Set

Table 3-2   (Cont.) Documentation Pack Contents

Release Notes
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 C-Class Disaster Recovery User Guide
DSR Software Upgrade Guide
Rack Mount Server Installation Guide
Rack Mount Server Disaster Recovery Guide
Rack Mount Server Network Interconnect
DSR/SDS NOAM Failover User 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 Network Impact Report
DSR NIR MEALS Data
DSR Security Guide
DSA with UDR User Guide
DSR Security App Using Mediation Example Procedure
Zero Balance Application User Guide
Diameter Signaling Router Rx ShUDR Application User Guide
DSR VM Placement and CPU Socket Pinning Tool
DSR Compliance Matrix
Cloud Installation and Upgrade Document Set
DSR Cloud Installation Guide
DSR Cloud Software Upgrade Guide
DSR Cloud Disaster Recovery Guide
DSR Automated Test Suite (ATS) Installation and User Guide
DSR API Gateway Installation Guide
DSR API Gateway Disaster Recovery Guide
VNF Whitepaper
DSR VNFM Installation and User Guide
VNFM HEAT Templates
DSR Cloud Benchmarking Guide
SDS Cloud Installation Guide
SDS Cloud Disaster Recovery Guide
Diameter Signaling Router Core Document Set

Table 3-2   (Cont.) Documentation Pack Contents

DSR Getting Started
Roadmap to Hardware Documentation Reference
Operation, Administration, and Maintenance (OAM) User Guide
Diameter User Guide
MMI API Specification
Communication Agent User Guide
Policy Charging Application User Guide
Mediation User Guide
Range Based Address Resolution (RBAR) User Guide
Full Address Based Resolution (FABR) User Guide
Subscriber Binding Repository (SBR) User Guide
IP Front End (IPFE) User Guide
Diameter Common User Guide
Equipment Identity Register User Guide
Diameter Custom Application (DCA) User Guide
Diameter Custom Application (DCA) Programmer Guide
Roaming Steering Application User Guide
RADIUS User Guide
vSTP User Manual
vSTP SS7 Security User Guide
vSTP eLYNX Card Installation Guide
vSTP ADAX Card Installation Guide
ENUM User Guide
ENUM Heat Template
Mobile Number Portability (MNP) User Guide
TIF User Guide
SCEF User Guide
SCEF - YAML Files
DSR SCEF Partner's User Guide
Alarms and KPIs Reference
Measurements Reference
Glossary
Related Publications Reference
Subscriber Data Server Document Set
SDS Getting Started
SDS User Guide
SDS Provisioning Interface Guide
SDS Installation and Configuration Guide
SDS Software Upgrade Guide
SDS Disaster Recovery Guide
UDR Installation, Upgrade, and Disaster Recovery Document Set
UDR Cloud Installation and Configuration Guide
UDR Cloud Software Upgrade Procedure

Table 3-2   (Cont.) Documentation Pack Contents

UDR Cloud Disaster Recovery Guide
Provisioning Gateway Installation Guide
UDR Heat Templates
Provisioning Gateway Heat Templates
UDR SOAP Provisioning Interface Specification
UDR REST Provisioning Interface Specification
UDR Bulk Import/Export File Specification
UDR Provisioning Database Application and Interface Specification
Integrated Diameter Intelligence Hub (IDIH) Document Set
IDIH Release Notice
IDIH User Guide
IDIH Alarm Forwarding Administrator's Guide
IDIH Audit Viewer Administrator's Guide
IDIH Operations, Administration and Maintenance Administrator's Guide
IDIH ProTrace User 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 Production**1		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	2

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	2
	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

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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	2
	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

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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

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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	2
	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_BL460C GEN8_BLADE SERVER_009_ROHS	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_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
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_R OHS	1
7108027			HP D9N30A_BL460C GEN8_BLADE SERVER_001_RO HS	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_S FF_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_STORA GE 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_RMS_EXTENTION KIT_ETH CABLES_ROHS 5/6	1
NOAM 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
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

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_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
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_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
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

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 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
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_TERMIN ATED SERVER END_UNTERMI NATED PDP END_ROHS	1
7110434	Anixter	814-0034-07	ASSEMBLY MATERIALS_RM S_EXTENTION KIT_ETH CABLES_ROHS 5/6	1
Gen 8 IDIH Server				
7108081			HP D9U38A_DL380 GEN8_DC_SER VER_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_ROH S	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_ROHS	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_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
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_EXTENTION 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_EXTENTION 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_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
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

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_INTEGRATED 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_ROHS	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_ROHS	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. Verify that your current installed release is listed on a valid upgrade path.

The possible upgrade paths to DSR Release 8.5.1.0.0 are listed in the following table:

Component	From	To
DSR	8.4.0.X.Y, 8.5.0.X	8.5.1.X
SDS	8.4.0.X.Y, 8.5.0.X	8.5.1.X
IDIH	8.2.1, 8.2.2	8.2.3
vSTP	8.4.0.3.X, 8.5.0.X	8.5.1.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 must 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 must 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 through 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 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.

Severity Definitions

Service requests for supported Oracle programs may be submitted by you online through Oracle's web-based customer support systems or by telephone. The service request severity level is selected by you and Oracle and should be based on the severity definitions specified as follows:

1. Severity 1 - Your production use of the supported programs is stopped or so severely impacted that you cannot reasonably continue work. You experience a complete loss of service. The operation is mission critical to the business and the situation is an emergency. A Severity 1 service request has one or more of the following characteristics:

    •   Data corrupted.

    •   A critical documented function is not available.

    •   System hangs indefinitely, causing unacceptable or indefinite delays for resources or response.

    •   System crashes, and crashes repeatedly after restart attempts.

    Reasonable efforts will be made to respond to Severity 1 service requests within one hour. For response efforts associated with Oracle Communications Network Software Premier Support and Oracle
    Except as otherwise specified, Oracle provides 24 hour support for Severity 1 service requests for supported programs (OSS will work 24x7 until the issue is resolved) when you remain actively engaged with OSS working toward resolution of your Severity 1 service request. You must provide OSS with a contact during this 24x7 period, either on

site or by phone, to assist with data gathering, testing, and applying fixes. You are requested to propose this severity classification with great care, so that valid Severity 1 situations obtain the necessary resource allocation from Oracle.

Network Software Support & Sustaining Support, please see the Oracle Communications Network Premier & Sustaining Support and Oracle Communications Network Software Support & Sustaining Support sections above.

2.   Severity 2 - You experience a severe loss of service. Important features are unavailable with no acceptable workaround; however, operations can continue in a restricted fashion.

3.   Severity 3 - You experience a minor loss of service. The impact is an inconvenience, which may require a workaround to restore functionality.

4.   Severity 4 - You request information, an enhancement, or documentation clarification regarding your software but there is no impact on the operation of the software. You experience no loss of service. The result does not impede the operation of a system.

Resolved Bug List

This sections lists all resolved bug list for DSR, vSTP, VNFM, and SCEF in this release.

DSR

The following Resolved Bugs tables list the bugs that are resolved in DSR 8.5.1.0.0 release.

Table 7-1   DSR Release 8.5.1.0.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
33563946	3	8.5.0.2.0	Unable to add TTG in RG4 and RG5 of Routelist
33562240	3	8.5.0.0.0	DSA Session Id issue fix
33404539	3	8.5.1.0.0	MMI command not working for "pendingtransactionlimitingconfigurationsets" present in the NOAM
33378172	3	8.5.1.0.0	"count" is different than the total records in CSV exported file
33188157	3	8.5.1.0.0	Unable to add more than 10 Application IDs and Vendor IDs in CEX Configuration Set
32494839	3	8.5.1.0.0	Increase the number of Route Groups per Route List (from 3 to at least 5)
33218214	3	8.5.0.1.0	DSA Business logic fix to handle the error code
33138921	4	8.5.0.0.0	TTG is not visible in RL GUI in edit mode
32997291	4	8.5.0.0.0	Increasing application id support per connection

Table 7-1   (Cont.) DSR Release 8.5.1.0.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
26313885	4	8.1.0.0.0	DSR 8.1:ST: Status & Manage ->Files is not accessible from NO & throw error
33562219	4	8.5.0.0.0	RSA Session Id issue Fix
30792667	4	8.4.0.0.0	Fabr with UDR
33511318	4	8.5.0.0.0	Incorrect IP address state in SCTP Statistics for SCTP Multi-Homed association.
33431087	4	8.4.0.3.0	DSA Business logic fix to handle grouped AVP cases for DSD 1204

vSTP

The following table lists the resolved bugs in vSTP 8.5.1.0.0 release.

Table 7-2   vSTP Release 8.5.1.0.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
33017494	3	8.5.0.0.0	M2PA, MTP2 and MTP3 Timer Description, Default and Range values are not correct
33073200	3	8.5.0.0.0	Parameter value 2 configuration error on Common screening List
33351566	3	8.5.0.0.0	Issue with Remote Signaling Point Status GUI
33405810	3	8.5.0.1.0	Problems to provision Global Title Addresses (GTA) with hexadecimal digits
33458522	3	8.5.0.2.0	IDPR options changed by MMI and parameter in GUI does not show the change
33468738	3	8.5.0.2.0	Unable to export VSTP IDPR options from GUI screen
33517159	3	8.5.0.2.0	M2PA Data Ack and T7 timeout issues
33545600	3	8.5.0.0.1	SCCP Options table is not in the list of Export/Import Data
33549355	3	8.5.0.0.0	NPP Action Set not modifying in NPP Rule SET
33554879	3	8.5.0.0.0	MtpScreeningRule import fails
32865170	4	8.5.0.0.0	vSTP throttling action should throw configured TCAP error when "Return on Error" bit is ON

SCEF

The following Resolved Bugs tables list the bugs that are resolved in SCEF 8.5.1.0.0 release.

Table 7-3   SCEF Release 8.5.1.0.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
33523101	3	8.5.0.2.0	ME Num of UE - JSON attribute requires correction as per 3GPP spec
33582289	3	8.5.0.0.0	SCEF_RDS:SCEF node reattempts not working correctly in case of T2
33562657	3	8.5.1.0.0	SCEF_RDS:Incorrect error message in case of portUE values as 0 and
33562644	3	8.5.1.0.0	SCEF_RDS:Able to create NIDD context with RDS as True and rdsPo
33562630	3	8.5.1.0.0	SCEF_RDS:Incorrect response in case of -ve values are used with rds
33562381	3	8.5.1.0.0	SCEF_RDS:DSR Crash with abterm in case of -ve scenario
33545972	3	8.5.1.0.0	SCEF_RDS:Abterm observed while running RDS MT call
33545407	3	8.5.1.0.0	SCEF_RDS:Incorrect reliableDataService value in NIDD RDS SUBMIT response
33534565	3	8.5.1.0.0	SCEF_RDS:DSR process crash in case of ODR with NO RDS Frame
33506588	3	8.5.1.0.0	SCEF_RDS:Able to create NIDD Group context with RDS as True
33469335	3	8.5.1.0.0	SCEF_RDS:NIDD RDS Submit port validation NOT working
33410867	3	8.5.1.0.0	SCEF : Reliable Data Service handling for MT buffering
33487739	3	8.5.1.0.0	SCEF_RDS:reliableDataService is always False in Delete Response
33482204	3	8.5.1.0.0	SCEF: Reliable Data Service 3rd BCR Submission
33478390	3	8.5.1.0.0	SCEF_RDS:No Error raised in case of context creation with RDS False in SOAM and True in payload
33464417	3	8.5.1.0.0	SCEF_RDS:T8 Success for NIDD RDS context in case of context is part of NIDD Group and PDN exists without EPCO
33463491	3	8.5.1.0.0	DSR Process crash and abterms observed while sending 256 RDS port
33415311	3	8.5.1.0.0	SCEF: UE_REACHABILITY reporting needs correction (above base bug)
33431624	3	8.5.1.0.0	NIDD MT call test case with RDS flag disabled which is existing functionality is not working, observing it's value showing as True in logs

Table 7-3   (Cont.) SCEF Release 8.5.1.0.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
33421063	3	8.5.1.0.0	SCEF_RDS:Incorrect content in GET operation for RDS context
33421046	3	8.5.1.0.0	SCEF_RDS:Not able to configure RDS context with default RDS ports
33410106	3	8.5.1.0.0	SCEF: Reliable Data Service Feature Phase 1 - Second BCR
33380540	3	8.5.1.0.0	SCEF_RDS:MMI Guide RAML support is not available for RDS feature
33380523	3	8.5.1.0.0	SCEF_RDS:PUT/POST operation in apnconfigurationsets MO not supported to enable RDS
33351972	3	8.5.1.0.0	SCEF: Reliable Data Service Feature Phase 1
33419896	3	8.5.1.0.0	SCEF: undecoded value in parameter edrxCycleLength
33425763	3	8.5.0.2.0	SCEF: Group MT NIDD Submit Response delay
33421131	3	8.5.0.2.0	SCEF: Crash on ME subscription with Type NUMBER_OF_UES_IN_AN_AREA
31083226	4	8.5.0.0.0	SCEF: Error during GET NIDD after increase in the data buffer value

Customer Known Bug List

DSR 8.5.X

Table 7-4 lists the known bugs and associated Customer Impact Statements. This information is provided for information purposes only.

Table 7-4   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

Table 7-4   (Cont.) DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
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.
28353971	3	8.3	OCSG does not validate special characters in ScsAsId delimiter	If customers enter special characters in SCSASID_APN_Suffix_Delimiter in the OCSG console, the URL is rendered incorrectly. **Workaround**: APIGW user document will describe the constraint on the delimiter configuration parameter.

Table 7-4   (Cont.) DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
28435966	3	8.3	Invalid notification sent if DRR is with missing Absent-Subscriber-Diagnostic-T4	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. Notification report: `/daf-network/ apigw/v1 { "msisdn":"988 73983003", "result": "Unknown DeviceTrigger ingDeliveryRe sult: 255" }` **Workaround**: None
28545072	3	8.3	Duplicate OID name in DSR MIB (eagleXgDsrDbHe althImpactNotify)	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 DbHealthImpactPe rsist.

Table 7-4   (Cont.) DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
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.
27087175	3	8.2	Device Deployment Failed alarms on IPFEs while upgrading from 7.1.1 to 8.2	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.) **Workaround**: Perform a trivial edit to the device; this will retry the edit operation with tpdprovd.

Table 7-4   (Cont.) DSR Release 8.5.X Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
27355369	3	8.2	[8.2ST]: ERA process restart observed on NO while upgrading SDS 7.3 to 8.2	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. **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.

Table 7-4   (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	Users cannot view generated SNMPv3 Engine ID on the SNMP Trapping screen. **Workaround**: 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: `ip link | grep -A1 <network name> | grep ether | awk '{print $2}'` 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: `02:2a:84:bc:81:0c` 4. Remove all of the colons (:) from the output of step #3 and concatenate it after "800001430c" for the engine ID. For example: 800001430c022a84bc810c

Table 7-4   (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 7-4   (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 7-4   (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 7-4   (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	This has no impact on the advertised performance figures. 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 bench-marked/ advertised MPS, that is, 6K RBAR MPS per DA-MP) has already considered these spikes and runs fine with this anomaly.

Table 7-4   (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	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. 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.
24564563	3	8	Network Devices added via GUI or MMI become "Discovered" on delete	No operational impact. The issue is transient and clears on its own. **Workaround**: None.

Table 7-4   (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 7-4   (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'	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. **Workaround**: Users can navigate to the desired System OAM tab to get the data.
25651803	3	8	[PCA:CACD] Alarm for Degraded ComAgent Conns when USBRs removed from Session RD	No functional impact. Alarm is raised for servers that do not belong to the active Session SBR Database. **Workaround**: To clear the alarm, restart the SBR servers on which the alarm is raised. CAUTION: If any DCA application is actively sending data to these SBR servers, this workaround is NOT recommended as it may cause traffic loss.

Table 7-4   (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:ApplRestart] 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 7-4   (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 7-4   (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 7-4   (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 addtion 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 7-4   (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 configurating/ 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 7-4   (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¿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 7-4   (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 7-4   (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 7-4   (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:VstpM3U AEventQueue 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.
33550855	4	8.5	SCEF-T8-NIDD-API.yaml needs to be updated (NIDD Group Delivery)	No functional impact. **Workaround**: None.