

**Oracle® Communications
DSR Release 7.1**

Release Notice

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Oracle® Communications DSR Release 7.1 Release Notice

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Chapter 1

Introduction

Topics:

- [DSR 7.1 Introduction.....6](#)

The Oracle Communications Diameter Signaling Router (DSR) product is positioned to address the Telecom Operator market's need for Diameter routing functions in 3G and 4G networks.

This Release Notice includes Feature Descriptions, supported Hardware Baseline, Media and Documentation pack contents and identifies the Supported Upgrade Paths. This document also includes listings of both the Resolved and Known Bugs for this Release. Directions for accessing key Oracle sites and Services are also identified in the [Oracle References and Services](#) chapter.

Release Notices are included in the Documentation Pack made available with every Software Release.

DSR 7.1 Introduction

The Oracle Communications Diameter Signaling Router (DSR) product is positioned to address the Telecom Operator market's need for Diameter routing functions in 3G and 4G networks. Operators are adapting Diameter protocol in migration to LTE converged 3G and 4G networks. DSR 7.1.0 is not a launch of a new product, but rather introduces new functionality to the DSR product, which will be separately chargeable to new and existing customers. The release also includes feature constant updates. DSR 7.1.0 introduces Core Routing III, and Network Integrated Diameter Intelligence Hub as chargeable features.

Chapter 2

Feature Descriptions

Topics:

- *Oracle Communications Diameter Signaling Router, Core Routing III (L103152).....8*
- *Oracle Communications Network Integrated Diameter Intelligence Hub (L103153).....9*
- *Feature Constant Upgrade.....9*

This Release delivers the following features:

- *Oracle Communications Diameter Signaling Router, Core Routing III (L103152)*
- *Oracle Communications Network Integrated Diameter Intelligence Hub (L103153)*
- *Feature Constant Upgrade*

Oracle Communications Diameter Signaling Router, Core Routing III (L103152)

IPFE Initiator + Responder Connections (BUG# 19087317)

- DSR facilitates support for Initiator + Responder Connections using IPFE capabilities
- Removes need for roaming partners to negotiate Initiator / Responder responsibilities
- DSR Initiates and Listens for Diameter connections on single connection using shared IPFE signaling IP address(es)
- RFC6733 election algorithm resolves simultaneous connects

Routing Attributes by (Extended) Command Code(BUG# 19107716)

- DSR is enhanced to provide unique assignment of ART, PRT, Pending Answer Timer, and Routing Option Set based on the following:
 - Application-ID + Command-Code
 - Application-ID + Command-Code + select Application-Specific-AVPs
- Configurability can be system-level or unique for ingress traffic on each DSR Peer Node

Mediation Enhancements

- Support for grouped AVPs that are 8 levels deep (BUG# 19531528)
- Support for "Set Alarm/Event" as an action (BUG# 19531614)
- Support for "Re-direct" as an action (BUG# 19531621)
- Support for "Parse Decorated NAI" as an action (BUG# 19531631)
- Support for new Mediation conditions to identify Requests Redirected by DSR (BUG# 19789230)

Coordinated Egress Throttling across multiple DSRs (BUG# 19110616)

- Allows a mated DSR pair or mated DSR triplet to perform coordinated Egress Throttle Group rate limiting and/or pending transaction limiting to common peer nodes

DSR Support for Redirect Client (BUG# 19088250)

- Allows DSR to process a DIAMETER_REDIRECT_INDICATION response and continue routing the original Request upstream using the Redirect-Host in the response. Optional re-evaluation of the DSR Application Routing Table and Peer Routing Table is supported for routing the redirected Request.

Realm-Based Redirect Notification Support (BUG# 19570707)

- Allows DSR to process a DIAMETER_REALM_REDIRECT_INDICATION response and continue routing the original Request upstream using the Redirect-Realm in the response. Optional re-evaluation of the DSR Application Routing Table and Peer Routing Tables is supported for routing the redirected Request.

Session SBR Database Consolidation and Remating (BUG# 19090988)

- Provides procedures for in-service augmentation of the DSR signaling node-to-Session SBR database relationships to support consolidation of Session SBR databases and remating of DSR signaling nodes.

Oracle Communications Network Integrated Diameter Intelligence Hub (L103153)

Network IDIH (BUG# 19107760)

- Support for network-wide IDIH trigger installation and trace analysis allows centralized, end-to-end troubleshooting of transactions traversing any DSR in the network

Feature Constant Upgrade

DSR Dashboard (BUG# 19104957)

- A new DSR GUI Dashboard screen to view a set of operational metrics associated with the elements at site or across the entire Network
- Provides hyperlinks for drill-down to new or existing Summary Status screens
- Configurable thresholds for enhancing the visualization (e.g., coloring)

TLS/DTLS Support (BUG# 19088254)

- DSR defines security transport characteristics and implements support for TLS/DTLS
- RFC compliant support for security protocol enabled certificate and key exchange
- TLS/DTLS can be independently enabled on each DSR Diameter Connection

SDS Service Continuity (BUG# 19129760)

- Significantly reduces SDS Provisioning downtime during SDS software upgrades

Server Group Based Automated Upgrade (BUG# 19102162)

- DSR automates upgrade software and facilitates robust server-group scoped upgrade procedures. This automation provides flexibility for sequential or parallel server-group upgrade procedure, improving both speed and reliability of the upgrade process.

IPv6 Support for DSR (BUG# 19117611, 19117612, 19117852, 19118470, 19117850, 19117851, 19085083)

- Incorporates support for IPv6 on all internal and external management networks. This, along with DSR's existing support for IPv6 on Signaling networks, allows DSR to be deployed without the need for IPv4 addresses.

Configuration sets for ETG Rate Limiting and Pending Trans Limiting parameters (BUG# 19459484)

- Provides simplified configuration and maintenance of Egress Throttle Group configuration parameters via re-usable profiles

PCAP output for IDIH (BUG# 19942975)

- Supports export of captured IDIH trace data in PCAP format

Port Number Flexibility (BUG# 20083083)

- Simplified management and improved flexibility of local DSR port assignments for Diameter Connections using IPFE

Binding SBR Capacity Growth/Degrowth (BUG# 19090983)

- Allows in-service growth and degrowth of the Binding SBR database capacity in an existing P-DRA deployment, to include augmenting the physical location of the Binding SBR servers

Session SBR Capacity Growth/Degrowth (BUG# 19120094)

- Allows in-service growth and degrowth of the Session SBR database capacity in an existing P-DRA / OC-DRA deployment, to include augmenting the physical location of the Session SBR servers

Per mated pair sizing of Session SBR database (BUG# 19100734)

- Supports independent sizing of the Session SBR databases in a P-DRA / OC-DRA network managed by a common DSR NOAM

P-DRA support for 2.1M network wide MPS on P-DRA (BUG# 19117995)

- Provides world-class scaling of Policy network traffic, supporting up to 2.1 M network wide MPS of P-DRA traffic, including network-wide stateful Gx/Rx correlation to support VoLTE

Enhanced Suspect Binding Cleanup (BUG# 19115816)

- Provides improved VoLTE robustness through P-DRA monitoring of transaction results to teardown IP-CAN sessions associated with failed PCRFs

Chapter 3

DSR Release 7.1 Media and Documentation

Topics:

- [Media Pack.....12](#)
- [Documentation Pack.....12](#)

Oracle Communications software is available for electronic download on the Oracle Software Delivery Cloud (OSDC). Documentation is delivered electronically on the Oracle Technology Network (OTN). Both the software Media Pack and the 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 *Table 1: Media Pack Contents*.

Note: This list is accurate at the time of release, but is subject to change. Please view the Oracle Software Delivery Cloud site for the latest information.

Table 1: Media Pack Contents

Part Number	Description
V77390-01	Oracle Communications Tekelec Virtual Operating Environment 3.0.2.0.0-86.28.0 (ISO and USB images)
V77391-01	Oracle Communications Tekelec Platform Distribution 7.0.2.0.0-86.28.0 (ISO and USB images)
V77482-01	Oracle Communications Tekelec Platform Management and Configuration 6.0.1.0.0-60.21.0
V77483-01	Oracle Communications Diameter Signaling Router 7.1.0.0.0-71.24.0
V77484-01	Oracle Communications Diameter Signaling Router, Full Address Resolution 7.1.0.0.0-71.11.0
V77485-01	Oracle Communications Diameter Intelligence Hub Database 7.1.0.0.0-71.24.3
V77486-01	Oracle Communications Diameter Intelligence Hub Applications 7.1.0.0.0-71.24.3
V77487-01	Oracle Communications Diameter Intelligence Hub Mediation 7.1.0.0.0-71.24.3
V77488-01	Oracle Communications Diameter Signaling Router License Documents 7.1.0.0.0
V77489-01	Oracle Communications Diameter Signaling Router ALL MIBS 7.1.0.0.0

Documentation Pack

All documents available for download from the Oracle Technology Network (OTN) site (<http://docs.oracle.com>) are listed in *Table 2: Documentation Pack Contents*.

Note: This list is accurate at the time of release, but is subject to change. Please view the OTN site for the latest information.

Table 2: Documentation Pack Contents

Name
Release Notice

Name
Licensing Information User Manual
<i>Planning, Installation, Upgrade, and Disaster Recovery</i>
Feature Guide
Planning Guide
DSR Hardware and Software Installation Procedure 1/2
DSR Software Installation and Configuration Procedure 2/2
DSR 7.1 Software Upgrade Guide
3-tier Disaster Recovery Guide
RMS Productization Installation Guide
RMS Productization Disaster Recovery Guide
<i>Core DSR Document Set</i>
Operation, Administration, and Maintenance (OAM) User's Guide
Communication Agent User's Guide
Roadmap to Hardware Documentation Reference
Policy and Charging Application User's Guide
Diameter User's Guide
Mediation User's Guide
Range Based Address Resolution (RBAR) User's Guide
Full Address Based Resolution (FABR) User's Guide
Charging Proxy Application (CPA) and Offline Charging Solution User's Guide
IP Front End (IPFE) User's Guide
Diameter Common User's Guide
Diameter Administrator's Guide
MAP-Diameter IWF User's Guide
SS7/SIGTRAN User's Guide
Transport Manager User's Guide
Gateway Location Application (GLA) User's Guide
Related Publications Reference
Measurements Reference
Alarms and KPIs Reference
Network Impact Report

Name
DSR GLA Feature Activation Procedure
DSR Mediation Feature Activation Work Instruction
DSR CPA Feature Activation Procedure
DSR FABR Feature Activation Procedure
DSR RBAR Feature Activation Procedure
DSR MAP-Diameter Feature Activation Procedure
<i>Core DSR Subscriber Data Server Document Set</i>
Feature Notice
Getting Started
SDS User's Guide
Subscriber Data Server Provisioning Interface
Communication Agent User Guide
Operation, Administration, and Maintenance (OAM) Guide
Alarms, KPIs, and Measurements
SDS Initial Installation and Configuration Guide
SDS Software Upgrade Procedure
SDS Disaster Recovery Guide
<i>DSR Integrated Diameter Intelligence Hub (IDIH) Document Set</i>
IDIH User's Guide
IDIH Audit Viewer Administrator's Guide
IDIH Alarm Forwarding Administrator's Guide
IDIH Operations, Administration and Maintenance Administrator's Guide
IDIH ProTrace User's Guide
IDIH System Alarms User's Guide
IDIH Log Viewer User's Guide

Chapter 4

Supported Hardware Baseline

Topics:

- [Supported Hardware Baseline.....16](#)

The Hardware identified in [Table 3: Supported Hardware Baseline](#) comprises the hardware and server versions that have been verified with this Release.

Supported Hardware Baseline

Table 3: Supported Hardware Baseline

Hardware	Description
HP G6	Intel Nehalem CPU-based dual-socket blades and rack mount servers manufactured by HP
HP G7	Intel Westmere CPU-based dual-socket blades and rack mount servers manufactured by HP
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

Chapter 5

DSR Release 7.1 Supported Upgrade Paths

Topics:

- [Supported Upgrade Paths.....18](#)

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

Supported Upgrade Paths

The possible upgrade paths to DSR Release 7.1 are listed below.

Table 4: DSR Release 7.1 Upgrade Paths

From	To
5.1.x	7.1.0
6.0.x	7.1.0
7.0.x	7.1.0

Note:

- Any upgrade other than listed above is not recommended or supported.
- 7.1.0 is supported as a new or fresh installation as well.

Chapter 6

DSR Release 7.1 Resolved and Known Bugs

Topics:

- [*Severity Definitions.....20*](#)
- [*Resolved Bug Listing.....20*](#)
- [*Customer Known Bug Listing.....24*](#)

This chapter lists the Resolved and Known Bugs for DSR Release 7.1.

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

Severity Definitions

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

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

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

1. **Critical:** Conditions that severely affect the primary functionality of the product and because of the business impact to the customer requires non-stop immediate corrective action, regardless of time of day or day of the week as viewed by a customer on discussion with the organization such as:
 - Product inoperability (total or partial outage),
 - A reduction in the capacity capability, that is, traffic/data handling capability, such that expected loads cannot be handled,
 - Any loss of emergency capability (for example, emergency 911 calls), or
 - Safety hazard or risk of security breach.
2. **Major:** Product is usable, but a condition exists that seriously degrades the product operation, maintenance or administration, etc., and requires attention during pre-defined standard hours to resolve the situation.

The urgency is less than in critical situations because of a lesser immediate or impending effect on product performance, customers and the customer's operation and revenue such as:

- Reduction in product's capacity (but still able to handle the expected load),
 - Any loss of administrative or maintenance visibility of the product and/or diagnostic capability,
 - Repeated degradation of an essential component or function, or
 - Degradation of the product's ability to provide any required notification of malfunction.
3. **Minor:** Other problems of a lesser severity than 'critical' or 'major' such as conditions that have little or no impairment on the function of the system.

The numbered severity levels in the tables below correspond to these definitions:

- 1 - Critical
- 2 - Major
- 3 - Minor

Resolved Bug Listing

Table 5: DSR Release 7.1 Resolved Bugs lists bugs that are resolved in the following builds:

DSR Release 7.1 Resolved and Known Bugs

Application Lineup

- DSR 7.1.0.0-71.24.0
- IDIH 7.1.0.0-71.24.3
- SDS 7.1.0.0-71.11.0

Platform Lineup

- TPD 7.0.2.0-86.28.0* (DSR/IDIH/SDS Baseline; Oracle Linux 6.6)
- TPD 7.0.1.0-86.20.0 (PM&C TPD Version)
- TVOE 3.0.2.0-86.28.0
- PMAC 6.0.1.0-60.21.0
- Comcol 6.4-p252
- Appworks 6.0.1-60.35.0
- Exgstack 7.1.0-71.22.0
- HP Firmware 2.2.9 (minimum)

Note: * As part of successful installation of the DSR/IDIH/SDS applications, the TPD version is upgraded to 7.0.2.0-86.32.0.

Table 5: DSR Release 7.1 Resolved Bugs

Bug Number	Found Rel	Title
19689814	3.0	[211632] Expected error not returned when attempting to edit/delete Network in u
19687858	3.0	[215394] BIE: CEX config set import insert does not error when more than 10 Appl
19687814	3.0	[211750] [RBAR BIE] Individual Addresses import fails after first error
19687734	3.0	[215544] Error code 19126 generated when an attempting to modify the remote busy
19687708	3.0	[215359] Error message indicating not enough memory is generated while attempting
19687644	3.0	[215307] DSR GUI: Edit Application ID fails
19687577	3.0	[214455] Check for maximum number of CEX Config Sets not performed by DSR OAM GU
19092517	3.0	[220319]PS CSR: EE DSR: MP Switchover takes about 30 secs
19092509	3.0	[220313]PS CSR: EE DSR: Consecutive Failed Login fied in GUI doesnt update
19087315	3.0	[215685]DSR ISO Transfer: Transfer fails but GUI shows Successfully Completed
19086810	3.0	[212808]IPSEC - core files, dropping connections
19085130	3.0	[198219]DSR does not include Failed-AVP AVP with Result-Code AVP 5014
21035886	4.1	Reconnecting SCTP MMEs stuck on same DA-MP
19601162	4.0	Configuration->Network Element [Edit] – OK button not responding

DSR Release 7.1 Resolved and Known Bugs

Bug Number	Found Rel	Title
19119645	4.0	[241777]Mediation is not able to convert negative answer message into a success
19118181	4.0	[240565]RxRoutedIntraMPAttempt measurement is being pegged in both cases of rout
19117103	4.0	[239718]CEX cfgset form loses vendor IDs when editing
19101627	4.1	[227651]PDRA: Event 22700 - Typo - "Invalid" misspelled
19097979	4.0	[224782]"Transaction Lifetime" under ROS does not sort properly, same with Pendi
19097417	4.1	[224293]PDRA: Error Box Not Displayed Despite Invalid Input
19095450	4.0	[222665]Issues getting multiple IPSEC connections operational at the same time o
21502460	5.0	SDS Alarm ID 32533 (Max pid warning)
20516431	5.0	Improve DB Exception alarming in SDS (only method is to check command log)
20504871	5.0	Failed-AVP is missing in CEA
19354483	5.0	Customer:KPN issue MP seeing ..EXPECTED_CPUS=31 is deprecated!
19285456	5.0	Stuck alarm ID 10009 ¿Config and Prov db not yet synchronized¿ ¿replication not
19118267	5.0	[240633]DSR5.0: GUI: unable to prevent user from seeing or changing IPFE Option
19114971	5.1	[238071]EDL: validation logic is incorrect
19114413	5.0	[237641]status and Manage - HA form, change needed to column names
19114328	5.0	[237570]GUI Server Form - first column is NE, which is incorrect
19113071	5.0	[236603]RBAR Configuration Reports do not Contain Parameter Definitions
19111163	5.0	[235102]DSR: CSRF Mediation attack blocked, but seculog details not captured
19111137	5.0	[235079]OAM: Discrepancy in "Connection Capacity Dashboard" and "DA-MPs" mainten
19109682	5.0	[233926][CSRF] User can be logged out using CSRF attack.
19108741	5.0	[233189]Active/Standby DA-MPs w/IPFE not handled properly by DSR OAM
19096270	5.0	[223339]Event ID 22002 is triggered for PRT rules with different priorities conf
19103833	5.0	SDS configuration options does not validate entries in the IP address fields.
20828301	5.0	Continuous Event 31215 "xds" Process Resources Exceeded
20828902	5.0	SDS should fail with 2022 if all keys do not point to same sub (reads/deletes)
20829009	5.0	SDS 5.0.1 (apw 5.5) Browser Support

DSR Release 7.1 Resolved and Known Bugs

Bug Number	Found Rel	Title
20828057	5.0	SDS 5.0 Backup / Restore fails to restore SOAM Destination table
20827974	5.0	Manual DRNO Failover causes Log table merging to be stuck for 60 minutes
20061081	5.0	[SDS] Server Groups: Error when removing Server Groups should be more specific.
21275108	6.0	DSR application software does not enable the HA VIP audit for VIP_DA_MP HA
20978881	6.0	Problem of CAPM import/export with PegCounter
20905566	6.0	Unable to remove MP configured as Multi-Active Cluster from MP Server Group
20419478	6.0	Getting occasional timeouts for MAP originated traffic
19687361	6.0	Need to evaluate if prod.dbdown needs to be removed from upgrade loader
19403786	6.0	FABR Address Resolution: Filtering is not working for Application name
19403590	6.0	Filter box in Connection screens jumbled up when Info box is present.
19116323	6.0	[239093]EDL: Two getGroupedAvp() function calls with different instance numbers
19113920	6.0	[237257]GUI does not validate duplicate entry for command code Name
21288055	7.0	pSBR needs to be changed to SBR in on-line help
21209429	7.0	TransportConnection table- back out from DSR 7.0.0.0.0_70.22.0 to 5.0.0_50.21.0
21155724	7.0	Site provisioning can't be enabled after backout from 7.0.1
21080386	7.0	iDIH 7.0.1: IDIH to update ComAgent alarms.
21078206	7.0	[Cloud] ImpParser process got crashed on IDIH-Mediation VM
20851979	7.0	Continuous VITAL is coming for App fwd request and PRT not found scenario
20729427	7.0	DCL: EMR abatement timer not working correctly
20688150	7.0	Feature Notice Release 6.0 Present in TOC
20630266	7.0	3-site Fresh Install - PCA activation, feature not visible in GUI of sites 2/3
20602066	7.0	PCA Activation scripts does not activate feature on active DR NO
20568865	7.0	guiScreenName table upgrade loader discrepancy for major upgrade to 70.20
20561348	7.0	Signaling upgrade loader discrepancies for upgrade to 70.20.0
20538203	7.0	Mediation upgrade loader discrepancies for major upgrade to 70.20.0
20524680	7.0	[IPFE] Missing ranges on attributes
20523211	7.0	[STP 7.0] - Typo in output of upgradeHealthCheck status with daMpStatus argument
20431417	7.0	[STP 7.0]Typo in Event 22700 Protocol Error - Invalid IPv6 Address Length

DSR Release 7.1 Resolved and Known Bugs

Bug Number	Found Rel	Title
20417287	7.0	PCA Activation scripts enhancement.
20411831	7.0	DSR Disaster Recovery: Features must be deactivated after disaster recovery
20411059	7.0	LRGSYS:Updates to the /etc/hosts for a server in a large topology is slow
20229011	7.0	[7.0 SSST]IPFE conns didn't re-establish through mate IPFE if active cold booted
20199738	7.0	DSR L2D3 HW profiles updates for bond eth21 and eth22 for bond1
20199376	7.0	DSR Netconfig 4948 Templates need to include IMI VLAN on Managament server links
20138567	7.0	[STP7.0] Unable to download backup files resulting from backupAllHosts
20045979	7.0	Permission of ;/var/TKLC/rundb/run/db; incorrect after DR of SOAM servers
19831512	7.0	[Coverity] GLA does not initialize savedErrorCode
19722536	7.0	DCLv2: DSR does not respond correctly to DWR & DPR messages with invalid lengths
19706654	7.0	DCLv2: CER with invalid length causes connection to become stuck
19679630	7.0	Missing AVPs in Vendor-Specific-Application ID not causing error msg
19119913	7.0	[241976]DSR: Remove CPU affinity attributes from MP profiles
19115937	7.0	[238811]Update format of Error-Message AVP when DSR generates a Diameter Answer

Customer Known Bug Listing

Table 6: DSR Release 7.1 Customer Known Bugs lists known bugs in this release.

Table 6: DSR Release 7.1 Customer Known Bugs

Bug Number	Severity	Release	Title	Customer Impact Statement
20971728	2	DSR 6.0	Value of KASME is incorrect in Diameter AIA when translating from SAIResponse	Customer Impact: All AIR/AIA messages that involve authentication interworking with HLR's that are pre-release 8 (HLR does not support LTE authentication) will fail.
21305131	2	DSR 7.1	IPFE I+R connections cause DA-MP stasis when Resp half lands on different DA-MP	"Customer Impact: For users who have; (a) configured a significant number of IPFE I-R connections and (b) are running at or near full capacity in term of connection and/or reserved

DSR Release 7.1 Resolved and Known Bugs

Bug Number	Severity	Release	Title	Customer Impact Statement
				MPS,DA-MP's could send a STASIS message to IPFE telling IPFE that it has reached maximum connections capacity although it has less than maximum number of connections established on it.Workaround: User could consider changing the IPFE I+R connections to either IPFE Initiator or IPFE Responder connections."
21417112	2	DSR 7.1	[NIDIH] Traffic failures while running IDIH trace on large system	"Customer Impact: Potential traffic impact; when running maximum supported traffic and an IDIH site trace for requests with a scope of ALL is started, Diameter traffic could fail for a period of time (1-2 sec) . After this time period, everything stabilizes and Diameter traffic is processed successfully again. This issue has only been observed when; - running the maximum supported traffic rate on all 16 DA-MPs (640k FABR traffic/ 40k per MP) AND - running an IDIH site trace for requests with a scope of ALL and 100 matches (effectively matches everything) "
19085999	3	DSR 5.0	[207367]Filtering - Inconsistent sizing of the Filter drop down box occurring on	Customer Impact: Overall filtering operation is working, but the appearance is the concern. Filtering widgets are not consistent in resizing.
19086131	3	DSR 5.0	[208467]CAPM DiamMed: Event 25000 does not identify template_name in View Active	Customer Impact: Customer will not see the affected Template when Event ID 25000 occurs.
19103600	3	DSR 5.0	[229225]Event logs should be correctly updated with the appropriate Congestion L	Customer Impact: This will not affect traffic or stability. Congestion-related SNMP traps and log entries may be misleading.

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Bug Number	Severity	Release	Title	Customer Impact Statement
19106495	3	DSR 5.0	[229195]DSR: Proving on floating responder connections is unpredictable	Customer Impact: If a responder connection goes down and is subsequently re-established on a different MP, the disconnect reason may not match and so proving may be conducted when it does not need to, or vice-versa. This may result in peer connections taking longer than usual to be proven/established.
19107957	3	DSR 5.0	[232586]CVU: Edit CapCfgSet not considering other potential conditions if overla	Customer Impact: Possible impact. In rare cases, this could allow an MP to become over-provisioned.
19108110	3	DSR 5.0	[232691]Align DOC and Congestion measurement names to use a consistent naming pa	Customer Impact: None, this is a measurement naming consistency issue. There is no functional impact.
19109641	3	DSR 5.0	[233904]Unable to continually view the Active Tasks screen	Customer Impact: No operational impact. Customer will require Tekelec support to clear the long running task on the mate server. Task are not impacted, impact is that customer will not be able to see all current task.
19109895	3	DSR 5.0	[234068]Cannot set DSCP for Control interface	Customer Impact: Customer will not be able to set DSCP for the control interface.
19110027	3	DSR 5.0	[234178]SecuLog not properly displaying DSCP actions in history	Customer Impact: Functionality of DSCP is intact, but customer may be confused by entries in the Security Log. This will not affect production traffic.
19113617	3	DSR 5.0	[237016]GUI screen resizing issue with Internet Explorer	Customer Impact: This is a screen resizing issue with IE which may prevent the user from seeing the maximum amount of screen content after attempting to resize. Workaround is to close the IE browser session, resize the window and then log back in.

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Bug Number	Severity	Release	Title	Customer Impact Statement
19113937	3	DSR 5.0	[237273]Unable to change DSR GUI password during upgrade	Customer Impact: User will not be able to log back into the GUI to continue the upgrade until Oracle support resets the GUI password.
19114498	3	DSR 5.0	[237710]Capacity Configuration Set Abatement Timer defaulting to 0 after upgrade	Customer Impact: Workaround available to restore correct value after upgrade. With a 0 abatement time, once the system is reaching Ingress MPS thresholds, it won't wait for the desired time (2000 ms) before changing the alarm controls, as a result, the user will experience sudden traffic losses when the traffic load is approaching configured Ingress MPS thresholds.
19115571	3	DSR 5.0	[238523]DSR 5.0, Server screen "NTP server" value blank after upgrade when NTP p	Customer Impact: After update, it is necessary to review the NOAM Configuration --> Server screen. If the NTP settings are not what was configured at the servers, then a procedure will be needed to update the NTP server settings on the NOAM GUI form to match what is deployed on the servers.
19116269	3	DSR 5.0	[239050]Incorrect 'Result-Code Name' in 'FABR-> Configuration-> Exceptions' GUI sc	Customer Impact: Issue is only with GUI display. On SOAM GUI 'FABR > Configuration > Exceptions', 'Routing Exception Action', when using "Send Answer with Experimental-Result AVP" result code 5001 will be displayed as 'AVP_UNSUPPORTED' instead of 'DIAMETER_ERROR_USER_UNKNOWN'.
19116542	3	DSR 5.0	"[239270]DSR (and other products using appworks/comcol) measurement report grouping and export reporting mismatch"	Customer Impact: Measurement reports for arrayed measurements may be longer than needed and some parameters may not make sense.
19116721	3	DSR 5.0	[239416]?IPFE Connection Reserved	Customer Impact: The end user will not have the ability to

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Bug Number	Severity	Release	Title	Customer Impact Statement
			Ingress MPS Scaling? ? set to 100% after upgra	change the IPFE Connection Reserverd Ingress MPS Scaling.
19117094	3	DSR 5.0	[239706]DSR 5.0 - ?IPFE_Options? Exported Data ? Following fields are set to ?bl	Customer Impact: The end user will see blank fields when trying to view exported IPFE options on exported file.
19153312	3	DSR 5.0	Tasks > Active Tasks > Result Details Column = blank on export	"Customer Impact: Customer will not be able to view exported files from GUI: ""Status & Manage > Tasks > Active Tasks"" Result Details column. Workaround:Exported files are viewable when downloaded from GUI: ""Status & Manage > Files""."
19356067	3	DSR 5.0	DA-MP switchover time in DSR 5.0 is over 20 sec	Customer Impact: For customers configured with Active/Standby MPs, DA-MP switch over can take more than 20 sec when rebooting the active server.
19430341	3	DSR 5.0	[DSR] 5.0.1 Deleted server group showing alarm	"Customer Impact: Alarm will not clear until failover unless manual workaround is applied.Workaround: One way to make sure it clears is to not delete the old empty server group until its alarm has cleared (which will happen when you add the servers to the new groups). Also on NO failover, these alarms are all cleared, then re-raised on the new NO if the condition still exists. So it would clear on a failover as well."
19552760	3	DSR 5.0	DSR 5.0 - Configuration of DA-MP took 3 hours to execute script till completion	Customer Impact: Disaster recovery of MP servers could require extended maintenance window.
19612173	3	DSR 5.0	VIP resource monitoring is not enabled for the VIP_DA_MP HA resource	Customer Impact: DA_MP VIP manager will not audit at the interval of 60 seconds to ensure that VIP is properly configured for DA-MPs.

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Bug Number	Severity	Release	Title	Customer Impact Statement
19816125	3	DSR 5.0	Secondary IP address is missing after a MH connection is edited	Customer Impact: When the edit button is clicked, the secondary IP address won't show on the GUI. GUI only shows "Select" for the secondary IP address, and there is nothing to select in the pulldown. The user has to re-select the primary IP address again, then the secondary IP address will be available to be selected.
19941810	3	DSR 5.0	minor alarm event 31214 process consuming excessive system resources	Customer Impact: Customer will receive the minor alarm event 31214 "Process Resources Exceeded" when configured with Diameter relay traffic running at rate above 22k/DA-MP all MP's when configured with with 16K connections, 16K peer nodes, and 2000 connections per MP.
20123471	3	DSR 5.0	PDRA : SSBR failover testing resulted in ~5.7 seconds worth traffic loss	Customer Impact: If user manually stops the application on the active Policy SBR, traffic will not be processed until failover completes.
20384078	3	DSR 5.0	Alarm Events Do Not Show Up After a SOAM/NOAM Changeover	Customer Impact: After switchover of SOAM or NOAM customer may not be able to Alarm&Events logs from before the switchover.
20440510	3	DSR 5.0	LRGSYS: Backup Failure Alarm 10020 not getting cleared after successful backup	"Minimal Customer Impact: Configuration issue This issue does not impact SOAMs that are already configured. The issue only happens if there is a long delay between configuring the server and adding to the topology. Also the backup alarm is only seen for the first time. Further backup works and clears the alarm. Workaround is available. Contact My Oracle Support (MOS) for assistance if needed."
20520696	3	DSR 5.0	Fix keyxchange for customers who block ICMP.	Minimal Customer Impact: Customers who block ping must

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Bug Number	Severity	Release	Title	Customer Impact Statement
				use the "--noping" option with the "keyexchange" command.
20878203	3	DSR 5.0	Diameter Meas TxConnSendBufAvg 0 & TxConnSendBufPeak n/a unexpectedly	"Customer Impact: Inaccurate measurement values for TxConnSendBufAvg & TxConnSendBufPeak in case where DSR send buffer and peer receive buffer sizes are different. Workaround: Ensure that DSR send buffer and peer receive buffer sizes are the same."
21033291	3	DSR 5.0	DSCP not working on IPFE: iptables rules are overwritten by the IPFE process	Customer Impact: No functional impact to Signaling because DSCP marking values at the MP are unaffected and therefore all outgoing packets over the Signaling network will still contain the desired DSCP marking value configured.
21061020	3	DSR 5.0	Apply Button Allows double entry for routes in NOAM GUI	Customer Impact: User could inadvertently add duplicate routes if pressing Apply button more than once on the NOAM, "Main Menu: Configuration -> Network -> Routes". If duplicate route is entered, user can use the NOAM GUI to delete it.
21457741	3	DSR 5.0	After backout backout_restore script in /var/tmp was of old release	"Customer Impact: When user restores the database, the permission of the database files, when any changes are made from the GUI, could lead to a database access error. ""Failed to get WSSE passwd"" error will be displayed in this scenario. Workaround: If a backout is planned, ensure that backout_restore file from /usr/TKLC/appworks/sbin is copied to a safe location such as /var/tmp or /var/TKLC/db/filemgmt. After backout that file should be used for backout restore."

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Bug Number	Severity	Release	Title	Customer Impact Statement
21561983	3	DSR 5.0	GUI does not restrict removing a TSA server from the server group	Customer Impact: User must be careful when working with a DA_MP used in a TSA. The GUI does not restrict removing the DA_MP from the server group however alarm 19901 will be raised.
19109938	3	DSR 5.1	[234101]The psbr process must set its HA state to OOS when it loses connection t	Customer Impact: If a PSBR server loses cmHA heartbeat with its peer due to IP network connectivity issue, the psbr process may remain OOS indefinitely.
19111423	3	DSR 5.1	[235310]DSR OAM: GLA Alarm Threshold (GlaAlarm) MO attribute keyword changes	Customer Impact: The format of the data in future SOAP interface queries will be affected.
19112511	3	DSR 5.1	[236181][GLA] Online help needs to be added for the GLA feature	Customer Impact: Customers may view a broken link - "Topic Not Found" error when attempting to access help from the GLA Configuration screen. However, customer documentation containing GLA configuration information is available online.
19112623	3	DSR 5.1	[236264][POOL] GUI:Failed to edit the group 'admin' permission on GUI	Customer Impact: User is unable to edit the admin permissions from GUI.
19112798	3	DSR 5.1	[236407]DSR: Description of Peer Node's Alternate Implicit Route is incorrect	Customer Impact: No functional impact, but the current description could cause the user to misunderstand the functionality of Alternate Implicit Routing.
19113154	3	DSR 5.1	[236654][POOL] Minor discrepancies in PDRA BIE CSV file and GUI	Customer Impact: BIE Menu order does not match the GUI Left hand menu for Policy DRA.....no impact to system or functionality.
19113242	3	DSR 5.1	[236726][POOL] Last Updated field does not	Customer Impact: Last Updated field does not get updated when user click 'Apply' button on Pcrf

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Bug Number	Severity	Release	Title	Customer Impact Statement
			get updated on Pcrf SubPool Selection	SubPool Selection Rule insert screen. No functional impact.
19113323	3	DSR 5.1	[236806][POOL]GUI: Remove red asterisk for PRT name on PCRFP2PRT Mapping Edit sc	Customer Impact: No customer impact. But this issue will mislead the customer about filling of PRT name under Policy DRA -> Configuration -> PCRF Pool To PRT Mapping.
19113353	3	DSR 5.1	[236830][POOL] Incorrect description in confirmation dialog when PCRF Pool maps	Customer Impact: No customer impact. But the customer will not be warned by confirmation dialog that the current PCRF Pool under change is currently used for bindings originating from at least one APN.
19113776	3	DSR 5.1	[237139][POOL] GUI: Missing error code 21200 when PCRF Peer Nodes are already co	Customer Impact: The customer may mis-insert a non-qualified PCRF into PCRF list.
19113817	3	DSR 5.1	[237171][POOL]GUI: No error displayed on PCRFs screen when field contains invali	Customer Impact: This issue may cause invalid characters(like non 7-bit ASCII printable characters) to be inserted into "Comments".
19114211	3	DSR 5.1	[237476][PDRA] MSISDN should only support 15 digits	Customer Impact: No customer impact. The customer will not be able to see an alarm when the length of MSISDN is greater than 15, but typically the length of MSISDN in the customer network should be 15.
19114308	3	DSR 5.1	[237554][POOL] " Audit " Suspend Duration of Event 22716 is not showing a su	Customer Impact: The customer will see incorrect information(suspend duration) from event 22716 when congestion is over.
19114637	3	DSR 5.1	[237820][POOL] GUI: Display the time zone as abbreviation in Binding Query Repor	Customer Impact: No customer impact. Time Zone is just displayed in a different format than our internal requirements specify
19114744	3	DSR 5.1	[237907][POOL] GUI Missing red asterisk in Binding Key Priority screen for Bindi	Customer Impact: No customer impact.

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Bug Number	Severity	Release	Title	Customer Impact Statement
19114754	3	DSR 5.1	[237916][GxP]: Measurement TxPdra Answer Created For Diameter is not pegged fo	Customer Impact: Certain measurement peg counts for Gx' messages are not pegged in the required way.
19114908	3	DSR 5.1	[238022][POOL] BIE: Remove unused fields in Congestion Options CSV file	Customer Impact: No operational impact.
19115064	3	DSR 5.1	[238151][POOL]Security Log: Update the Site/NW Options and Error Code screen nam	Customer Impact: No customer impact.
19115246	3	DSR 5.1	[238286]Device Configuration - after "Take Ownership", enslaving configuration o	Customer Impact: No functional impact. "baseDevice" will not be visible for bonded interfaces on GUI under "Configuration -> Network -> Devices".
19115268	3	DSR 5.1	[238297][POOL] IPv4/IPv6 BKQT reports show blank "Binding Creation Date/Time" fi	Minimal impact to usability - Documentation was updated to indicate this behavior.
19115366	3	DSR 5.1	[238361]DSR GUI: Application Route Table screen shows flat list of rules	Customer Impact: Application Route Table GUI configuration form can get into a incorrect state. User will get error, and must re-start the GUI form.
19115828	3	DSR 5.1	[238733]P-DRA CongOptions BIE format contains way too many fields	Customer Impact: No impact. Extra fields in the form may be left blank.
19116029	3	DSR 5.1	[238878]GLA does not add Failed AVP for 3xxx result code when IMSI and MSISDN pr	Customer Impact: Customer would need to use the following workaround. The workaround for this issue is to use the intended Diameter result code for this error case, 5007, Conflicting AVPs. That will result in IMSI and MSISDN being present in the answer message.
19116743	3	DSR 5.1	[239435] Auth-Application-Id AVP validation in DSR 5.1 with PDRA activated	Customer Impact: No impact. RAR messages without an Auth-Application-Id AVP are routed without any error. If one

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Bug Number	Severity	Release	Title	Customer Impact Statement
				of the end points fails the call because of the missing AVP, DSR will be notified of the failure.
19116923	3	DSR 5.1	[239575][EAVP] Incorrect Result Code for Gx Prime DRL Queue full scenario	Customer Impact: In DRL queue full error scenarios, for Gx Prime message, the result code is set to the Gx Result code(2002) instead of GxPrime Result Code(9002) in the Error Code configuration screen.
19116929	3	DSR 5.1	[239578]EAVP: Measurement TxPdra AnswersGenerated ForDiameterErr is not pegged for	Customer Impact: 10833: TxPdraAnswers GeneratedFor DiameterErr is supposed to be pegged for error condition DRL Queue full when trying to route a Request. In P-DRA Diameter Exception report, only TxCcxMsg DiscardedDueTo DrlQueueFull is pegged but not TxPdraAnswers GeneratedFo rDiameterErr. Same is the case for Rx and GxPrime messages.
19117089	3	DSR 5.1	[239703][POOL] Validation needed on Session-Id AVP	Customer Impact: Allows for an invalid Session-Id to be used for reference and passed on to the PCRF. If the PCRF rejects the message because the Session-Id is not valid, then PDRA will handle that. However, if a client sends a "blank" Session-Id, we may not be able to create the session, even if the PCRF OKs the request.
19117140	3	DSR 5.1	[239747]PDRA: Last audit report for one of the old binding tables is not generat	Customer Impact: The last audit report before migration completes will be delivered. This is the only audit report missing. All audit reports prior will be delivered. All audit reports post-migration will be delivered.
19117177	3	DSR 5.1	[239775]LRGSYS:Status data is being merged to the NO	Customer Impact: This issue can result in reduced XMI bandwidth to the NOAM. The issue should be minimal since the data is only merged up when the connection status changes state.

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Bug Number	Severity	Release	Title	Customer Impact Statement
19117212	3	DSR 5.1	[239800]PSBR: In Pending RAR audit report, Num of Release PendingRar records not	"Customer Impact: Inaccurate measurement count. Pending RAR audit report has data 'Number of Release PendingRar records not added due to max capacity'. But the report does not show the count of Release PendingRar records that could not be added because another record with same session id but different alternate key had already been added."
19117283	3	DSR 5.1	[239854][POOL] " BIE " PCRF Pools screen, the PCRF Pool Name "Default" valu	Customer Impact: Customer could delete the Default PCRF Pool Name value unknowingly, especially if the user follows the same logic that other attempts to delete the Default values are not allowed.
19117443	3	DSR 5.1	[239988]Replication failure on standby server is also causing the replication fa	"Customer Impact: If replication to the Standby PSBR server fails, the replication barrier will also prevent replication to the Spare PSBR server. This would mean a potential loss of Session/Binding data if the Active server fails. Workaround: Recovery procedure is available."
19117659	3	DSR 5.1	[240158][Upgrade] " Browser hangs with connection error when NOAMP switches ac	"Customer Impact: When upgrading PDRA systems it was sometimes observed that the browser hangs and will not refresh back to the login screen when the second NOAMP was ""Prepared"" (Upgrade screen). This would be the currently active NO. The failover does occur and the other NO does becomes active, verifying via a terminal window connected to the NO VIP as well as opening a new browser window /session. The browser displays the ""Connection error"" in the upper left hand corner of the GUI. Workaround: The user can refresh the browser for the login screen to appear."

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Bug Number	Severity	Release	Title	Customer Impact Statement
19117829	3	DSR 5.1	[240283]Alarm Thresholds for psbr.MemPerTotal need to be increased	Customer Impact: Customer may find system default settings, 70% minor, 80% major and 90% critical are not optimal for their network. If the default settings need to be changed they can be adjusted with help from Oracle support.
19117922	3	DSR 5.1	[240355]PDRA: Services configuration not used for SOAP query for PCRF configurat	Customer Impact: If the customer wanted to use a different network for SOAP queries, they would not be able to.
19118400	3	DSR 5.1	[240743][PDRA] APN case is not saved when inserting an APN for which an existing	Customer Impact: No operational impact. If a new APN (APN never existed, ie. no retired APN exists either) is configured in the GUI the case is stored correctly. For example provision two APNs, "ABC" and 'def', and they would be stored exactly as typed (one uppercase, one lowercase). However, the APN "ABC" is deleted and then an APN with value "abc" (only difference being I changed it to lower case) is added, the APN is added, but still shows up as "ABC". The system will still work properly, but it may confuse the customer as to why case was not saved on the second "ABC" APN.
19118407	3	DSR 5.1	[240748]Software Management Upgrade screen constantly displays backup in progres	Customer Impact: After upgrade, if "Backup in Progress" is displayed on the upgrade screen, any defunct long running task processes must be deleted. Please contact support for assistance.
19118413	3	DSR 5.1	[240754][POOL] Spares taking too long to give up active status	Customer Impact: User will need to use the active server IP address until VIP is available. System will prevent the user from using the primary VIP to access the system. It will take a full hour for the primary VIP to be active after the Spare finally gives up its active status.

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Bug Number	Severity	Release	Title	Customer Impact Statement
19118854	3	DSR 5.1	[241131]PDQ report header does not show HA state of NOAMP server	Customer Impact: No operational impact. The report that gets saved will not reflect the HA status of the NOAM server that generated the report.
19119158	3	DSR 5.1	[241339]apwSoapServer booted due to an error during route audit	Customer Impact: User will see alarm 10009(Config and Prov DB not yet synchronized) on the GUI, but signaling traffic is unaffected. The alarm can be cleared by rebooting the affected NO.
19119206	3	DSR 5.1	[241437]DSR GUI should not allow users to remove servers from server groups if i	Customer Impact: The DSR GUI currently allows the user to remove a server from a server group even though that server is referenced in one or more IPFE target sets.
19119224	3	DSR 5.1	[241454]PDRA: Measurement 11311 TxPdra AnswersGenerated ConfigErr is not pegged fo	Customer Impact: No signaling impact. This measurement is not pegged in this condition.
19119350	3	DSR 5.1	[241561]PDRA - Application enabling on DA-MP when some SBR resources are not ava	Customer Impact: The DA-MP server will come into service even if it does not have a valid connection to all Binding and Session sub resources. If it has connections to some Binding and Session sub resources it will come into service. The intention was for the DA-MP to provide no service until it has all connections. It will instead provide some service.
19119355	3	DSR 5.1	[241567]Major upgrade time from DSR 41.20.1 to DSR 51.18.0 now exceeds requireme	Customer Impact: The major upgrade from DSR 4.1.5 to DSR 5.1 on a large PDRA system is no longer able to be executed within the maintenance upgrade window.
19119404	3	DSR 5.1	[241603][POOL] SO Site Option configured PRT removal could look cleaner (major u	Customer Impact: No operational impact.

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Bug Number	Severity	Release	Title	Customer Impact Statement
19119405	3	DSR 5.1	[241604][POOL] MSISDNs rebound to new IMSI on different PCRF not updating origin	Customer Impact: No impact to customer. It just deals with which tables are used.
19119407	3	DSR 5.1	[241606]idbsvc abtermed on stdby binding pSBR with large number of binding recor	Customer Impact: Loss of redundant binding pSBR until process restarts.
19119420	3	DSR 5.1	[241615][POOL] BIE-PCRF Pool to PRT Mapping import errors when when no APN is m	Customer Impact: User could encounter errors with Bulk import when there is a misconfiguration.
19119561	3	DSR 5.1	[241724]PDRA: Full disaster recovery puts application in unstable state	Customer Impact: This can extend the duration of the disaster recovery and requires Oracle support to resolve.
19119801	3	DSR 5.1	[241888]Alarm Export disabled during Upgrade Window	"Customer Impact: User will not be able to export event log CSV file during upgrade. Workaround is to use Report button to create the report in non plain text format and view it."
19119879	3	DSR 5.1	[241947]Site failover/failback results in Alarm 31283 - HA disconnected from Ser	Customer Impact: Invalid alarm seen on system.
19120152	3	DSR 5.1	[242158]MSISDN Binding query report showing two binding data for the same MSISDN	Customer Impact: No Impact to signaling. The MSISDN Binding Query Report will not match the IMSI Binding Query Report for Same Information. This might confuse the user but the data being displayed is accurate, however not sorted correctly.
19120392	3	DSR 5.1	[242333]DSR 5.1: Problem with Measurements 11354 and 11357	"Inaccurate measurements pegged for PsbrImisiSrRemoved ByAudit and PsbrMsisdnSr RemovedByAudit.Measurement ""PsbrImisiSrRemoved ByAudit"" shows the count of MSISDN Session References deleted by Audit. Measurement ""PsbrMsisdnSrRemoved

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Bug Number	Severity	Release	Title	Customer Impact Statement
				ByAudit"" shows the count of IMSI Session References deleted by Audit."
19128609	3	DSR 5.1	DSR 5.1 Measurement 10865 is pegged twice for Binding Dependent Sessions	"Customer Impact: Inaccurate measurement pegged for PsbrStaleSessionRemoved. When session audit cleans up a binding dependent session, it is incrementing the measurement 10865 (PsbrStaleSessionRemoved) by two instead of one."
19679676	3	DSR 5.1	PSBR KPIs displayed on NO and PDRA servers	Customer Impact: Inconsistent report output. The PSBR KPIs is not applicable to NO server, but it displays "0" value while the other NO server(standby), SO, PDRA, IPFE,etc show "blank".
20990574	3	DSR 5.1	DSR proc restart related to DC election churn caused by DC hanging on a lock	Customer impact: In the event of DC (Designated Coordinator) election churn, DSR_Process may get restarted due to OOS notification.
19100327	3	DSR 6.0	[226656]DSR OAM: Cleanup terminology, wording, descriptions, etc.	"No functional Impact: DSR OAM GUI. GUI screens have not been completely revised to Cleanup terminology as noted in PR."
19100665	3	DSR 6.0	[226930]DSR OAM Capacity Validation Updates	Minimal Customer Impact: IPFE Configuration modification. User may not receive certain validation errors during IPFE configuration modification.
19106500	3	DSR 6.0	[231464]Remove all causes for continuous DSR process restart	Customer Impact: Missing Alarm. Customer may not receive an alarm if the DA-MP encounters a critical fault during initialization causing the DA-MP to continuously restart.
19113942	3	DSR 6.0	[237276]DPI-specific changes - remove product references; also Diameter Common	Customer Impact: No functional impact.
19114314	3	DSR 6.0	[237558]upgrade - Upgrade Manager form	"Potential Upgrade Event: Large Topology Upgrade

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Bug Number	Severity	Release	Title	Customer Impact Statement
			extra re-load consumes time	ManagerAfter an upgrade command (Prepare/Initiate/Complete) is executed, there is a secondary form which renders, the user navigates back to the Upgrade Form and the filtered Upgrade Form is re-loaded. This re-load may take a significant time in a large topology."
19114394	3	DSR 6.0	[237622]DSR OAM: Referential database integrity must be supported in the DSR OAM	Minimal Customer Impact: Multiple users should not update related managed objects simultaneously.
19115278	3	DSR 6.0	[238303]"CFG-DB Validation Error" alarm text to be more user friendly when deact	Minimal Customer Impact: DSR alarm will not clearly state a recommended resolution. DSR application deactivation is a non-standard procedure, that should be performed by Oracle personnel.
19115574	3	DSR 6.0	[238524]Incorrect measurement value "TmConnEnabled NotAvail" in DSR 60.7.0	"Minimal Customer Impact: Incorrect measurement value On DA-MPs that are in a TSA, but end up not hosting an IPFE connection, incorrect data for the TmConnEnabledNotAvail (Enabled but Unavailable) will be reported. This will affect rolled up numbers for the connection (for example, if viewed at the SO level). This only affects IPFE connections."
19115986	3	DSR 6.0	[238855]DCLv2::Event 22345 (CplChanged) should include all the sources as per Co	Minimal Customer Impact: GUI Error: Missing Sources in Diameter-> Maintenance-> Connection Status. User will see a valid source, but may not see all sources. Diameter->Maintenance->Connection Status will give all current sources of CPL > 0. For Events, the history of the connection will provide valid sources, and if multiple sources exist, then they may appear in older records.

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Bug Number	Severity	Release	Title	Customer Impact Statement
				(Knowing all sources of CPL via events is normally not necessary)
19116714	3	DSR 6.0	[239412]DSR:When adding new servers in Configuration->Servers screen Interfaces	"Minimal Customer Impact: Server Configuration Error: If this issue is encountered user can cancel out of screen and re-enter configuration data."
19116751	3	DSR 6.0	[239443]DSR6.0 SSST[M2D]: Changing HA Role of SS7-MP does not initiate controlle	Minimal Customer Impact: GUI Error: HA SS7-MP will not change HA role On the "Main Menu: Status & Manage -> HA" GUI screen, if you change the HA role of an SS7-MP to OOS, this action will not initiate a graceful shutdown of the mapiwf process. The mapiwf process will remain up and running on the SS7-MP.
19117425	3	DSR 6.0	[239975] [M2D-60.10.0-RMS]: Comm Agent Connection Down on SS7-MPs w/ ACT/STBY DA-	Minimal Customer Impact: Unwanted ComAgent Major Alarms"ComAgent Connection Down" alarms for the standby DA-MP are safe to ignore.
19117552	3	DSR 6.0	[240076][M2D] BIE: Several attributes use values that are not consistent with FD	"Customer Impact: No Functional Impact: GUI confirmation case is incorrectExported data contains capital 'YES/NO' while the FD suggests the values to be in camel case 'Yes/No'."
19117991	3	DSR 6.0	[240409]DSR Upgrade [Prepare] form red Active indication is misleading	"Customer Impact: Potential Upgrade Event: GUI error, Active indication errorWhen performing the upgrade or allowing the upgrade to proceed due to a misleading indication."
19118019	3	DSR 6.0	[240435]DSR5.0 to DSR6.0: Major upgrade takes 40 to 45 mins per server	Customer Impact: Upgrade could require longer maintenance window to complete. Upgrade Time Expectancy: Upgrade from DSR 5.0 to 6.0 will require longer maintenance window to complete. Major upgrade will take 40 to 45 minutes per server.

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Bug Number	Severity	Release	Title	Customer Impact Statement
19119344	3	DSR 6.0	[241556]Add new MP Profile parameters to existing set of MP Profiles	"Customer Impact: No functional impact: The new parameters could make MP profiles easier to chose during DSR application deployment."
19209874	3	DSR 6.0	SNMP Notifications Contain Redundant Text	Minimal Customer Impact: SNMP Notifications Contain Redundant Text Extra "Notify" at end of affected notifications.
19216755	3	DSR 6.0	(CEX Host IP Validation Enabled) checkbox can not be modified after saved	"Minimal Customer Impact: Configuration ErrorUser is not able to modify the ""CEX Host IP Validation Enabled"" checkbox after initial creation of the configuration set. The workaround is to delete the connection configuration set and re-enter it."
19306717	3	DSR 6.0	DSR upgrade: does not handle NO activity change well	"Potential Upgrade Event: Unexpected NOAM role changeUnexpected DSR NOAM role changes during an upgrade can result in misleading upgrade status information.Workaround: Check the release version of the server to tell if the upgrade is finished successfully. At this point, it is suggested that the user force a change-over back to the original NO that was monitoring/administering the upgrade."
19327392	3	DSR 6.0	DM-IWF Alarms / Measurements descriptions needs to be updated as per user doc	"Minimal Customer Impact: GUI ErrorMissing DM-IWF Alarms and Measurement descriptions. For scenarios wherein request and answer messages received from DRL by DM-IWF application whose size are greater than ""DiameterMaxMessageSize"" following alarm wouldn't be displayed on GUI: Alarm Id: 33015 Alarm Name: DM-IWF Diameter message size exceeded maximum supported size Alarm Description: DM-IWF failed to

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Bug Number	Severity	Release	Title	Customer Impact Statement
				forward the Diameter message to SS7-MP because the message size exceeds supported maximum message size. Workaround: This scenario can still be tracked by following measurement: Measurement Id: 15641 Measurement description: Number of diameter messages received from DRL that got rejected because diameter message size exceeded supported maximum. Measurement Group: DM-IWF Exception"
19345468	3	DSR 6.0	AppWorks updateServerAliases script does not work after disaster recovery on NO	"Minimal Customer Impact: Dual NOAM DR fails When recovering a DSR system (disaster recovery) where both the active AND standby NOAMs are dead, the script used to recover the /etc/hosts files fails. The hosts must be entered manually to recover. When recovering a DSR system (disaster recovery) where both the active AND standby NOAMs are dead, the script used to recover the /etc/hosts files fails. The hosts must be entered manually to recover. When recovering a DSR system (disaster recovery) where both the active AND standby NOAMs are dead, the script used to recover the /etc/hosts files fails. The hosts must be entered manually to recover."
19402375	3	DSR 6.0	migration script with IPv6 aborts because of compressed IPv6 IPs in db	"Minimal Customer Impact: Unable to migrate IPv6 MPs User will not be able to do migration from Active/Standby to Active/Active configuration if MPs have IPv6 IP Addresses. Workaround: Before migration Change the format of IPv 6 Addresses in Network table, those should be in expanded form like ""fd0d:deba:d97c:0ee5:0000:0000: 0000:0000""."

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Bug Number	Severity	Release	Title	Customer Impact Statement
19403630	3	DSR 6.0	Error on MainMenu->IPFE-> Configuration-> TargetSets screen	"Minimal Customer Impact: GUI display errorDelete of TargetSets from GUI versus delete via Bulk Import/Export are not working the same. If user has deleted a record from the GUI, a subsequent Bulk Import can't re-insert the same record."
19403712	3	DSR 6.0	Error on MIWF(NO) Diameter Realm screen	"Minimal Customer Impact: GUI display errorMIWF(NO) Diameter Realm: Sorting for same type of fields i.e. Last and third to last column is just opposite from each other."
19403735	3	DSR 6.0	MIWF (NO)Diameter Identity GTA Screen	"Minimal Customer Impact: GUI display errorSorting on the field named ""Authentication Internetworking Needed"" results in the fields being sorted in the following order: No, Yes, Use realm setting."
19403759	3	DSR 6.0	MIWF(NO) GA Range to PC: "Load Sharing" sorting is not working	"Minimal Customer Impact: GUI errorUser will not be able to sort by ""Load Sharing"" in the MIWF(NO)GA Range to PC GUI."
19446813	3	DSR 6.0	IDIH - GLA Metadata - pSBR Response metadata not present on IMSI queries	"Customer Impact: After successful GGR/GGA query for IMSI, there is metadata for the Query Event but not for the Response. However there is minimal impact, because the results of the pSBR query are extracted and formatted into the GLA answer message. Workaround: The workaround is to examine the GLA answer message. It will contain similar information as that produced from the pSBR queries. "
19449633	3	DSR 6.0	Upgrade - Incorrect default (0) for Connection Count in Server Group	"Customer Impact: GUI will show an incorrect value until it is manually updated by user. Workaround: Update the value of the text field via the gui. Use 1 unless another specific connection limit is desired."

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Bug Number	Severity	Release	Title	Customer Impact Statement
19449678	3	DSR 6.0	Comm Agent Alarm 19800 is reported with incorrect PRODUCT: value (AwpSS7)	Customer Impact: This is a presentation issue. The customer will get a wrong product information for comagent alarm 19800.
19467564	3	DSR 6.0	[M2D] Diam-to-MAPInsSubData incorrect trans of Pre-emption AVPs	"Customer Impact: Allocation-Retention-Priority AVP values are opposite of what is expected. In the Allocation-Retention-Priority AVP; If the Pre-emption-Capability AVP is not present, the default value shall be PRE-EMPTION_CAPABILITY_DISABLED (1). If the Pre-emption-Vulnerability AVP is not present, the default value shall be PRE-EMPTION_VULNERABILITY_ENABLED (0). The DSR does a direct copy from the AVP into this field so we get the opposite of what is expected (ie; 1 for disabled, 0 for enabled)"
19508974	3	DSR 6.0	[M2D] SS7-MP memory leak occurs when running overload traffic for several hours	Customer Impact: None. Traffic runs successfully at supported traffic rate.
19509892	3	DSR 6.0	Inetrep abterm on Standby & Spare SBR servers during upgrade with schema change	Customer Impact: No impact to service or data. Event report is filled with 31102 and 31103 in View History during upgrade window.
19531576	3	DSR 6.0	APDE Events file showed a line count, but file did not log any data.	Customer Impact: No functional impact. This is a usability issue. The customer will not be able to see the events as the report file is empty.
19538108	3	DSR 6.0	ComAgentEgressQueue is getting full while executing 100%Fabr-Diwhf Chaining Case.	Customer Impact: Performance of FABR-DIWHF application chained traffic will be impacted. ComAgent Egress task utilization will be high even at relatively low traffic load.
19552987	3	DSR 6.0	DB inconsistency b/w PSBR active server (64	Customer Impact: Potential Upgrade Event: When PDRA

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Bug Number	Severity	Release	Title	Customer Impact Statement
			frags) and standby server (8 frags)	customer upgrades from DSR 5.x/6.x to DSR 7.x, then upgrading a standby and spare "Session Server" Group, will potentially lead to "session data loss".
19570299	3	DSR 6.0	Upgrade GUI form - takes more than a minute to refresh Upgrade State change	Customer Impact: No operational impact. After selecting the "Accept" button on the form, the form re-paints itself after one second, but the Upgrade State is still shown as "Accept or Reject". The Minor alarm then clears withing a few seconds, but the "Upgrade State" indicator takes about a minute to refresh.
19593584	3	DSR 6.0	iDIH 6.0: Incorrect Command code values of messages of Cx interface shown on DSR	"Customer Impact: User will see incorrect command codes values in the GUI pull-down menu. On SOAM GUI Diameter -> Configuration -> Command Codes drop-down is preconfigured with command codes the values as: 283- UAR/UAA 284- SAR/SAA 286- MAR/MAA But Cx interface specifications show command codes as: 300- UAR/UAA 301- SAR/SAA 303- MAR/MAA Workaround: User can add new command code in ""Diameter->Command Codes"" menu on SOAM GUI."
19846895	3	DSR 6.0	PRT filter is not working as expected	Customer Impact: Main Menu: Diameter -> Configuration -> Peer Route Tables filter "OrigHost = " does not work.
19905484	3	DSR 6.0	PDRA Topology Hiding table limit exceeded after upgrade from 5.0.1	"Customer Impact: In DSR 6.0, the capacity of the PDRA Topology Hiding table was lowered to 1000 entries. If over 1000 enteries were provisioned prior to upgrade, upgrade can be successfully completed. "
19911799	3	DSR 6.0	BIE broken after upgrade due to	Minimal Customer Impact: Bulk Import/Export for IPFE cannot

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Bug Number	Severity	Release	Title	Customer Impact Statement
			symbolic link created in backout procedure.	be used until a manual workaround is performed.
20145170	3	DSR 6.0	Section 4.8.2 E4118 admusr can not create change_ilo_admin_passwd file	Customer Impact: None. User can create file as root user during installation.
20145631	3	DSR 6.0	Sample change_ilo_admin_passwd.xml file in ES4118 does not match sample in ISO	Customer Impact: None. User can modify file during installation as needed.
20145717	3	DSR 6.0	Diameter maint screens reports "Sorry, an error occurred" when no DA-MP leader	Customer Impact: Users cannot use the Diameter Maintenance GUI to assess the health of their signaling network. This affects the Diameter Troubleshooting and/Serviceability at SITE level using Diameter Maintenance screens.
20325253	3	DSR 6.0	IPv6 Only DSR: [32308] Server provisioning Network Error after enabling Ping	Customer Impact: No impact to traffic. The ping test doesn't work on the IPv6 link local address.
20478586	3	DSR 6.0	Alarm ID 19901 CFG-DB Validation Error	"Customer Impact: Alarm ID 19901 may be raised for SCTP multi-homed connections. When a connection is configured with both primary and secondary IP addresses, the software will pick one of the two addresses and treat it as the primary IP address for the connection. If the wrong address is picked this error would occur. Workaround: The secondary IP could be removed so the remaining IP address (correct IP) is used."
20906170	3	DSR 6.0	User can not cancel/resume a paused SG upgrade task with global prov disabled	Customer Impact: User will need to enable global provisioning for cancel/resume functionality to be available.
21223544	3	DSR 6.0	DRA rejecting to convert SAI message due to missing requesting PLMN-ID parameter	"Customer Impact: SAI message with missing requesting PLMN-ID with fail. Workaround: None"

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Bug Number	Severity	Release	Title	Customer Impact Statement
19119199	3	DSR 7.0	[241432]Peer Route Rule fetchAll is very slow	Customer Impact: The Peer Route Rule and Application Route Rule's fetchAll are very slow. Fetching 250 records can take around 35 seconds. Fetching large sets of Peer Route Rules via SOAP is causing the requests to time out.
19120515	3	DSR 7.0	[242439]IPFE: Two errors displayed for 'Peer Node Distribution Threshold' missin	"Customer Impact: With no entry for 'Peer Node Distribution Threshold' parameter in the IPFE -> Configuration ->Target Sets, two errors are displayed. Error 001 and Error 19510.Workaround: None required. This is a cosmetic issue where 2 errors show up where 1 would have sufficed."
19589251	3	DSR 7.0	TVOE Upgrade to the same release causes Upgrade failure	"Customer Impact: There will be a failed upgrade alarm indicating that an upgrade was attempted but not completed (since no upgrade actually occurred). It will identify that the user incorrectly attempted to upgrade to the same release.Workaround: There is no impact to system other than the upgrade alarm. Perform steps to clear the alarm then perform the correct upgrade."
19638376	3	DSR 7.0	SBR servers taking more than 1 sec to switchover, too slow	Minimal Customer Impact: The slow switchovers happen when the servers are completely idle. In the case of completely idle servers not handling traffic, there is no service impact.
19773691	3	DSR 7.0	[comcol] False alarm generated stating time is 1,278,385,514 seconds behind	Customer Impact: Alarm was generated after rebooting all SBR servers. The alarm automatically clears in 5 minutes and has no impact to replication functions.
19881753	3	DSR 7.0	Measurement 10175 not being pegged as required	Customer Impact: 10175 is only pegged when the peer sends a CEA with a failure result code.

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Bug Number	Severity	Release	Title	Customer Impact Statement
19903633	3	DSR 7.0	dsr process not exiting cleanly when under load	"Customer Impact: No impact to normal DSR operation. This was encountered during reboot of a TVOE host with DAMP guests. Dsr process will not gracefully shutdown when traffic is running. Workaround: Disable connections before reboot. "
20078150	3	DSR 7.0	[Upg 7.0] Certain Upgrade/Backouts unable to finish within 4hr maint window	Customer Impact: Customer may require extended and/or multiple maintenance windows to schedule upgrade activities.
20198495	3	DSR 7.0	[STP7.0] IPFE Conn starving Fixed Conn due to (upgrade related) MP outage	"Customer Impact: If IPFE initiators and responders are co-located and many peer nodes are attempting to establish connections while DA-MPs are reloading resources can get allocated in an unbalanced way that keeps some initiator connections from establishing. Workaround: Restart some of the IPFE responder connections. This will free resources for initiators to establish, and the responders will get moved to a DA-MP with capacity."
20237972	3	DSR 7.0	[STP7.0] Hardware Config Error: 32 CPU(s) on the system, found "31" instead	"Customer impact: No impact other than a syscheck alarm. Workaround: Value can be changed as required for expected number of CPUs to clear the alarm."
20326797	3	DSR 7.0	NetConfig DSR_RMS_Productization XML files need update to match TR007187	Customer Impact: Potential installation issue. During installation additional steps are required for Rack Mount Servers(RMS), Topology 1 or 2 with more than 3 RMS.
20345594	3	DSR 7.0	Create Network Entry Allows Duplicates	"Customer Impact: Minimal impact. The duplicate network can be removed. Workaround: The duplicate network can be removed if it is accidentally added. "

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Bug Number	Severity	Release	Title	Customer Impact Statement
20410923	3	DSR 7.0	Binding SBRs running out of memory while filling up SBR binding/session DB	"Customer Impact: No operational impact when running within supported maximum bindings/sessions. Warning alarms will be present on GUI. If supported bindings/sessions are exceeded SBR process may fail. Workaround : Monitor alarms and stop traffic before SBR runs out of memory."
20440552	3	DSR 7.0	LRGSYS: Backup Failure Alarm 10020 seen on MPs	"Customer Impact: This can result in a stuck 'backup failed' alarm on some MPs. This issue has not been observed in the field. It has only been created in lab situations. Workaround: The alarm can be manually cleared."
20463284	3	DSR 7.0	[STP7.0] Syscheck::cpu: FAILURE:: 32 CPU(s) NumOriginalCpus file empty	"Customer impact: No impact other than a syscheck alarm. Workaround: Value can be changed as required for expected number of CPUs to clear the alarm."
20493825	3	DSR 7.0	Peer Node identification updates to Connection [Insert] screen	Customer Impact: EIR traffic cannot be processed.
20495654	3	DSR 7.0	[LRGSYS] certain screens in Large Topology DSR take long time to display	"Customer Impact: Screen rendering is delayed on very large topologies. "
20509743	3	DSR 7.0	[LRGSYS] certain TAB'ed screens in Large Topology take long time to display	"Customer Impact: Screen rendering is delayed on very large topologies. "
20524839	3	DSR 7.0	[SystemTest7.0] TH Description incorrect for S9 PCRF and S9 Af/pCSCF	"Minimal Customer Impact: GUI errorThe range is not correctly defined in the description of 2 fields in the Topology Hiding Configuration Set screens. Workaround: No workaround required. GUI will prevent out of range values from being entered."

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Bug Number	Severity	Release	Title	Customer Impact Statement
20670614	3	DSR 7.0	Fresh Install - Feature activation, feature not always visible in LHM sites 2/3	Customer Impact: No impact to customer. Workaround has been documented in the installation guide.
20696324	3	DSR 7.0	[STP7.0] GLA not activated on DRNOs	"Customer Impact: GLA feature configuration can not be done on the DR NOAM if the primary DSR NOAMs become unavailable. Workaround: GLA can be activated on the DR NOAMs procedurally by running the feature activation script on the DR NOAM servers."
20696866	3	DSR 7.0	Duplicate Parent Topic links in Online Help	Customer Impact: No functional impact.
20697000	3	DSR 7.0	Incorrect Navigation being displayed	Customer Impact: No functional impact.
20787403	3	DSR 7.0	Corrupt Resource Domain names in PCA tables RdName2ComAgentResId and PsbrSubRes	"Customer Impact: No impact to signaling. This DSR 7.0 only issue must be cleared prior to attempting DSR 7.0 to DSR 7.1 upgrade. Workaround: DSR upgrade document was updated to ensure the tables are in sync(no corruption) before upgrade starts."
20800434	3	DSR 7.0	Clarify New 'Test Transfer' Button on Administration-Remote Servers-Data Export	"Customer Impact: No functional impact. The documentation needs to be updated to state the functionality provided by test transfer button."
20805853	3	DSR 7.0	Update Help Text on Remote Servers-Data Export-Keys Report Page	No Operational Impact: Instructions are correct. This addresses grammatical and formatting issues.
21130374	3	DSR 7.0	APDE Keyexchange From NOAM Exchanges Keys From NOAM and SOAM	"Customer Impact: Both NOAM and SOAM keys are exchanged with the Remote Server when using the ""SSH Key Exchange"" button. Note this does not break any functionality. The only issue here is that the SOAM keys are also exchanged which may not be desired. Workaround: There

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				are two possible workarounds;1) Keys can be manually exchanged between NOAM and Remote Server. 2) Remove the key from the authorized_keys file on the Remote Server for the SOAM after the keys has been exchanged using the ""SSH Key Exchange"" button."
21299124	3	DSR 7.0	ETG: Minor DB validation Alarm when Rate Limiting is not configured	"Customer Impact: If user performs ETG configuration when Rate Limiting is Disabled (not selected) then a Minor DataBase validation Alarm will be observed on all the MPs. Workaround: Workaround to is available to clear Alarm. Contact My Oracle Support (MOS) for assistance if needed. "
21378512	3	DSR 7.0	IOT Sh FABR failure	"Customer Impact: Customer must configure Primary routing entity as IMSI to decode IMSI address from SIP URI (without '+', example: ""sip:123456789012345@msmnc123.mcc4563gppnetwork.org") FABR will not be able to decode IMSI from SIP URI (without '+', example : ""sip:123456789012345@ims.mnc123.mcc456.3gppnetwork.org") if primary routing entity configured as ""MSISDN"" and second routing entity as ""IMSI"". Workaround: Configure Primary routing entity as IMSI to decode IMSI address from SIP URI (without '+', example: ""sip:123456789012345@ims.mnc123.mcc456.3gppnetwork.org"")."
21459134	3	DSR 7.0	verifyBackout script returns with error	"Customer Impact: After user performs backout to DSR 7.0, verifyBackout script will not work. Workaround: User can check the upgrade.log file to see if there are any ""ERROR"" tags logged."

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Bug Number	Severity	Release	Title	Customer Impact Statement
21493739	3	DSR 7.0	NOVIP GUI displayed the standby NO after 6.0 to 7.0 Upgrade	"Customer Impact: GUI issue, no impact to traffic. User will not be able to do provisioning as the GUI VIP will be pointing to the Standby server. Workaround is available. Contact My Oracle Support (MOS) for assistance if needed."
20325253	3	DSR 7.1	IPv6 Only DSR: [32308] Server provisioning Network Error after enabling Ping	"Customer Impact: No impact to traffic. The ping test doesn't work on the IPv6 link local address."
20447504	3	DSR 7.1	Column resizing not working on some screens	Minimal Operational Impact: Cannot resize columns for several menu items using Internet Explorer 9 . Issue not encountered using IE8 and IE10.
20513017	3	DSR 7.1	[IPv6] DSR ComAgent Remote Server Insert Fails First Time on Browser	"Customer Impact: GUI issue. This issue occurs on the first insert attempt after opening a new browser, or on the first attempt of a given day. The insert does not apply. Workaround: User must try again. All subsequent attempts will work successfully for the remainder of the day."
20631628	3	DSR 7.1	SBRDBMO: Getting unexpected "Mrg and Repl" warning when # of SGs in RD modified.	"Customer Impact: None. A warning box pops up on the GUI that points out that an unexpected communication issue exists. The user should make sure they understand the issue before proceeding. The user can choose whether to Cancel or Continue the operation."
20694289	3	DSR 7.1	DSR GUI: Screen shifts when clicking on buttons in IE	Minimal Operational Impact: For several menu items, when using Internet Explorer 9, the screen will intermittently shift when you attempt to click the Ok/Edit/Cancel buttons.
20704269	3	DSR 7.1	DTLS Issue (openssl-1.0.1e-dtls-ecc) with openssl-1.0.1e-30 version (TPD-7.0.1)	No impact to DSR 7.1 due to affected patch being excluded.

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Bug Number	Severity	Release	Title	Customer Impact Statement
20745780	3	DSR 7.1	Potential (PDRA) configuration change problems in an upgrade window in DSR 5.1+	"Customer Impact: Potential upgrade / GUI issue. For the below parameters that are GUI configurable, during an upgrade window (OAM has been upgraded, but not all MPs have been upgraded) if these values are modified on the GUI, the new value will not be replicated down to MPs that are still running the old release (due to upgrade barrier). Affected GUI screens and parameters: ***NOAM Main Menu: Policy and Charging -> Configuration -> General Options (All fields) Network-Wide Options (All allowed fields) Online Charging DRA -> OCS Session State -> [Edit] ("OCS Session State Enabled" field) Online Charging DRA -> Realms (All configurable fields) Online Charging DRA -> Network-Wide Options (All fields) Alarm Settings (All configurable entries) Congestion Options (All configurable entries on this screen)***SOAM Main Menu: Policy and Charging -> Configuration -> Policy DRA -> PCRFs (All fields) Policy DRA -> Binding Key Priority Policy DRA -> PCRF Pool To PRT Mapping Policy DRA -> Site Options (Topology Hiding Virtual Name)"
20757520	3	DSR 7.1	[DSR IPv6]: No support for IPv6 deletion or IPv6 to IPv4 failover	"Customer Impact: As of DSR 7.1, IPv6 to IPv4 automatic fail over is not supported. Example: The system may not automatically fail over (recovery seamlessly) if disruption of the IPv6 network is encountered. As for IPv6 deletion, this process is now supported, and is covered in the IPv6 migration guide (E57517-01) "

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Bug Number	Severity	Release	Title	Customer Impact Statement
20778632	3	DSR 7.1	[7.1]ESBC:Group administration Edit function of Network-Options screen broken	"Minimal Customer Impact: If user makes changed on ""Main Menu: Administration -> Access Control -> Groups [Edit]"" Pressing ""Ok"" may not record changes. Workaround: Press ""Apply"", then ""Ok"". "
20884601	3	DSR 7.1	PDRA APN ajax call timeout of 20 seconds is small for 32 site network	"Customer Impact: GUI options that require that every SO be queried could timeout for customers with a large number of sites. The two affected GUI screens are;Main Menu: Policy and Charging -> Configuration -> Access Point Names [Insert] or [Edit]Main Menu: Policy and Charging -> Configuration -> Policy DRA -> PCRF Sub-Pool Selection Rules [Insert] or [Edit]"
21032458	3	DSR 7.1	Multiple issues with Viewing Rules for Application Route Table screen.	Customer Impact: Extend the time to search for a specific entry when vendor-id and GxPrime is NO. The use of sorting may help.
21034506	3	DSR 7.1	Customer Doc update for measurement GxpBindingSuccess - see bug 21034429	Customer Impact: Online help does needs to be updated. PCA measurement GxpBindingSuccess was made more generic to cover both the Gx-prime and Rx interfaces.
21075547	3	DSR 7.1	[AW] Server and Server Group names not compatible with FQDN format	"Customer Impact: The impact is limited to those apps (i.e. DSR Dashboard) that take Server or Server Group names and use them as an FQDN. An example is DSR Dashboard. In certain instances, it will attempt to use the SOAM server group name to create an FQDN to attempt to log into the SOAM VIP. This will fail to resolve if the server group name happens to utilize underscores.Workaround: Configure Server and Server Group names that are compatible with FQDN format."
21186803	3	DSR 7.1	[7.1ESBC]Error box is not highlighted if same	Customer Impact: User will not receive error indication if same

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Bug Number	Severity	Release	Title	Customer Impact Statement
			error generated twice in a row	error condition is triggered without refreshing GUI.
21273728	3	DSR 7.1	DRNO login takes a long time when former primary NO is unavailable	"Customer Impact: GUI issue. This issue only occurs only in a disaster recovery scenario, when the primary NOAM site has failed and is not reachable on the network. In this scenario the login does work, the issue is that it is very slow. Work Around: Wait for the login attempt to complete."
21313048	3	DSR 7.1	DB backup returns erroneous info message	No Functional Impact: User will receive messages for both Provisioning and Configuration backups completing when there should only be one for Configuration.
21314249	3	DSR 7.1	Some Transaction Config Set rules not displayed as expected	"Customer Impact: The user may not be able to see all Transaction Configuration rules in a set until user figures out to use the arrow key. Workaround: When the user wants to navigate through each of the Transaction Configuration rules it can be done by clicking on a rule to highlight it and then using the keyboard arrow keys."
21317395	3	DSR 7.1	Sorting is not working properly on some of the fields of Routing Option Sets..	"Customer Impact: Extends the time to find a specific entry in the list. Workaround: If needed use filtering to narrow the list of Routing Option Set entries "
21345547	3	DSR 7.1	[SSST 7.1 Issue 4] Dly in bringing conns in service during bulk enable operation	Customer Impact: User could experience slow performance when enabling multiple connections at the same time. (During testing ~20 connections per second was observed)
21349196	3	DSR 7.1	[CETG] Cannot add 128th peer/connection to ETG	"Customer Impact: User will not be able to add the 128th peer/connection to an ETG via the GUI. If 128 entries are present an entry can be deleted via the GUI to make room for 128th. The 128th entry can be

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Bug Number	Severity	Release	Title	Customer Impact Statement
				added using bulk import/export. Workaround: On the GUI, delete one of the peers or connections prior to adding the 128th entry in the ETG. If required, a 128th entry can be added using bulk import/export."
21353768	3	DSR 7.1	[SSST 7.1 Issue 6] Abterm in DiameterStack::shutdownPlugIn() during DC reboot	No Operational Impact: The MP is going down and an abterm was generated during shutdown.
21385635	3	DSR 7.1	7.1 SysTest: During DR procedure, disk shortage alarms are present on SOs	"Customer Impact: Disk Alarms 32312 and 31121 will be present on the GUI for the /var/TKLC/rundb partition on SOAM server. Workaround is available. Contact My Oracle Support (MOS) for assistance if needed."
21395043	3	DSR 7.1	Measurement 14075 TxAnswerTimeoutMp is in the wrong measurement group	"No Functional Impact - There is a minor mismatch between code and documentation in regard to the measurement name. - Documentation specifies ""TxAnswerTimeoutMp"" - Code specifies ""TxAnswerTimeoutAllMp"" "
21424088	3	DSR 7.1	[DSR 7.1 ST] Diameter - Maintenance - DA-MPs GUI needs updating for IPFE I+R	No Functional Impact: The issue is with GUI data presentation when IPFE Initiator and Responder connections are present.
21452436	3	DSR 7.1	[7.1SysTest] Traffic loss when recovering a site from outage	"Customer Impact: Potential traffic impact; if preferred spare has taken the active role due to active/standby being down, if and active/standby servers becomes available the preferred spare may give up activity before the other server is ready. Workaround: To minimize impact, if possible, before recovering the site that was down, ensure it will not become active by forcing the servers to

DSR Release 7.1 Resolved and Known Bugs

Bug Number	Severity	Release	Title	Customer Impact Statement
				""OOS"" at ""Main Menu > Status & Manage > HA [Edit]"". Then changed the servers to ""Active"" during a maintenance window."
21465801	3	DSR 7.1	EventID 31225 - HA Service Start Failure on DR-NOAMs after fresh install	"Customer Impact: No functional impact. Alarm 31225 will be visible on Active NOAM from Both Active and Standby DRNOAM. If DRNOAM is not present alarm will not occur. Workaround: Workarounds are documented in the Installation and Disaster Recovery Guides."
21473561	3	DSR 7.1	PCRF Migration Status Verification tool does not have option to remove records	Customer Impact: If PCRF Pooling Migration fails to complete due to some "straggler" records, customer will need to contact Oracle to help identify and remove the non-migrated records.
21479472	3	DSR 7.1	[7.1SysTest] MD-IWF does not activate on DRNOs	"Customer Impact: MAP-Diameter IWF menu item will not be available on the Disaster Recovery NOAM. Workaround: The feature activation script can be executed on the Disaster Recovery NOAM."
21488643	3	DSR 7.1	Getting numerous call failures when force completing a session resizing	"Customer Impact: Potential traffic impact when selecting ""Force Complete"" for a Migration Plan.*** PDRA Impact: When Force Completing a Binding Resizing plan, for Gx and Gxx traffic, CCR-I messages can be lost from the time that the Force Complete button is hit until the time that the operational status of the resizing plan changes to Migration Plan Completed. If there are no network issues, meaning all DA-MP and SBR servers are communicating properly with the OAM, then this time period should be a couple of seconds."

DSR Release 7.1 Resolved and Known Bugs

Bug Number	Severity	Release	Title	Customer Impact Statement
				<p>But if there are communication problems, then this time period can last for up to 20 seconds. ***</p> <p>OCDRA Impact: When Force Completing a Session Reconfiguration plan (either Resizing or Migration), if Session State is configured to be on, messages can be lost from the time that the Force Complete button is hit until the time that the operational status of the reconfiguration plan changes to Migration Plan Completed. If there are no network issues, meaning all DA-MP and SBR servers are communicating properly with the OAM, then this time period should be a couple of seconds. But if there are communication problems, then this time period can last for up to 20 seconds. *** Note that when Force Completing a reconfiguration plan, there is expected to be traffic loss for records associated with the *initial* Database or Resource Domain (since the point of Force Complete is that you are abandoning the initial DB/RD). But the traffic loss described above is unexpected since it is for records associated with the *target* DB/RD. Work Around: Ways to eliminate / minimize the traffic loss: - avoid the use of Force Complete. Allow the migration to complete ""naturally"". If you need to speed up the completion of a resizing / migration plan, you can use the Accelerate option. If you wait for the acceleration to complete, then a Force Complete is not needed. If a Force Complete is needed, then...- perform the Force Complete during a maintenance window (low-traffic period) - verify that</p>

DSR Release 7.1 Resolved and Known Bugs

Bug Number	Severity	Release	Title	Customer Impact Statement
				there are no network issues when performing the Force Complete (all DA-MP and SBR servers are communicating with the OAM). "
21493343	3	DSR 7.1	Local Initiate Port Values Not Shown After 6.0 to 7.1 Upgrade	"Customer Impact: Potential upgrade workaround. If any DSR initiator connections are configured with a local initiate port values, user will need to disable and re-enable connections after the upgrade is complete to re-establish connections. Workaround: To establish the connection on the Local Initiate Port, Disable and then Enable the connection."
21493608	3	DSR 7.1	Problem specifying OCS Realm or Node for SS=Specific Message for adjacent node	"Customer Impact: Traffic will fail using session state on OCS node. Work Around: Have the OCS node or OCS realm be located in the DSR as the CTF node. Or change the session state to ""All message""."
21509820	3	DSR 7.1	SSST: Exception Measurement SbrRemoveSessDbErr pegged during sunny day call flow	Customer Impact: No impact to traffic. Exception Measurement SbrRemoveSessDbErr can (depending on the call mix) be pegged while running a sunny day call flow. In this case it is misleading to peg an error measurement when in fact the signaling behavior is working correctly. The impact is that the error pegs are misleading.
21511818	3	DSR 7.1	Dashboard Help pages give error when click on Help	Customer Impact: When user selects context sensitive help on the Dashboard screen on both the NO and SO (Main Menu: Diameter Common -> Dashboard) the link is not working properly. When you click on "Help" in the upper right corner of the screen, the resulting page has 2 panes. The pane on the right displays an error message. But the pane on the left

DSR Release 7.1 Resolved and Known Bugs

Bug Number	Severity	Release	Title	Customer Impact Statement
				correctly shows the table of contents. The Dashboard help page can be successfully accessed by navigating through the table of contents.
21531146	3	DSR 7.1	During session migration, SbrOcSessionNotFound measurement unexpectedly pegged	Customer Impact: No impact to traffic. Exception Measurement SbrOcSessionNotFound are pegged on SBRs even though everything is working correctly. The impact is that the error pegs are misleading.
21539715	3	DSR 7.1	SBRDBRM: Resizing can get stuck with 0 of 0 records remaining	"Customer Impact: User must ""Force Complete"" the resizing plan to get out of this state. The issue has been seen in two scenarios; (1) recovering from a complete power outage; (2) all SBRs are rebooted at the same time. Workaround: User can ""Force Complete"" the resizing plan to get out of this stuck state."
21540306	3	DSR 7.1	SSST: Exception Measurements SbrXxxAuditDbErr pegged on Binding SBRs	Customer Impact: No impact to traffic. Exception Measurement SbrXxxAuditDbErr are intermittently pegged on Binding SBRs even though all traffic runs successfully. The impact is that the error pegs are misleading.
21554520	3	DSR 7.1	PCA SSST: Stuck SysMetricThreshold Alarms after SBR switchover	"Customer Impact: Customer could intermittently experience stuck alarms after an SBR failover. Alarms are stuck until manual intervention is applied to clear them. Workaround is available. Contact My Oracle Support (MOS) for assistance if needed."
21608339	3	DSR 7.1	[7.1SysTest] DWR/DPR message ignored if length is incorrect	Customer Impact: None. Messages with a bad length (i.e. not a multiple of 4) will be discarded at the point of entry into the DSR instead of being possibly parsed.

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Bug Number	Severity	Release	Title	Customer Impact Statement
21609739	3	DSR 7.1	[IPv6][inetmerge] Retry DNS lookups for failing previously connected links	Customer Impact: Backout of IPV6 dual stack migration is not supported in DSR/SDS Release 7.1.0.
21620807	3	DSR 7.1	Unknown instance name in event report for backup instance	"Customer Impact: No operational impact. The ""instance"" name should be the server name, but the server can still be identified by looking at the event."
21627900	3	DSR 7.1	Cross-DSR timing measurements incorrect	"Customer Impact: Customer will not be able to use DSR measurements to determine average or peak cross-DSR latency for Answer or Requests. Workaround: Customer would have to use an external tool to look at cross-DSR latency. "
21629948	3	DSR 7.1	SSST: Status & Manage > Processes screen does not show psbr process status	"Customer Impact: User cannot view the 'psbr' process on the following GUI screen: Main Menu: Status & Manage -> Processes. This screen provides information on start time, status, # starts, CPU utilization, and memory usage."
21630058	3	DSR 7.1	SSST: ComAgent KPI "User Data Ingress Message Rate" shows bundled rates	Customer Impact: On the ComAgent KPI screen (Main Menu: Status & Manage > KPIs, ComAgent tab) the KPI description is incorrect / misleading in the sense that it does not account for ComAgent bundling. The KPI description says that this is the rate at which ComAgent delivers messages to the application queue. But this is true only if no bundling is occurring. If bundling (2 application messages bundled into a single ComAgent message) is occurring on some messages, then the number of messages delivered to the application is really up to twice the number that the KPI shows.

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Bug Number	Severity	Release	Title	Customer Impact Statement
21646076	3	DSR 7.1	ComAgent connection stuck in "Forming" state after server reboot.	Customer Impact: After a reboot ComAgent connection may not re-established. Subsequent reboot may be required.
21661360	3	DSR 7.1	Act/Stby psbr process restart truncates PDRA4.1 tables; causes bulk audit	"Customer Impact: Potential delay in back to back SBR switchover. When restarting the psbr process by selecting the Active or Standby Binding SBR on ""Status & Manage > Server"" page and clicking ""Restart"" an unnecessary bulk audit is triggered. The bulk audit does not cause any functional issues but will prevent a subsequent SBR failover until the bulk audit completes."
21664865	3	DSR 7.1	Problem during PCA function disable while performing resizing or migration	"Customer Impact: If you disable the PCA Function (PDRA and/or OCDRA) while a SBR Reconfiguration Plan (resizing or migration) is running, the plan operational status does not transition to ""Data Migration Completed"" as expected. But there is no functional impact other than the misleading status that is displayed on the GUI screen. The status will be corrected when the PCA Function is re-enabled. Work around: If the PCA Function needs to be disabled, let the Reconfiguration Plan complete before disabling the PCA Function. User can speed up completion with the Accelerate or the Force Complete option."
21666715	3	DSR 7.1	Event 22701 for Answer messages with Missing or Invalid Auth-Application-ID	Customer Impact: No impact to signaling / call processing. PCA will generate Event 22701 but continue processing the message using the Auth-Application-Id from the corresponding Request. The only impact is that an unwanted event 22701 is generated.

DSR Release 7.1 Resolved and Known Bugs

Bug Number	Severity	Release	Title	Customer Impact Statement
21671133	3	DSR 7.1	DSR 7.1 Measurement 10865 is not getting pegged for Binding Capable Sessions	Customer Impact: No impact to traffic. Measurement SbrStaleSessionRemoved is not getting pegged for binding capable sessions.
20904599	3	IDIH 7.1	Protrace Event Diagram shows "ART Not Found" instead of "ART Rule Not Found"	Customer Impact: User will see incorrect information in ProTrace – states Application Route Table instead of Application Route Rule.
21553687	3	IDIH 7.1	IDIH Event Data for DP server shows IPv6 address followed by "(IPv4)"	Customer Impact: User will see confusing information in the FABR metadata in an IPv6 network.
19107028	3	SDS 5.0	[231903]Status & Manage > Database [Compare] has no progress indication	Customer Impact: After initiating a Database "Compare" function, the Customer has no indication that the activity is in progress until it completes.
19109514	3	SDS 5.0	[233804]Repl links down after 2nd DR failover when provisioning occurred on forme	"Customer Impact: No Operational Impact if SDS Disaster Recovery procedures are correctly followed. Workaround: From Status & Manage -> Servers screen, highlight the newly demoted Active DRNO and hit the ""Stop"" button, followed by the ""Start"" button. Note: this workaround has been added in the SDS 5.0 Disaster Recovery Procedure."
19110032	3	SDS 5.0	[234180]Non-service processes not stopped following Pri->DR failover	"Customer Impact: No Operational Impact if SDS Disaster Recovery procedures are correctly followed. Workaround: From Status & Manage -> Servers screen, highlight the newly demoted Active DRNO and hit the ""Stop"" button, followed by the ""Start"" button."
19116013	3	SDS 5.0	[238871]Some SDS NO Measurement Reports taking longer than 30 seconds	No Operational Impact: Some Measurement reports can take between 30 to 40 seconds to be

DSR Release 7.1 Resolved and Known Bugs

Bug Number	Severity	Release	Title	Customer Impact Statement
				displayed in the GUI in large deployments.
19116623	3	SDS 5.0	[239338]Incorrect import alarm when switchover from primary NO to DR NO	No Operational Impact: Erroneous alarms may be cleared manually.
19116626	3	SDS 5.0	[239341]Platform "runat" alarm appears when switchover from primary NO to DR NO	"Customer Impact: Scheduled Import/Export operations may not run after Primary/DR NOAM Failover. Workaround: Import/Export Tasks can be executed manually if needed."
19117992	3	SDS 5.0	[240413]SDS: 'Administration-> Remote-> Servers-> Data Export' Minute Value clears	No Operational Impact: Data Export values may be viewed under the [Main Menu: Status & Manage -> Tasks -> Scheduled Tasks] screen.
20061081	3	SDS 5.0	[SDS] Server Groups: Error when removing Server Groups should be more specific.	No Operational Impact. Error response does not properly indicate that comAgent entries must be removed for associated servers before Server Group can be deleted.
20418367	3	SDS 5.0	lv50fix.pl error at ATT SDS	No Operational Impact: If variant in Logical Volume size causes script to fail "validate", then manual commands may be executed to resize Logical Volumes.
21363250	3	SDS 7.1	Error: "Configuration Backup" on Database screen	Customer Impact: DB backup may fail due to UpdateLog overrun, when import and Provisioning is occurring at a high rate. If DB backup fails an alarm is received. DB backup may be manually retried when Provisioning has decreased.
21591252	3	SDS 7.1	CSRF validation failure on configuration and maintenance screens	Customer Impact: If a CSRF validation failure is received when attempting to an operation thru the GUI (rare occurrence), the user will have to make a 2nd attempt for the same action with same data set to have the update successfully applied.

Chapter 7

Oracle References and Services

Topics:

- *My Oracle Support (MOS).....67*
- *Emergency Response.....67*
- *Customer Training.....68*
- *Locate Product Documentation on the Oracle Technology Network Site.....68*
- *Locate Product Release Software on the Oracle Software Delivery Cloud Site.....69*

My Oracle Support (MOS)

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

Call the CAS 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 MOS, Select **2**

You will be connected to a live agent who can assist you with MOS registration and opening a support ticket.

MOS is available 24 hours a day, 7 days a week, 365 days a year.

Emergency Response

In the event of a critical service situation, emergency response is offered by the Customer Access Support (CAS) main number at 1-800-223-1711 (toll-free in the US), or by calling the Oracle Support hotline for your local country from the list at <http://www.oracle.com/us/support/contact/index.html>. The emergency response provides immediate coverage, automatic escalation, and other features to ensure that the critical situation is resolved as rapidly as possible.

A critical situation is defined as a problem with the installed equipment that severely affects service, traffic, or maintenance capabilities, and requires immediate corrective action. Critical situations affect service and/or system operation resulting in one or several of these situations:

- A total system failure that results in loss of all transaction processing capability
- Significant reduction in system capacity or traffic handling capability
- Loss of the system's ability to perform automatic system reconfiguration
- Inability to restart a processor or the system
- Corruption of system databases that requires service affecting corrective actions
- Loss of access for maintenance or recovery operations
- Loss of the system ability to provide any required critical or major trouble notification

Any other problem severely affecting service, capacity / traffic, billing, and maintenance capabilities may be defined as critical by prior discussion and agreement with Oracle.

Customer Training

Oracle University offers expert training on Oracle Communications solutions for service providers and enterprises. Make sure your staff has the skills to configure, customize, administer, and operate your communications solutions, so that your business can realize all of the benefits that these rich solutions offer. Visit the Oracle University web site to view and register for Oracle Communications training: education.oracle.com/communication. To reach Oracle University:

- In the US, please dial 800-529-0165.
- In Canada, please dial 866-825-9790.
- In Germany, please dial 0180 2000 526 (toll free) or +49 8914301200 (International).
- In Spain, please dial +34 91 6267 792.
- In the United Kingdom, please dial 0845 777 7 711 (toll free) or +44 11 89 726 500 (International).

For the appropriate country or region contact phone number for the rest of the world, please visit Oracle University's web site at <http://www.oracle.com/education/contacts>.

Locate Product Documentation on the Oracle Technology Network Site

Oracle customer documentation is available on the web at the Oracle Technology Network (OTN) site, <http://docs.oracle.com>. You do not have to register to access these documents. Viewing these files requires Adobe Acrobat Reader, which can be downloaded at <http://www.adobe.com>.

1. Access the Oracle Technology Network site at <http://docs.oracle.com>.
2. Click **Industries**.
3. Under the Oracle Communications subheading, click the **Oracle Communications documentation** link.
The Oracle Communications Documentation page appears with Tekelec shown near the top.
4. Click the **Oracle Communications Documentation for Tekelec Products** link.
5. Navigate to your Product and then the Release Number, and click the **View** link (the Download link will retrieve the entire documentation set).
A list of the entire documentation set for the selected product and release appears.
6. To download a file to your location, right-click the **PDF** link, select **Save target as**, and save to a local folder.

Locate Product Release Software on the Oracle Software Delivery Cloud Site

Oracle Communications software is available for electronic download at the Oracle Software Delivery Cloud (OSDC) site, <https://edelivery.oracle.com>. Only authorized customers with a valid password may download software from the site.

1. Log into the Oracle Software Delivery Cloud site at <https://edelivery.oracle.com>.
The **Terms & Restrictions** page appears.
2. Read and accept both the Oracle Trial License Agreement and the Export Restrictions Agreement.
The **Media Pack Search** page appears.
3. Select **Oracle Communications** for Product Pack and **Tekelec** for Platform.
4. Click the **Go** button.
All media packs that meet the search criteria are displayed on the page.
5. Select the media pack for your Product and Release Number and click the **Continue** button.
The **Download** page appears.
6. Provide a valid password in the **Password** field and click the **Go** button.
7. To download a file to your location, click the **Download** button.

Appendix

A

Firmware Components

Topics:

- [Firmware Components.....71](#)

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.

Firmware Components

The Oracle® *Communications HP Solutions Firmware Upgrade Pack Software Centric Release Notes Release 2.2.9* lists the firmware versions approved for this HP Solutions Firmware Upgrade Pack release to assist customers with upgrading their HP hardware. Also, additional instructions and guidance on the firmware upgrades have been provided where possible.

The Release Notes are available on OTN at http://docs.oracle.com/cd/E57832_01/docs.70/E64917.pdf.