

**Oracle® Communications
Diameter Signaling Router**

Alarms and KPIs Reference

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Chapter 1

Introduction

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This section contains an overview of the available information for DSR alarms and events. The contents include sections on the scope and audience of the documentation, as well as how to receive customer support assistance.

Overview

The *DSR Alarms and KPIs* documentation provides information about DSR alarms, events, and KPIs provides corrective maintenance procedures, and other information used in maintaining the system.

- Information relevant to understanding alarms and events that may occur on the application
- Recovery procedures for addressing alarms and events, as necessary
- Procedures for viewing alarms and events, generating alarms reports, and viewing and exporting alarms and event history
- Information relevant to understanding KPIs in the application
- The procedure for viewing KPIs
- Lists of KPIs

Scope and Audience

This manual does not describe how to install or replace software or hardware.

This manual is intended for personnel who must maintain operation of the DSR. The manual provides lists of alarms, events, and KPIs along with preventive and corrective procedures that will aid personnel in maintaining the DSR.

The corrective maintenance procedures are those used in response to a system alarm or output message. These procedures are used to aid in the detection, isolation, and repair of faults.

Manual Organization





Information in this document is organized into the following sections:

- [Introduction](#) contains general information about this document, how to contact [My Oracle Support \(MOS\)](#), and [Locate Product Documentation on the Oracle Help Center Site](#).
- [User Interface Introduction](#) describes the organization and usage of the application user interface. In it you can find information about how the interface options are organized, how to use widgets and buttons, and how filtering and other page display options work.
- [Alarms, Events, and KPIs Overview](#) provides general information about the application's alarms, events, and KPIs.
- [Alarms and Events](#) provides information and recovery procedures for alarms and events, organized first by alarm category, then numerically by the number that appears in the application.
- [Key Performance Indicators \(KPIs\)](#) provides detailed KPI information, organized alphabetically by KPI name.

Documentation Admonishments

Admonishments are icons and text throughout this manual that alert the reader to assure personal safety, to minimize possible service interruptions, and to warn of the potential for equipment damage.

Table 1: Admonishments

Icon	Description
 DANGER	Danger: (This icon and text indicate the possibility of <i>personal injury</i> .)
 WARNING	Warning: (This icon and text indicate the possibility of <i>equipment damage</i> .)
 CAUTION	Caution: (This icon and text indicate the possibility of <i>service interruption</i> .)
 TOPPLE	Topple: (This icon and text indicate the possibility of <i>personal injury and equipment damage</i> .)

Related Publications

For information about additional publications that are related to this document, refer to the *Related Publications Reference* document, which is published as a separate document on the Oracle Help Center site. See [Locate Product Documentation on the Oracle Help Center Site](#) for more information.

Locate Product Documentation on the Oracle Help Center Site

Oracle Communications customer documentation is available on the web at the Oracle Help Center (OHC) 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 Help Center site at <http://docs.oracle.com>.
2. Click **Industries**.

3. Under the Oracle Communications subheading, click the **Oracle Communications documentation** link.
The Communications Documentation page appears. Most products covered by these documentation sets will appear under the headings “Network Session Delivery and Control Infrastructure” or “Platforms.”
4. Click on your Product and then the Release Number.
A list of the entire documentation set for the selected product and release appears.
5. To download a file to your location, right-click the **PDF** link, select **Save target as** (or similar command based on your browser), and save to a local folder.

Customer Training

Oracle University offers training for service providers and enterprises. Visit our web site to view, and register for, Oracle Communications training:

<http://education.oracle.com/communication>

To obtain contact phone numbers for countries or regions, visit the Oracle University Education web site:

www.oracle.com/education/contacts

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.

Chapter 2

User Interface Introduction

Topics:

- [*User Interface Organization.....32*](#)
- [*Missing Main Menu options.....38*](#)
- [*Common Graphical User Interface Widgets.....39*](#)

This section describes the organization and usage of the application's user interface. In it you can find information about how the interface options are organized, how to use widgets and buttons, and how filtering and other page display options work.

User Interface Organization

The user interface is the central point of user interaction within an application. It is a Web-based graphical user interface (GUI) that enables remote user access over the network to an application and its functions.

The core framework presents a common set of Main Menu options that serve various applications. The common Main Menu options are:

- Administration
- Configuration
- Alarm and Events
- Security Log
- Status & Manage
- Measurements
- Help
- Legal Notices
- Logout

Applications, such as DSR, build upon this framework to present features and functions. For example, the DSR Network OAM GUI may present the following Main Menu options in addition to the common options:

- Communication Agent
- Diameter Common
- Diameter
- Policy and Charging
- MAP-Diameter IWF
- SBR
- RADIUS

The DSR System OAM GUI may present even more Main Menu options as listed below. The end result is a flexible menu structure that changes according to the application needs and features activated.

- Transport Manager
- SS7/Sigtran
- RBAR
- FABR
- IPFE
- GLA
- Policy and Charging
- MAP-Diameter IWF
- SBR
- RADIUS
- Mediation

Note that the DSR System OAM Main Menu options differ from the Network OAM options. Some Main Menu options are configurable from the DSR Network OAM server and view-only from the System OAM server. This remains true for other applications.

User Interface Elements

[Table 2: User Interface Elements](#) describes elements of the user interface.

Table 2: User Interface Elements

Element	Location	Function
Identification Banner	Top bar across the web page	Displays the company name, product name and version, and the alarm panel.
Session Banner	Next bar across the top of the web page	<p>The left side of the banner just above the Main Menu provides the following session information:</p> <ul style="list-style-type: none"> • The name of the machine to which the user is connected, and whether the user is connected via the VIP or directly to the machine. • The HA state of the machine to which the user is connected. • The role of the machine to which the user is connected. <p>The right side of the banner:</p> <ul style="list-style-type: none"> • Shows the user name of the currently logged-in user. • Provides a link to log out of the GUI.
Main Menu	Left side of screen, under banners	<p>A tree-structured menu of all operations that can be performed through the user interface. The plus character (+) indicates a menu item contains subfolders.</p> <ul style="list-style-type: none"> • To display submenu items, click the plus character, the folder, or anywhere on the same line. • To select a menu item that does not have submenu items, click on the menu item text or its associated symbol.
Work Area	Right side of panel under status	<p>Consists of three sections: Page Title Area, Page Control Area (optional), and Page Area.</p> <ul style="list-style-type: none"> • Page Title Area: Occupies the top of the work area. It displays the title of the current page being displayed, date and time, and includes a link to context-sensitive help. • Page Control Area: Located below the Page Title Area, this area shows controls for the Page Area (this area is optional). When available as an option, filter controls display in this area. The Page Control Area contains the optional layout element toolbar, which displays different elements depending on which GUI page is selected. For more information, see Optional Layout Element Toolbar. • Page Area: Occupies the bottom of the work area. This area is used for all types of operations. It displays all options, status, data, file, and query screens. Information

Element	Location	Function
		or error messages are displayed in a message box at the top of this section. A horizontal and/or vertical scroll bar is provided when the displayed information exceeds the page area of the screen. When a user first logs in, this area displays the application user interface page. The page displays a user-defined welcome message. To customize the message, see Customizing the Login Message .

Main Menu Options

Table 3: Main Menu Options describes all main menu user interface options.

Note: The menu options can differ according to the permissions assigned to a user's log-in account. For example, the Administration menu options do not appear on the screen of a user who does not have administrative privileges.

Note: Some menu items are configurable only on the Network OAM and view-only on the System OAM; and some menu options are configurable only on the System OAM.

Note: Some features do not appear in the main menu until the features are activated.

Table 3: Main Menu Options

Menu Item	Function
Administration	<p>The Administration menu allows the user to:</p> <ul style="list-style-type: none"> • General Options. Configure options such as password history and expiration, login message, welcome message, and the number of failed login attempts before an account is disabled • Set up and manage user accounts • Configure group permissions • View session information • Manage sign-on certificates • Authorize IP addresses to access the user interface • Configure SFTP user information • View the software versions report • Upgrade management including backup and reporting • Authenticate LDAP servers • Configure SNMP trapping services • Configure an export server • Configure DNS elements
Configuration	<p>On the NOAM, allows the user to configure:</p> <ul style="list-style-type: none"> • Network Elements • Network Devices • Network Routes

Menu Item	Function
	<ul style="list-style-type: none"> • Services • Servers • Server Groups • Resource Domains • Places • Place Associations • Interface and Port DSCP
Alarms and Events	<p>Allows the user to view:</p> <ul style="list-style-type: none"> • Active alarms and events • Alarm and event history • Trap log
Security Log	Allows the user to view, export, and generate reports from security log history.
Status & Manage	Allows the user to monitor the individual and collective status of Network Elements, Servers, HA functions, Databases, KPIs, system Processes, and Tasks. The user can perform actions required for server maintenance, database management, data, and ISO file management.
Measurements	Allows the user to view and export measurement data.
Transport Manager (optional)	On the SOAM, allows the user to configure adjacent nodes, configuration sets, or transports. A maintenance option allows the user to perform enable, disable, and block actions on the transport entries.
Communication Agent (optional)	Allows the user to configure Remote Servers, Connection Groups, and Routed Services. The user can perform actions to enable, disable, and block connections. Also allows the user to monitor the status of Connections, Routed Services, and HA Services.
SS7/Sigtran (optional)	On the SOAM, allows the user to configure various users, groups, remote signaling points, links, and other items associated with SS7/Sigtran; perform maintenance and troubleshooting activities; and provides a command line interface for bulk loading SS7 configuration data.
Diameter Common (optional)	<p>Allows the user to view or configure:</p> <ul style="list-style-type: none"> • Dashboard, configure on the NOAM; view on both OAMs • Network Identifiers on the SOAM - MCC Ranges • Network Identifiers on the NOAM - MCCMNC and MCCMNC Mapping • MPs (on the SOAM) - editable Profile parameters and Profile Assignments <p>The DSR Bulk Import and Export functions are available on both OAMs for the data configured on that OAM.</p>
Diameter (optional)	<p>Allows the user to configure, modify, and monitor Diameter routing:</p> <ul style="list-style-type: none"> • On the NOAMP, Diameter Topology Hiding and Egress Throttle List configuration

Menu Item	Function
	<ul style="list-style-type: none"> On the SOAM, Diameter Configuration, Maintenance, Reports, Troubleshooting with IDIH, AVP Dictionary, and Diameter Mediation configuration
RBAR (Range-Based Address Resolution) (optional)	<p>Allows the user to configure the following Range-Based Address Resolution (RBAR) settings:</p> <ul style="list-style-type: none"> Applications Exceptions Destinations Address Tables Addresses Address Resolutions System Options <p>This is accessible from the SOAM only.</p>
FABR (Full Address Based Resolution) (optional)	<p>Allows the user to configure the following Full Address Based Resolution (FABR) settings:</p> <ul style="list-style-type: none"> Applications Exceptions Default Destinations Address Resolutions System Options <p>This is accessible from the SOAM only.</p>
Policy and Charging (optional)	<p>On the NOAMP, allows the user to perform configuration tasks, edit options, and view elements for:</p> <ul style="list-style-type: none"> General Options Access Point Names Policy DRA <ul style="list-style-type: none"> PCRF Pools PCRF Sub-Pool Selection Rules Network-Wide Options Online Charging DRA <ul style="list-style-type: none"> OCS Session State Realms Network-Wide Options Alarm Settings Congestion Options <p>Additionally on the NOAMP, users are allowed to perform maintenance tasks, edit options, and view elements for:</p> <ul style="list-style-type: none"> Maintenance <ul style="list-style-type: none"> SBR Database Status

Menu Item	Function
	<ul style="list-style-type: none"> • SBR Status • SBR Database Reconfiguration Status • Policy Database Query <p>On the SOAM, allows the user to perform configuration tasks, edit options, and view elements for:</p> <ul style="list-style-type: none"> • General Options • Access Point Names • Policy DRA <ul style="list-style-type: none"> • PCRFs • Binding Key Priority • PCRF Pools • PCRF Pool to PRT Mapping • PCRF Sub-Pool Selection Rules • Policy Clients • Suspect Binding Removal Rules • Site Options • Online Charging DRA <ul style="list-style-type: none"> • OCSs • CTFs • OCS Session State • Realms • Error Codes • Alarm Settings • Congestion Options
Gateway Location Application (optional)	<p>On the SOAM, allows the user to perform configuration tasks, edit options, and view elements for:</p> <ul style="list-style-type: none"> • Exceptions • Options <p>GLA can deploy with Policy DRA (in the same DA-MP or a separate DA-MP).</p>
IPFE (optional)	<p>Allows the user to configure IP Front End (IPFE) options and IP List TSAs. This is accessible from the SOAM server only.</p>
MAP-Diameter Interworking (optional)	<p>On the SOAM, allows the user to perform configuration tasks, edit options, and view elements for the DM-IWF DSR Application:</p> <ul style="list-style-type: none"> • DM-IWF Options • Diameter Exception <p>On the NOAMP, allows the user to perform configuration tasks, edit options, and view elements for the MD-IWF SS7 Application:</p>

Menu Item	Function
	<ul style="list-style-type: none"> • MD-IWF Options • Diameter Realm • Diameter Identity GTA • GTA Range to PC • MAP Exception • CCNDC Mapping
RADIUS (optional)	<p>Allows the user to perform configuration tasks, edit system options, and view elements for:</p> <ul style="list-style-type: none"> • Network Options • Message Authenticator Configuration Sets • Shared Secret Configuration Sets • Ingress Status Server Configuration Sets • Message Conversion Configuration Sets • NAS Node
SBR (optional)	<p>Allows the user to perform configuration tasks, edit system options, and view elements for:</p> <ul style="list-style-type: none"> • SBR Databases • SBR Database Resizing Plans • SBR Data Migration Plans <p>Additionally, on the NOAMP, users are allowed to perform maintenance tasks, edit options, and view elements for:</p> <ul style="list-style-type: none"> • Maintenance <ul style="list-style-type: none"> • SBR Database Status • SBR Status • SBR Database Reconfiguration Status
Help	Launches the Help system for the user interface
Legal Notices	Product Disclaimers and Notices
Logout	Allows the user to log out of the user interface

Missing Main Menu options

Permissions determine which Main Menu options are visible to users. Permissions are defined through the **Group Administration** page. The default group, **admin**, is permitted access to all GUI options and functionality. Additionally, members of the **admin** group set permissions for other users.

Main Menu options vary according to the group permissions assigned to a user's account. Depending on your user permissions, some menu options may be missing from the Main Menu. For example, Administration menu options do not appear on your screen if you do not have administrative

permissions. For more information about user permissions, see *Group Administration* in the OAM section of the online help, or contact your system administrator.

Common Graphical User Interface Widgets

Common controls allow you to easily navigate through the system. The location of the controls remains static for all pages that use the controls. For example, after you become familiar with the location of the display filter, you no longer need to search for the control on subsequent pages because the location is static.

Supported Browsers

This application supports the use of Microsoft® Internet Explorer 8.0, 9.0, or 10.0.

System Login Page

Access to the user interface begins at the System Login page. The System Login page allows users to log in with a username and password and provides the option of changing the password upon login. The System Login page also features a date and time stamp reflecting the time the page was last refreshed. Additionally, a customizable login message appears just below the **Log In** button.

The user interface is accessed via HTTPS, a secure form of the HTTP protocol. When accessing a server for the first time, HTTPS examines a web certificate to verify the identity of the server. The configuration of the user interface uses a self-signed web certificate to verify the identity of the server. When the server is first accessed, the supported browser warns the user that the server is using a self-signed certificate. The browser requests confirmation that the server can be trusted. The user is required to confirm the browser request to gain access.

Customizing the Login Message

Before logging in, the **System Login** page appears. You can create a login message that appears just below the **Log In** button on the **System Login** page.



Oracle System Login

Wed Jul 8 14:20:00 2015 EDT

Log In

Enter your username and password to log in

Username:

Password:

☐ Change password

Welcome to the Oracle System Login.

Unauthorized access is prohibited. This Oracle system requires the use of Microsoft Internet Explorer 8.0, 9.0, or 10.0 with support for JavaScript and cookies.

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Figure 1: Oracle System Login

1. From the **Main Menu**, click **Administration > General Options**.

The **General Options Administration** page appears.

2. Locate **LoginMessage** in the **Variable** column.
3. Enter the login message text in the **Value** column.
4. Click **OK** or **Apply** to submit the information.

A status message appears at the top of the Configuration Administration page to inform you if the operation was successful.

The next time you log in to the user interface, the login message text displays.

Accessing the DSR Graphical User Interface

In DSR, some configuration is done at the NOAM server, while some is done at the SOAM server. Because of this, you need to access the DSR graphical user interface (GUI) from two servers. Certificate Management (Single Sign-On) can be configured to simplify accessing the DSR GUI on the NOAM and the SOAM.

For information on configuring Single Sign-On certificates, see **OAM > Administration > Access Control > Certificate Management** in the DSR online help.

After the certificates have been configured, you can log into the DSR GUI on any NOAM or SOAM, and then access the DSR GUI on other servers (NOAM or other SOAMs) without having to re-enter your login credentials.







1. In the browser URL field, enter the fully qualified hostname of the NOAM server, for example `https://dsr-no.yourcompany.com`.
When using Single Sign-On, you cannot use the IP address of the server.
2. When prompted by the browser, confirm that the server can be trusted.
The System Login page appears.
3. Enter the Username and Password for your account.
The DSR GUI for the NOAM appears.
4. To access the DSR GUI for the SOAM, open another browser window and enter the fully qualified hostname of the SOAM.
The DSR GUI for the SOAM appears






You can toggle between the DSR GUI on the NOAM and the DSR GUI on the SOAM as you perform configuration tasks.

Main Menu Icons

This table describes the icons used in the **Main Menu**.

Table 4: Main Menu Icons

Icon	Name	Description
	Folder	Contains a group of operations. If the folder is expanded by clicking the plus (+) sign, all available operations and sub-folders are displayed. Clicking the minus (-) collapses the folder.
	Config File	Contains operations in an Options page.
	File with Magnifying Glass	Contains operations in a Status View page.
	File	Contains operations in a Data View page.
	Multiple Files	Contains operations in a File View page.
	File with Question Mark	Contains operations in a Query page.

Icon	Name	Description
	User	Contains operations related to users.
	Group	Contains operations related to groups.
	Task	Contains operations related to Tasks
	Help	Launches the Online Help.
	Logout	Logs the user out of the user interface.

Work Area Displays

In the user interface, tables, forms, tabbed pages, and reports are the most common formats.

Note: Screen shots are provided for reference only and may not exactly match a specific application's GUI.

Tables

Paginated tables describe the total number of records being displayed at the beginning and end of the table. They provide optional pagination with **First** | **Prev** | **Next** | **Last** links at both the beginning and end of this table type. Paginated tables also contain action links on the beginning and end of each row. For more information on action links and other page controls, see [Page Controls](#).

Displaying Records 1-1 of 1 | [First](#) | [Prev](#) | [Next](#) | [Last](#)

Action	System ID	IP Address	Permission	Action
Edit Delete	lisa	10.25.62.4	READ_WRITE	Edit Delete

Displaying Records 1-1 of 1 | [First](#) | [Prev](#) | [Next](#) | [Last](#)

Figure 2: Paginated Table

Scrollable tables display all of the records on a single page. The scroll bar, located on the right side of the table, allows you to view all records in the table. Scrollable tables also provide action buttons that operate on selected rows. For more information on buttons and other page controls, see [Page Controls](#).

Sequence #	Alarm ID	Timestamp	Severity	Product	Process	NE	Server	Type	Instance	Alarm Text
3498	31201	2009-Jun-11 18:07:41.214 UTC	MAJOR	MiddleWare	procmgr	OAMPNE	teks8011006	PROC	eclipseHelp	A managed process cannot be started or has unexpectedly terminated
5445	31201	2009-Jun-11 18:07:27.137 UTC	MAJOR	MiddleWare	procmgr	SOAMP	teks8011002	PROC	eclipseHelp	A managed process cannot be started or has unexpectedly terminated
5443	31107	2009-Jun-11 18:07:24.704 UTC	MINOR	MiddleWare	inetmerge	SOAMP	teks8011002	COLL	teks8011004	DB merging from a child Source Node has failed
5444	31107	2009-Jun-11 18:07:24.704 UTC	MINOR	MiddleWare	inetmerge	SOAMP	teks8011002	COLL	teks8011003	DB merging from a child Source Node has failed
5441	31209	2009-Jun-11 18:07:22.640 UTC	MINOR	MiddleWare	re.portmap	SOAMP	teks8011002	SW	teks8011003	Unable to resolve a hostname specified in the NodeInfo table.
										Unable to resolve a hostname specified in the NodeInfo table.

Export

Figure 3: Scrollable Table

Note: Multiple rows can be selected in a scrollable table. Add rows one at a time using CTRL-click. Add a span of rows using SHIFT-click.

Forms

Forms are pages on which data can be entered. Forms are typically used for configuration. Forms contain fields and may also contain a combination of pulldown lists, buttons, and links.

Username: (5-16 characters)

Group: ▼

Time Zone: ▼

Maximum Concurrent Logins: Maximum concurrent logins for a user (0=no limit).
[Default = 1; Range = 0-50]

Session Inactivity Limit: Time (in minutes) after which login sessions expire (0 = never).
[Default = 120; Range = 0-120]

Comment: (max 64 characters)

Temporary Password: (8-16 characters)

Re-type Password: (8-16 characters)

Ok Apply Cancel

Figure 4: Form Page

Tabbed pages

Tabbed pages provide collections of data in selectable tabs. Click on a tab to see the relevant data on that tab. Tabbed pages also group Retrieve, Add, Update, and Delete options on one page. Click on the relevant tab for the task you want to perform and the appropriate fields populate on the page. Retrieve is always the default for tabbed pages.

Entire Network	*	System.CPU_CoreUtilPct_Average	System.CPU_CoreUtilPct_Peak			
NOAMP						
SOAM						
	Timestamp	System CPU UtilPct Average	System CPU UtilPct Peak	System Disk UtilPct Average	System Disk UtilPct Peak	System RAM UtilPct Average
	10/22/2009 19:45	6.764068	44	0.520000	1	7.939407
	10/22/2009 20:00	7.143644	25	0.520000	1	8.523822

Figure 5: Tabbed Pages

Retrieve
Add
Update
Delete

Fields marked with a red asterisk (*) require a value.

Field	Value	Description
Network Entity	<input type="text"/>	* Numeric identifier for the Network Entity 1-15 DIGITS

Retrieve

Figure 6: Tabbed Pages

Reports

Reports provide a formatted display of information. Reports are generated from data tables by clicking **Report**. Reports can be viewed directly on the user interface, or they can be printed. Reports can also be saved to a text file.

```
=====
User Account Usage Report
=====

Report Generated: Fri Jun 19 19:30:55 2009 UTC
From: Unknown Network OAM&P on host teks5001701
Report Version: 1.0
User: guiadmin

-----
Username      Date of Last Login   Days Since Last Login  Account Status
-----
guiadmin      2009-06-19 19:00:17  0                       enabled
-----

End of User Account Usage Report
=====
```

Figure 7: Report Output

Customizing the Splash Page Welcome Message

When you first log in to the user interface, the splash page appears. Located in the center of the main work area is a customizable welcome message. Use this procedure to create a message suitable for your needs.

1. From the **Main Menu**, click **Administration > General Options**.

The **General Options** page appears.

2. Locate **WelcomeMessage** in the **Variable** column.
3. Enter the desired welcome message text in the **Value** column.
4. Click **OK** to save the change or **Cancel** to undo the change and return the field to the previously saved value.

A status message appears at the top of the page to inform you if the operation was successful.

The next time you log in to the user interface, the new welcome message text is displayed.

Column Headers (Sorting)

You can sort a table by a column by clicking the column header. However, sorting is not necessarily available on every column. Sorting does not affect filtering.

When you click the header of a column that the table can be sorted by, an indicator appears in the column header showing the direction of the sort. See [Figure 8: Sorting a Table by Column Header](#). Clicking the column header again reverses the direction of the sort.

Local Node Name ▼	Realm	FQDN	SCTP Listen Port	TCP Listen Port	Connection Configuration Set	CEX Configuration Set	IP Addresses
-------------------	-------	------	------------------	-----------------	------------------------------	-----------------------	--------------

Figure 8: Sorting a Table by Column Header

Page Controls

User interface pages contain controls, such as buttons and links, that perform specified functions. The functions are described by the text of the links and buttons.

Note: Disabled buttons are grayed out. Buttons that are irrelevant to the selection or current system state, or which represent unauthorized actions as defined in **Group Administration**, are disabled. For example, **Delete** is disabled for users without Global Data Delete permission. Buttons are also disabled if, for example, multiple servers are selected for an action that can only be performed on a single server at a time.

[Table 5: Example Action Buttons](#) contains examples of Action buttons.

Table 5: Example Action Buttons

Action Button	Function
Insert	Inserts data into a table.
Edit	Edits data within a table.

Action Button	Function
Delete	Deletes data from table.
Change	Changes the status of a managed object.

Some Action buttons take you to another page.

Submit buttons, described in [Table 6: Submit Buttons](#), are used to submit information to the server. The buttons are located in the page area and accompanied by a table in which you can enter information. The Submit buttons, except for **Cancel**, are disabled until you enter some data or select a value for all mandatory fields.

Table 6: Submit Buttons

Submit Button	Function
OK	Submits the information to the server, and if successful, returns to the View page for that table.
Apply	Submits the information to the server, and if successful, remains on the current page so that you can enter additional data.
Cancel	Returns to the View page for the table without submitting any information to the server.

Clear Field Control

The clear field control allows you to clear the value from a pulldown list. The clear field control is available only on some pulldown fields.

Click the X next to a pulldown list to clear the field.



Figure 9: Clear Field Control X

Optional Layout Element Toolbar

The optional layout element toolbar appears in the Page Control Area of the GUI.

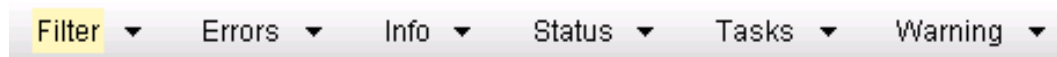


Figure 10: Optional Layout Element Toolbar

The toolbar displays different elements depending on which GUI page is selected. The elements of the toolbar that can appear include:

- Filter – Allows you to filter data in a table.
- Errors – Displays errors associated with the work area.
- Info – Displays information messages associated with the work area.
- Status – Displays short status updates associated with the main work area.

- Warning – Displays warnings associated with the work area.

Notifications

Some messages require immediate attention, such as errors and status items. When new errors occur, the Errors element opens automatically with information about the error. Similarly, when new status items are added, the Status element opens. If you close an automatically opened element, the element stays closed until a new, unacknowledged item is added.

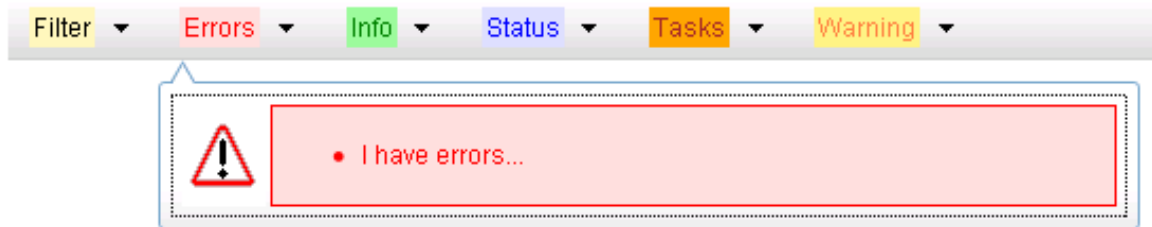


Figure 11: Automatic Error Notification

Note: Viewing and closing an error does not clear the Errors element. If you reopen the Errors element, previously viewed errors are still in the list.

When new messages are added to Warning or Info, the styling of the element changes to indicate new messages are available. The styling of the Task element changes when a task changes state (such as, a task begins or ends).

Opening an Element in the Toolbar

Use this procedure to open an element in the optional layout element toolbar.

1. Click the text of the element or the triangle icon to open an element.
The selected element opens and overlays the work area.
2. Click X to close the element display.

Filters

Filters are part of the optional layout element toolbar and appear throughout the GUI in the Page Control Area. For more information about optional layout element toolbar functionality, see [Optional Layout Element Toolbar](#).

Filters allow you to limit the data presented in a table and can specify multiple filter criteria. By default, table rows appear unfiltered. Three types of filters are supported, however, not all filtering options are available on every page. The types of filters supported include:

- Network Element – When enabled, the Network Element filter limits the data viewed to a single Network Element.

Note: Once enabled, the Network Element filter affect all pages that list or display data relating to the Network Element.

- Collection Interval – When enabled, the collection interval filter limits the data to entries collected in a specified time range.

- **Display Filter** – The display filter limits the data viewed to data matching the specified criteria.

Once a field is selected, it cannot be selected again. All specified criteria must be met in order for a row to be displayed.

The style or format of filters may vary depending on which GUI pages the filters are displayed. Regardless of appearance, filters of the same type function the same.

Figure 12: Examples of Filter Styles

Filter Control Elements

This table describes filter control elements of the user interface.

Table 7: Filter Control Elements

Operator	Description
=	Displays an exact match.
!=	Displays all records that do not match the specified filter parameter value.
>	Displays all records with a parameter value that is greater than the specified value.
>=	Displays all records with a parameter value that is greater than or equal to the specified value.
<	Displays all records with a parameter value that is less than the specified value.
<=	Displays all records with a parameter value that is less than or equal to the specified value.
Like	Enables you to use an asterisk (*) as a wildcard as part of the filter parameter value.
Is Null	Displays all records that have a value of Is Null in the specified field.

Note: Not all filterable fields support all operators. Only the supported operators are available for you to select.

Filtering on the Network Element

The global Network Element filter is a special filter that is enabled on a per-user basis. The global Network Element filter allows a user to limit the data viewed to a single Network Element. Once

enabled, the global Network Element filter affects all sub-screens that display data related to Network Elements. This filtering option may not be available on all pages.

1. Click **Filter** in the optional layout element toolbar.
2. Select a Network Element from the **Network Element** pulldown menu.
3. Click **Go** to filter on the selection, or click **Reset** to clear the selection.

Records are displayed according to the specified criteria.

Filtering on Collection Interval

The Collection Interval filter allows a user to limit the data viewed to a specified time interval. This filtering option may not be available on all pages.

1. Click **Filter** in the optional layout element toolbar.
2. Enter a duration for the **Collection Interval** filter.
The duration must be a numeric value.
3. Select a unit of time from the pulldown menu.
The unit of time can be seconds, minutes, hours, or days.
4. Select **Beginning** or **Ending** from the pulldown menu.
5. Click **Go** to filter on the selection, or click **Reset** to clear the selection.

Records are displayed according to the specified criteria.

Filtering Using the Display Filter

Use this procedure to perform a filtering operation. This procedure assumes you have a data table displayed on your screen. This process is the same for all data tables. However, all filtering operations are not available for all tables.

1. Click **Filter** in the optional layout element toolbar.
2. Select a field name from the **Display Filter** pulldown menu.
This selection specifies the field in the table that you want to filter on. The default is **None**, which indicates that you want all available data displayed.
The selected field name displays in the **Display Filter** field.
3. Select an operator from the operation selector pulldown menu.
4. Enter a value in the value field.
This value specifies the data that you want to filter on. For example, if you specify Filter=Severity with the equals (=) operator and a value of MINOR, the table would show only records where Severity=MINOR.
5. For data tables that support compound filtering, click **Add** to add another filter condition. Then repeat steps 2 through 4.
Multiple filter conditions are joined by an AND operator.
6. Click **Go** to filter on the selection, or click **Reset** to clear the selection.

Records are displayed according to the specified criteria.

Pause Updates

Some pages refresh automatically. Updates to these pages can be paused by selecting the **Pause updates** checkbox. Uncheck the **Pause updates** checkbox to resume automatic updates. The **Pause updates** checkbox is available only on some pages.

Max Records Per Page Controls

Max Records Per Page is used to control the maximum number of records displayed in the page area. If a page uses pagination, the value of Max Records Per Page is used. Use this procedure to change the Max Records Per Page.

1. From the **Main Menu**, click **Administration > General Options**.
2. Change the value of the **MaxRecordsPerPage** variable.

Note: **Maximum Records Per Page** has a range of values from 10 to 100 records. The default value is 20.

3. Click **OK** or **Apply**.

OK saves the change and returns to the previous page.

Apply saves the change and remains on the same page.

The maximum number of records displayed is changed.

Chapter 3

Alarms, Events, and KPIs Overview

Topics:

- [Help Organization.....52](#)
- [Alarms Warning.....52](#)
- [General alarms and events information.....52](#)
- [Displaying the file list.....63](#)
- [Opening a file.....63](#)
- [Data Export.....63](#)
- [Tasks.....66](#)

This section provides general information about the application's alarms, events, and KPIs.

Help Organization

Information in this document is organized into the following sections:

- [Alarms, Events, and KPIs Overview](#) provides general information about the application's alarms, events, and KPIs.
- [Alarms and Events](#) provides information and recovery procedures for alarms and events, organized first by alarm category, then numerically by the number that appears in the application.
- [Key Performance Indicators \(KPIs\)](#) provides detailed KPI information, organized alphabetically by KPI name.

Alarms Warning

Note: For the most up-to-date information, refer to the MIB document posted with each software release on the [Oracle Software Delivery Cloud](#) (OSDC) site.

General alarms and events information

This section provides general information about alarms and events, including an alarms overview, types of alarms/events, and alarms-related procedures.

Alarms and events overview

Alarms provide information pertaining to a system's operational condition that a network manager may need to act upon. An alarm might represent a change in an external condition, for example, a communications link has changed from connected to disconnected state. Alarms can have these severities:

- Critical application error
- Major application error
- Minor application error
- Cleared

An alarm is considered inactive once it has been cleared and cleared alarms are logged on the **Alarms & Events > View History** page of the GUI.

Events note the occurrence of a transient condition. Events have a severity of Info and are logged on the **View History** page.

Note: Some events may be throttled because the frequently generated events can overload the MP or OAM server's system or event history log (e.g., generating an event for every ingress message failure). By specifying a throttle interval (in seconds), the events will appear no more frequently than once during the interval duration period (e.g., if the throttle interval is 5-seconds, the event will be logged no frequently than once every 5-seconds).

Figure 13: Flow of Alarms shows how Alarms and Events are organized in the application.

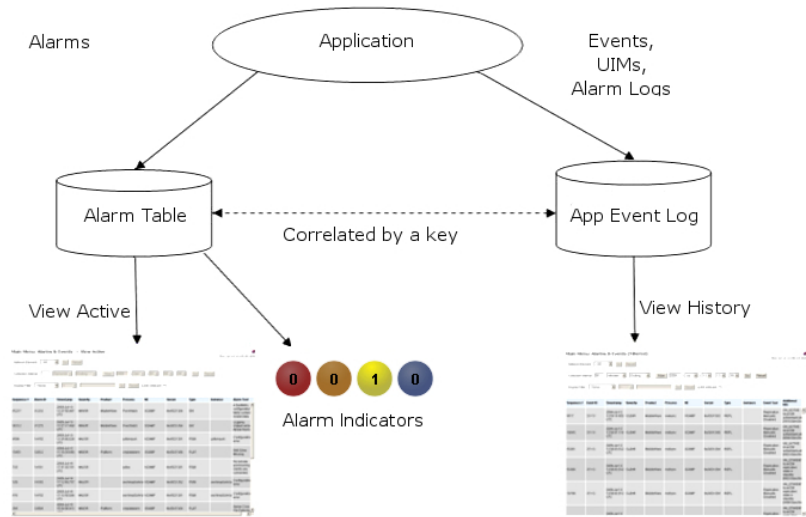


Figure 13: Flow of Alarms

Alarms and events are recorded in a database log table. Application event logging provides an efficient way to record event instance information in a manageable form, and is used to:

- Record events that represent alarmed conditions
- Record events for later browsing
- Implement an event interface for generating SNMP traps

Alarm indicators, located in the User Interface banner, indicate all critical, major, and minor active alarms. A number and an alarm indicator combined represent the number of active alarms at a specific level of severity. For example, if you see the number six in the orange-colored alarm indicator, that means there are six major active alarms.








	Active Critical Alarm (bright red)
	Active Major Alarm (bright orange)
	Active Minor Alarm (bright yellow)
	No active Critical Alarm (pale red)
	No active Major Alarm (pale orange)
	No active Minor Alarm (pale yellow)
	Not Connected (white)

Figure 14: Alarm Indicators Legend



	Trap count > 0 (bright blue)
	Trap count = 0 (pale blue)

Figure 15: Trap Count Indicator Legend

Alarms formatting information

This section of the document provides information to help you understand why an alarm occurred and to provide a recovery procedure to help correct the condition that caused the alarm.

The information provided about each alarm includes:

- Alarm Type: the type of alarm that has occurred. For a list of alarm types, see [Alarm and event types](#).
- Description: describes the reason for the alarm
- Severity: the severity of the alarm
- Instance: the instance of a managed object for which an alarm or event is generated.

Note: The value in the Instance field can vary, depending on the process generating the alarm.

- HA Score: high availability score; determines if switchover is necessary
- Auto Clear Seconds: the number of seconds that have to pass before the alarm will clear itself.

Note: Some alarms and events have an Auto Clear Seconds of 0 (zero), indicating that these alarms and events do not auto-clear

- OID: alarm identifier that appears in SNMP traps
- Recovery: provides any necessary steps for correcting or preventing the alarm

Alarm and event ID ranges

The **AlarmID** listed for each alarm falls into one of the following process classifications:

Table 8: Alarm/Event ID Ranges

Application/Process Name	Alarm ID Range
IPFE	5000-5099
OAM	10000-10999
IDIH	11500-11549
ComAgent	19800-19909
DSR Diagnostics	19910-19999
Diameter	22000-22350, 22900-22999
RBAR	22400-22424
Generic Application	22500-22599

Application/Process Name	Alarm ID Range
FABR	22600-22640
PDRA	22700-22799
TVOE	24400-24499
CAPM	25000-25499
OAM Alarm Management	25500-25899
Platform	31000-32700
DM-IWF	33000-33024
Load Generator	33025-33049
MD-IWF	33050-33099
GLA	33100-33149

Alarm and event types

This table describes the possible alarm/event types that can be displayed.

Note: Not all applications use all of the alarm types listed.

Table 9: Alarm and Event Types

Type Name	Type
APPL	Application
CAF	Communication Agent (ComAgent)
CAPM	Computer-Aided Policy Making (Diameter Mediation)
CFG	Configuration
CHG	Charging
CNG	Congestion Control
COLL	Collection
DAS	Diameter Application Server (Message Copy)
DB	Database
DIAM	Diameter
DISK	Disk
DNS	Domain Name Service
DPS	Data Processor Server
ERA	Event Responder Application
FABR	Full Address Based Resolution

Type Name	Type
HA	High Availability
HTTP	Hypertext Transfer Protocol
IDIH	Integrated DIH
IF	Interface
IP	Internet Protocol
IPFE	IP Front End
LOADGEN	Load Generator
LOG	Logging
MEAS	Measurements
MEM	Memory
NAT	Network Address Translation
NP	Number Portability
OAM	Operations, Administration & Maintenance
PCRF	Policy Charging Rules Function
PDRA	Policy Diameter Routing Agent
PLAT	Platform
PROC	Process
PROV	Provisioning
pSBR	Policy SBR
QP	QBus
RBAR	Range-Based Address Resolution
REPL	Replication
SCTP	Stream Control Transmission Protocol
SDS	Subscriber Database Server
SIGC	Signaling Compression
SIP	Session Initiation Protocol Interface
SL	Selective Logging
SS7	Signaling System 7
SSR	SIP Signaling Router
STK	EXG Stack
SW	Software (generic event type)

Type Name	Type
TCP	Transmission Control Protocol

Viewing active alarms

Active alarms are displayed in a scrollable, optionally filterable table. By default, the active alarms are sorted by time stamp with the most recent alarm at the top.

Use this procedure to view active alarms.

Note: The alarms and events that appear in **View Active** vary depending on whether you are logged in to an NOAM or SOAM. Alarm collection is handled solely by NOAM servers in systems that do not support SOAMs.

1. Select **Alarms & Events > View Active**.

The **View Active** page appears.

2. If necessary, specify filter criteria and click **Go**.

The active alarms are displayed according to the specified criteria.

The active alarms table updates automatically. When new alarms are generated, the table is automatically updated, and the view returns to the top row of the table.

3. To suspend automatic updates, click any row in the table.

The following message appears: (Alarm updates are suspended.)

If a new alarm is generated while automatic updates are suspended, a new message appears: (Alarm updates are suspended. Available updates pending.)

To resume automatic updates, press and hold **Ctrl** as you click to deselect the selected row.

Active alarms data export elements

This table describes the elements on the **View Active > Export** alarms page.

Table 10: Schedule Active Alarm Data Export Elements

Element	Description	Data Input Notes
Task Name	Name of the scheduled task	Format: Textbox Range: Maximum length is 40 characters; alphanumeric (a-z, A-Z, and 0-9) and minus sign (-). Task Name must begin and end with an alphanumeric character.
Description	Description of the scheduled task	Format: Textbox Range: Maximum length is 255 characters; alphanumeric (a-z, A-Z, and 0-9) and minus sign (-). Description must begin with an alphanumeric character.

Element	Description	Data Input Notes
Export Frequency	Frequency at which the export occurs	Format: Radio button Range: Once, Fifteen Minutes, Hourly, Daily, or Weekly Default: Once
Minute	If hourly or fifteen minutes is selected for Upload Frequency, this is the minute of each hour when the data will be written to the export directory.	Format: Scrolling list Range: 0 to 59 Default: 0
Time of Day	Time of day the export occurs	Format: Time textbox Range: 15-minute increments Default: 12:00 AM
Day of Week	Day of week on which the export occurs	Format: Radio button Range: Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, or Saturday Default: Sunday

Exporting active alarms

You can schedule periodic exports of alarm data from the **Alarms and Events View Active** page. Active alarm data can be exported immediately, or you can schedule exports to occur daily or weekly. If filtering has been applied in the **View Active** page, only filtered data is exported.

During data export, the system automatically creates a CSV file of the filtered data. The file will be available in the file management area until you manually delete it, or until the file is transferred to an alternate location using the Export Server feature. For more information about using **Export Server**, see [Data Export](#).

Alarm details can be exported to a file by clicking the **Export** button on the **View Active** page. The system automatically creates and writes the exported active alarm details to a CSV file in the file management area.

If filtering has been applied in the **View Active** page, only filtered, active alarms are exported.

Use this procedure to export active alarms to a file. Use this procedure to schedule a data export task.

1. Select **Alarms & Events > View Active**.
The **View Active** page appears.
2. If necessary, specify filter criteria and click **Go**.
The active alarms are displayed according to the specified criteria.
3. Click **Export**.
The **Schedule Active Alarm Data Export** page appears.
4. Enter the **Task Name**.

For more information about **Task Name**, or any field on this page, see [Active alarms data export elements](#).

5. Select the **Export Frequency**.
6. Select the **Time of Day**.

Note: **Time of Day** is not an option if **Export Frequency** equals **Once**.

7. Select the **Day of Week**.

Note: **Day of Week** is not an option if **Export Frequency** equals **Once**.

8. Click **OK** or **Apply** to initiate the active alarms export task.

From the **Status & Manage > Files** page, you can view a list of files available for download, including the file you exported during this procedure. For more information, see [Displaying the file list](#).

Scheduled tasks can be viewed, edited, and deleted, and reports of scheduled tasks can be generated from **Status & Manage > Tasks**. For more information see:

- [Viewing scheduled tasks](#)
- [Editing a scheduled task](#)
- [Deleting a scheduled task](#)
- [Generating a scheduled task report](#)

9. Click **Export**.

The file is exported.

10. Click the link in the green message box to go directly to the **Status & Manage > Files** page.



• The active alarms are now available in Alarms_20090812_180627.csv.

From the **Status & Manage > Files** page, you can view a list of files available for download, including the active alarms file you exported during this procedure.

Generating a report of active alarms

Use this procedure to generate a report.

1. Select **Alarms & Events > View Active**.

The **View Active** page appears.

2. Specify filter criteria, if necessary, and click **Go**.

The active alarms are displayed according to the specified criteria. Alternately, you can select multiple rows and generate a report using those. To select multiple rows, press and hold **Ctrl** as you click to select specific rows.

3. Click **Report**.

The View Active Report is generated. This report can be printed or saved to a file.

4. Click **Print** to print the report.
5. Click **Save** to save the report to a file.

Viewing alarm and event history

All historical alarms and events are displayed in a scrollable, optionally filterable table. The historical alarms and events are sorted, by default, by time stamp with the most recent one at the top. Use this procedure to view alarm and event history.

Note: The alarms and events that appear in **View History** vary depending on whether you are logged in to an NOAM or SOAM. Alarm collection is handled solely by NOAM servers in systems that do not support SOAMs.

1. Select **Alarms & Events > View History**.

The **View History** page appears.

2. If necessary, specify filter criteria and click **Go**.

Note: Some fields, such as **Additional Info**, truncate data to a limited number of characters. When this happens, a **More** link appears. Click **More** to view a report that displays all relevant data.

Historical alarms and events are displayed according to the specified criteria.

The historical alarms table updates automatically. When new historical data is available, the table is automatically updated, and the view returns to the top row of the table.

3. To suspend automatic updates, click any row in the table.

The following message appears: (Alarm updates are suspended.)

If a new alarm is generated while automatic updates are suspended, a new message appears: (Alarm updates are suspended. Available updates pending.)

To resume automatic updates, press and hold **Ctrl** as you click to deselect the selected row.

Historical events data export elements

This table describes the elements on the **View History > Export** page.

Table 11: Schedule Event Data Export Elements

Element	Description	Data Input Notes
Task Name	Name of the scheduled task	Format: Textbox Range: Maximum length is 40 characters; alphanumeric (a-z, A-Z, and 0-9) and minus sign (-). Task Name must begin and end with an alphanumeric character.
Description	Description of the scheduled task	Format: Textbox Range: Maximum length is 255 characters; alphanumeric (a-z, A-Z, and 0-9) and minus sign (-). Description must begin with an alphanumeric character.
Export Frequency	Frequency at which the export occurs	Format: Radio button

Element	Description	Data Input Notes
		Range: Fifteen Minutes, Hourly, Once, Weekly, or Daily Default: Once
Minute	If hourly or fifteen minutes is selected for Upload Frequency, this is the minute of each hour when the data will be written to the export directory.	Format: Scrolling list Range: 0 to 59 Default: 0
Time of Day	Time of day the export occurs	Format: Time textbox Range: 15-minute increments Default: 12:00 AM
Day of Week	Day of week on which the export occurs	Format: Radio button Range: Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, or Saturday Default: Sunday

Exporting alarm and event history

You can schedule periodic exports of historical data from the **Alarms and Events View History** page. Historical data can be exported immediately, or you can schedule exports to occur daily or weekly. If filtering has been applied in the **View History** page, only filtered data is exported.

During data export, the system automatically creates a CSV file of the filtered data. The file will be available in the file management area until you manually delete it, or until the file is transferred to an alternate location using the Export Server feature. For more information about using **Export Server**, see [Data Export](#).

The details of historical alarms and events can be exported to a file by clicking the **Export** button on the **View History** page. The system automatically creates and writes the exported historical alarm details to a CSV file in the file management area.

If filtering has been applied in the **View History** page, only filtered historical alarms and events are exported. Use this procedure to export alarm and event history to a file. Use this procedure to schedule a data export task.

1. Select **Alarms & Events > View History**.
The **View History** page appears.
2. If necessary, specify filter criteria and click **Go**.
The historical alarms and events are displayed according to the specified criteria.
3. Click **Export**.
The **Schedule Event Data Export** page appears.
4. Enter the **Task Name**.
For more information about **Task Name**, or any field on this page, see [Historical events data export elements](#).

5. Select the **Export Frequency**.
6. If you selected Hourly, specify the Minutes.
7. Select the **Time of Day**.

Note: **Time of Day** is not an option if **Export Frequency** equals **Once**.

8. Select the **Day of Week**.

Note: **Day of Week** is not an option if **Export Frequency** equals **Once**.

9. Click **OK** or **Apply** to initiate the data export task.

The data export task is scheduled. From the **Status & Manage > Files** page, you can view a list of files available for download, including the alarm history file you exported during this procedure. For more information, see [Displaying the file list](#).

Scheduled tasks can be viewed, edited, and deleted, and reports of scheduled tasks can be generated from **Status & Manage > Tasks**. For more information see:

- [Viewing scheduled tasks](#)
- [Editing a scheduled task](#)
- [Deleting a scheduled task](#)
- [Generating a scheduled task report](#)

10. Click **Export**.

The file is exported.

11. Click the link in the green message box to go directly to the **Status & Manage > Files** page.



• The alarm and event history is currently being exported to `Events_20090812_175538.csv`.

From the **Status & Manage > Files** page, you can view a list of files available for download, including the alarm history file you exported during this procedure. For more information, see [Opening a file](#).

Generating a report of historical alarms and events

Use this procedure to generate a report.

1. Select **Alarms & Events > View History**.

The **View History** page appears.

2. Specify filter criteria, if necessary, and click **Go**.

The historical alarms and events are displayed according to the specified criteria.

3. Click **Report**.

The View History Report is generated. This report can be printed or saved to a file.

4. Click **Print** to print the report.

5. Click **Save** to save the report to a file.

Displaying the file list

Use this procedure to view the list of files located in the file management storage area of a server. The amount of storage space currently in use can also be viewed on the Files page.

1. From the Main menu, select **Status & Manage > Files**.
2. Select a server.
All files stored on the selected server are displayed.

Opening a file

Use this procedure to open a file stored in the file management storage area.

1. Select **Status & Manage > Files**.
2. Select an **NE Name**.
3. Click **List Files**.

The **Status & Manage Files** list page for the selected network element displays all files stored in its file management storage area.

4. Click the **Filename** of the file to be opened.
5. Click **Open** to open the file.

Data Export

From the Data Export page you can set an export target to receive exported performance data. Several types of performance data can be filtered and exported using this feature. For more information about how to create data export tasks, see:

- [Exporting active alarms](#)
- [Exporting alarm and event history](#)
- [Exporting KPIs](#)

From the Data Export page you can manage file compression strategy and schedule the frequency with which data files are exported.

Data Export elements

This table describes the elements on the **Administration > Remote Servers > Data Export** page.

Table 12: Data Export Elements

Element	Description	Data Input Notes
Hostname	Name of export server	Must be a valid hostname or a valid IP address.

Element	Description	Data Input Notes
		<p>Range: Maximum length is 255 characters; alphanumeric characters (a-z, A-Z, and 0-9) and minus sign. Hostname must start and end with an alphanumeric.</p> <p>To clear the current export server and remove the file transfer task, specify an empty hostname and username.</p> <p>Default: None</p>
Username	Username used to access the export server	<p>Format: Textbox</p> <p>Range: Maximum length is 32 characters; alphanumeric characters (a-z, A-Z, and 0-9).</p> <p>To clear the current export server and remove the file transfer task, specify an empty hostname and username.</p> <p>Default: None</p>
Directory on Export Server	Directory path on the export server where the exported data files are to be transferred	<p>Format: Textbox</p> <p>Range: Maximum length is 255 characters; valid value is any UNIX string.</p> <p>Default: None</p>
Path to rsync on Export Server	Optional path to the rsync binary on the export server	<p>Format: Textbox</p> <p>Range: Maximum length is 4096 characters; alphanumeric characters (a-z, A-Z, and 0-9), dash, underscore, period, and forward slash.</p> <p>Default: If no path is specified, the username's home directory on the export server is used</p>
Backup File Copy Enabled	Enables or disables the transfer of the backup files	<p>Format: Checkbox</p> <p>Default: Disabled (unchecked)</p>
File Compression	Compression algorithm used when exported data files are initially created on the local host	<p>Format: Radio button</p> <p>Range: gzip, bzip2, or none</p> <p>Default: gzip</p>
Upload Frequency	Frequency at which the export occurs	<p>Format: Radio button</p> <p>Range: fifteen minutes, hourly, daily or weekly</p> <p>Default: weekly</p>
Minute	If The Upload Frequency is Hourly, this is the minute of each hour when the transfer is set to begin	<p>Format: Scrolling list</p> <p>Range: 0 to 59</p> <p>Default: zero</p>

Element	Description	Data Input Notes
Time of Day	If the Upload Frequency is Daily or Weekly, this is the time of day the export occurs	Format: Time textbox Range: HH:MM AM/PM in 15-minute increments Default: 12:00 AM
Day of Week	If Upload Frequency is Weekly, this is the day of the week when exported data files will be transferred to the export server	Format: Radio button Range: Sunday through Saturday Default: Sunday
SSH Key Exchange	This button initiates an SSH key exchange between the OAM server and the data export server currently defined on the page. A password must be entered before the exchange can complete.	Format: Button
Transfer Now	This button initiates an immediate attempt to transfer any data files in the export directory to the export server	Format: Button
Test Transfer	This button initiates an immediate test transfer to the data export server currently defined on the page.	Format: Button
Keys Report	This button generates an SSH Keys Report for all OAM servers.	Format: Button

Configuring data export

The **Data Export** page enables you to configure a server to receive exported performance and configuration data. Use this procedure to configure data export.

1. Select **Administration > Remote Servers > Data Export**.
2. Enter a **Hostname**.
See [Data Export elements](#) for details about the **Hostname** field and other fields that appear on this page.
3. Enter a **Username**.
4. Enter a **Directory Path** on the Export server.
5. Enter the **Path to Rsync** on the Export server.

6. Select whether to enable the transfer of the backup file. To leave the backup disabled, do not check the box.
7. Select the **File Compression** type.
8. Select the **Upload Frequency**.
9. If you selected hourly for the upload frequency, select the **Minute** intervals.
10. If you selected daily or weekly for the upload frequency, select the **Time of Day**.
11. If you selected weekly for the upload frequency, select the **Day of the Week**.
12. Click **Exchange SSH Key** to transfer the SSH keys to the Export server.
13. Enter the password.
The server attempts to exchange keys with the export server currently defined on the page. After the SSH keys are successfully exchanged, continue with the next step.
14. Click **OK** to apply the changes or **Cancel** to discard the changes.
The export server is now configured and available to receive performance and configuration data.
15. You may optionally click **Test Transfer** to confirm the ability to export to the server currently defined on the page.
The user can monitor the progress of the task by selecting the **Tasks** drop down list in the page control area.

Tasks

The **Tasks** pages display the active, long running tasks and scheduled tasks on a selected server. The **Active Tasks** page provides information such as status, start time, progress, and results for long running tasks, while the **Scheduled Tasks** page provides a location to view, edit, and delete tasks that are scheduled to occur.

Active Tasks

The **Active Tasks** page displays the long running tasks on a selected server. The **Active Tasks** page provides information such as status, start time, progress, and results, all of which can be generated into a report. Additionally, you can pause, restart, or delete tasks from this page.

Active Tasks elements

The **Active Tasks** page displays information in a tabular format where each tab represents a unique server. By default, the current server's tab is selected when the page is loaded. This table describes elements on the **Active Tasks** page.

Table 13: Active Tasks Elements

Active Tasks Element	Description
ID	Task ID
Name	Task name

Active Tasks Element	Description
Status	Current status of the task. Status values include: running, paused, completed, exception, and trapped.
Start Time	Time and date when the task was started
Update Time	Time and date the task's status was last updated
Result	Integer return code of the task. Values other than 0 (zero) indicate abnormal termination of the task. Each value has a task-specific meaning.
Result Details	Details about the result of the task
Progress	Current progress of the task

Deleting a task

Use this procedure to delete one or more tasks.

1. Select **Status & Manage > Tasks > Active Tasks**.
2. Select a server.

Note: Hovering the cursor over any tab displays the name of the server.

All active tasks on the selected server are displayed.

3. Select one or more tasks.

Note: To delete a single task or multiple tasks, the status of each task selected must be one of the following: completed, exception, or trapped.

Note: You can select multiple rows to delete at one time. To select multiple rows, press and hold Ctrl as you click to select specific rows.

4. Click **Delete**.
5. Click **OK** to delete the selected task(s).
The selected task(s) are deleted from the table.

Deleting all completed tasks

Use this procedure to delete all completed tasks.

1. Select **Status & Manage > Tasks > Active Tasks**.
2. Select a server.

Note: Hovering the cursor over any tab displays the name of the server.

All active tasks on the selected server are displayed.

3. Click **Delete all Completed**.
4. Click **OK** to delete all completed tasks.
All tasks with the status of completed are deleted.

Canceling a running or paused task

Use this procedure to cancel a task that is running or paused.

1. Select **Status & Manage > Tasks > Active Tasks**.
2. Select a server.

Note: Hovering the cursor over any tab displays the name of the server.

All active tasks on the selected server are displayed.

3. Select a task.
4. Click **Cancel**.
5. Click **OK** to cancel the selected task.
The selected task is canceled.

Pausing a task

Use this procedure to pause a task.

1. Select **Status & Manage > Tasks > Active Tasks**.
2. Select a server.

Note: Hovering the mouse over any tab displays the name of the server.

All active tasks on the selected server are displayed.

3. Select a task.

Note: A task may be paused only if the status of the task is running.

4. Click **Pause**.
A confirmation box appears.
5. Click **OK** to pause the selected task.
The selected task is paused. For information about restarting a paused task, see [Restarting a task](#).

Restarting a task

Use this procedure to restart a task.

1. Select **Status & Manage > Tasks > Active Tasks**.
2. Select a server.

Note: Hovering the mouse over any tab displays the name of the server.

All active tasks on the selected server are displayed.

3. Select a paused task.

Note: A task may be restarted only if the status of the task is paused.

4. Click **Restart**.
A confirmation box appears.
5. Click **OK** to restart the selected task.
The selected task is restarted.

Active Tasks report elements

The **Active Tasks [Report]** page displays report data for selected tasks. This table describes elements on the **Active Tasks [Report]** page.

Table 14: Active Tasks Report Elements

Active Tasks Report Element	Description
Task ID	Task ID
Display Name	Task name
Task State	Current status of the task. Status values include: running, paused, completed, exception, and trapped.
Admin State	Confirms task status
Start Time	Time and date when the task was started
Last Update Time	Time and date the task's status was last updated
Elapsed Time	Time to complete the task
Result	Integer return code of the task. Values other than 0 (zero) indicate abnormal termination of the task. Each value has a task-specific meaning.
Result Details	Details about the result of the task

Generating an active task report

Use this procedure to generate an active task report.

1. Select **Status & Manage > Tasks > Active Tasks**.
2. Select a server.

Note: Hovering the mouse over any tab displays the name of the server.

All active tasks on the selected server are displayed.

3. Select one or more tasks.

Note: If no tasks are selected, all tasks matching the current filter criteria will be included in the report.

4. Click **Report**.
5. Click **Print** to print the report.
6. Click **Save** to save the report.

Scheduled Tasks

The periodic export of certain data can be scheduled through the GUI. The **Scheduled Tasks** page provides you with a location to view, edit, delete and generate reports of these scheduled tasks. For more information about the types of data that can be exported, see:

- [Exporting active alarms](#)
- [Exporting alarm and event history](#)
- [Exporting KPIs](#)

Viewing scheduled tasks

Use this procedure to view the scheduled tasks.

Select **Status & Manage > Tasks > Scheduled Tasks**.

The **Scheduled Tasks** page appears, and all scheduled tasks are displayed.

Scheduled Tasks elements

The **Scheduled Tasks** page displays information in a tabular format where each tab represents a unique server. By default, the current server's tab is selected when the page is loaded. This table describes elements on the **Scheduled Tasks** page.

Table 15: Scheduled Tasks Elements

Scheduled Tasks Element	Description
Task Name	Name given at the time of task creation
Description	Description of the task
Time of Day	The hour and minute the task is scheduled to run
Day-of-Week	Day of the week the task is scheduled to run
Network Elem	The Network Element associated with the task

Editing a scheduled task

Use this procedure to edit a scheduled task.

1. Select **Status & Manage > Tasks > Scheduled Tasks**.
All scheduled tasks are displayed on the **Scheduled Tasks** page.
2. Select a task.
3. Click **Edit**.
The **Data Export** page for the selected task appears.
4. Edit the available fields as necessary.
See [Scheduled Tasks elements](#) for details about the fields that appear on this page.
5. Click **OK** or **Apply** to submit the changes and return to the **Scheduled Tasks** page.

Deleting a scheduled task

Use this procedure to delete one or more scheduled tasks.

1. Select **Status & Manage > Tasks > Scheduled Tasks**.
All scheduled tasks are displayed on the **Scheduled Tasks** page.

2. Select one or more tasks.
3. Click **Delete**.
4. Click **OK** to delete the selected task(s).
The selected task(s) are deleted from the table.

Generating a scheduled task report

Use this procedure to generate a scheduled task report.

1. Select **Status & Manage > Tasks > Scheduled Tasks**.
All scheduled tasks are displayed on the **Scheduled Tasks** page.
2. Select one or more tasks.
Note: If no tasks are selected, all tasks matching the current filter criteria will be included in the report.
3. Click **Report**.
4. Click **Print** to print the report.
5. Click **Save** to save the report.

Chapter 4

Alarms and Events

Topics:

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This section provides general alarm/event information, and lists the types of alarms and events that can occur on the system. Alarms and events are recorded in a database log table. Currently active alarms can be viewed from the **Alarms & Events > View Active** GUI menu option. The alarms and events log can be viewed from the **View History** GUI menu option.

Note: Some of the alarms in this document are shared with other applications and may not appear in this particular product.

IP Front End, IPFE (5000-5999)

This section provides information and recovery procedures for IP Front End (IPFE) alarms, which range from 5000 to 5999.

5001 - IPFE Backend Unavailable

Alarm Group:	IPFE
Description:	The IPFE has not received any heartbeats from an application server within the heartbeat timeout interval.
Severity:	Minor
Instance:	IP address of the application server.
	Note: If a heartbeat is received from the application server, this alarm will clear.
HA Score:	Degraded
Auto Clear Seconds:	N/A
OID:	ipfeIpfeBackendUnavailableNotify

Recovery:

1. Check the status of the application servers by navigating to the **Status & Manage > Server** page.
2. Consult the application server's documentation for recovery steps.
3. If the application server is functioning, check for network connectivity issues between the IPFE and the application server.
4. Contact [My Oracle Support \(MOS\)](#) for assistance.

5002 - IPFE address configuration error

Alarm Group:	IPFE
Description:	This alarm indicates misconfiguration due to manual changes to the configuration database, configuration data importing errors, or software installation errors.
Severity:	Critical
Instance:	Description of the field or fields that are incorrect.
	Note: If the IPFE is able to successfully synchronize data with its peer, this alarm will clear.
HA Score:	Normal
Auto Clear Seconds:	N/A
OID:	ipfeIpfeStateSyncConfigErrorNotify

Recovery:

1. To correct configuration errors, select **IPFE > Configuration > Options** from the left-hand menu.
The **Configuration Options** pane appears.
2. Ensure that IPFE1 IP Address and IPFE2 IP Address are configured correctly.
3. For issues with modules or versions, contact [My Oracle Support \(MOS\)](#) for assistance.

5003 - IPFE state sync run error

Alarm Group:	IPFE
Description:	The IPFE was unable to synchronize state data with its mate.
Severity:	Critical
Instance:	One of the following strings: <ul style="list-style-type: none"> • "connect error" - cannot connect to peer IPFE • "data read error" - error reading data from peer IPFE • "data write error" - error writing data to peer IPFE <p>Note: If the is able to synchronize state data with its mate, this alarm will clear.</p>
HA Score:	Normal
Auto Clear Seconds:	N/A
OID:	ipfeIpfeStateSyncRunErrorNotify

Recovery:

1. Check the status of the peer IPFE by navigating to the **Status & Manage > Server** page.
2. If the IPFE is down, restart the process:
 - a) Select **Status & Manage > Server**. The **Server Status** page appears.
 - b) Click to select the IPFE to restart.
 - c) Click **Restart**.

A warning message appears: **Are you sure you want to restart application software on the following server(s)? <server name>**.

- d) Click **OK** to continue.
3. Diagnose any network fault between the two IPFEs.
 4. For further assistance, contact [My Oracle Support \(MOS\)](#).

5004 - IPFE IP tables configuration error

Alarm Group:	IPFE
Description:	This alarm indicates misconfiguration of the Target Set due to manual changes to the configuration database or configuration data importing errors.
Severity:	Critical

Instance:	"tsa N address misconfiguration" where N is 1-16
HA Score:	Normal
Auto Clear Seconds:	N/A
OID:	ipfeIpfeIpTablesConfigErrorNotify

Recovery:

1. Select **IPFE > Configuration > Options** from the left-hand menu.

Note: When the target set address is configured correctly, this alarm will clear.

The **Configuration Options** pane appears.

2. Ensure that the **TSA1 IP Address** field contains a valid IP address.
3. Select **IPFE > Configuration > IP List TSA 1**.

The **IP List TSA 1** pane appears.

4. Ensure that there is at least one application server IP address configured for the TSA.
5. Repeat for **IPFE > Configuration > IP List TSA 1**.

5005 - IPFE Backend In Stasis

Alarm Group:	IPFE
Description:	<p>The IPFE has received a heartbeat packet from the application server that indicates that the application server is unwilling to accept new connections. However, the application server will continue to process existing connections. The application server sends a stasis heartbeat message for the following reasons:</p> <ul style="list-style-type: none"> • The application server has reached its maximum number of active Diameter connections • The application server is congested. The application server will raise 22200 - MpCpuCongested also.
Severity:	Minor
Instance:	IP address of the application server in stasis
HA Score:	Normal
Auto Clear Seconds:	N/A
OID:	ipfeIpfeBackendInStasisNotify

Recovery:

When the IPFE receives heartbeats from the application server indicating that it is willing to accept new connections, this alarm will clear.

5007 - Out of Balance: Low

Alarm Group:	IPFE
---------------------	------

Description:	Traffic statistics reveal that an application server is processing higher than average load. For example, if a TSA has three application servers, but the IPFE has only two connections open, then one of the application servers will receive no traffic and thus will be considered "underloaded".
Severity:	Minor
Instance:	IP address of the application server
HA Score:	Normal
Auto Clear Seconds:	N/A
OID:	ipfeIpfeBackendUnderloadedNotify
Recovery:	None required. Underloaded application servers do not impact traffic processing. This alarm will clear when traffic statistics reveal that the application server is no longer underloaded.

5008 - Out of Balance: High

Alarm Group:	IPFE
Description:	Traffic statistics reveal that an application server is processing higher than average load and will not receive new connections.
Severity:	Minor
Instance:	IP address of the overloaded application server Note: When traffic statistics indicate that the application server is no longer overloaded, this alarm will clear.
HA Score:	Normal
Auto Clear Seconds:	N/A
OID:	ipfeIpfeBackendOverloadedNotify
Recovery:	<ol style="list-style-type: none"> 1. The IPFE will monitor traffic statistics and will not assign connections to the overloaded application server until statistics indicate that the server is no longer overloaded. 2. Check the status of the application servers by navigating to the Status & Manage > Server page. 3. Consult the application server's documentation for recovery steps.

5009 - No available servers in target set

Alarm Group:	IPFE
Description:	Through monitoring of the application servers, the IPFE learns that no server in a target set is available. The associated measurement, TxReject, will also show counts (refer to the <i>DSR Measurements Reference</i> for details about this measurement). This alarm can be triggered during configuration

of the IPFE when the target set address has been configured, but application servers have not yet been added to the target set.

Severity: Critical

Instance: "tsa N has no available servers" where N is 1-16

Note: When at least one application server in a target set becomes available, this alarm will clear.

HA Score: Normal

Auto Clear Seconds: N/A

OID: ipfeIpfeNoAvailableAppServersNotify

Recovery:

1. Ensure that application servers have been configured for the target set address by viewing **IPFE > Configuration > Target Sets**.
2. Check the status of the application servers by navigating to the **Status & Manage > Server** page.
3. Consult the application server's documentation for recovery steps.
4. Ensure that `ipfeNetUpdate.sh` has been run by looking for the following lines in `/etc/sysconfig/network` on the IPFE blades:

```
IPV6FORWARDING=yes
IPV6_AUTOCONF=no
```

If `ipfeNetUpdate.sh` has not been run:

- Log in as **root**.
 - At the prompt, type `ipfeNetUpdate.sh`
 - At the prompt, type `init 6`
 - Repeat for each IPFE blade.
5. If application servers have been configured correctly for the target set and the application server status is healthy, contact [My Oracle Support \(MOS\)](#) for assistance.

5010 - Unknown Linux iptables command error

Alarm Group: IPFE

Description: The IPFE received an unknown error parsing Linux iptables output. This is an internal software error.

Severity: Critical

Instance: "error parsing iptables output"

HA Score: Normal

Auto Clear Seconds: N/A

OID: ipfeIpfeErrorParsingIptablesOutputNotify

Recovery:

Contact [My Oracle Support \(MOS\)](#) for assistance.

5011 - System or platform error prohibiting operation

Alarm Group:	IPFE
Description:	An internal software error.
Severity:	Critical
Instance:	Description of the problem. <ul style="list-style-type: none"> • "Error opening ethernet listeners" • "No network cards found" • "Cannot update /proc/irq/N/smp_affinity setting" • "System has less that 16 CPUs" <p>Note: The IPFE detects if it has been installed on a virtual machine and will not raise this alarm.</p>

HA Score:	Normal
Auto Clear Seconds:	N/A
OID:	ipfeIpfeSystemErrorNotify

Recovery:

1. If the IPFE is able to use its ethernet interfaces, this alarm will clear. If this alarm was generated by issuing a "service network restart" command, it should clear within 10 seconds. If it does not clear, restart the IPFE process:
 - a) Select **Status & Manage > Server**. The **Server Status** page appears.
 - b) Click to select the IPFE to restart.
 - c) Click **Restart**.

A warning message appears: **Are you sure you want to restart application software on the following server(s)? <server name>**.
 - d) Click **OK** to continue.
 - e) If the alarm still does not clear, check the Ethernet devices and CPUs.
2. Contact [My Oracle Support \(MOS\)](#) for assistance.

5012 - Signaling interface heartbeat timeout

Alarm Group:	IPFE
Description:	Heartbeats to monitor the liveness of a signaling interface have timed out.
Severity:	Critical
Instance:	The name of the Ethernet interface affected, e.g., "bond0.5", etc.
HA Score:	Degraded
Auto Clear Seconds:	N/A

OID: ipfeIpfeSignalingInterfaceNotify

Recovery:

1. Check if any manual configuration changes have been executed that remove or reset interfaces.
2. Diagnose hardware failure of interfaces, switch failure, or network outage.
3. Review currently active platform alarms.
4. If the problem persists, contact [My Oracle Support \(MOS\)](#).

5013 - Throttling traffic

Alarm Group: IPFE

Description: IPFE has seen traffic in excess of Global Packet Rate Limit and is dropping packets in order to throttle the traffic.

Severity: Critical

Instance: The number of packets that have been throttled

HA Score: Degraded

Auto Clear Seconds: N/A

OID: ipfeIpfeThrottlingTrafficNotify

Recovery:

1. Compare the setting for the Global Packet Rate Limit configuration found under **IPFE > Configuration > Options** with the system's performance specifications and determine if a higher setting is reasonable.
2. Review macro conditions that lead to high signal rate.
3. If the problem persists, contact [My Oracle Support \(MOS\)](#).

5100 - Traffic overload

Alarm Group: IPFE

Description: Total IPFE signaling traffic rate is approaching or exceeding its engineered capacity.

Severity: Minor, Major, Critical

Instance: N/A

Note: If the signaling traffic declines below the clear threshold, the alarm will clear.

HA Score: Normal

Auto Clear Seconds: N/A

OID: ipfeIpfeTrafficOverloadNotify

Recovery:

The product is in excess of its design parameters, and may exhibit traffic loss if an additional failure occurs. Consider expanding system to accommodate additional capacity. Contact [My Oracle Support \(MOS\)](#) for assistance.

5101 - CPU Overload

Alarm Group:	IPFE
Description:	CPU utilization is approaching maximum levels.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	ipfeIpfeCpuOverloadNotify

Recovery:

Contact [My Oracle Support \(MOS\)](#) for assistance.

5102 - Disk Becoming Full

Alarm Group:	IPFE
Description:	Disk space utilization is approaching maximum levels.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	ipfeIpfeDiskUsageNotify

Recovery:

Contact [My Oracle Support \(MOS\)](#) for assistance.

5103 - Memory Overload

Alarm Group:	IPFE
Description:	IPFE memory utilization is approaching maximum levels.s
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal

Auto Clear Seconds: 0 (zero)
OID: ipfelIpfeMemoryOverloadNotify

Recovery:
 Contact [My Oracle Support \(MOS\)](#) for assistance.

OAM (10000-10999)

This section provides information and recovery procedures for OAM alarms, ranging from 10000-10999.

10000 - Incompatible database version

Alarm Group: DB
Description: The database version is incompatible with the installed software database version.
Severity: Critical
Instance: N/A
HA Score: Failed
Auto Clear Seconds: 300
OID: tekelecIncompatibleDatabaseVersionNotify
Recovery:
 Contact [My Oracle Support \(MOS\)](#).

10001 - Database backup started

Event Type: DB
Description: The database backup has started.
Severity: Info
Instance: GUI
HA Score: Normal
Throttle Seconds: 1
OID: tekelecBackupStartNotify
Recovery:
 No action action required.

10002 - Database backup completed

Event Type:	DB
Description:	Backup completed
Severity:	Info
Instance:	GUI
HA Score:	Normal
Throttle Seconds:	1
OID:	tekelecBackupCompleteNotify
Recovery:	
	No action required.

10003 - Database backup failed

Event Type:	DB
Description:	The database backup has failed.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	1
OID:	tekelecBackupFailNotify
Recovery:	
	Contact My Oracle Support (MOS) .

10004 - Database restoration started

Event Type:	DB
Description:	The database restoration has started.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	1
OID:	tekelecRestoreStartNotify
Recovery:	
	No action required.

10005 - Database restoration completed

Event Type:	DB
Description:	The database restoration is completed.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	1
OID:	tekelecRestoreCompleteNotify
Recovery:	No action required.

10006 - Database restoration failed

Event Type:	DB
Description:	The database restoration has failed.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	1
OID:	tekelecRestoreFailNotify
Recovery:	Contact My Oracle Support (MOS) .

10008 - Database provisioning manually disabled

Alarm Group:	DB
Description:	Database provisioning has been manually disabled.
Severity:	Minor
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	This alarm does not autoclear.
OID:	awpss7TekelecProvisioningManuallyDisabledNotify
Recovery:	No action required.

10009 - Config and Prov db not yet synchronized

Alarm Group:	REPL
Description:	The configuration and the provisioning databases are not yet synchronized.
Severity:	Critical
Instance:	N/A
HA Score:	Failed
Auto Clear Seconds:	This alarm does not autoclear.
OID:	awpss7OAGTCfgProvDbNoSyncNotify

Recovery:

1. Monitor the replication status using the Status & Manage > Replication GUI page.
2. If alarm persists for more than one hour, contact [My Oracle Support \(MOS\)](#).

10010 - Stateful db from mate not yet synchronized

Alarm Group:	HA
Description:	The stateful database is not synchronized with the mate database.
Severity:	Minor
Instance:	N/A
HA Score:	Degraded
Auto Clear Seconds:	This alarm does not autoclear.
OID:	awpss7OAGTStDbNoSyncNotify

Recovery:

If alarm persists for more than 30 seconds, contact [My Oracle Support \(MOS\)](#).

10011 - Cannot monitor table

Alarm Group:	OAM
Description:	Monitoring for table cannot be set up.
Severity:	Major
Instance:	N/A
HA Score:	Degraded
Auto Clear Seconds:	This alarm does not autoclear.
OID:	awpss7OAGTCantMonitorTableNotify

Recovery:

Contact [My Oracle Support \(MOS\)](#).

10012 - Table change responder failed

Alarm Group:	OAM
Description:	The responder for a monitored table failed to respond to a table change.
Severity:	Major
Instance:	N/A
HA Score:	Degraded
Auto Clear Seconds:	This alarm does not autoclear.
OID:	awpss7OAGTResponderFailedNotify
Recovery:	Contact My Oracle Support (MOS) .

10013 - Application restart in progress

Alarm Group:	HA
Description:	An application restart is in progress.
Severity:	Minor
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	This alarm does not autoclear.
OID:	awpss7OAGTApplSWDisabledNotify
Recovery:	If duration of alarm is greater than two seconds, contact My Oracle Support (MOS) .

10020 - Backup failure

Alarm Group:	DB
Description:	Database backup failed.
Severity:	Minor
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	This alarm does not autoclear.
OID:	awpss7ApwBackupFailureNotify
Recovery:	

Alarm will clear if a backup (Automated or Manual) of the same group data is successful. Contact [My Oracle Support \(MOS\)](#) if failures persist.

10050 - Resource Audit Failure

Alarm Group:	AUD
Description:	Database backup failed.
Severity:	Minor
Instance:	
HA Score:	Normal
Auto Clear Seconds:	0
OID:	awpss7TekelecResourceAuditFailureNotify
Recovery:	

10051 - Route Deployment Failed

Alarm Group:	AUD
Description:	An error occurred in the deployment of a network.
Severity:	Minor
Instance:	Route ID that failed to deploy
HA Score:	Normal
Auto Clear Seconds:	0
OID:	awpss7TekelecRouteDeploymentFailedNotify
Recovery:	Edit the route to choose a gateway that is reachable or delete the route.

10052 - Route discovery failed

Alarm Group:	AUD
Description:	An error occurred in the discovery of network routes.
Severity:	Minor
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	0
OID:	awpss7TekelecRouteDiscoveryFailedNotify
Recovery:	If the problem persists, contact My Oracle Support (MOS) .

10053 - Route deployment failed - no available device

Alarm Group:	AUD
Description:	A suitable device could not be identified for the deployment of a network route.
Severity:	Minor
Instance:	Route ID that failed to deploy
HA Score:	Normal
Auto Clear Seconds:	0
OID:	awpss7TekelecNoRouteDeviceNotify
Recovery:	
	1. Deploy the route on a specific device instead of using the “AUTO” device.
	2. Ensure that every server in the server group has a usable device for the selected gateway.

10054 - Device deployment failed

Alarm Group:	AUD
Description:	An error occurred in the deployment of a network device.
Severity:	Minor
Instance:	Device name that failed to deploy
HA Score:	Normal
Auto Clear Seconds:	0
OID:	awpss7TekelecDeviceDeploymentFailedNotify
Recovery:	
	Edit or delete the device.

10055 - Device discovery failed

Alarm Group:	AUD
Description:	An error occurred in the discovery of network devices.
Severity:	Minor
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	0
OID:	awpss7TekelecDeviceDiscoveryFailedNotify
Recovery:	
	If the problem persists, contact My Oracle Support (MOS) .

10073 - Server Group Max Allowed HA Role Warning

Alarm Group:	HA
Description:	The server group has received the maximum number of allowed HA role warnings.
Severity:	Minor
Instance:	Affected Server Group name
HA Score:	Normal
Auto Clear Seconds:	0
OID:	awpss7OAGTSgMaxAllowedHARoleWarnNotify

Recovery:

1. Login to the SO GUI and navigate to the HA page (**Main Menu > Status & Manage > HA**).
2. Click the **Edit** button and change the Max Allowed HA role of the current Standby SOAM to *Active*.
3. If you cannot perform the HA switchover, login to the server (**Main Menu > Status & Manage > Server**).
4. Click on the Active server and press the **Restart** button to restart the server.
HA switchover occurs.
5. Verify the switchover was successful from the Active SOAM GUI, or login to the Active and Standby SOAMs and execute the following command:
ha.mystate

10074 - Standby server degraded while mate server stabilizes

Alarm Group:	HA
Description:	The standby server has temporarily degraded while the new active server stabilizes following a switch of activity.
Severity:	Minor
Instance:	N/A
HA Score:	Degraded
Auto Clear Seconds:	This alarm does not autoclear.
OID:	awpss7HASbyRecoveryInProgressNotify

Recovery:

No action required; the alarm clears automatically when standby server is recovered. This is part of the normal recovery process for the server that transitioned to standby as a result of a failover.

10075 - Application processes have been manually stopped

Alarm Group:	HA
---------------------	----

Description:	The server is no longer providing services because application processes have been manually stopped.
Severity:	Minor
Instance:	N/A
HA Score:	Failed
Auto Clear Seconds:	This alarm does not autoclear.
OID:	awpss7HAMtceStopApplicationsNotify

Recovery:

If maintenance actions are complete, restart application processes on the server from the **Status & Manage > Servers** page by selecting the Restart Applications action for the server that raised the alarm.

Once successfully restarted the alarm will clear.

10078 - Application not restarted on standby server due to disabled failure cleanup mode

Event Type:	HA
Description:	The Applications on the Standby server have not been restarted after an active-to- standby transition since h_FailureCleanupMode is set to 0.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	1
OID:	awpss7FailureRecoveryWithoutAppRestartNotify

Recovery:

Contact [My Oracle Support \(MOS\)](#).

10100 - Log export started

Event Type:	LOG
Description:	Log files export operation has started.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	1
OID:	awpss7TekelecLogExportStartNotify

Recovery:

No action required.

10101 - Log export successful

Event Type:	LOG
Description:	The log files export operation completed successfully.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	1
OID:	awpss7TekelecLogExportSuccessNotify

Recovery:

No action required.

10102 - Log export failed

Event Type:	LOG
Description:	The log files export operation failed.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	1
OID:	awpss7TekelecLogExportFailedNotify

Recovery:

1. Verify the export request and try the export again.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

10103 - Log export already in progress

Event Type:	LOG
Description:	Log files export operation not run - export can only run on Active Network OAMP server.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	1

OID: awpss7TekelecLogExportNotRunNotify

Recovery:

Restart export operation after existing export completes.

10104 - Log export file transfer failed

Event Type: LOG

Description: The performance data export remote copy operation failed.

Severity: Info

Instance: <Task ID>

Note: <Task ID> refers to the ID column found in **Main Menu > Status & Manage > Tasks > Active Tasks**.

HA Score: Normal

Throttle Seconds: 1

OID: awpss7TekelecExportXferFailedNotify

Recovery:

Contact [My Oracle Support \(MOS\)](#) for assistance.

10105 - Log export cancelled - user request

Event Type: LOG

Description: The log files export operation cancelled by user.

Severity: Info

Instance: <Task ID>

Note: <Task ID> refers to the ID column found in **Main Menu > Status & Manage > Tasks > Active Tasks**.

HA Score: Normal

Throttle Seconds: 1

OID: awpss7TekelecLogExportCancelledUserNotify

Recovery:

Contact [My Oracle Support \(MOS\)](#) for assistance.

10106 - Log export cancelled - duplicate request

Event Type: LOG

Description: The log files export operation was cancelled because a scheduled export is queued already.

Severity:	Info
Instance:	<Task ID>
	Note: <Task ID> refers to the ID column found in Main Menu > Status & Manage > Tasks > Active Tasks .
HA Score:	Normal
Throttle Seconds:	1
OID:	awpss7TekelecLogExportCancelledDuplicateNotify
Recovery:	
	1. Check the duration and/or frequency of scheduled exports as they are not completing before the next scheduled export is requested.
	2. If the problem persists, contact My Oracle Support (MOS) for assistance.

10107 - Log export cancelled - queue full

Event Type:	LOG
Description:	The log files export operation cancelled because the export queue is full.
Severity:	Info
Instance:	<Task ID>
	Note: <Task ID> refers to the ID column found in Main Menu > Status & Manage > Tasks > Active Tasks .
HA Score:	Normal
Throttle Seconds:	1
OID:	awpss7TekelecLogExportCancelledQueueNotify
Recovery:	
	1. Check the amount, duration and/or frequency of scheduled exports to ensure the queue does not fill up.
	2. If the problem persists, contact My Oracle Support (MOS) for assistance.

10108 - Duplicate scheduled log export task

Alarm Group:	LOG
Description:	A duplicate scheduled log export task has been queued.
Severity:	Minor
Instance:	<Target ID>
	Note: <Target ID> refers to the scheduled task ID found by running a report from Main Menu > Status & Manage > Tasks > Scheduled Tasks .

HA Score: Normal

Auto Clear Seconds: This alarm does not autoclear.

OID: awpss7TekelecLogExportDupSchedTaskNotify

Recovery:

1. Check the duration and/or frequency of scheduled exports as they are not completing before the next scheduled export is requested.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#) for assistance.

10109 - Log export queue is full

Alarm Group: LOG

Description: The log export queue is full

Severity: Minor

Instance: <Queue Name>

Note: <Queue Name> refers to the name of the queue used for the export task ID found by running a report from either **Main Menu > Status & Manage > Tasks > Active Tasks** or **Main Menu > Status & Manage > Tasks > Scheduled Tasks**.

HA Score: Normal

Auto Clear Seconds: This alarm does not autoclear.

OID: awpss7TekelecLogExportQueueFullNotify

Recovery:

1. Check the amount, duration and/or frequency of scheduled exports to ensure that the queue does not fill up.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#) for assistance.

10110 - Certificate About to Expire

Alarm Group: AUD

Description: The certificate expires within 30 days.

Severity: Minor

Instance: <CertificateName>

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: certificateAboutToExpire

Recovery:

Contact [My Oracle Support \(MOS\)](#) for assistance.

10111 - Certificate Expired

Alarm Group:	AUD
Description:	The certificate is expired.
Severity:	Major
Instance:	<CertificateName>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	certificateExpired

Recovery:

Contact [My Oracle Support \(MOS\)](#) for assistance.

10112 - Certificate Cannot Be Used

Alarm Group:	AUD
Description:	The certificate cannot be used because the certificate is not available yet.
Severity:	Major
Instance:	<CertificateName>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	certificateCannotBeUsed

Recovery:

Contact [My Oracle Support \(MOS\)](#) for assistance.

10115 - Health Check Started

Event Type:	LOG
Description:	Upgrade health check operation started.
Severity:	Info
Instance:	<>
HA Score:	Normal
Throttle Seconds:	0
OID:	tekelecLogHealthCheckStart

Recovery:

Contact [My Oracle Support \(MOS\)](#).

10116 - Health Check Successful

Event Type:	LOG
Description:	Upgrade health check operation completed successfully.
Severity:	Info
Instance:	<>
HA Score:	Normal
Throttle Seconds:	0
OID:	tekelecLogHealthCheckSuccess
Recovery:	
	Contact My Oracle Support (MOS) .

10117 - Health Check Failed

Event Type:	LOG
Description:	Upgrade health check operation failed.
Severity:	Info
Instance:	<>
HA Score:	Normal
Throttle Seconds:	0
OID:	tekelecLogHealthCheckFailed
Recovery:	
	Contact My Oracle Support (MOS) .

10118 - Health Check Not Run

Event Type:	LOG
Description:	Upgrade health check not run.
Severity:	Info
Instance:	<>
HA Score:	Normal
Throttle Seconds:	1
OID:	tekelecLogHealthCheckNotRun
Recovery:	
	Contact My Oracle Support (MOS) .

10120 - Server Group Upgrade Started

Event Group:	LOG
Description:	The server group upgrade operation has started.
Severity:	Info
Instance:	<ServerGroupName>
HA Score:	Normal
Throttle Seconds:	1
OID:	tekelecLogSgUpgradeStart
Recovery:	No action required.

10121 - Server Group Upgrade Cancelled - Validation Failed

Event Group:	LOG
Description:	The server group upgrade operation has been cancelled due to validation failure.
Severity:	Info
Instance:	<ServerGroupName>
HA Score:	Normal
Throttle Seconds:	1
OID:	tekelecLogSgUpgradeCancelled
Recovery:	No action required.

10122 - Server Group Upgrade Successful

Event Group:	LOG
Description:	The server group upgrade operation completed successfully.
Severity:	Info
Instance:	<ServerGroupName>
HA Score:	Normal
Throttle Seconds:	1
OID:	tekelecLogSgUpgradeSuccess
Recovery:	No action required.

10123 - Server Group Upgrade Failed

Event Group:	LOG
Description:	The server group upgrade operation failed.
Severity:	Info
Instance:	<ServerGroupName>
HA Score:	Normal
Throttle Seconds:	1
OID:	tekelecLogSgUpgradeFailed
Recovery:	No action required.

10124 - Server Group Upgrade Cancelled - User Request

Event Group:	LOG
Description:	The user cancelled the server group upgrade operation.
Severity:	Info
Instance:	<ServerGroupName>
HA Score:	Normal
Throttle Seconds:	1
OID:	tekelecLogSgUpgradeCancelledUser
Recovery:	No action required.

10130 - Server Upgrade Started

Event Group:	LOG
Description:	The server upgrade operation has started.
Severity:	Info
Instance:	<HostName>
HA Score:	Normal
Throttle Seconds:	1
OID:	tekelecLogServerUpgradeStart
Recovery:	No action required.

10131 - Server Upgrade Cancelled

Event Group:	LOG
Description:	The server upgrade operation has been cancelled due to validation failure.
Severity:	Info
Instance:	<HostName>
HA Score:	Normal
Throttle Seconds:	1
OID:	tekelecLogServerUpgradeCancelled
Recovery:	No action required.

10132 - Server Upgrade Successful

Event Group:	LOG
Description:	The server upgrade operation completed successfully.
Severity:	Info
Instance:	<HostName>
HA Score:	Normal
Throttle Seconds:	1
OID:	tekelecLogServerUpgradeSuccess
Recovery:	No action required.

10133 - Server Upgrade Failed

Event Group:	LOG
Description:	The server upgrade operation failed.
Severity:	Info
Instance:	<HostName>
HA Score:	Normal
Throttle Seconds:	1
OID:	tekelecLogServerUpgradeFailed
Recovery:	No action required.

10134 - Server Upgrade Failed

Alarm Group:	LOG
Description:	The server upgrade operation failed.
Severity:	Major
Instance:	<HostName>
HA Score:	Normal
Auto Clear Seconds:	0
OID:	tekelecLogServerUpgradeFailAlm

Recovery:

1. If there are servers in the server group that have successfully upgraded, you will need to individually restart the upgrade on that server. Navigate to the Upgrade page (**Administration > Software Management > Upgrade**).
2. Select the "Server Group" tab containing the server that raised the alarm.
3. Select the individual server(s) and then click the **Server Upgrade** button to start the upgrade on those servers.

Note: Servers cannot be selected across tabs. If there are servers in multiple server groups, you must restart the server upgrade for each additional "Server Group" tab.

4. If no servers in the group have been upgraded, you can select **Auto Upgrade** to upgrade all servers in the server group. If a server upgrade has failed already, the alarm will be cleared when the server begins to upgrade.

Note: The active server in the NO server group will never upgrade automatically.

10151 - Login successful

Event Type:	LOG
Description:	The login operation was successful.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	1
OID:	awpss7TekelecLoginSuccessNotify

Recovery:

No action required.

10152 - Login failed

Event Type:	LOG
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Description:	The login operation failed
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	1
OID:	awpss7TekelecLoginFailedNotify

Recovery:

Verify login information and case is correct, and re-enter.

10153 - Logout successful

Event Type:	LOG
Description:	The logout operation was successful.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	1
OID:	awpss7TekelecLogoutSuccessNotify

Recovery:

No action required.

10154 - User Account Disabled

Alarm Group:	AUTH
Description:	User account has been disabled due to multiple login failures.
Severity:	Minor
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	This alarm does not autoclear.
OID:	awpss7TekelecAccountDisabledNotify

Recovery:

The alarm will clear if the account is automatically re-enabled. Otherwise, the administrator must enable or delete user account.

10155 - SAML Login Successful

Event Group:	LOG
Description:	SAML Login Successful
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	1
OID:	awpss7TekelecSamlLoginSuccessNotify

Recovery:

This is not a failure event. It's an indication that a user was successfully authenticated for login to the GUI. This applies to both conventional login and Single Sign On (SSO) login.

10156 - SAML Login Failed

Event Group:	LOG
Description:	An attempt to login to the GUI via conventional login or via SSO login failed.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	1
OID:	tekelecSamlLoginFailed

Recovery:

1. Use correct username and password to log in.
2. For failed SSO login, verify SSO was properly configured. Collect logs and contact [My Oracle Support \(MOS\)](#) if the problem persists.

10200 - Remote database reinitialization in progress

Alarm Group:	CFG
Description:	The remote database reinitialization is in progress. This alarm is raised on the active NOAM server for the server being added to the server group.
Severity:	Minor
Instance:	<hostname of remote server>
HA Score:	Normal
Auto Clear Seconds:	This alarm does not autoclear.

OID: awpss7ApwSgDbReinitNotify

Recovery:

1. Check to see that the remote server is configured.
2. Make sure the remote server is responding to network connections.
3. If this does not clear the alarm, delete this server from the server group.
4. If the problem persists, contact [My Oracle Support \(MOS\)](#).

IDIH (11500-11549)

This section provides information and recovery procedures for IDIH alarms, which range from 11500 to 11549.

11500 - Tracing Suspended

Alarm Group:	IDIH
Description:	IDIH trace has been suspended due to DA-MP (danger of) CPU congestion.
Severity:	Minor
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterTracingSuspendedAlarmNotify

Recovery:

No action required. Tracing will resume once the danger of CPU congestion subsides.

11501 - Trace Throttling Active

Alarm Group:	IDIH
Description:	Troubleshooting trace has been throttled on some DA-MPs due to IDIH TTR bandwidth usage exceeding provisioned limit.
Severity:	Minor
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterTracingThrottledAlarmNotify

Recovery:

No action required

11502 - Troubleshooting Trace Started

Event Group:	IDIH
Description:	A troubleshooting trace instance was started.
Severity:	Info
Instance:	<TraceInstanceId>
HA Score:	Normal
Throttle Seconds:	0
OID:	eagleXgDiameterIDIHTraceStartedNotify
Recovery:	No action required.

11503 - Troubleshooting Trace Stopped

Event Group:	IDIH
Description:	A troubleshooting trace instance was stopped.
Severity:	Info
Instance:	<TraceInstanceId>
HA Score:	Normal
Throttle Seconds:	0
OID:	eagleXgDiameterIDIHTraceStoppedNotify
Recovery:	No action required

11506 - Invalid IDIH-Trace AVP

Alarm Group:	IDIH
Description:	An IDIH-Trace AVP has been received with an invalid format.
Severity:	Info
Instance:	<TransConnName>
HA Score:	Normal
Throttle Seconds:	30
OID:	eagleXgDiameterInvalidIDIHTraceAvpNotify
Recovery:	

1. If the message came from a peer that is not a DA-MP, verify that the peer is not modifying the AVP value (peers may retain the IDIH-Trace AVP unchanged, or remove it entirely, at their discretion).
2. If the message came from a peer that is a DA-MP, contact [My Oracle Support \(MOS\)](#).

11507 - Unable to run network trace at this site

Alarm Group:	IDIH
Description:	A network trace could not be run at this site because the connection or peer referenced by the trace scope value is not configured at this site. The trace will still run at sites that have this entity configured.
Severity:	Info
Instance:	<TraceName>
HA Score:	Normal
Throttle Seconds:	0
OID:	eagleXgDiameterUnableToRunNetworkTraceAtThisSiteNotify
Recovery:	No action required; the trace will still run at all sites that have the indicated object configured at their site.

11508 - Network Trace Configuration Error

Alarm Group:	IDIH
Description:	An error occurred during configuration of the network trace. Please delete the trace definition.
Severity:	Minor
Instance:	<TraceName>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterNetworkTraceConfigurationErrorNotify
Recovery:	Delete the network trace that raised the alarm.

11509 - Site Trace Configuration Error

Alarm Group:	IDIH
Description:	An error occurred during configuration of the site trace. Please delete the trace definition.
Severity:	Minor

Instance: <TraceName>
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: eagleXgDiameterSiteTraceConfigurationErrorNotify
Recovery:
 Delete the site trace that raised the alarm.

11510 - Network Trace Activation Error

Alarm Group: IDIH
Description: Network trace is not active on this site. A temporary error occurred during the activation of the network trace.
Severity: Minor
Instance<TraceName>:
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: eagleXgDiameterNetworkTraceActivationErrorNotify
Recovery:
 No action required.

11511 - Invalid DIH HostName

Alarm Group DIAM
Description Unable to connect via ComAgent to remote DIH server with hostname.
Severity Minor
Instance String of Configured DIH HostName
HA Score Normal
Auto Clear Seconds 0
OID eagleXgDiameterInvalidDihHostNameAlarmNotify
Recovery
 No action required.

SS7/Sigtran Alarms (19200-19299)

This section provides information and recovery procedures for SS7/Sigtran alarms, ranging from 19200 - 19299.

19200 - RSP/Destination unavailable

Alarm Group:	SS7
Description:	Unable to access the SS7 Destination Point Code because the RSP status is Unavailable.
Severity:	Critical
Instance:	RSP Name
HA Score:	Normal
Auto Clear Seconds:	This alarm does not autoclear.
OID:	awpss7M3rlRspUnavailableNotify

Recovery:

1. RSP/Destination status can be monitored from the SOAM GUI **SS7/Sigtran > Maintenance > Remote Signaling Points**.
 - If the RSP/Destination becomes Unavailable due to a link set failure, the MP server will attempt to automatically recover all links not manually disabled.
 - If the RSP/Destination becomes Unavailable due to the receipt of a TFP, the route's status will be periodically audited by sending RST messages to the adjacent point code which sent the TFP.
2. Verify that IP network connectivity exists between the MP server and the adjacent servers.
3. Check the event history logs for additional SS7 events or alarms from this MP server.
4. Verify that the adjacent server is not under maintenance.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19201 - RSP/Destination route unavailable

Alarm Group:	SS7
Description:	Unable to access the SS7 Destination point code via this route.
Severity:	Minor
Instance:	<Route Name>
HA Score:	Normal
Auto Clear Seconds:	This alarm does not autoclear.
OID:	awpss7M3rlRouteUnavailableNotify

Recovery:

1. Route status can be monitored from **SS7/Sigtran > Maintenance > Remote Signaling Points**.
 - If the route becomes Unavailable due to a link set failure, the MP server will attempt to automatically recover all links not manually disabled.
 - If the route becomes Unavailable due to the receipt of a TFP, the route's status will be periodically audited by sending RST messages to the adjacent point code which sent the TFP.
2. Verify that IP network connectivity exists between the MP server and the adjacent servers.
3. Check the event history logs for additional SS7 events or alarms from this MP server.
4. Verify that the adjacent server is not under maintenance.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19202 - Linkset unavailable

Alarm Group:	SS7
Description:	The SS7 link set to an adjacent signaling point has failed.
Severity:	Major
Instance:	<LinkSetName>
HA Score:	Normal
Auto Clear Seconds:	This alarm does not autoclear.
OID:	awpss7M3rlLinksetUnavailableNotify

Recovery:

1. The MP server will attempt to automatically recover all links not manually disabled.
2. Link set status can be monitored from **SS7/Sigtran > Maintenance > Linksets**.
3. Verify that IP network connectivity exists between the MP server and the adjacent servers.
4. Check the event history logs for additional SS7 events or alarms from this MP server.
5. Verify that the adjacent server is not under maintenance.
6. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19203 - Link unavailable

Alarm Group:	SS7
Description:	M3UA has reported to M3RL that a link is out of service.
Severity:	Minor
Instance:	<Link Name>
HA Score:	Normal
Auto Clear Seconds:	This alarm does not autoclear.
OID:	awpss7M3rlLinkUnavailableNotify

Recovery:

1. The MP server will attempt to automatically recover all links not manually disabled.
2. Link status can be monitored from **SS7/Sigtran > Maintenance > Links**.
3. Verify that IP network connectivity exists between the MP server and the adjacent servers.
4. Check the event history logs for additional SS7 events or alarms from this MP server.
5. Verify that the adjacent server is not under maintenance.
6. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19204 - Preferred route unavailable

Alarm Group:	SS7
Description:	M3RL has started to utilize a lower priority (higher cost) route to route traffic toward a given destination address, because the higher priority (lower cost) route specified for that RSP/Destination has become Unavailable.
Severity:	Major
Instance:	RSP Name
HA Score:	Normal
Auto Clear Seconds:	This alarm does not autoclear.
OID:	awpss7M3rlPreferredRouteUnavailableNotify

Recovery:

1. If the preferred route becomes Unavailable due to the receipt of a TFP, the route's status will be periodically audited by sending RST messages to the adjacent point code which sent the TFP.
2. Route status can be monitored from **SS7/Sigtran > Maintenance > Remote Signaling Points**.
3. Verify that IP network connectivity exists between the MP server and the adjacent servers.
4. Check the event history logs for additional SS7 events or alarms from this MP server.
5. Verify that the adjacent server is not under maintenance.
6. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19205 - TFP received

Event Type:	SS7
Description:	The TFP message was received by M3RL layer; an adjacent point code has reported that it no longer has any available routes to the RSP/Destination.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	30
OID:	awpss7M3rlTfpReceivedNotify

Recovery:

1. Monitor the RSP/Destination status from **SS7/Sigtran > Maintenance > Remote Signaling Points**.
2. Follow local procedures to determine the reason that the PC was prohibited.

19206 - TFA received

Event Type:	SS7
Description:	TFA message received by M3RL layer; an adjacent point code has reported that it has an available route to the RSP/Destination.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	30
OID:	awpss7M3rlTfaReceivedNotify

Recovery:

Monitor the RSP/Destination status from **SS7/Sigtran > Maintenance > Remote Signaling Points**.

19207 - TFR received

Event Type:	SS7
Description:	TFR message received by M3RL layer; an adjacent point code has reported that an available route to the RSP/Destination has a restriction/limitation.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	30
OID:	awpss7M3rlTfrReceivedNotify

Recovery:

1. Monitor the RSP/Destination status from **SS7/Sigtran > Maintenance > Remote Signaling Points**.
2. Follow local procedures to determine the reason that the PC was prohibited.

19208 - TFC received

Event Type:	SS7
Description:	TFC message received by M3RL layer; an adjacent or non-adjacent point code is reporting the congestion level of a RSP/Destination.

Severity:	Info
HA Score:	Normal
Throttle Seconds:	30
Instance:	N/A
OID:	awpss7M3rlTfcReceivedNotify

Recovery:

1. RSP/Destination status can be monitored from **SS7/Sigtran > Maintenance > Remote Signaling Points**.
2. Follow local procedures to determine the reason that the PC was prohibited.

19209 - M3RL routing error

Event Type:	SS7
Description:	A message was discarded due to a routing error.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	10
OID:	awpss7M3rlRoutingFailureNotify

Recovery:

1. Each MP's assigned point code can be monitored from **SS7/Sigtran > Configuration > Local Signaling Points**.
2. If the event was caused by:
 - The DPC of an egress message is not configured as a remote signaling point, then look at the routing label in the event additional information, determine the DPC, and verify that the DPC is configured as an RSP.
 - The DPC of an egress message is configured but not available for routing, then look at the routing label in the event additional information, determine the DPC, verify that a route exists for the DPC, and use the RSP status screen to verify that a route is available for the RSP.
 - The DPC of an ingress message does not match the TPC or CPC of the MP server group, then either signaling is being misdirected by the STP toward the MP, or the MP server's LSP is misconfigured. Look at the routing label in the event additional information for the OPC and DPC of the ingress message.
3. If a high number of these errors occurs, then an internal routing table problem may exist. Please contact [My Oracle Support \(MOS\)](#) for assistance.

19210 - M3RL routing error - invalid NI

Event Type:	SS7
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Description: The message was discarded due to a routing error. The NI (Network Indicator) value received in a message from the network is not assigned to the MP. This event is generated under the following circumstances:

- The NI in the MTP3 routing label of the ingress message is not supported for the given network signaling domain for a provisioned Local Signaling Point.
- For an ingress ANSI SCCP message, Bit-8 in the SCCP CDPA address indicator octet indicates that the CDPA is encoded as per international specifications:
 - A "0" in Bit 8 indicates that the address is international and that both the address indicator and the address are coded according to international specifications.
 - A "1" in Bit 8 indicates that the address is national and that both the address indicator and the address are coded according to national specifications.

The NI cannot be International for ANSI messages, since the ordering of the subsystem number indicator field and the point code indicator fields are in the reverse order in the ITU specification.

Severity: Info

Instance: N/A

HA Score: Normal

Throttle Seconds: 10

OID: awpss7M3rlRoutingFailureInvalidNiNotify

Recovery:

1. The Signaling Transfer Point or Signaling Gateway routing tables may be inconsistent with the NI assigned to the MP. You can monitor each MP's assigned NI value from the GUI main menu under **SS7/Sigtran > Configuration > Remote Signaling Points**.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19211 - M3RL routing error - invalid SI

Event Type: SS7

Description: The message was discarded due to a routing error. The SI value received in a message from the network is associated with a User Part that is not currently supported.

Severity: Info

Instance: RSP Name

HA Score: Normal

Throttle Seconds: 10

OID: awpss7M3rlRoutingFailureInvalidSiNotify

Recovery:

1. If the SI received is not a **0** (SNM) or **3** (SCCP), verify that the STP/SG and the point code that created the message have correct routing information.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19217 - Node isolated - all links down

Alarm Group:	SS7
Description:	All configured links are down; either failed or disabled. No M3UA signaling is possible. The node is isolated from the network. All M3UA connectivity to the SS7/Sigtran network has either failed or has been manually disabled.
Severity:	Critical
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	This alarm does not autoclear.
OID:	awpss7M3rlNodeIsolatedAllLinkDownNotify

Recovery:

1. Select **SS7/Sigtran > Maintenance > Links** to check whether any of the links are manually disabled that should not be. If so, click **Enable** to enable the manually disabled links.
2. View the active alarms and event history logs by selecting **Alarms & Events > View Active** and **Alarms & Events > View History**. Look for significant events that may affect the IP network, associations, or links.
3. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19226 - Timedout waiting for ASP-UP-ACK

Event Type:	SS7
Description:	When an association is in the Enabled administrative state, part of the association initialization involves sending an ASP-UP from the MP server and receiving an ASP-UP-ACK from the adjacent server. If ASP-UP is sent, but no ASP-UP-ACK is received within State Management ACK Timer milliseconds, this event is generated and the ASP-UP is attempted again. ASP-UP attempts will continue indefinitely until the association administrative state is set to Blocked or Disabled , or the SCTP transport fails, or the ASP-UP-ACK is received.
Severity:	Info
Instance:	<AssocName>
HA Score:	Normal
Throttle Seconds:	10
OID:	awpss7TimedOutWaitingForAspUpAckNotify

Recovery:

1. Verify that the adjacent server on the Signaling Gateway is not under maintenance.
2. Verify that the timer value for State Management ACK Timer is not set too short to allow the adjacent server to respond with an ASP-UP-ACK. This should be rare if the network is not congested.
3. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19227 - Received unsolicited ASP-DOWN-ACK

Event Type:	SS7
Description:	The adjacent server at the specified IP address and port has sent an ASP-DOWN-ACK, but not in response to an ASP-DOWN message from the MP server. Normally this indicates that the far-end of the association is being taken down for maintenance. If the association administrative state is Enabled , the MP server will automatically attempt to bring the association back to ASP-UP. This is done by sending an ASP-UP. The MP server will continue to send ASP-UP until an ASP-UP-ACK is received, the SCTP association comes down, or the association administrative state is changed to Blocked or Disabled .
Severity:	Info
Instance:	<AssocName>
HA Score:	Normal
Throttle Seconds:	30
OID:	awpss7ReceivedUnsolicitedAspDownAckNotify

Recovery:

1. Verify that the adjacent server on the Signaling Gateway is not under maintenance.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19229 - Timed out waiting for ASP-ACTIVE-ACK

Event Type:	SS7
Description:	No ASP-ACTIVE-ACK is received in response to an ASP-ACTIVE message on the link within State Management ACK Timer milliseconds.
Severity:	Info
Instance:	<LinkName>
HA Score:	Normal
Throttle Seconds:	10
OID:	awpss7TimedOutWaitingForAspActiveAckNotify

Recovery:

1. Verify that the adjacent server on the Signaling Gateway is not under maintenance.

2. Verify that the timer value for State Management ACK Timer is not set too short to allow the adjacent server to respond with an ASP-ACTIVE-ACK. This should be rare if the network is not congested.
3. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19230 - Received unsolicited ASP-INACTIVE-ACK

Event Type:	SS7
Description:	An unsolicited ASP-INACTIVE-ACK is received on the link.
Severity:	Info
Instance:	<LinkName>
HA Score:	Normal
Throttle Seconds:	30
OID:	awpss7ReceivedUnsolicitedAspInactiveAckNotify

Recovery:

1. Verify that the adjacent server on the Signaling Gateway is not under maintenance.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19231 - Received invalid M3UA message

Event Type:	SS7
Description:	The far-end has sent an invalid M3UA message to which the MP server has responded with an M3UA ERROR message.
Severity:	Info
Instance:	<LinkName> or <AssocName> Information about the type of error and the accompanying diagnostic data is included in the event additional information.
HA Score:	Normal
Throttle Seconds:	10
OID:	awpss7ReceivedInvalidM3uaMessageNotify

Recovery:

1. Examine the M3UA error code and the diagnostic information and attempt to determine why the far-end of the link sent the malformed message.
 - Error code 0x01 indicates an invalid M3UA protocol version. Only version 1 is supported.
 - Error code 0x03 indicates an unsupported M3UA message class.
 - Error code 0x04 indicates an unsupported M3UA message type.
 - Error code 0x07 indicates an M3UA protocol error. The message contains a syntactically correct parameter that does not belong in the message or occurs too many times in the message.

- Error code 0x11 indicates an invalid parameter value. Parameter type and length are valid, but value is out of range.
 - Error code 0x12 indicates a parameter field error. Parameter is malformed (e.g., invalid length).
 - Error code 0x13 indicates an unexpected parameter. Message contains an undefined parameter. The differences between this error and "Protocol Error" are subtle. Protocol Error is used when the parameter is recognized, but not intended for the type of message that contains it. Unexpected Parameter is used when the parameter identifier is not known.
 - Error code 0x16 indicates a missing parameter. Missing mandatory parameter, or missing required conditional parameter.
 - Error code 0x19 indicates an invalid routing context. Received routing context not configured for any linkset using the association on which the message was received.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19233 - Failed to send non-DATA message

Event Type:	SS7
Description:	<p>An attempt to send an M3UA non-DATA message has failed. Non-DATA messages include SSNM, ASPSM, ASPTM, and MGMT messages. The message has been discarded. Possible reasons for the failure include:</p> <ul style="list-style-type: none"> • The far-end is slow to acknowledge the SCTP packets sent by the MP server, causing the MP server's SCTP send buffer to fill up to the point where the message cannot be queued for sending. • The socket has closed just as the send was being processed.
Severity:	Info
Instance:	<LinkName> or <AssocName>
	Note: Information about the type of error and the accompanying diagnostic data is included in the event additional information.
HA Score:	Normal
Throttle Seconds:	10
OID:	awpss7FailedToSendNonDataMessageNotify

Recovery:

1. Select **Alarms & Events > View History** and check the event history logs for additional SS7 events or alarms from this MP server.
2. Verify that the adjacent server on the Signaling Gateway is not under congestion. The MP server will have alarms to indicate the congestion if this is the case.
3. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19234 - Local link maintenance state change

Event Type:	SS7
Description:	The link administrative state is manually changed from one administrative state to another.

Severity:	Info
Instance:	<LinkName>
HA Score:	Normal
Throttle Seconds:	0 (zero)
OID:	awpss7LocalLinkMaintenanceStateChangeNotify

Recovery:

1. No action required if this was an expected change due to some maintenance activity. Otherwise, security logs can be examined on the SOAM server to determine which user changed the administrative state.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19235 - Received M3UA error

Event Type:	SS7
Description:	An M3UA ERROR message is received from the adjacent server.
Severity:	Info
Instance:	<LinkName> or <AssocName>
	Note: Information about the type of error and the accompanying diagnostic data is included in the event additional information.
HA Score:	Normal
Throttle Seconds:	10
OID:	awpss7ReceivedM3uaErrorNotify

Recovery:

1. Examine the M3UA error code and the diagnostic information and attempt to determine why the far-end of the link sent the ERROR message.
 - Error code 0x01 indicates an invalid M3UA protocol version. Only version 1 is supported.
 - Error code 0x03 indicates an unsupported M3UA message class.
 - Error code 0x04 indicates an unsupported M3UA message type.
 - Error code 0x05 indicates an unsupported M3UA traffic mode.
 - Error code 0x07 indicates an M3UA protocol error. The message contains a syntactically correct parameter that does not belong in the message or occurs too many times in the message.
 - Error code 0x09 indicates an invalid SCTP stream identifier. A DATA message was sent on stream 0.
 - Error code 0x0D indicates that the message was refused due to management blocking. An ASP Up or ASP Active message was received, but refused for management reasons.
 - Error code 0x11 indicates an invalid parameter value. Parameter type and length are valid, but value is out of range.
 - Error code 0x12 indicates a parameter field error. Parameter is malformed (e.g., invalid length).
 - Error code 0x13 indicates an unexpected parameter. Message contains an undefined parameter. The differences between this error and "Protocol Error" are subtle. Protocol Error is used when

the parameter is recognized, but not intended for the type of message that contains it. Unexpected Parameter is used when the parameter identifier is not known.

- Error code 0x14 indicates that the destination status is unknown. This message can be sent in response to a DAUD from the MP server if the SG cannot or does not wish to provide the destination status or congestion information.
- Error Error code 0x16 indicates a missing parameter. Missing mandatory parameter, or missing required conditional parameter.
- Error code 0x19 indicates an invalid routing context. Received routing context not configured for any linkset using the association on which the message was received.

2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19240 - Remote SCCP subsystem prohibited

Alarm Group:	SS7
Description:	The status of remote SCCP subsystem has changed to Prohibited .
Severity:	Minor
Instance:	<RMU>
HA Score:	Normal
Auto Clear Seconds:	This alarm does not autoclear.
OID:	awpss7RemoteSccpSubsystemProhibitedNotify

Recovery:

1. You can monitor destination status from **SS7/Sigtran > Maintenance > Remote Signaling Points** and RMU/subsystem status from **SS7/Sigtran > Maintenance > Remote MTP3 Users**.
 - If the subsystem's status changed to **Prohibited** because SCMG received a SSP message, an audit of the status of the RMU via the SCCP subsystem status test (SST) procedure is performed.
 - If the subsystem's status changed to **Prohibited** because SCCP received a MTP-PAUSE indication from M3RL, then recovery actions of restoring the RSP /Destination status to **Available** will be invoked by M3RL.
 - If the subsystem's status changed to **Prohibited** because SCCP received a MTP STATUS cause=unequipped user indication from M3RL, then no automatic recovery will be initiated. Only manual action at the remote node can correct a remote point code that has not been configured with SCCP.
 - If the subsystem's status changed to **Prohibited** because SCCP received a MTP STATUS cause=unknown or inaccessible indication from M3RL, then SCCP will automatically invoke subsystem status testing depending upon the network type:
 - ANSI: subsystem status testing of all RMUs associated with the point code.
 - ITU: subsystem status testing SCMG (SSN=1) associated with the point code.
2. Verify that IP network connectivity exists between the MP server and the adjacent servers.
3. Select **Alarms & Events > View History** and check the event history logs for additional SS7 events or alarms from this MP server.
4. Verify that the adjacent server is not under maintenance.

5. Follow local procedures to determine the reason that the far-end SSN is down. If it is not down, but it continues to be reported as down, contact [My Oracle Support \(MOS\)](#).

19241 - SCCP malformed or unsupported message

Event Type:	SS7
Description:	SCCP discarded an ingress message because the Message Type is not currently supported. The following connectionless message types are supported: UDT, XUDT, UDTS, and XUDTS. The following SCMG Message Types are supported: SSA, SSP, and SST.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	30
OID:	awpss7SccpMsgTypeUnrecognizedNotify

Recovery:

1. Investigate:
 - If the originator of the message is misconfigured.
 - If the network is misconfigured, causing messages to be routed to the wrong RSP/Destination.
 - If the message type is currently unsupported.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19242 - SCCP Hop counter violation

Event Type:	SS7
Description:	SCCP discarded an ingress message because a Hop Counter violation was detected.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	30
OID:	awpss7SccpHopCounterViolationNotify

Recovery:

1. One of the following conditions causes this error:
 - The originator of the message is setting the initial value too low.
 - The message is being rerouted too many times by the STPs, possibly because of an STP routing misconfiguration that has caused message looping.
2. Contact [My Oracle Support \(MOS\)](#).

19243 - SCCP routing failure

Event Type:	SS7
Description:	SCCP was unable to route or process a message during SCCP processing for reasons (other than a global title translation failure, detected SCCP loop) possibly requiring operator intervention.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	30
OID:	awpss7SccpRoutingFailureNotify

Recovery:

1. These failures are typically associated with invalid information received in the SCCP messages. Check for the following:
 - A misconfiguration of the SCCP at the originating or terminating node
 - Network routing misconfiguration at the STPs
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19244 - SCCP routing failure network status

Event Type:	SS7
Description:	SCCP was unable to route or process a message during SCCP processing due to transient conditions such as RSP / destination failures and remote or local subsystem failures.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	30
OID:	awpss7SccpRoutingFailureNetworkStatusNotify

Recovery:

1. Monitor status on the GUI main menu as follows:
 - Destination status from **SS7/Sigtran > Maintenance > Remote Signaling Points**.
 - RMU/subsystem status from **SS7/Sigtran > Configuration > Remote MTP3 Users**.
 - Local subsystem status from **SS7/Sigtran > Maintenance > Local SCCP Users**.
2. Verify that IP network connectivity exists between the MP server and the adjacent servers.
3. Check the event history logs for additional SS7 events or alarms from this MP server.
4. Verify that the adjacent server is not under maintenance.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19245 - SCCP GTT failure

Event Type:	SS7
Description:	SCCP Global Title Translation has failed to determine a destination for a PDU. SCCP is invoking the message return procedure.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	10
OID:	awpss7SccpGttFailureNotify

Recovery:

1. Global title translation has failed. For the cause of the failure, look at the SCCP return cause and the called party address information in the event additional information field. Look for the following items:
 - Missing global title translation data.
 - Incorrect called party address information in the ingress message.
 - Point code paused or congested.
 - Subsystem prohibited or congested.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19246 - Local SCCP subsystem prohibited

Alarm Group:	SS7
Description:	The status of the local SCCP subsystem has changed to Prohibited . This alarm is raised for one of the following conditions: <ul style="list-style-type: none"> • When a new local SSN is configured and is in the disabled state. • When a GUI maintenance operation is performed to disable the state of the local SSN. • On a system restart where the local SSN was in disabled state prior to the system restart.
Severity:	Major
Instance:	<LSP>, <SSN>
HA Score:	Normal
Auto Clear Seconds:	This alarm does not autoclear.
OID:	awpss7SCCPLocalSubsystemProhibitedNotify

Recovery:

To clear the alarm:

- a) On the SOAM GUI main menu, select **SS7/Sigtran > Configuration > Local SCCP Users**.

- b) Set the **Auto Refresh** for the page (upper right corner) to 15 so that you can view the results of your selections during this procedure. You can also click the menu option on the main menu to manually update the page.
- c) Click **Enable** to put the appropriate local SSN in the enabled state.
A confirmation message appears.
- d) Click **OK**.
The **Enable** link will be grayed out once the SSN transitions to the enabled state.

19248 - SCCP Segmentation Failure

Event Type:	SS7
Description:	SCCP Segmentation Procedure Failure
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	30
OID:	awpss7SccpSegmentationFailureNotify

Recovery:

1. This condition indicates segmentation procedure failure at the SCCP layer:
 - User data exceeds maximum size
 - Internal Error
2. Check the SCCP options configuration and maximum size limitations for the SS7 network.
3. Contact the [My Oracle Support \(MOS\)](#) for assistance.

19249 - SCCP Reassembly Failure

Event Type:	SS7
Description:	SCCP Reassembly Procedure Failure
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	30
OID:	awpss7SccpReassemblyFailureNotify

Recovery:

1. This condition indicates reassembly procedure failure at the SCCP layer:
 - Reassembly time expired
 - Out of sequence segments
 - Internal error

2. Determine if the problem is a result of routing decision errors or latency from the SS7 network.
3. Contact the [My Oracle Support \(MOS\)](#) for assistance.

19250 - SS7 process CPU utilization

Alarm Group:	SS7
Description:	The SS7 process, which is responsible for handling all SS7 traffic, is approaching or exceeding its engineered traffic handling capacity.
Severity:	Minor, Major, or Critical as shown in the GUI under Alarms & Events > View Active .
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	This alarm does not autoclear.
OID:	awpss7Ss7ProcessCpuUtilizationNotify

Recovery:

1. If one or more MPs in a server site have failed, the traffic will be distributed among the remaining MPs in the server site. You can monitor MP server status from the GUI main menu under **Status & Manage > Server**.
2. The misconfiguration of STP routing may result in too much traffic being distributed to the MP. You can monitor the ingress traffic rate of each MP from **Status & Manage > KPIs**. Each MP in the server site should be receiving approximately the same ingress transaction per second.
3. There may be an insufficient number of MPs configured to handle the network traffic load. You can monitor the ingress traffic rate of each MP from **Status & Manage > KPIs**. If all MPs are in a congestion state, then the offered load to the server site is exceeding its capacity.
4. The SS7 process may be experiencing problems. You monitor the alarm log from **Alarms & Events > View Active**.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19251 - Ingress message rate

Alarm Group:	SS7
Description:	The ingress message rate (messages per second) for the MP is approaching or exceeding its engineered traffic handling capacity.
Severity:	Minor, Major, Critical as shown in the GUI under Alarms & Events > View Active .
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	This alarm does not autoclear.
OID:	awpss7IngressMsgRateNotify
Recovery:	

1. If one or more MPs in a server site have failed, the traffic will be distributed among the remaining MPs in the server site. You can monitor MP server status from the GUI main menu under **Status & Manage > Server**
2. The misconfiguration of STP routing may result in too much traffic being distributed to the MP. You can monitor the ingress traffic rate of each MP from **Status & Manage > KPIs**. Each MP in the server site should be receiving approximately the same ingress transaction per second.
3. There may be an insufficient number of MPs configured to handle the network traffic load. You can monitor the ingress traffic rate of each MP from **Status & Manage > KPIs**. If all MPs are in a congestion state, then the offered load to the server site is exceeding its capacity.
4. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19252 - PDU buffer pool utilization

Alarm Group:	SS7
Description:	The percent utilization of the MP's PDU buffer pool is approaching its maximum capacity. If this problem persists and the pool reaches 100% utilization, all new ingress messages will be discarded.
Severity:	Minor, Major, Critical as shown in the GUI under Alarms & Events > View Active .
Instance:	<PoolName> Values: ANSI, ITUI, ITUN
HA Score:	Normal
Auto Clear Seconds:	This alarm does not autoclear.
OID:	awpss7PduBufferPoolUtilNotify

Recovery:

1. If one or more MPs in a server site have failed, the traffic will be distributed among the remaining MPs in the server site. You can monitor MP server status from the GUI main menu under **Status & Manage > Server**.
2. The misconfiguration of STP routing may result in too much traffic being distributed to the MP. You can monitor the ingress traffic rate of each MP from **Status & Manage > KPIs**. Each MP in the server site should be receiving approximately the same ingress transaction per second.
3. There may be an insufficient number of MPs configured to handle the network traffic load. You can monitor the ingress traffic rate of each MP from **Status & Manage > KPIs**. If all MPs are in a congestion state, then the offered load to the server site is exceeding its capacity.
4. A software defect may exist resulting in PDU buffers not being de-allocated to the pool when a PDU is successfully transmitted into the network. This alarm should not normally occur when no other congestion alarms are asserted. Examine the alarm log from **Alarms & Events > View Active**.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19253 - SCCP stack event queue utilization

Alarm Group:	SS7
Description:	The percent utilization of the MP's SCCP stack event queue is approaching its maximum capacity.

Severity:	Minor, Major, Critical as shown in the GUI under Alarms & Events > View Active .
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	This alarm does not autoclear.
OID:	awpss7SccpStackEventQueueUtilNotify

Recovery:

1. If one or more MPs in a server site have failed, the traffic will be distributed among the remaining MPs in the server site. You can view MP server status from the GUI main menu under **Status & Manage > Server**.
2. The misconfiguration of STP routing may result in too much traffic being distributed to the MP. You can monitor the ingress traffic rate of each MP from **Status & Manage > KPIs**. Each MP in the server site should be receiving approximately the same ingress transaction per second.
3. There may be an insufficient number of MPs configured to handle the network traffic load. You can monitor the ingress traffic rate of each MP from **Status & Manage > KPIs**. If all MPs are in a congestion state, then the offered load to the server site is exceeding its capacity.
4. If no additional congestion alarms are asserted, the SCCP Stack Event thread may be experiencing a problem preventing it from processing events from its event queue. Examine the alarm log under **Alarms & Events > View Active**.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19254 - M3RL stack event queue utilization

Alarm Group:	SS7
Description:	The percent utilization of the MP's M3RL Stack Event Queue is approaching its maximum capacity.
Severity:	Minor, Major, Critical as shown in the GUI under Alarms & Events > View Active .
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	This alarm does not autoclear.
OID:	awpss7M3rlStackEventQueueUtilNotify

Recovery:

1. If one or more MPs in a server site have failed, the traffic will be distributed among the remaining MPs in the server site. You can view MP server status from the GUI main menu under **Status & Manage > Server**.
2. The misconfiguration of STP routing may result in too much traffic being distributed to the MP. You can monitor the ingress traffic rate of each MP from **Status & Manage > KPIs**. Each MP in the server site should be receiving approximately the same ingress transaction per second.
3. There may be an insufficient number of MPs configured to handle the network traffic load. You can monitor the ingress traffic rate of each MP from **Status & Manage > KPIs**. If all MPs are in a congestion state, then the offered load to the server site is exceeding its capacity.

4. If no additional congestion alarms are asserted, the M3RL Stack Event thread may be experiencing a problem preventing it from processing events from its event queue. Examine the alarm log from **Alarms & Events > View Active**.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19255 - M3RL network management event queue utilization

Alarm Group:	SS7
Description:	The percent utilization of the MP's M3RL Network Management Event Queue is approaching its maximum capacity.
Severity:	Minor, Major, Critical as shown in the GUI under Alarms & Events > View Active .
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	This alarm does not autoclear.
OID:	awpss7M3rlNetMgmtEventQueueUtilNotify

Recovery:

1. If one or more MPs in a server site have failed, the traffic will be distributed among the remaining MPs in the server site. You can view MP server status from the GUI main menu under **Status & Manage > Server**.
2. The misconfiguration of STP routing may result in too much traffic being distributed to the MP. You can monitor the ingress traffic rate of each MP under **Status & Manage > KPIs**. Each MP in the server site should be receiving approximately the same ingress transaction per second.
3. There may be an insufficient number of MPs configured to handle the network traffic load. You can monitor the ingress traffic rate of each MP under **Status & Manage > KPIs**. If all MPs are in a congestion state, then the offered load to the server site is exceeding its capacity.
4. If no additional congestion alarms are asserted, the M3RL Network Management Event thread may be experiencing a problem preventing it from processing events from its event queue. Examine the alarm log from **Alarms & Events > View Active**.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19256 - M3UA stack event queue utilization

Alarm Group:	SS7
Description:	The percent utilization of the MP's M3UA Stack Event Queue is approaching its maximum capacity.
Severity:	Minor, Major, Critical as shown in the GUI under Alarms & Events > View Active .
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	This alarm does not autoclear.

OID: awpss7M3uaStackEventQueueUtilNotify

Recovery:

1. If one or more MPs in a server site have failed, the traffic will be distributed among the remaining MPs in the server site. You can view MP server status from the GUI main menu under **Status & Manage > Server**.
2. The misconfiguration of STP routing may result in too much traffic being distributed to the MP. You can monitor the ingress traffic rate of each MP from **Status & Manage > KPIs**. Each MP in the server site should be receiving approximately the same ingress transaction per second.
3. There may be an insufficient number of MPs configured to handle the network traffic load. You can monitor the ingress traffic rate of each MP from **Status & Manage > KPIs**. If all MPs are in a congestion state, then the offered load to the server site is exceeding its capacity.
4. If no additional congestion alarms are asserted, the M3UA Stack Event thread may be experiencing a problem preventing it from processing events from its event queue. Examine the alarm log from **Alarms & Events > View Active**.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19258 - SCTP Aggregate Egress queue utilization

Alarm Group: SS7

Description: The percent utilization of events queued to all SCTP associations on the MP server is approaching maximum capacity.

Severity: Minor, Major, Critical as shown in the GUI under **Alarms & Events > View Active**.

Instance: N/A

HA Score: Normal

Auto Clear Seconds: This alarm does not autoclear.

OID: awpss7SctpAggregateAssocWriteQueueUtilNotify

Recovery:

1. An IP network or STP/SG problem may exist preventing SCTP from transmitting messages into the network on multiple Associations at the same pace that messages are being received from the network.
2. One or more SCTP Association Writer threads may be experiencing a problem preventing it from processing events from its event queue. Examine the alarm log from **Alarms & Events > View Active**.
3. If one or more MPs in a server site have failed, the traffic will be distributed among the remaining MPs in the server site. You can view MP server status from the GUI main menu under **Status & Manage > Server**.
4. The misconfiguration of STP routing may result in too much traffic being distributed to the MP. You can monitor the ingress traffic rate of each MP from **Status & Manage > KPIs**. Each MP in the server site should be receiving approximately the same ingress transaction per second.
5. There may be an insufficient number of MPs configured to handle the network traffic load. You can monitor the ingress traffic rate of each MP from **Status & Manage > KPIs**. If all MPs are in a congestion state, then the offered load to the server site is exceeding its capacity.

6. If the problem persists, contact [My Oracle Support \(MOS\)](#).

19259 - Operation discarded due to local resource limitation

Event Type:	SS7
Description:	Operation discarded due to local resource limitation
Severity:	Info
Instance:	Application name
HA Score:	Normal
Throttle Seconds:	30
OID:	awpss7TcapOpDiscardedLocalResLimitNotify

Recovery:

1. Determine if this condition indicates a software problem or unexpected TC User behavior.
2. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

19260 - Transaction could not be delivered to remote TCAP peer due to conditions in the network

Event Type:	SS7
Description:	Transaction could not be delivered to remote TCAP peer due to conditions in the network.
Severity:	Info
Instance:	Application name
HA Score:	Normal
Throttle Seconds:	30
OID:	awpss7TcapTransNotDeliveredToPeerNotify

Recovery:

1. This event indicates that an SCCP service message (UDTS or XUDTS) was received from the network, meaning that the TCAP message could not be delivered to the remote TCAP peer. The event additional information field contains the first 80 octets of the SS7 message starting with the MTP3 routing label. This data can be used to determine the routing instructions for the message.
2. Verify that the routing is configured correctly for the destination. If the routing configuration is correct, determine why the remote TCAP peer is not available.
3. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

19262 - Operation discarded due to malformed component received from remote TCAP peer

Event Type:	SS7
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Description:	Operation discarded due to malformed component received from remote TCAP peer
Severity:	Info
Instance:	Application name
HA Score:	Normal
Throttle Seconds:	30
OID:	awpss7TcapMalformedComponentFromRemoteNotify

Recovery:

1. This event indicates that a TCAP component was received from the remote TCAP peer that could not be successfully decoded.
2. The event additional information field includes the reason why the decoding failed, plus the first 80 octets of the message starting with the MTP3 routing label. The message data can be used to determine the source of the malformed message
3. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

19263 - Transaction discarded due to malformed dialogue message received from local TC User

Event Type:	SS7
Description:	Transaction discarded due to malformed dialogue message received from local TC User
Severity:	Info
Instance:	Application name
HA Score:	Normal
Throttle Seconds:	30
OID:	awpss7TcapMalformedDialogueFromLocalNotify

Recovery:

1. Determine if this condition indicates a software problem or unexpected TC User behavior.
2. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

19264 - Transaction discarded due to malformed dialogue message from remote TCAP peer

Event Type:	SS7
Description:	Transaction discarded due to malformed dialogue message received from local TC User
Severity:	Info
Instance:	Application name
HA Score:	Normal

Throttle Seconds: 30
OID: awpss7TcapMalformedDialogueFromRemoteNotify

Recovery:

1. This event indicates that a TCAP message was received from the remote TCAP peer that could not be successfully decoded.
2. The event additional information field includes the reason why the decoding failed, plus the first 80 octets of the message starting with the MTP3 routing label. The message data can be used to determine the source of the malformed message.
3. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

19265 - Unexpected event received from local TC User

Event Type: SS7
Description: Unexpected event received from local TC User.
Severity: Info
Instance: Application name
HA Score: Normal
Throttle Seconds: 30
OID: awpss7TcapUnexpectedMsgFromLocalNotify

Recovery:

1. Determine if this condition indicates a software problem or unexpected TC User behavior.
2. The event additional information field includes a description of what event was received and why it was unexpected, as well as what was done with the operation or dialogue as a result.
3. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

19266 - Unexpected event received from remote TCAP peer

Event Type: SS7
Description: Unexpected event received from remote TCAP peer
Severity: Info
Instance: Application name
HA Score: Normal
Throttle Seconds: 30
OID: awpss7TcapUnexpectedMsgFromRemoteNotify

Recovery:

1. Determine if this condition indicates a software problem or unexpected TC User behavior.
2. The event additional information field includes:
 - a description of what event was received and why it was unexpected

- what was done with the operation or dialogue as a result
 - the first 80 octets of the message starting with the MTP3 routing label
3. The message data can be used to determine the source of the malformed message.
 4. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

19267 - Dialogue removed by dialogue cleanup timer

Event Type:	SS7
Description:	Dialogue removed by dialogue cleanup timer
Severity:	Info
Instance:	Application name
HA Score:	Normal
Throttle Seconds:	30
OID:	awpss7TcapDialogueRemovedTimerExpiryNotify

Recovery:

1. This event indicates that a TCAP transaction containing no components was sent, but no response was received from the remote TCAP peer.
2. The event additional information field includes:
 - the local dialogue-id
 - the number of milliseconds that elapsed between the time the message was sent and the time that the message was discarded
 - the destination point code to which the message was destined
 - the SCCP called party address to which the message was destined
3. Check for SCCP events just prior to this event indicating that a message could not be routed. If SCCP failed to route the message, verify that a route exists for the destination to which the TCAP message was being sent.
4. If no SCCP routing failure event exists, investigate why the remote TCAP peer failed to respond. The DPC and called party address can be used to determine the destination to which the message was being sent.
5. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

19268 - Operation removed by invocation timer expiry

Event Type:	SS7
Description:	Operation removed by invocation timer expiry
Severity:	Info
Instance:	Application name
HA Score:	Normal
Throttle Seconds:	30

OID: awpss7TcapOperationRemovedTimerExpiryNotify

Recovery:

1. This event indicates that a TCAP transaction containing no components was sent, but no response was received from the remote TCAP peer.
2. The event additional information field includes:
 - the local dialogue-id and invoke-id
 - the number of milliseconds that elapsed between the time the message was sent and the time that the operation was discarded
 - the destination point code to which the message was destined if the component was ever sent
 - the SCCP called party address to which the message was destined if the component was ever sent
3. Check for SCCP events just prior to this event indicating that a message could not be routed. If SCCP failed to route the message, verify that a route exists for the destination to which the TCAP message was being sent.
4. If no SCCP routing failure event exists, investigate why the remote TCAP peer failed to respond. The DPC and called party address (if present) can be used to determine the destination to which the message was being sent.
5. If the DPC and Called Party Address are not included in the additional information field, it indicates that the component was created, but never sent.
6. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

19269 - Dialogue aborted by remote TCAP peer

Event Type:	SS7
Description:	Dialogue aborted by remote TCAP peer
Severity:	Info
Instance:	Application name
HA Score:	Normal
Throttle Seconds:	30
OID:	awpss7TcapDialogueAbortByRemoteNotify

Recovery:

1. This event indicates that a remote TCAP peer has aborted a dialogue.
2. The event additional information field includes:
 - the abort reason
 - the first 80 octets of the message starting with the MTP3 routing label
3. The message data can be used to determine the source of the U-Abort or P-Abort message.
4. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

19270 - Received unsupported TCAP message

Event Type:	SS7
Description:	Received unsupported TCAP message
Severity:	Info
Instance:	Application name
HA Score:	Normal
Throttle Seconds:	30
OID:	awpss7TcapUnsupportedTCAPMsgRcvdNotify

Recovery:

1. This event indicates that an unsupported TCAP message has been received.
2. The event additional information field includes:
 - the abort reason
 - the first 80 octets of the message starting with the MTP3 routing label
3. The message data can be used to determine the source of the unsupported message.
4. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

19271 - Operation rejected by remote TCAP peer

Event Type:	SS7
Description:	Operation rejected by remote TCAP peer
Severity:	Info
Instance:	Application name
HA Score:	Normal
Throttle Seconds:	30
OID:	awpss7TcapReturnRejectByRemoteNotify

Recovery:

1. This event indicates that a remote TCAP peer has rejected an operation.
2. The event additional information field includes:
 - the reject reason
 - the first 80 octets of the message starting with the MTP3 routing label
3. The message data can be used to determine the source of the message.
4. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

19272 - TCAP active dialogue utilization

Alarm Group:	SS7
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Description:	TCAP active dialogue utilization
Severity:	Minor, Major, Critical
Instance:	Application name
HA Score:	Normal
Auto Clear Seconds:	0 (alarm does not clear automatically)
OID:	awpss7TcapActiveDialogueUtilNotify

Recovery:

1. The percent utilization of the MP's dialogue table is approaching maximum capacity. This alarm indicates that the number of active dialogues on the MP server is higher than expected.
2. If this problem persists and the dialogue table reaches 100% utilization, all new messages will be discarded. This alarm should not normally occur when no other congestion alarms are asserted. This condition may be caused by any of the following:
 - the incoming plus outgoing rate of new dialogues is higher than expected (possibly due to poor load balancing across MP servers, or too few MP servers to handle the load)
 - the duration of the dialogues is longer than expected
 - both the rate and duration are higher than expected
 - a software problem is preventing removal of completed dialogues
3. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

19273 - TCAP active operation utilization

Alarm Group:	SS7
Description:	TCAP active operation utilization
Severity:	Minor, Major, Critical
Instance:	Application name
HA Score:	Normal
Auto Clear Seconds:	0 (alarm does not clear automatically)
OID:	awpss7TcapActiveOperationUtilNotify

Recovery:

1. The percent utilization of the MP's component table is approaching maximum capacity. This alarm indicates that the number of active egress TCAP operations on the MP server is higher than expected.
2. If this problem persists and the component table reaches 100% utilization, all new egress operations will be discarded. This alarm should not normally occur when no other congestion alarms are asserted. This may be caused by any of the following:
 - the outgoing rate of new operations is higher than expected (possibly due to a higher than expected average number of operations per message)
 - the duration of the operations is longer than expected
 - both the outgoing rate and duration are higher than expected
 - a software problem is preventing removal of components

3. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

19274 - TCAP stack event queue utilization

Alarm Group:	SS7
Description:	TCAP stack event queue utilization
Severity:	Minor, Major, Critical
Instance:	Application name
HA Score:	Normal
Auto Clear Seconds:	0 (alarm does not clear automatically)
OID:	awpss7TcapStackEventQueueUtilNotify

Recovery:

1. The percent utilization of the MP's TCAP Stack Event Queue is approaching its maximum capacity. This alarm indicates that the number of ingress TCAP messages on the MP server is higher than expected.
2. If this problem persists and the queue reaches 100% utilization, all new ingress messages will be discarded. This alarm should not normally occur when no other congestion alarms are asserted. This may be caused by any of the following:
 - the incoming rate of new TCAP messages is higher than expected (possibly due to poor load balancing across MP servers, or too few MP servers to handle the load)
 - a software problem is causing the messages to be processed more slowly than expected
3. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

19275 - Return error from remote TCAP peer

Event Type:	SS7
Description:	Return error from remote TCAP peer
Severity:	Info
Instance:	Application name
HA Score:	Normal
Throttle Seconds:	30
OID:	awpss7TcapReturnErrorFromRemoteNotify

Recovery:

1. This event indicates that a remote TCAP peer has responded to an operation using Return Error.
2. The event additional information field includes:
 - the error reason
 - the first 80 octets of the message starting with the MTP3 routing label
3. The message data can be used to determine the source of the message.

4. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

19276 - SCCP Egress Message Rate

Alarm Group:	SS7
Description:	The SCCP Egress Message Rate (Message per second) for the MP is approaching or exceeding its engineered traffic handling capacity.
Severity:	Major
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	0 (alarm does not clear automatically)
OID:	awpss7SccpEgressMsgRateNotify

Recovery:

1. This condition indicates the SS7 Stack is reaching its engineered traffic handling capacity due to egress traffic received from application.
2. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

19281 - TCAP Routing Failure

Event Type:	SS7
Description:	TCAP was unable to route message due to transient conditions such as destination failure or destination unavailability
Severity:	Info
Instance:	Hostname
HA Score:	Normal
Throttle Seconds:	10
OID:	awpss7TcapRoutingFailureNotify

Recovery:

1. This condition indicates failure at the TCAP layer due to XG SS7 node removal or congestion at Communication Agent.
2. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

Transport Manager Alarms and Events (19400-19499)

This section provides information and recovery procedures for Transport Manager alarms and events, ranging from 19400-19499.

19400 - Transport Down

Alarm Group:	TMF
Description:	Transport Down
Severity:	Major
Instance:	<TransportName>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	awptransmgrTransportDownNotify

Recovery:

1. The Active alarm instance data, which can be viewed from **Main Menu > Alarms & Events > View Active**, contains the Transport Name as configured in **Main Menu > Transport Manager > Configuration > Transport**

Additional Information for the alarm can be found in **Main Menu > Alarms & Events > View Active or View History** by locating the row with a sequence number that matches the active alarm sequence number and viewing the Additional Info column. This column will include the local and remote IP addresses and ports, the administrative state, and the protocol state of the association.

This alarm is raised when:

- The association is configured and the admin state is enabled, but the SCTP transport is not in the ASP-UP protocol state for the M3UA plugin, or
- The association is configured, but the SCTP transport is not in the APP-UP state for other plugins

Note: It is normal to have an association alarm if the association is in the Blocked or Disabled administrative state.

This alarm is cleared when:

- The association received an ASP-UP-ACK from the far-end and the SCTP transport in the ASP-UP state for the M3UA plugin, or
- The SCTP transport is an APP-UP state for other plugins, or
- The association is disabled/deleted

If an association's protocol state does not match the association's administrative state, the system will automatically attempt to recover the association if configured as Initiator and enabled. Connection attempts occur every "Connection Retry Interval" seconds, as defined in the Transport Configuration Set screen for the configuration set used by the failed association (default: 10 seconds).

Association administrative states are set from **Main Menu > Transport Manager > Maintenance > 'Transport'** by clicking on the desired action for the row containing the association. This screen is also used to monitor association status.

To troubleshoot:

- If the association is manually Blocked or Disabled, then no further action is necessary.
- Verify that the association's local IP address and port number are configured on the IP Signaling Gateway (Some Signaling Gateways will only accept connections from IP addresses and ports that they are configured to accept from).

- Verify that the association's remote IP address and port correctly identify an SCTP listening port on the adjacent server.
 - Verify that IP network connectivity exists between the MP server and the adjacent server.
 - Check the event history logs at **Main Menu > Alarms & Events > View History** for additional SS7 events or alarms from this MP server.
 - Verify that the adjacent server on the Signaling Gateway is not under maintenance.
2. If the alarm persists, contact [My Oracle Support \(MOS\)](#).

19401 - Failed to configure Transport

Event Type:	TMF
Description:	Failed to configure Transport
Severity:	Info
Instance:	<TransportName>
HA Score:	Normal
Throttle Seconds:	0 (zero)
OID:	awptransmgrFailedToConfigureTransportNotify

Recovery:

1. A Transport is configured each time the Transport attempts to connect or reconnect.
2. If transport configuration fails or the alarm persists, contact [My Oracle Support \(MOS\)](#) for assistance.

19402 - Failed to connect Transport

Event Type:	TMF
Description:	Failed to connect Transport
Severity:	Info
Instance:	<TransportName>
HA Score:	Normal
Throttle Seconds:	60
OID:	awptransmgrFailedToConnectTransportNotify

Recovery:

1. The Transport named in the Instance field has failed in a connection attempt. If configured as an SCTP Initiator, the system will automatically attempt to recover the association/connection. Connection attempts occur every "Connection Retry Interval" seconds, as defined in the Transport Configuration Set screen for the configuration set used by the failed transport (default: 10 seconds). If configured as an SCTP or UDP Listener, no further action is taken.
To troubleshoot

- Verify that the transport's local IP address and port number are configured on the Adjacent Node (Some Nodes will only accept connections from IP addresses and ports they are configured to accept connections from).
 - Verify that the transport's remote IP address and port correctly identify an SCTP listening port on the adjacent node.
 - Verify that IP network connectivity exists between the MP and the adjacent node.
 - Verify that the timers in the transport's configuration set are not set too short to allow the connection to proceed. This should be rare if the IP network is functioning correctly.
 - Check the event history logs at **Main Menu > Alarms & Events > View History** for additional SS7 events or alarms from this MP server.
 - Verify that the adjacent server on the Signaling Gateway is not under maintenance.
2. If the alarm persists, contact [My Oracle Support \(MOS\)](#).

19403 - Received malformed SCTP message (invalid length)

Alarm Group:	TMF
Description:	Received malformed SCTP message (invalid length)
Severity:	Info
Instance:	<TransportName>
HA Score:	Normal
Throttle Seconds:	0 (zero)
OID:	awptransmgrReceivedMalformedTransSctpMessageNotify

Recovery:

1. An SCTP message was received containing a message not valid in length.
2. If the alarm persists, contact [My Oracle Support \(MOS\)](#).

19404 - Far-end closed the Transport

Event Type:	TMF
Description:	Far-end closed the Transport
Severity:	Info
Instance:	<TransportName>
HA Score:	Normal
Throttle Seconds:	10
OID:	awptransmgrFarEndClosedTheTransportNotify

Recovery:

1. The far-end of the SCTP association sent a SHUTDOWN or ABORT message to close the association. If an Initiator, the MP server automatically attempts to reestablish the connection. Connection attempts occur every "Connection Retry Interval" seconds, as defined in the Transport Configuration

Set screen for the configuration set used by the failed association (default: 10 seconds). If a Listener, the MP server will only open the socket and await further messages from the far-end.

To Troubleshoot:

- Investigate the adjacent node at the specified IP address and port to determine if it failed or if it is under maintenance.
 - Check the adjacent node for alarms or logs that might indicate the cause for their closing the association.
2. If the alarm persists, contact [My Oracle Support \(MOS\)](#).

19405 - Transport closed due to lack of response

Event Type:	TMF
Description:	Transport closed due to lack of response
Severity:	Info
Instance:	<TransportName>
HA Score:	Normal
Throttle Seconds:	10
OID:	awptransmgrTransportClosedDueToLackOfResponseNotify

Recovery:

1. The adjacent node at the specified IP address and port failed to respond to attempts to deliver an SCTP DATA packet or SCTP heartbeat. If an SCTP Initiator, the transport is closed and the MP server automatically attempts to reestablish the connection. Connection attempts occur every "Connection Retry Interval" seconds, as defined in the Transport Configuration Set screen for the configuration set used by the failed transport (default: 10 seconds). If a Listener, the MP server will only open the socket and await further messages from the far-end.

To troubleshoot:

- Verify that IP network connectivity still exists between the MP server and the adjacent server.
 - Verify that the timers in the transport's configuration set are not set too short to allow the signaling to succeed. This should be rare if the IP network is functioning correctly.
 - Check the event history logs at **Main Menu > Alarms & Events > View History** for additional SS7 events or alarms from this MP server.
 - Verify that the adjacent server on the Signaling Gateway is not under maintenance.
2. If the alarm persists, contact [My Oracle Support \(MOS\)](#).

19406 - Local Transport maintenance state change

Event Type:	TMF
Description:	Local Transport maintenance state change
Severity:	Info
Instance:	<TransportName>

HA Score: Normal
Throttle Seconds: 0 (zero)
OID: awptransmgrLocalTransportMaintenanceStateChangeNotify

Recovery:

1. No customer action is necessary if this was an expected change due to some maintenance activity. Otherwise, security logs can be examined on the NO/SO server to determine which user changed the administrative state.

Transport status can be viewed using **Main Menu > Transport Manager > Maintenance > Transport**.

2. If the alarm persists, contact [My Oracle Support \(MOS\)](#).

19407 - Failed to send Transport DATA Message

Event Type: TMF
Description: Failed to send Transport DATA Message
Severity: Info
Instance: <TransportName>, <TransportAdapter>, <TransportProtocol>
HA Score: Normal
Throttle Seconds: 10
OID: awptransmgrFailedToSendTransDataMessageNotify

Recovery:

1. An attempt to send an SS7 M3UA/ENUM DATA message has failed. The message has been discarded.

For SCTP, Possible reasons for the failure include:

- The far-end is slow to acknowledge the SCTP packets sent by the MP server, causing the MP server's SCTP send buffer to fill up to the point where the message cannot be queued for sending.
- The socket has closed just as the send was being processed.

To Troubleshoot:

- Check the event history logs at **Main Menu > Alarms & Events > View History** for additional SS7 events or alarms from this MP server.
- Verify that the adjacent server on the Signaling Gateway is not under congestion. The MP server will have alarms to indicate the congestion if this is the case.

2. If the alarm persists, contact [My Oracle Support \(MOS\)](#).

19408 - Single Transport Egress-Queue Utilization

Alarm Group: TMF

Description:	The percent utilization of the MP's single Transport Egress-Queue is approaching its maximum capacity
Severity:	Based on defined Thresholds. Minor, Major, Critical Engineered Max Value = 1000
Instance:	<TransportName>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	awptransmgrTransSingleWriteQueueUtilNotify

Recovery:

1. The percent utilization of the MP's Transport Writer Queue is approaching its maximum capacity. If this problem persists and the queue reaches 100% utilization, all new egress messages from the Transport will be discarded.

This alarm should not normally occur when no other congestion alarms are asserted. This may occur for a variety of reasons:

- An IP network or Adjacent node problem may exist preventing SCTP from transmitting messages into the network at the same pace that messages are being received from the network.
- The SCTP Association Writer process may be experiencing a problem preventing it from processing events from its event queue. The alarm log should be examined from **Main Menu > Alarms & Events**.
- If one or more MPs in a server site have failed, the traffic will be distributed amongst the remaining MPs in the server site. MP server status can be monitored from **Main Menu > Status & Control > Server Status**.
- The mis-configuration of Adjacent Node IP routing may result in too much traffic being distributed to the MP. Each MP in the server site should be receiving approximately the same ingress transaction per second.
- There may be an insufficient number of MPs configured to handle the network traffic load. The ingress traffic rate of each MP can be monitored from **Main Menu > Status & Control > KPI Display**. If all MPs are in a congestion state then the offered load to the server site is exceeding its capacity.

2. If the alarm persists, contact [My Oracle Support \(MOS\)](#).

19409 - Message Rejected by ACL Filtering

Event Type:	TMF
Description:	The message is rejected based on configured Access Control List for Transport
Severity:	Info
Instance:	<TransportName>
HA Score:	Normal
Throttle Seconds:	10
OID:	awptransmgrMessageRejectedByAclFilteringNotify

Recovery:

1. Verify that the ENUM server's IP address is the ACL, or that the ACL is empty.
2. If the alarm persists, contact [My Oracle Support \(MOS\)](#).

19410 - Adjacent Node IP Address state change

Event Type:	TMF
Description:	State change of an IP Address of a multihomed Adjacent Node in SCTP Transport
Severity:	Info
Instance:	<TransportName>
HA Score:	Normal
Throttle Seconds:	0 (zero)
OID:	awptransmgrAdjIpAddrStateChangeNotify

Recovery:

1. Verify that IP network connectivity still exists between the MP server and the adjacent server.
2. If the alarm persists, contact [My Oracle Support \(MOS\)](#).

19411 - SCTP Transport closed due to failure of multihoming validation

Event Type:	TMF
Description:	SCTP Transport closed due to failure of multihoming validation
Severity:	Info
Instance:	<TransportName>, <TransportId>
HA Score:	Normal
Throttle Seconds:	0 (zero)
OID:	awptransmgrSctpTransportRefusedNotify

Recovery:

1. Recheck the Adjacent Node's configure IP Address and validation mode.
2. If alarm persists, contact [My Oracle Support \(MOS\)](#).

19412 - SCTP Transport configuration mismatched for Adjacent Node IP

Event Type:	TMF
Description:	IP address advertised by an Adjacent Node in INIT/INIT-ACK chunk are different from configured IP Addresses
Severity:	Info

Instance:	<TransportName>
HA Score:	Normal
Throttle Seconds:	0 (zero)
OID:	awptransmgrSctpTransportCfgMismatchNotify

Recovery:

1. Recheck the Configured IP Address and Transport configuration and validation mode.
2. If the alarm persists, contact [My Oracle Support \(MOS\)](#).

19413 - SCTP Transport closed due to unsupported peer address event recieved.

Alarm Group:	TMF
Description:	SCTP Transport closed due to unsupported add/delete peer IP Address event recieved in Peer Address Notification
Severity:	Info
Instance:	<TransportName>
HA Score:	Normal
Throttle Seconds:	0 (zero)
OID:	awptransmgrTransportClosedDueToUnsupportedEventNotify

Recovery:

1. Disable SCTP Dynamic Address Reconfiguration at the Adjacent Node.
2. If the alarm persists, contact [My Oracle Support \(MOS\)](#).

Communication Agent, ComAgent (19800-19909)

This section provides information and recovery procedures for Communication Agent (ComAgent) alarms and events, ranging from 19800 - 19909, and lists the types of alarms and events that can occur on the system. All events have a severity of Info.

Alarms and events are recorded in a database log table. Currently active alarms can be viewed from the **Alarms & Events > View Active** GUI menu option. The alarms and events log can be viewed from the **Alarms & Events > View History** page.

19420 - BDFQFull

Alarm Group	SMS
Description	The BDF work queue depth size has reached full capacity.
Severity	Minor
Instance	N/A

HA Score	Normal
Auto Clear Seconds	0 (zero)
OID	cAFBDFQFullNotify

Recovery:

The system itself may be heavily loaded with work, causing this subsystem to also become overloaded. Check other system resources for signs of overload. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

19421 - BDFThrotl

Alarm Group	SMS
Description	The BDF subsystem is throttling traffic at sender.
Severity	Minor
Instance	N/A
HA Score	Normal
Auto Clear Seconds	0 (zero)
OID	cAFBDFThrotlNotify

Recovery:

Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

19422 - BDFInvalidPkt

Alarm Group	SMS
Description	The BDF subsystem received a StackEvent that was somehow invalid, corrupt, or could not be delivered to the application.
Severity	Info
Instance	<Source IP>
HA Score	Normal
Throttle Seconds	0 (zero)
OID	cAFBroadcastDataFrameworkInvalidStackEventNotify

Recovery:

If more messages of the same type occur, then check the site(s) and network for other possible corruption or overloaded conditions. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

19800 - Communication Agent Connection Down

Alarm Group:	CAF
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Description:	This alarm indicates that a Communication Agent is unable to establish transport connections with one or more other servers, and this may indicate that applications on the local server are unable to communicate with all of their peers. Generally this alarm is asserted when a server or the IP network is undergoing maintenance or when a connection has been manually disabled.
Severity:	Major
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	cAFConnectionDownNotify

Recovery:

1. Use **Main Menu > Alarms & Events > View History** to find additional information about the alarm.

The information can be found by locating the row with a sequence number that matches the active alarm sequence number and viewing the Additional Info column.

2. Check the event history logs at **Main Menu > Alarms & Events > View History** for additional Communication Agent events or alarms from this MP server.
3. Use **Main Menu > Communication Agent > Maintenance > Connection Status** to determine which connections on the server have abnormal status.
4. If the connection is manually disabled, then no further action is necessary.
5. Verify that the remote server is not under maintenance.
6. Verify that IP network connectivity exists between the two connection end-points.
7. Verify that the connection's local IP address and port number are configured on remote Node.
8. Verify that the Application Process using Communication Agent plug-in is running on both ends.
9. Verify that the connection's remote IP address and port correctly identify remote's listening port.
10. Contact [My Oracle Support \(MOS\)](#) for assistance.

19801 - Communication Agent Connection Locally Blocked

Alarm Group:	CAF
Description:	<p>This alarm indicates that one or more Communication Agent connections have been administratively blocked at the server asserting the alarm, and this is generally done as part of a maintenance procedure. A connection that is blocked cannot be used by applications to communicate with other servers, and so this alarm may indicate that applications are unable to communicate with their expected set of peers.</p> <p>Note: It is normal to have this alarm if the connection is in the Blocked administrative state on the near-side of the connection.</p>
Severity:	Minor

Instance: N/A

Note: This alarm is cleared when:

- Locally UNBLOCKed: An Admin Action to locally UNBLOCK the service connection and no other connection is locally blocked.
- Deleted: The MP Server/Connection is deleted.
- Failed: The Connection is terminated, due to Admin Disable action or Heartbeat failure or remote end initiated disconnection or any other reason.

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: cAFConnLocalBlockedNotify

Recovery:

1. Use **Main Menu > Alarms & Events > View History** to find additional information about the alarm.

The information can be found by locating the row with a sequence number that matches the active alarm sequence number and viewing the Additional Info column.

2. Check the event history logs at **Main Menu > Alarms & Events > View History** for additional Communication Agent events or alarms from this MP server.
3. Use **Main Menu > Communication Agent > Maintenance > Connection Status** to determine which connections on the server have abnormal status.
4. If the expected set of connections is locally blocked, then no further action is necessary.
5. To remove a the local block condition for a connection, use the **Main Menu > Communication Agent > Maintenance > Connection Status** screen and click the 'Enable' action button for the desired connection.
6. Contact [My Oracle Support \(MOS\)](#) for assistance.

19802 - Communication Agent Connection Remotely Blocked

Alarm Group: CAF

Description: This alarm indicates that one or more Communication Agent connections have been administratively blocked at a remote server connected to the server, and this is generally done as part of a maintenance procedure. A connection that is blocked cannot be used by applications to communicate with other servers, and so this alarm may indicate that applications are unable to communicate with their expected set of peers.

Note: It is normal to have this alarm if the connection is in the Blocked administrative state on the far-side of the connection.

Severity: Minor

Instance: N/A

Note: This alarm is cleared when:

- Locally UNBLOCKed: An Admin Action to locally UNBLOCK the service connection and no other connection is locally blocked.

- Deleted: The MP Server/Connection is deleted.
- Failed: The Connection is terminated, due to Admin Disable action or Heartbeat failure or remote end initiated disconnection or any other reason.

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: cAFConnRemoteBlockedNotify

Recovery:

1. Use **Main Menu > Alarms & Events > View History** to find additional information about the alarm.

The information can be found by locating the row with a sequence number that matches the active alarm sequence number and viewing the Additional Info column.

2. Check the event history logs at **Main Menu > Alarms & Events > View History** for additional Communication Agent events or alarms from this MP server.
3. Use **Main Menu > Communication Agent > Maintenance > Connection Status** to determine which connections on the server have abnormal status.
4. If the expected set of connections is locally blocked, then no further action is necessary.
5. To remove a the local block condition for a connection, use the **Main Menu > Communication Agent > Maintenance > Connection Status** screen and click the 'Enable' action button for the desired connection.
6. Contact [My Oracle Support \(MOS\)](#) for assistance.

19803 - Communication Agent stack event queue utilization

Alarm Group: CAF

Description: The percent utilization of the Communication Agent Task stack queue is approaching defined threshold capacity. If this problem persists and the queue reaches above the defined threshold utilization, the new StackEvents (Query/Response/Relay) messages for the Task can be discarded, based on the StackEvent priority and Application's Global Congestion Threshold Enforcement Mode.

Severity: Minor, Major, Critical

Instance: <ComAgent StackTask Name>

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: cAFQueueUtilNotify

Recovery:

1. Use **Main Menu > Alarms & Events** to examine the alarm log.

An IP network or Adjacent node problem may exist preventing from transmitting messages into the network at the same pace that messages are being received from the network. The Task thread may be experiencing a problem preventing it from processing events from its event queue. Contact [My Oracle Support \(MOS\)](#) for assistance.

2. Use **Main Menu > Status & Control > KPIs** to monitor the ingress traffic rate of each MP.

Each MP in the server site should be receiving approximately the same ingress transaction per second.

Contact [My Oracle Support \(MOS\)](#) for assistance.

3. If the MP ingress rate is approximately the same, there may be an insufficient number of MPs configured to handle the network traffic load.

If all MPs are in a congestion state then the offered load to the server site is exceeding its capacity.

Contact [My Oracle Support \(MOS\)](#) for assistance.

19804 - Communication Agent configured connection waiting for remote client to establish connection

Alarm Group: CAF

Description: Communication Agent configured connection waiting for remote client to establish connection. This alarm indicates that a Communication Agent is waiting for one or more far-end client MPs to initiate transport connections. Generally this alarm is asserted when a client MP or the IP network is undergoing maintenance or when a connection has been manually disabled at a client MP.

Note: It is normal to have this auto-clearing connection alarm for the remote server connections that configured manually in "Client" mode, but are not yet available for processing traffic.

Severity: Minor

Instance: N/A

Note: The alarm is cleared when a "server" connection exits the "forming" state and no other connection having "server" connect mode is in the "forming" state or the auto-clear time-out occurs.

- The MP Server/Connection is deleted
- When connection is moved to TotallyBlocked/RemotelyBlocked/InService state from Aligning
- Auto Clear
- Connection is disabled

HA Score: Normal

Auto Clear Seconds: 300 (5 min)

OID: cAFClientConnWaitNotify

Recovery:

1. Find additional information for the alarm in **Main Menu > Alarms & Events > View History** by locating the row with a sequence number that matches the active alarm sequence number and viewing the Additional Info column.

The alarm is cleared only for remote server connections that are configured manually in “Client” mode. This mode is used to listen for connection requests from configured remote clients.

- The MP Server/Connection is deleted
 - When connection is moved to TotallyBlocked/RemotelyBlocked/InService state from Aligning
 - Auto Clear
 - Connection is disabled
2. Check the event history logs at **Main Menu > Alarms & Events > View History** for additional Communication Agent events or alarms from this MP server.
 3. Check **Main Menu > Communication Agent > Maintenance > Connection Status** to determine which connections on the server have abnormal status.
 4. Verify that the remote server is not under maintenance.
 5. If the connection is manually disabled at the client MP, and it is expected to be disabled, then no further action is necessary.
 6. If the connection has been manually disabled at the client MP, but it is not supposed to be disabled, then enable the connection by clicking on the 'Enable' action button on the Connection Status screen.
 7. Verify that IP network connectivity exists between the two connection end-points.
 8. Verify that the connection's local IP address and port number are configured on remote client MP.
 9. Verify that the Application Process using Communication Agent plug-in is running on both ends.
 10. Verify that the connection's remote IP address and port correctly identify remote's listening port.
 11. Contact [My Oracle Support \(MOS\)](#) for assistance.

19805 - Communication Agent Failed To Align Connection

Alarm Group:	CAF
Description:	The Communication Agent failed to align connection. This alarm indicates that Communication Agent has established one or more transport connections with servers that are running incompatible versions of software, and so Communication Agent is unable to complete the alignment of the connection. A connection that fails alignment cannot be used by applications to communicate with other servers, and so this alarm may indicate that applications are unable to communicate with their expected set of peers.
Severity:	Major
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	cAFConnAlignFailedNotify
Recovery:	
	<ol style="list-style-type: none"> 1. If the connection administrative action is set to ‘disable’, the alarm is cleared. No further action is necessary. 2. Check the event history logs at Main Menu > Alarms & Events > View History for additional Communication Agent events or alarms from this MP server.

3. Find additional information for the alarm in **Main Menu > Alarms & Events > View History** by locating the row with a sequence number that matches the active alarm sequence number and viewing the Additional Info column.
4. Check the event history logs at **Main Menu > Alarms & Events > View History** for additional Communication Agent events or alarms from this MP server.
5. Check **Main Menu > Communication Agent > Maintenance > Connection Status** to determine which connections on the server have abnormal status.

For each connection reporting 'Aligning' connection status, determine the servers that are endpoints, and verify that the correct software is installed on each server. If incorrect software is present, then server maintenance may be required.

6. Contact [My Oracle Support \(MOS\)](#) for assistance.

19806 - Communication Agent CommMessage mempool utilization

Alarm Group:	CAF
Description:	<p>The percent utilization of the Communication Agent CommMessage mempool is approaching defined threshold capacity.</p> <p>The percent utilization of the Communication Agent internal resource pool (CommMessage) is approaching its defined capacity. If this problem persists and the usage reaches 100% utilization, ComAgent will allocate the CommMessage objects from the heap. This should not impact the functionality, but may impact performance and/or latency.</p>
Severity:	Critical, Major, Minor
Instance:	<ComAgent Process Name>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	cAFPPoolResUtilNotify

Recovery:

1. Use **Main Menu > Alarms & Events** to examine the alarm log.

An IP network or Adjacent node problem may exist preventing from transmitting messages into the network at the same pace that messages are being received from the network. The Task thread may be experiencing a problem preventing it from processing events from its internal resource queue. Contact [My Oracle Support \(MOS\)](#) for assistance.
2. Use **Main Menu > Status & Control > KPIs** to monitor the ingress traffic rate of each MP.

Each MP in the server site should be receiving approximately the same ingress transaction per second.

Contact [My Oracle Support \(MOS\)](#) for assistance.
3. If the MP ingress rate is approximately the same, there may be an insufficient number of MPs configured to handle the network traffic load.

If all MPs are in a congestion state then the ingres rate to the server site is exceeding its capacity.

Contact [My Oracle Support \(MOS\)](#) for assistance.

19807 - Communication Agent User Data FIFO Queue utilization

Alarm Group:	CAF
Description:	The percent utilization of the Communication Agent User Data FIFO Queue is approaching defined threshold capacity. If this problem persists and the queue reaches above the defined threshold utilization, the new StackEvents (Query/Response/Relay) messages for the Task can be discarded, based on the StackEvent priority and Application's Global Congestion Threshold Enforcement Mode.
Severity:	Minor, Major, Critical
Instance:	<ComAgent StackTask Name>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	cAFUserDataFIFOUtilNotify

Recovery:

1. An IP network or Adjacent node problem may exist preventing from transmitting messages into the network at the same pace that messages are being received from the network.
2. Use **Main Menu > Alarms & Events** to determine if the ComAgent worker thread may be experiencing a problem preventing it from processing events from User Data FIFO queue.
Contact [My Oracle Support \(MOS\)](#) for assistance.
3. The mis-configuration of Adjacent Node IP routing may result in too much traffic being distributed to the MP. The ingress traffic rate of each MP can be monitored from **Main Menu > Status & Control > KPIs**.
Each MP in the server site should be receiving approximately the same ingress transaction per second.
Contact [My Oracle Support \(MOS\)](#) for assistance.
4. There may be an insufficient number of MPs configured to handle the network traffic load. The ingress traffic rate of each MP can be monitored from **Main Menu > Status & Control > KPIs**.
If all MPs are in a congestion state then the offered load to the server site is exceeding its capacity.
Contact [My Oracle Support \(MOS\)](#) for assistance.

19808 - Communication Agent Connection FIFO Queue utilization

Alarm Group:	CAF
Description:	The percent utilization of the Communication Agent Connection FIFO Queue is approaching defined threshold capacity. If this problem persists and the queue reaches above the defined threshold utilization, the new ComAgent internal Connection Management StackEvents messages can be discarded based on Application's Global Congestion Threshold Enforcement Mode.

Severity:	Minor, Major, Critical
Instance:	<ComAgent StackTask Name>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	cAFMxFIFOUtilNotify

Recovery:

1. An IP network or Adjacent node problem may exist preventing from transmitting messages into the network at the same pace that messages are being received from the network.
2. Use **Main Menu > Alarms & Events** to determine if the ComAgent worker thread may be experiencing a problem preventing it from processing events from ComAgent Connection FIFO queue.

Contact [My Oracle Support \(MOS\)](#) for assistance.

3. The mis-configuration of Adjacent Node IP routing may result in too much traffic being distributed to the MP. The ingress traffic rate of each MP can be monitored from **Main Menu > Status & Control > KPIs**.

Each MP in the server site should be receiving approximately the same ingress transaction per second.

Contact [My Oracle Support \(MOS\)](#) for assistance.

4. There may be an insufficient number of MPs configured to handle the network traffic load. The ingress traffic rate of each MP can be monitored from **Main Menu > Status & Control > KPIs**.

If all MPs are in a congestion state then the offered load to the server site is exceeding its capacity.

Contact [My Oracle Support \(MOS\)](#) for assistance.

19810 - Communication Agent Egress Message Discarded

Event Type:	CAF
Description:	<p>The Communication Agent egress message is being discarded due to one of the following reasons:</p> <ul style="list-style-type: none"> • Unknown destination server • Connection state is not InService • Incompatible destination • Serialization failed • MxEndpoint send failed • Internal error
Severity:	Info
Instance:	<RemoteIP>
	<p>Note: If <RemoteIP> is not known at the time of message discard, then "Unknown" will be used.</p>

HA Score: Normal
Throttle Seconds: 10
OID: cAFEventEgressMessageDiscardedNotify

Recovery:

1. View the Event AddlInfo column.
Message is being discarded due to one of the reasons specified.
2. If it's a persistent condition with the status of one of the Communication Agent Configuration Managed Object then resolve the underlying issue with the Managed Object.
3. If the event is raised due to software condition, It's an indication that the Communication Agent Process may be experiencing problems.
4. Use **Main Menu > Alarms & Events** and examine the alarm log.
5. Contact [My Oracle Support \(MOS\)](#) for assistance.

19811 - Communication Agent Ingress Message Discarded

Event Type: CAF
Description: Communication Agent Ingress Message Discarded.
Severity: Info
Instance: <RemoteIP>
HA Score: Normal
Throttle Seconds: 10
OID: cAFEventIngressMessageDiscardedNotify

Recovery:

1. View the Event AddlInfo column.
Message is being discarded due to one of the reasons specified.
2. If it's a persistent condition with the status of one of the Communication Agent Configuration Managed Object then resolve the underlying issue with the Managed Object.
3. If the event is raised due to software condition, it is an indication that the Communication Agent Process may be experiencing problems.
4. Use **Main Menu > Alarms & Events** and examine the alarm log.
5. Contact [My Oracle Support \(MOS\)](#) for assistance.

19814 - Communication Agent Peer has not responded to heartbeat

Event Type: CAF
Description: Communication Agent Peer has not responded to heartbeat.
Severity: Info
Instance: <RemoteIP>

HA Score: Normal
OID: cAFEventHeartbeatMissedNotify

Recovery:

1. Check the configuration of managed objects and resolve any configuration issues with the Managed Object or hosting nodes.

This message may be due to network condition or latency or due to setup issues.

2. If the event is raised due to software condition, It's an indication that the Communication Agent Process may be experiencing problems.
3. Use **Main Menu > Alarms & Events** and examine the alarm log.
4. Contact [My Oracle Support \(MOS\)](#) for assistance.

19816 - Communication Agent Connection State Changed

Event Type: CAF
Description: Communication Agent Connection State Changed.
Severity: Info
Instance: <RemoteIP>
HA Score: Normal
OID: cAFEventConnectionStateChangeNotify

Recovery:

1. Use **Main Menu > Alarms & Events** and examine the alarm log.
 This Event is a log of connection state change.
2. Contact [My Oracle Support \(MOS\)](#) for assistance.

19817 - Communication Agent DB Responder detected a change in configurable control option parameter

Event Type: CAF
Description: Communication Agent DB Responder detected a change in configurable control option parameter.
Note: This event is an indication that Communication Agent detected a control parameter change. The change will be applied to applicable software component. If the change is applied on the GUI, the appropriate GUI action is logged in security logs. If the action is not performed from GUI and the control parameter is changed, this event indicates the executed change.
Severity: Info
Instance: N/A
HA Score: Normal

OID: cAFEventComAgtConfigParamChangeNotify

Recovery:

1. Use **Main Menu > Alarms & Events** and examine the alarm log.
2. Use **Main Menu > Security Log** and examine the alarm log.
3. If the event shows up in **Main Menu > Alarms & Events**, without the corresponding GUI security-log in **Main Menu > Security Log**. Contact [My Oracle Support \(MOS\)](#) for assistance.

19818 - Communication Agent DataEvent Mempool utilization

Event Type: CAF

Description: The percent utilization of the Communication Agent DataEvent Mempool is approaching defined threshold capacity.

Severity: Minor, Major, Critical

Instance: <ComAgent Process>

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: cAFDataEvPoolResUtilNotify

Recovery:

If the problem persists, contact [My Oracle Support \(MOS\)](#).

19820 - Communication Agent Routed Service Unavailable

Alarm Group: CAF

Description: This alarm indicates that all connections of all connection groups associated with a Routed Service are unavailable. This generally occurs when far-end servers have been removed from service by maintenance actions. This can also occur if all of the Routed Service's connections have been either disabled or blocked.

Severity: Major

Instance: <RoutedServiceName>

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: cAFRSUnavailNotify

Recovery:

1. Use **Main Menu > Communication Agent > Maintenance > Routed Service Status** to view the connection groups and connections associated with the Routed Service.
2. Use **Main Menu > Communication Agent > Maintenance > Connection Status** to view the the reasons why connections are unavailable.

3. Use **Main Menu > Status & Manage > Server** to confirm that the far-end servers have an application state of enabled, and that their subsystems are operating normally.

It is possible that this alarm results from conditions at the far-end servers connected to the server that asserted this alarm.

4. Contact [My Oracle Support \(MOS\)](#) for assistance.

19821 - Communication Agent Routed Service Degraded

Alarm Group:	CAF
Description:	This alarm indicates that some, but not all, connections are unavailable in the connection group being used by a Communication Agent Routed Service to route messages. The result is that the server that posted this alarm is not load-balancing traffic across all of the connections configured in the connection group.
Severity:	Major
Instance:	<ServiceName>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	cAFRSDegradedNotify

Recovery:

1. Use **Main Menu > Communication Agent > Maintenance > Routed Service Status** to view the connection groups and connections associated with the Routed Service.
2. Use **Main Menu > Communication Agent > Maintenance > Connection Status** to view the reasons why connections are unavailable.
3. Use **Main Menu > Status & Manage > Server** to confirm that the far-end servers have an application state of enabled, and that their subsystems are operating normally.

It is possible that this alarm results from conditions at the far-end servers connected to the server that asserted this alarm.

4. Contact [My Oracle Support \(MOS\)](#) for assistance.

19822 - Communication Agent Routed Service Congested

Alarm Group:	CAF
Description:	This alarm indicates that a routed service is load-balancing traffic across all connections in a connection group, but all of the connections are experiencing congestion. Messages may be discarded due to congestion.
Severity:	Major
Instance:	<ServiceName>
HA Score:	Normal

Auto Clear Seconds: 0 (zero)
OID: cAFRSCongestedNotify

Recovery:

1. Use **Main Menu > Communication Agent > Maintenance > Routed Service Status** to view the connection groups and connections associated with the Routed Service.
2. Use **Main Menu > Communication Agent > Maintenance > Connection Status** to view the are congested and the degree to which they are congested.
3. Check the far-end of the congested connections in order to further isolate the cause of congestion.

If the far-end servers are overloaded, then it is possible that the system is being presented a load that exceeds its engineered capacity. If this is the case, then either the load must be reduced, or additional capacity must be added.

4. Contact [My Oracle Support \(MOS\)](#) for assistance.

19823 - Communication Agent Routed Service Using Low-Priority Connection Group

Alarm Group: CAF
Description: Communication Agent routed service is routing traffic using a connection group that has a lower-priority than another connection group.
Severity: Major
Instance: <ServiceName>
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: cAFRSUsingLowPriConnGrpNotify

Recovery:

1. Use **Main Menu > Communication Agent > Maintenance > Routed Service Status** to view the connection groups and connections associated with the Routed Service.
2. Use **Main Menu > Communication Agent > Maintenance > Connection Status** to view the reasons why connections are unavailable.
3. Use **Main Menu > Status & Manage > Server** to confirm that the far-end servers have an application state of enabled, and that their subsystems are operating normally.

It is possible that this alarm results from conditions at the far-end servers connected to the server that asserted this alarm.

4. Contact [My Oracle Support \(MOS\)](#) for assistance.

19824 - Communication Agent Pending Transaction Utilization

Alarm Group: CAF
Description: The ComAgent Reliable Transfer Function is approaching or exceeding its engineered reliable transaction handling capacity.

Severity:	Minor, Major, Critical
Instance:	n/a (ComAgent process)
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	cAFTransUtilNotify

Recovery:

1. Use **Main Menu > Status & Control > Server Status** to view MP server status.
2. Remote server is slow in responding to outstanding transaction with correlation resource in-use. The mis-configuration of ComAgent Server/Client routing may result in too much traffic being distributed to affected connection for MP.
3. There may be an insufficient number of server application MPs configured to handle the internal traffic load. If server application MPs are in a congestion state then the offered load to the server site is exceeding its capacity.
4. Use **Main Menu > Alarm & Events** and examine the alarm log.
The system may be experiencing network problems.
The Communication Agent Process may be experiencing problems.
5. Contact [My Oracle Support \(MOS\)](#) for assistance.

19825 - Communication Agent Transaction Failure Rate

Alarm Group:	CAF
Description:	The number of failed transactions during the sampling period has exceeded configured thresholds.
Severity:	Minor, Major, Critical
Instance:	<ServiceName>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	cAFTransFailRateNotify

Recovery:

1. Use **Main Menu > Status & Control > Server Status** to view MP server status.
2. Remote server is slow in responding to outstanding transaction with correlation resource in-use. The mis-configuration of ComAgent Server/Client routing may result in too much traffic being distributed to affected connection for MP.
3. There may be an insufficient number of server application MPs configured to handle the internal traffic load. If server application MPs are in a congestion state then the offered load to the server site is exceeding its capacity.
4. Use **Main Menu > Alarm & Events** and examine the alarm log.
The system may be experiencing network problems.
The Communication Agent Process may be experiencing problems.

5. Contact [My Oracle Support \(MOS\)](#) for assistance.

19826 - Communication Agent Connection Congested

Alarm Group:	CAF
Description:	This alarm indicates that Communication Agent is experiencing congestion in communication between two servers, and this can be caused by a server becoming overloaded or by network problems between two servers.
Severity:	Major
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	cAFConnCongestedNotify

Recovery:

1. Find additional information for the alarm in **Main Menu > Alarms & Events > View History** by locating the row with a sequence number that matches the active alarm sequence number and viewing the Additional Info column.
2. Check the event history logs at **Main Menu > Alarms & Events > View History** for additional Communication Agent events or alarms from this MP server.
3. Check **Main Menu > Communication Agent > Maintenance > Connection Status** to determine which connections on the server have abnormal status.
4. If the Remote MP Overload Level (OL) > 0 then determine why the remote server is congested.
 - a) Verify that the remote server is not under maintenance.
 - b) Examine the remote's CPU utilization.
 - c) Examine the remote's current alarms.
5. If the local server's Transport Congestion Level (TCL) > 0 then determine why the connection is not handling the load.
 - a) The remote may be overload by traffic from other MPs.
 - b) The local server may be trying to send too much traffic to the remote.
 - c) The IP connectivity may be impaired.
6. Contact [My Oracle Support \(MOS\)](#) for assistance.

19827 - SMS stack event queue utilization

Alarm Group:	SMS
Description:	The percent utilization of the SMS Task stack queue is approaching defined threshold capacity.
Severity:	Minor, Major, Critical
Instance:	<SMS Thread/Queue Index>
HA Score:	Normal

Auto Clear Seconds: 0 (zero)
OID: cAFSmsQueueUtilNotify

Recovery:

1. The system itself may be heavily loaded with work, causing this subsystem to also become overloaded. Check other system resources (ComAgent Congestion, Cpu Utilization, and Server Congestion are some examples) for signs of overload.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#) for assistance.

19830 - Communication Agent Service Registration State Change

Event Type: CAF
Description: Communication Agent Service Registration State Change.
Severity: Info
Instance: <ServiceName>
HA Score: Normal
OID: cAFEventComAgtSvcRegChangedNotify

Recovery:

This event is a log of normal application startup and shutdown activity. It may provide aid during troubleshooting when compared to other events in the log.

19831 - Communication Agent Service Operational State Changed

Event Type: CAF
Description: Communication Agent Service Operational State Changed.
Severity: Info
Instance: <ServiceName>
HA Score: Normal
OID: cAFEventComAgtSvcOpStateChangedNotify

Recovery:

1. This event indicates that a Communication Agent service changed operational state, and typically results from maintenance actions.
 A service can also change state due to server overload.
2. If the state change is unexpected, then Contact [My Oracle Support \(MOS\)](#) for assistance.

19832 - Communication Agent Reliable Transaction Failed

Event Type: CAF

Description:	Failed transaction between servers result from normal maintenance actions, overload conditions, software failures, or equipment failures.
Severity:	Info
Instance:	<ServiceName>, <RemoteIP> <null> <ul style="list-style-type: none"> • If serviceID is InvalidServiceID, then <ServiceName> is "EventTransfer". • If <ServiceName> is "EventTransfer", then include <RemoteIP>. • If serviceID is unknown, then <ServiceName> is null.
HA Score:	Normal
Throttle Seconds:	10
OID:	cAFEventComAgtTransFailedNotify

Recovery:

1. Use **Main Menu > Communication Agent > Maintenance > Connection Status** to determine if the local server is unable to communicate with another server or if servers have become overloaded.
2. Check the server's KPIs and the **Main Menu > Communication Agent > Maintenance > Connection Status** to trouble-shoot the cause of server overload.
3. Check the **Main Menu > Communication Agent > Maintenance > HA Status** that corresponds to the ServiceID in the event instance to trouble-shoot the operation of the service.
4. If the event cannot be explained by maintenance actions, then Contact [My Oracle Support \(MOS\)](#) for assistance.

19833 - Communication Agent Service Egress Message Discarded

Event Type:	CAF
Description:	Communication Agent Service Egress Message Discarded.
Severity:	Info
Instance:	<ServiceName> <ul style="list-style-type: none"> • If serviceID is unknown, then <ServiceName> is null.
HA Score:	Normal
Throttle Seconds:	10
OID:	cAFEventRoutingFailedNotify

Recovery:

1. View the Event AddlInfo column.
Message is being discarded due to one of the reasons specified.
2. If it's a persistent condition with the status of one of the Communication Agent Configuration Managed Object then resolve the underlying issue with the Managed Object.
3. If the event is raised due to software condition, it's an indication that the Communication Agent Process may be experiencing problems.
4. Use **Main Menu > Alarms & Events** and examine the alarm log.

5. Contact [My Oracle Support \(MOS\)](#) for assistance.

19842 - Communication Agent Resource-Provider Registered

Event Type:	CAF
Description:	Communication Agent Resource-Provider Registered.
Severity:	Info
Instance:	<ResourceName>
HA Score:	Normal
OID:	cAFEventResourceProviderRegisteredNotify
Recovery:	No action required.

19843 - Communication Agent Resource-Provider Resource State Changed

Event Type:	CAF
Description:	Communication Agent Resource-Provider Resource State Changed.
Severity:	Info
Instance:	<ProviderServerName>: <ResourceName>
HA Score:	Normal
OID:	cAFEventResourceStateChangeNotify
Recovery:	No action required.

19844 - Communication Agent Resource-Provider Stale Status Received

Event Type:	CAF
Description:	Communication Agent Resource-Provider Stale Status Received.
Severity:	Info
Instance:	<ProviderServerName>: <ResourceName>
HA Score:	Normal
Throttle Seconds:	10
OID:	cAFEventStaleHBPacketNotify
Recovery:	If this event is occurring frequently then check the ComAgent maintenance screens for other anomalies and to troubleshoot further.

19845 - Communication Agent Resource-Provider Deregistered

Event Type:	CAF
Description:	Communication Agent Resource-Provider Deregistered.
Severity:	Info
Instance:	<ResourceName>
HA Score:	Normal
OID:	cAFEventResourceProviderDeRegisteredNotify
Recovery:	No action required.

19846 - Communication Agent Resource Degraded

Alarm Group:	CAF
Description:	Communication Agent Resource Degraded. A local application is using the resource, identified in the alarm, and the access to the resource is impaired. Some of the resource providers are either unavailable and/or congested.
Severity:	Major
Instance:	<ResourceName>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	cAFResourceCongestedNotify
Recovery:	<ol style="list-style-type: none"> 1. Use Main Menu > Communication Agent > Maintenance > HA Services Status to determine which sub-resources are unavailable or degraded for the server that asserted the alarm. 2. Use Main Menu > Communication Agent > Maintenance > Connection Status to determine if connections have failed or have congested. 3. Contact My Oracle Support (MOS) for assistance.

19847 - Communication Agent Resource Unavailable

Alarm Group:	CAF
Description:	Communication Agent Resource Unavailable. A local application needs to use a ComAgent resource, but the resource is unavailable. The resource can be unavailable if the local server has no ComAgent connections to servers providing the resource or no servers host active instances of the resource's sub-resources.
Severity:	Major

Instance: <ResourceName>
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: cAFResourceUnavailNotify

Recovery:

1. Use **Main Menu > Communication Agent > Maintenance > Connection Status** to verify that the local server is connected to the expected servers.

If the local server reports unavailable connections, then take actions to troubleshoot the cause of the connection failures.
2. If the ComAgent connections are InService, use **Main Menu > Communication Agent > Maintenance > HA Services Status** to determine which servers are providing the resource.

If no servers are providing the resource, then the most likely reason is that maintenance actions have been taken that have removed from service the application that provides the concerned resource.
3. Contact [My Oracle Support \(MOS\)](#) for assistance.

19848 - Communication Agent Resource Error

Alarm Group: CAF
Description: Communication Agent Resource Error. Two sets of servers are using incompatible configurations for a ComAgent resource.

Severity: Minor
Instance: <ResourceName>
HA Score: Normal
Auto Clear Seconds: 50
OID: cAFResourceErrorNotify

Recovery:

1. Use **Main Menu > Communication Agent > Maintenance > HA Services Status** to determine which sets of servers are incompatible.

Check the incompatible servers to verify that they are operating normally and are running the expected versions of software.
2. Contact [My Oracle Support \(MOS\)](#) for assistance.

19850 - Communication Agent Resource-User Registered

Event Type: CAF
Description: Communication Agent Resource-User Registered.

Severity: Info
Instance: <ResourceName>
HA Score: Normal
OID: cAFEEventResourceUserRegisteredNotify
Recovery:
No action required.

19851 - Communication Agent Resource-User Deregistered

Event Type: CAF
Description: Communication Agent Resource-User Deregistered.
Severity: Info
Instance: <ResourceName>
HA Score: Normal
OID: cAFEEventResourceUserDeRegisteredNotify
Recovery:
No action required.

19852 - Communication Agent Resource Routing State Changed

Event Type: CAF
Description: Communication Agent Resource Routing State Changed.
Severity: Info
Instance: <ResourceName>
HA Score: Normal
OID: cAFEEventResourceRoutingStateNotify
Recovery:
No action required.

19853 - Communication Agent Resource Egress Message Discarded

Event Type: CAF
Description: Communication Agent Resource Egress Message Discarded.
Severity: Info

Instance: <ResourceName>: <SubResourceID>

Note: If the resource is unknown, then <ResourceName> is the ResourceID converted to text. The <SubResourceID> is an integer converted to text, regardless of whether it is known or unknown.

HA Score: Normal

Throttle Seconds: 10

OID: cAFEventHaEgressMessageDiscardedNotify

Recovery:

1. Message is being discarded due to one of the reasons specified in Event AddlInfo.

If the condition is persistent with the status of one of the ComAgent Configuration Managed Objects there is an underlying issue with the Managed Object.

2. Use **Main Menu > Alarms & Events** and examine the alarm log for ComAgent Process problems.
3. Contact [My Oracle Support \(MOS\)](#) for assistance.

19854 - Communication Agent Resource-Provider Tracking Table Audit Results

Event Type: CAF

Description: Communication Agent Resource-Provider Tracking Table Audit Results. This event is generated when a Resource Provider Tracking Table (RPTT) entry with Status equal to Auditing is replaced with a new status (null, Active, Standby, Spare, OOS, etc) and there are no other RPTT entries, for this specific Resource/SR, with Status equal to Auditing.

Severity: Info

Instance: None

HA Score: Normal

OID: cAFEventHaRPTTAuditResultNotify

Recovery:

No action required.

19855 - Communication Agent Resource Has Multiple Actives

Alarm Group: CAF

Description: This alarm indicates a possible IP network disruption that has caused more than one Resource Provider to become Active. The server that asserted this alarm expects there to be only one active Resource Provider server for the Resource, but instead it is seeing more than one. During this condition the server may be sending commands to the wrong Resource Provider. This may affect applications such as CPA, PDRA.

Severity: Major

Instance: <ResourceName>

HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: cAFMultipleActivesNotify

Recovery:

1. Use **Main Menu > Communication Agent > Maintenance > HA Services Status** to determine which Resource Provider servers are announcing 'Active' status for the Resource.
2. Investigate possible IP network isolation between these Resource Provider servers.
3. Contact [My Oracle Support \(MOS\)](#) for assistance.

19856 - Communication Agent Service Provider Registration State Changed

Event Type: CAF
Description: The Communication Agent Service Provider Registration State has changed.
Severity: Info
Instance: <ServiceName>
HA Score: Normal
OID: cAFEvtSvcProvRegStateChangedNotify

Recovery:

1. This event is a log of normal application startup and shutdown activity. It may provide aid during troubleshooting when compared to other events in the log.
2. Contact [My Oracle Support \(MOS\)](#) for further assistance.

19857 - Communication Agent Service Provider Operational State Changed

Event Type: CAF
Description: The Communication Agent Service Provider Operational State has Changed
Severity: Info
Instance: <ServiceName>
HA Score: Normal
OID: cAFEvtSvcProvOpStateChangedNotify

Recovery:

1. This event indicates that a ComAgent service provider changed operational state, and typically results from maintenance actions. A service can also change state due to overload.
2. If the state change is unexpected, contact [My Oracle Support \(MOS\)](#).

19858 - Communication Agent Connection Rejected

Event Type:	CAF
Description:	The Communication Agent receives a connection request from an unknown server.
Severity:	Info
Instance:	<RemoteIP>
HA Score:	Normal
Throttle Seconds:	1800 (30 minutes)
OID:	cAFEventSvcProvOpStateChangedNotify

Recovery:

1. Verify network routes are correctly configured for ComAgent.
2. If assistance is required, contact [My Oracle Support \(MOS\)](#).

19860 - Communication Agent Configuration Daemon Table Monitoring Failure

Alarm Group:	CAF
Description:	This alarm indicates that a Communication Agent Configuration Daemon has encountered an error that prevents it from properly using server topology configuration data to configure automatic connections for the Communication Agents on MPs, and this may prevent applications on MPs from communicating.
Severity:	Critical
Instance:	None
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	cAFTableMonitorFailureNotify

Recovery:

1. Use **Main Menu > Alarms & Events > View History** to find additional information about the alarm.

The information can be found by locating the row with a sequence number that matches the active alarm sequence number and viewing the Additional Info column.

2. Check the event history logs at **Main Menu > Alarms & Events > View History** for additional Communication Agent events or alarms from this MP server.
3. If conditions do not permit a forced failover of the active NOAM, then contact [My Oracle Support \(MOS\)](#) for assistance.
4. If conditions permit, then initiate a failover of active NOAM.

This causes the Communication Agent Configuration Daemon to exit on the originally-active NOAM and to start on the newly-active NOAM.

5. After NOAM failover completes, verify that the alarm has cleared.
6. If the alarm has not cleared, then Contact [My Oracle Support \(MOS\)](#) for assistance.

19861 - Communication Agent Configuration Daemon Script Failure

Alarm Group:	CAF
Description:	This alarm indicates that a Communication Agent Configuration Daemon has encountered an error that prevents it from properly using server topology configuration data to configure automatic connections for the Communication Agents on MPs, and this may prevent applications on MPs from communicating.
Severity:	Critical
Instance:	None
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	cAFScriptFailureNotify

Recovery:

1. Use **Main Menu > Alarms & Events > View History** to find additional information about the alarm.

The information can be found by locating the row with a sequence number that matches the active alarm sequence number and viewing the Additional Info column.
2. Check the event history logs at **Main Menu > Alarms & Events > View History** for additional Communication Agent events or alarms from this server.
3. If conditions do not permit a forced failover of the active NOAM, then contact [My Oracle Support \(MOS\)](#) for assistance.
4. If conditions permit, then initiate a failover of active NOAM.

This causes the Communication Agent Configuration Daemon to exit on the originally-active NOAM and to start on the newly-active NOAM.
5. After NOAM failover completes, verify that the alarm has cleared.
6. If the alarm has not cleared, then Contact [My Oracle Support \(MOS\)](#) for assistance.

19862 - Communication Agent Ingress Stack Event Rate

Alarm Group:	CAF
Description:	The Communication Agent Ingress Stack Event Rate is approaching its defined threshold capacity.
Severity:	<ul style="list-style-type: none"> • Minor - if exceeding 100K on Gen8/Gen9 hardware, 75k on other hardware • Major - if exceeding 110K on Gen8/Gen9 hardware, 80k on other hardware

- Critical - if exceeding 120K on Gen8/Gen9 hardware, 84k on other hardware

Instance: <ServiceName>
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: cAFIngressRateNotify

Recovery:

1. This alarm indicates that a server is overrunning its defined processing capacity. If any of the defined threshold onset levels are exceeded, Communication Agent will discard comparatively low priority messages. Check the configuration, routing, and deployment mode capacity.
2. Contact [My Oracle Support \(MOS\)](#) for further assistance.

19863 - Communication Agent Max Connections Limit In Connection Group Reached

Event Group: CAF
Description: The maximum number of connections per connection group limit has been reached.
Severity: Info
Instance: <Connection group name>
HA Score: Normal
Throttle Seconds: 10
OID: cAFComAgentMaxConnsInConnGrpNotify

Recovery:

1. This event indicates that a connection group has already reached its maximum limit and no more connections can be added to the group. Determine what is preventing potential connections from being added to the connection group.
2. Contact [My Oracle Support \(MOS\)](#) for further assistance.

19864 - ComAgent Successfully Set Host Server Hardware Profile

Event Group: CAF
Description: ComAgent successfully set the host server hardware profile.
Severity: Info
Instance: None
HA Score: Normal
OID: cAFEventSuccessSetHostServerHWProfileNotify

Recovery:

1. This event indicates that all TPS controlling parameter values are successfully set for the host server hardware profile.
2. If needed, contact [My Oracle Support \(MOS\)](#).

19865 - ComAgent Failed to Set Host Server Hardware Profile

Event Group:	CAF
Description:	ComAgent failed to set the host server hardware profile.
Severity:	Info
Instance:	None
HA Score:	Normal
OID:	cAFEventFailToSetHostServerHWProfileNotify

Recovery:

1. This event indicates that there is a failure in applying default hardware settings for ComAgent TPS controlling parameters. When default settings also fail to apply, then the factory values will be used for the TPS controlling parameters.
2. If needed, contact [My Oracle Support \(MOS\)](#).

19866 - Communication Agent Peer Group Status Changed

Event Type:	CAF
Description:	The Communication Agent Peer Group operational status has changed
Severity:	Info
Instance:	<PeerGroupName>
HA Score:	Normal
OID:	cAFEventPeerGroupStatusChangeNotify

Recovery:

This alarm is informational and no action is required.

19867 - Communication Agent Peer Group Egress Message Discarded

Event Type:	CAF
Description:	<p>The Communication Agent Peer Group egress message is being discarded due to one of the following reasons:</p> <ul style="list-style-type: none"> • Unknown Peer Group • Peer Group Unavailable • Peer Congested • Reliability not supported

Severity:	Info
Instance:	<PeerGroupName>
HA Score:	Normal
Throttle Seconds:	10
OID:	cAFEventPSEgressMessageDiscardedNotify
Recovery:	This alarm is informational and no action is required.

19868 - Communication Agent Connection Rejected - Incompatible Network

Event Type:	CAF
Description:	Communication Agent connection rejected. Connection to the peer node is not initiated due to network incompatibility. This event will be raised on the connection initiator side when the connection initiator MP has only IPv6 IP addresses configured and Remote MP has only IPv4 IP addresses configured or when connection initiator MP has only IPv4 IP addresses configured and Remote MP has only IPv6 IP addresses configured.
Severity:	Info
Instance:	<RemoteIP>
HA Score:	Normal
OID:	cAFEventConnectionRejectNotify
Recovery:	<ol style="list-style-type: none"> 1. Disable both sides of the connection. 2. Configure the correct network modes on either server. 3. Restart the application on the reconfigured server. 4. Enable both sides of the connection. 5. Contact My Oracle Support (MOS) for assistance if needed.

19900 - Process CPU Utilization

Alarm Group:	STK
Description:	The Process, which is responsible for handling all Signaling traffic, is approaching or exceeding its engineered traffic handling capacity.
Severity:	Critical, Major, Minor
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	dbcProcessCpuUtilizationNotify

Recovery:

1. Use **Main Menu > Status & Control > KPIs** to monitor the ingress traffic rate of each MP.
 - The mis-configuration of Server/Client routing may result in too much traffic being distributed to the MP. Each MP in the server site should be receiving approximately the same ingress transaction per second.
 - There may be an insufficient number of MPs configured to handle the network traffic load. If all MPs are in a congestion state then the traffic load to the server site is exceeding its capacity.
2. Use **Main Menu > Alarms & Events** to examine the alarm log.
Contact [My Oracle Support \(MOS\)](#) for assistance.

19901 - CFG-DB Validation Error

Alarm Group:	STK
Description:	A minor database validation error was detected on the MP server during an update. MP internal database is now out of sync with the configuration database. Subsequent database operations on the MP are ALLOWED.
Severity:	Major
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	dbcCfgDbValidationErrorNotify

Recovery:

An unexpected condition has occurred while performing a database update, but database updates are still enabled.

Contact [My Oracle Support \(MOS\)](#) for assistance.

19902 - CFG-DB Update Failure

Alarm Group:	STK
Description:	A critical database validation error was detected on the MP server during an update. MP internal database is now out of sync with the configuration database. Subsequent database operations on the MP are DISABLED.
Severity:	Critical
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	dbcCfgDbUpdateFailureNotify

Recovery:

An unexpected condition has occurred while performing a database update and database updates are disabled.

Contact [My Oracle Support \(MOS\)](#) for assistance.

19903 - CFG-DB post-update Error

Alarm Group:	STK
Description:	A minor database validation error was detected on the MP server after a database update. MP internal database is still in sync with the configuration database. Subsequent database operations on the MP are ALLOWED.
Severity:	Major
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	dbcCfgDbPostUpdateErrorNotify

Recovery:

An unexpected condition has occurred while performing a database update, but database updates are still enabled.

Contact [My Oracle Support \(MOS\)](#) for assistance.

19904 - CFG-DB post-update Failure

Alarm Group:	STK
Description:	A critical database validation error was detected on the MP server after a database update. MP internal database is still in sync with the configuration database. Subsequent database operations on the MP are DISABLED.
Severity:	Critical
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	dbcCfgDbPostFailureNotify

Recovery:

An unexpected condition has occurred while performing a database update and database updates are disabled.

Contact [My Oracle Support \(MOS\)](#) for assistance.

19905 - Measurement Initialization Failure

Alarm Group:	STK
Description:	A measurement object failed to initialize.
Severity:	Critical
Instance:	<measTagName>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	dbcMeasurementInitializationFailureNotify

Recovery:

Measurement subsystem initialization has failed for the specified measurement.

Contact [My Oracle Support \(MOS\)](#) for assistance.

Diameter Signaling Router (DSR) Diagnostics (19910-19999)

This section provides information and recovery procedures for DSR alarms and events, ranging from 19910-19999, and lists the types of alarms and events that can occur on the system. All events have a severity of Info.

Alarms and events are recorded in a database log table. Currently active alarms can be viewed from the Launch Alarms Dashboard GUI menu option. The alarms and events log can be viewed from the **Alarms & Events > View History** page.

19910 - Message Discarded at Test Connection

Event Type:	DIAG
Description:	Normal traffic is being discarded because it is routed to an egress Test Connection. An egress Test Connection is given a normal message to be transmitted.
Severity:	Major
Instance:	<Connection name>
HA Score:	Normal
Auto Clear Seconds:	120
OID:	dbcNormalMessageDiscardedNotify

Recovery:

1. Update routing rules to exclude Test connections from being used for routing.

Normal traffic should be received and sent on non-test connections.

2. Change the hostname of the peer connected to the test connection.

The hostname of the peer connected to the test connection may be the destination host for the incoming normal traffic.

19911 - Test message discarded

Event Type:	DIAG
Description:	Test message is given to a non-test connection to be transmitted.
Severity:	Info
Instance:	<Connection name>
HA Score:	Normal
Throttle Seconds:	5
OID:	dbcDiagnosticMessageDiscardNotify

Recovery:

Update routing rules to exclude Test messages from being routed to non-test connection.

Test messages should be received and sent only on test connections.

Diameter Alarms and Events (8000-8299, 22000-22350, 22900-22999, 25500-25899)

8000 - MpEvFsmException

8000 - 001 - MpEvFsmException_SocketFailure

Event Type:	DIAM
Description:	DA-MP connection FSM exception.
Severity	Info
Instance	<DA-MP Name>:001
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvFsmException

Recovery

1. This event is potentially caused by the DSR process reaching its descriptor capacity.
2. This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance.

8000 - 002 - MpEvFsmException_BindFailure

Event Type	DIAM
Description	DA-MP connection FSM exception.
Severity	Info
Instance	<DA-MP Name>:002
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvFsmException

Recovery

1. Potential causes of this event are:
 - Network interface(s) are down.
 - Port is already in use by another process.
 - Configuration is invalid.
2. This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance.

8000 - 003 - MpEvFsmException_OptionFailure

Event Type	DIAM
Description	DA-MP connection FSM exception.
Severity	Info
Instance	<DA-MP Name>:003
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvFsmException

Recovery

1. Potential causes of this event are:
 - DSR process is not running with root permission.
 - Configuration is invalid.
2. This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance.

8000 - 004 - MpEvFsmException_AcceptorCongested

Event Type	DIAM
Description	DA-MP connection FSM exception.
Severity	Info
Instance	<DA-MP Name>:004

HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvFsmException

Recovery

This event is potentially caused by a network or upgrade event that resulted in a synchronization of peer connection attempts.

Note: The rate will ease over time as an increasing number of connections are accepted.

8000 - 101 - MpEvFsmException_ListenFailure

Event Type	DIAM
Description	DA-MP connection FSM exception.
Severity	Info
Instance	<DA-MP Name>:101
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvFsmException

Recovery

This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance.

8000 - 102 - MpEvFsmException_PeerDisconnected

Event Type	DIAM
Description	DA-MP connection FSM exception.
Severity	Info
Instance	<DA-MP Name>:102
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvFsmException

Recovery

No action required.

8000 - 103 - MpEvFsmException_PeerUnreachable

Event Type	DIAM
Description	DA-MP connection FSM exception.
Severity	Info
Instance	<DA-MP Name>:103

HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvFsmException

Recovery

Potential causes for this event are:

- A host IP interface is down.
- A host IP interface is unreachable from the peer.
- A peer IP interface is down.
- A peer IP interface is unreachable from the host.

8000 - 104 - MpEvFsmException_CexFailure

Event Type	DIAM
Description	DA-MP connection FSM exception.
Severity	Info
Instance	<DA-MP Name>:104
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvFsmException

Recovery

Potential causes for this event are:

- The peer is misconfigured.
- The host is misconfigured.

8000 - 105 - MpEvFsmException_CerTimeout

Event Type	DIAM
Description	DA-MP connection FSM exception.
Severity	Info
Instance	<DA-MP Name>:105
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvFsmException

Recovery

No action required.

8000 - 106 - MpEvFsmException_AuthenticationFailure

Event Type	DIAM
Description	DA-MP connection FSM exception.
Severity	Info
Instance	<DA-MP Name>:106
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvFsmException

Recovery

Potential causes for this event are:

- The peer is misconfigured.
- The host is misconfigured.

8000 - 201 - MpEvFsmException_UdpSocketLimit

Event Type	DIAM
Description	DA-MP connection FSM exception.
Severity	Info
Instance	<DA-MP Name>:201
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvFsmException

Recovery:

The DSR supports to a preconfigured maximum number of open UDP sockets (the maximum number of open UDP sockets can be accessed via **Diameter > Configuration > System Options > Maximum Open RADIUS UDP sockets per DA-MP**). One or more peers are being routed more traffic than is normally expected, or the peers are responding slowly, causing more than the usual number of UDP sockets being opened. The concerned peer can be identified using the reported connection ID. Investigate the reason for higher than normal traffic being forwarded to the peer, or why the peer is slow to respond.

8001 - MpEvException**8001 - 001 - MpEvException_Oversubscribed**

Event Type	DIAM
Description	DA-MP exception.
Severity	Info

Instance	<DA-MP Name>:001
HA Score	Normal
Throttle Seconds	None
OID	eagleXgDiameterMpEvException
Recovery	
	Bounce one or more floating connections to force their migration to another DA-MP with available capacity.

8002 - MpEvRxException

8002 - 001 - MpEvRxException_DiamMsgPoolCongested

Event Type	DIAM
Description	DA-MP ingress message processing exception.
Severity	Info
Instance	<DA-MP Name>:001
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvRxException

Recovery

Potential causes of this event are:

- One or more DA-MPs are unavailable and traffic has been distributed to the remaining DA-MPs.
- One or more peers are generating more traffic than is nominally expected.
- There are an insufficient number of DA-MPs provisioned.
- One or more peers are answering slowly, causing a backlog of pending transactions.

8002 - 002 - MpEvRxException_MaxMpsExceeded

Event Type	DIAM
Description	DA-MP ingress message processing exception.
Severity	Info
Instance	<DA-MP Name>:002
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvRxException

Recovery

This event is potentially caused when a peer is generating more traffic than is nominally expected.

8002 - 003 - MpEvRxException_CpuCongested

Event Type	DIAM
Description	DA-MP ingress message processing exception.
Severity	Info
Instance	<DA-MP Name>:003
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvRxException

Recovery

Potential causes for this event are:

- One or more peers are generating more traffic than is nominally expected.
- Configuration requires more CPU for message processing than is nominally expected.
- One or more peers are answering slowly, causing a backlog of pending transactions

8002 - 004 - MpEvRxException_SigEvPoolCongested

Event Type	DIAM
Description	DA-MP ingress message processing exception.
Severity	Info
Instance	<DA-MP Name>:004
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvRxException

Recovery

This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance.

8002 - 005 - MpEvRxException_DstMpUnknown

Event Type	DIAM
Description	DA-MP ingress message processing exception.
Severity	Info
Instance	<DA-MP Name>:005
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvRxException

Recovery

This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance.

8002 - 006 - MpEvRxException_DstMpCongested

Event Type	DIAM
Description	DA-MP ingress message processing exception.
Severity	Info
Instance	<DA-MP Name>:006
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvRxException

Recovery

Potential causes for this event are:

- One or more peers are generating more traffic than is nominally expected.
- Configuration requires more CPU for message processing than is nominally expected.
- One or more peers are answering slowly, causing a backlog of pending transactions

8002 - 007 - MpEvRxException_DrlReqQueueCongested

Event Type	DIAM
Description	DA-MP ingress message processing exception.
Severity	Info
Instance	<DA-MP Name>:007
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvRxException

Recovery

This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance.

8002 - 008 - MpEvRxException_DrlAnsQueueCongested

Event Type	DIAM
Description	DA-MP ingress message processing exception.
Severity	Info
Instance	<DA-MP Name>:008
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvRxException

Recovery

This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance.

8002 - 009 - MpEvRxException_ComAgentCongested

Event Type	DIAM
Description	DA-MP ingress message processing exception.
Severity	Info
Instance	<DA-MP Name>:009
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvRxException

Recovery

This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance.

8002 - 201 - MpEvRxException_MsgMalformed

Event Type	DIAM
Description	DA-MP ingress message processing exception.
Severity	Info
Instance	<DA-MP Name>:201
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvRxException

Recovery

This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance. The peer may have an implementation defect.

8002 - 202 - MpEvRxException_PeerUnknown

Event Type	DIAM
Description	DA-MP ingress message processing exception.
Severity	Info
Instance	<DA-MP Name>:202
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvRxException

Recovery

The host or peer may be misconfigured. Adjust the peer IP address(es) option of the associated Peer Node if necessary.

8002 - 203 - MpEvRxException_RadiusMsgPoolCongested

Event Type	DIAM
Description	DA-MP ingress message processing exception.
Severity	Info
Instance	<DA-MP Name>:203
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvRxException

Recovery:

1. If one or more MPs in a server site have failed, the traffic will be distributed between the remaining MPs in the server site. MP server status can be monitored from the **Status & Manage > Server** page.
2. The mis-configuration of Diameter peers may result in too much traffic being distributed to the MP. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. Each MP in the server site should be receiving approximately the same ingress transaction per second.
3. There may be an insufficient number of MPs configured to handle the network traffic load. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. If all MPs are in a congestion state then the offered load to the server site is exceeding its capacity.
4. A software defect may exist resulting in PDU buffers not being deallocated to the pool. This alarm should not normally occur when no other congestion alarms are asserted. The alarm log should be examined using the **Alarms & Events** page.
5. This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance.

8002 - 204 - MpEvRxException_ItrPoolCongested

Event Type	DIAM
Description	DA-MP ingress message processing exception.
Severity	Info
Instance	<DA-MP Name>:204
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvRxException

Recovery:

1. Adjust the **RADIUS Cached Response Duration** option of the associated Connection configuration set(s) to reduce the lifetime of cached transactions, if needed.

2. If one or more MPs in a server site have failed, the traffic will be distributed between the remaining MPs in the server site. MP server status can be monitored from the **Status & Manage > Server** page.
3. The mis-configuration of Diameter peers may result in too much traffic being distributed to the MP. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. Each MP in the server site should be receiving approximately the same ingress transaction per second.
4. There may be an insufficient number of MPs configured to handle the network traffic load. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. If all MPs are in a congestion state then the offered load to the server site is exceeding its capacity.
5. A software defect may exist resulting in PTR buffers not being deallocated to the pool. This alarm should not normally occur when no other congestion alarms are asserted. The alarm log should be examined from the **Alarms & Events** page.
6. If the problem persists, contact [My Oracle Support \(MOS\)](#).

8002 - 205 - MpEvRxException_RclRxTaskQueueCongested

Event Type	DIAM
Description	DA-MP ingress message processing exception.
Severity	Info
Instance	<DA-MP Name>:205
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvRxException

Recovery:

1. The alarm will clear when the DCL egress task message queue utilization falls below the clear threshold. The alarm may be caused by one or more peers being routed more traffic than is nominally expected.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

8002 - 206 - MpEvRxException_RclSigEvPoolCongested

Event Type	DIAM
Description	DA-MP ingress message processing exception.
Severity	Info
Instance	<DA-MP Name>:206
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvRxException

Recovery:

1. If one or more MPs in a server site have failed, the traffic will be distributed between the remaining MPs in the server site. MP server status can be monitored from the **Status & Manage > Server** page.
2. The mis-configuration of Diameter peers may result in too much traffic being distributed to the MP. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. Each MP in the server site should be receiving approximately the same ingress transaction per second.
3. There may be an insufficient number of MPs configured to handle the network traffic load. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. If all MPs are in a congestion state then the offered load to the server site is exceeding its capacity.
4. A software defect may exist resulting in PDU buffers not being deallocated to the pool. This alarm should not normally occur when no other congestion alarms are asserted. The alarm log should be examined using the **Alarms & Events** page.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#).

8002 - 207 - MpEvRxException_ReqDuplicate

Event Type	DIAM
Description	Connection ingress message processing exception.
Severity	Info
Instance	<Connection Name>:207
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvRxException

Recovery:

1. It is possible to observe this event occasionally, due to the unreliable nature of the UDP transport protocol. However, if the occurrence of this event is frequent, investigate the issue further.

This event is expected when a retransmission is received from the client before a server has responded to the request, possibly a result of the client retransmitting too quickly before allowing sufficient time for a server to respond in time. Another possible cause is if one or more servers configured to handle the request are non-responsive.
2. Investigate the routing configuration to narrow down the list of servers (Peer Nodes) which are expected to handle requests from the reported server connection.
3. Evaluate whether an Egress Transaction Failure Rate alarm has been raised for any of the corresponding client connections. If so, investigate the cause of the server becoming non-responsive and address the condition.

Note: Depending on the operator's choice, the client connection may need to be Admin Disabled until the evaluation is complete, which will allow requests to be routed to other servers, depending on the routing configuration. If this is not the case, tune the client's retransmit timers to be greater than the typical turnaround time for the request to be processed by the server and for the response to be sent back to the client.

4. If the problem persists, contact [My Oracle Support \(MOS\)](#).

8002 - 208 - MpEvRxException_SharedSecretUnavailable

Event Type	DIAM
Description	Failed to access shared secret.
Severity	Info
Instance	<Connection Name>:208
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvRxException

Recovery:

Check to see if alarm 8207 is present. If so, follow the recovery steps for alarm [8207 - MpRadiusKeyError](#).

8003 - MpEvTxException**8003 - 001 - MpEvTxException_ConnUnknown**

Event Type	DIAM
Description	DA-MP egress message processing exception.
Severity	Info
Instance	<DA-MP Name>:001
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvTxException

Recovery

No action required.

8003 - 101 - MpEvTxException_DclTxTaskQueueCongested

Event Type	DIAM
Description	DA-MP egress message processing exception.
Severity	Info
Instance	<DA-MP Name>:101
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvTxException

Recovery

This event is potentially caused by one or more peers being routed more traffic than is nominally expected.

8003 - 201 - MpEvTxException_RclTxTaskQueueCongested

Event Type	DIAM
Description	DA-MP egress message processing exception.
Severity	Info
Instance	<DA-MP Name>:201
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvTxException

Recovery:

1. The alarm will clear when the DCL egress task message queue utilization falls below the clear threshold. The alarm may be caused by one or more peers being routed more traffic than is nominally expected.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

8003 - 202 - MpEvTxException_EtrPoolCongested

Event Type	DIAM
Description	DA-MP egress message processing exception.
Severity	Info
Instance	<DA-MP Name>:202
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvTxException

Recovery:

1. Adjust the Diameter **Pending Answer Timer** option of the associated Transaction configuration set(s) to reduce the lifetime of pending transactions, if needed.
2. If one or more MPs in a server site have failed, the traffic will be distributed between the remaining MPs in the server site. MP server status can be monitored from the **Status & Manage > Server** page.
3. The mis-configuration of Diameter peers may result in too much traffic being distributed to the MP. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. Each MP in the server site should be receiving approximately the same ingress transaction per second.
4. There may be an insufficient number of MPs configured to handle the network traffic load. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. If all MPs are in a congestion state then the offered load to the server site is exceeding its capacity.

5. A software defect may exist resulting in PTR buffers not being deallocated to the pool. This alarm should not normally occur when no other congestion alarms are asserted. The alarm log should be examined from the **Alarms & Events** page.
6. If the problem persists, contact [My Oracle Support \(MOS\)](#).

8003 - 203 - MpEvTxException_RadiusMsgPoolCongested

Event Type	DIAM
Description	DA-MP egress message processing exception.
Severity	Info
Instance	<DA-MP Name>:203
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvTxException

Recovery:

1. If one or more MPs in a server site have failed, the traffic will be distributed between the remaining MPs in the server site. MP server status can be monitored from the **Status & Manage > Server** page.
2. The mis-configuration of Diameter peers may result in too much traffic being distributed to the MP. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. Each MP in the server site should be receiving approximately the same ingress transaction per second.
3. There may be an insufficient number of MPs configured to handle the network traffic load. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. If all MPs are in a congestion state then the offered load to the server site is exceeding its capacity.
4. A software defect may exist resulting in PDU buffers not being deallocated to the pool. This alarm should not normally occur when no other congestion alarms are asserted. The alarm log should be examined using the **Alarms & Events** page.
5. This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance.

8003 - 204 - MpEvTxException_RadiusIdPoolCongested

Event Type	DIAM
Description	DA-MP egress message processing exception.
Severity	Info
Instance	<DA-MP Name>:204
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvTxException

Recovery:

1. The peer is being routed more traffic than is nominally expected, or is responding slowly. If the problem persists, the client port range configured in the Local Node corresponding to the indicated transport connection may need to be increased.
2. Access the connection information via **Diameter > Configuration > Connections** screen, which indicates the associated Local Node.
3. Access the **Local Node** screen via **Diameter > Configuration > Local Nodes**.
4. Update the client port range by modifying the **RADIUS Client UDP Port Range Start** and the **RADIUS Client UDP Port Range End** values in the **Local Node** edit screen, if necessary.

Note: To update the Local Node configuration, Admin Disable all associated connections.

8003 - 205 - MpEvTxException_SharedSecretUnavailable

Event Type	DIAM
Description	Failed to access shared secret.
Severity	Info
Instance	<DA-MP Name>:205
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterMpEvTxException

Recovery:

1. Proceed to [Step 2](#) if alarm [8207 - MpRadiusKeyError](#) is present.
2. Synchronize the RADIUS key file.
3. Restart the DSR process. If the required keys are now available, the alarm will not be raised.
4. If the problem persists, contact [My Oracle Support \(MOS\)](#).

8004 - EvFsmAdState

8004 - 001 - EvFsmAdState_StateChange

Event Type	DIAM
Description	Connection FSM administrative state change.
Severity	Info
Instance	<Connection Name>:001
HA Score	Normal
Throttle Seconds	None
OID	eagleXgDiameterEvFsmAdState

Recovery

No action required.

8005 - EvFsmOpState**8005 - 001 - EvFsmOpState_StateChange**

Event Type	DIAM
Description	Connection FSM operational state change.
Severity	Info
Instance	<Connection Name>:001
HA Score	Normal
Throttle Seconds	None
OID	eagleXgDiameterFsmOpState

Recovery

1. No action required when operationally available.
2. Potential causes for this event when operationally unavailable are:
 - Connection is administratively disabled.
 - Diameter initiator connection is connecting.
 - Diameter initiator connection is suppressed (peer is operationally available).
 - Diameter initiator connection is suppressed (peer did not signal reboot during graceful disconnect).
 - Diameter responder connection is listening.
 - RADIUS server connection is opening.
3. Potential causes for this event when operationally degraded are:
 - Connection egress message rate threshold crossed.
 - Diameter connection is in watchdog proving.
 - Diameter connection is in graceful disconnect.
 - Diameter peer signaled remote busy.
 - Diameter connection is in transport congestion.

8006 - EvFsmException**8006 - 001 - EvFsmException_DnsFailure**

Event Type	DIAM
Description	Connection FSM exception.
Severity	Info
Instance	<Connection Name>:001
HA Score	Normal
Throttle Seconds	10

OID eagleXgDiameterEvFsmException

Recovery

Potential causes of this event are:

- DNS server configuration is invalid.
- DNS server(s) are unavailable.
- DNS server(s) are unreachable.
- FQDN configuration is invalid.

8006 - 002 - EvFsmException_ConnReleased

Event Type	DIAM
Description	Connection FSM exception.
Severity	Info
Instance	<Connection Name>:002
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvFsmException

Recovery

No action required.

8006 - 101 - EvFsmException_SocketFailure

Event Type	DIAM
Description	Connection FSM exception.
Severity	Info
Instance	<Connection Name>:101
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvFsmException

Recovery

1. This event is potentially caused by the DSR process reaching its descriptor capacity.
2. This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance.

8006 - 102 - EvFsmException_BindFailure

Event Type	DIAM
Description	Connection FSM exception.
Severity	Info

Instance	<Connection Name>:102
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvFsmException

Recovery

- Potential causes for this event are:
 - Network interface(s) are down.
 - Port is already in use by another process.
 - Configuration is invalid.
- This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance.

8006 - 103 - EvFsmException_OptionFailure

Event Type	DIAM
Description	Connection FSM exception.
Severity	Info
Instance	<Connection Name>:103
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvFsmException

Recovery

- Potential causes for this event are:
 - DSR process is not running with root permission.
 - Configuration is invalid.
- This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance.

8006 - 104 - EvFsmException_ConnectFailure

Event Type	DIAM
Description	Connection FSM exception.
Severity	Info
Instance	<Connection Name>:104
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvFsmException

Recovery

This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance.

8006 - 105 - EvFsmException_PeerDisconnected

Event Type	DIAM
Description	Connection FSM exception.
Severity	Info
Instance	<Connection Name>:105
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvFsmException

Recovery

No action required. Potential causes for this event are:

- Diameter peer signaled DPR.
- Peer is unavailable.

8006 - 106 - EvFsmException_PeerUnreachable

Event Type	DIAM
Description	Connection FSM exception.
Severity	Info
Instance	<Connection Name>:106
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvFsmException

Recovery

Potential causes for this event are:

- A host IP interface is down.
- A host IP interface is unreachable from the peer.
- A peer IP interface is down.
- A peer IP interface is unreachable from the host.

8006 - 107 - EvFsmException_CexFailure

Event Type	DIAM
Description	Connection FSM exception.
Severity	Info
Instance	<Connection Name>:107
HA Score	Normal

Throttle Seconds	10
OID	eagleXgDiameterEvFsmException

Recovery

Potential causes for this event are:

- The peer is misconfigured.
- The host is misconfigured.

8006 - 108 - EvFsmException_CeaTimeout

Event Type	DIAM
Description	Connection FSM exception.
Severity	Info
Instance	<Connection Name>:108
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvFsmException

Recovery

No action required.

8006 - 109 - EvFsmException_DwaTimeout

Event Type	DIAM
Description	Connection FSM exception.
Severity	Info
Instance	<Connection Name>:109
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvFsmException

Recovery

No action required.

8006 - 110 - EvFsmException_DwaTimeout

Event Type	DIAM
Description	Connection FSM exception.
Severity	Info
Instance	<Connection Name>:110

HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvFsmException
Recovery	No action required.

8006 - 111 - EvFsmException_ProvingFailure

Event Type	DIAM
Description	Connection FSM exception.
Severity	Info
Instance	<Connection Name>:111
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvFsmException

Recovery

Potential causes for this event are:

- A host IP interface is unreachable from the peer, or intermittently so.
- A peer IP interface is unreachable from the host, or intermittently so.

8006 - 112 - EvFsmException_WatchdogFailure

Event Type	DIAM
Description	Connection FSM exception.
Severity	Info
Instance	<Connection Name>:112
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvFsmException

Recovery

Potential causes for this event are:

- A host IP interface is unreachable from the peer, or intermittently so.
- A peer IP interface is unreachable from the host, or intermittently so.

8006 - 113 - EvFsmException_AuthenticationFailure

Event Type	DIAM
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Description	Connection FSM exception.
Severity	Info
Instance	<Connection Name>:113
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvFsmException

Recovery

Potential causes for this event are:

- The peer is misconfigured.
- The host is misconfigured.

8007 - EvException**8007 - 101 - EvException_MsgPriorityFailure**

Event Type	DIAM
Description	Connection exception.
Severity	Info
Instance	<Connection Name>:101
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvException

Recovery

This event is potentially caused by misconfiguration of the host.

8008 - EvRxException**8008 - 001 - EvRxException_MaxMpsExceeded**

Event Type	DIAM
Description	Connection ingress message processing exception.
Severity	Info
Instance	<Connection Name>:001
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvRxException

Recovery

This event is potentially caused when a peer is generating more traffic than is nominally expected.

8008 - 101 - EvRxException_MsgMalformed

Event Type	DIAM
Description	Connection ingress message processing exception.
Severity	Info
Instance	<Connection Name>:101
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvRxException

Recovery

This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance.

8008 - 102 - EvRxException_MsgInvalid

Event Type	DIAM
Description	Connection ingress message processing exception.
Severity	Info
Instance	<Connection Name>:102
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvRxException

Recovery

This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance.

8008 - 201 - EvRxException_SharedSecretUnavailable

Event Type	DIAM
Description	Connection ingress message processing exception.
Severity	Info
Instance	<Connection Name>:201
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvRxException

Recovery:

This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance. The peer may have an implementation defect.

8008 - 202 - EvRxException_MsgAttrLenUnsupported

Event Type	DIAM
Description	Connection ingress message processing exception.
Severity	Info
Instance	<Connection Name>:202
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvRxException

Recovery:

This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance. The peer may have an implementation defect.

8008 - 203 - EvRxException_MsgTypeUnsupported

Event Type	DIAM
Description	Connection ingress message processing exception.
Severity	Info
Instance	<Connection Name>:203
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvRxException

Recovery:

This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance. The peer may have an implementation defect or may be misconfigured.

8008 - 204 - EvRxException_AnsOrphaned

Event Type	DIAM
Description	Connection ingress message processing exception.
Severity	Info
Instance	<Connection Name>:204
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvRxException

Recovery:

The peer is responding slowly, network latency is high, or the ETR timer is configured too small. Adjust the Diameter **Pending Answer Timer** option of the associated Transaction configuration set(s) to reduce the lifetime of pending transactions, if needed.

8008 - 205 - EvRxException_AccessAuthMissing

Event Type	DIAM
Description	Connection ingress message processing exception.
Severity	Info
Instance	<Connection Name>:205
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvRxException

Recovery:

This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance. The peer may have an implementation defect.

8008 - 206 - EvRxException_StatusAuthMissing

Event Type	DIAM
Description	Connection ingress message processing exception.
Severity	Info
Instance	<Connection Name>:206
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvRxException

Recovery:

This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance. The peer may have an implementation defect.

8008 - 207 - EvRxException_MsgAuthInvalid

Event Type	DIAM
Description	Connection ingress message processing exception.
Severity	Info
Instance	<Connection Name>:207
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvRxException

Recovery:

1. Evaluate the indicated message. If an invalid message authenticator value is indicated, ensure that the same shared secret is configured for the connection on the DSR and on the RADIUS peer. The shared secret configuration set associated with the transport connection on the DSR can be accessed via **Diameter > Configuration > Connections**.
2. If an invalid message authenticator value is not indicated, then the peer may have an implementation defect or may be misconfigured. Contact [My Oracle Support \(MOS\)](#) for assistance. This event is unexpected.

8008 - 208 - EvRxException_ReqAuthInvalid

Event Type	DIAM
Description	Connection ingress message processing exception.
Severity	Info
Instance	<Connection Name>:208
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvRxException

Recovery:

This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance. The peer may be misconfigured.

8008 - 209 - EvRxException_AnsAuthInvalid

Event Type	DIAM
Description	Connection ingress message processing exception.
Severity	Info
Instance	<Connection Name>:209
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvRxException

Recovery:

This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance. The peer may be misconfigured.

8008 - 210 - EvRxException_MsgAttrAstUnsupported

Event Type	DIAM
Description	Connection ingress message processing exception.
Severity	Info

Instance	<Connection Name>:210
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvRxException

Recovery:

1. This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance. The peer may have an implementation defect or may be misconfigured .
2. Only certain Acct-Status-Type values are supported. Ensure that the Acct-Status-Type value is one of these values:
 - 1 (Start)
 - 2 (Stop)
 - 3 (Interim-Update)
 - 7 (Accounting-On)
 - 8 (Accounting-Off)

8008 - 212 - EvRxException_MsgTypeMissingMccs

Event Type	DIAM
Description	Connection ingress message processing exception.
Severity	Info
Instance	<Connection Name>:212
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvRxException

Recovery:

Contact [My Oracle Support \(MOS\)](#) for assistance. The peer or host is misconfigured.

8008 - 213 - EvRxException_ConnUnavailable

Event Type	DIAM
Description	Connection ingress message processing exception.
Severity	Info
Instance	<Connection Name>:213
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvRxException

Recovery:

No action required. This event is for informational purposes only.

8009 - EvTxException**8009 - 001 - EvTxException_ConnUnavailable**

Event Type	DIAM
Description	Connection egress message processing exception.
Severity	Info
Instance	<Connection Name>:001
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvTxException
Recovery	No action required.

8009 - 101 - EvTxException_DclTxConnQueueCongested

Event Type	DIAM
Description	Connection egress message processing exception.
Severity	Info
Instance	<Connection Name>:101
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvTxException
Recovery	This event is potentially caused by a peer being routed more traffic than is nominally expected.

8009 - 102 - EvTxException_DtlsMsgOversized

Event Type	DIAM
Description	Connection egress message processing exception.
Severity	Info
Instance	<Connection Name>:102
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvTxException
Recovery	This event is potentially caused by a peer being routed more traffic than is nominally expected.

8009 - 201 - EvTxException_MsgAttrLenUnsupported

Event Type	DIAM
Description	Connection egress message processing exception.
Severity	Info
Instance	<Connection Name>:201
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvTxException

Recovery:

This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance. The peer may have an implementation defect.

8009 - 202 - EvTxException_MsgTypeUnsupported

Event Type	DIAM
Description	Connection egress message processing exception.
Severity	Info
Instance	<Connection Name>:202
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvTxException

Recovery:

This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance. The peer may have an implementation defect, or may be misconfigured.

8009 - 203 - EvTxException_MsgLenInvalid

Event Type	DIAM
Description	Connection egress message processing exception.
Severity	Info
Instance	<Connection Name>:203
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvTxException

Recovery:

1. This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance.

2. This event is typically generated when the DSR needs to add a Message-Authenticator to the message, but doing so causes the message size to exceed maximum RADIUS message length. If this problem persists, evaluate the source of this message and ensure that the message size allows adding a Message-Authenticator attribute (16 octets). Evaluate the message authenticator configuration for the egress connection and ensure that the adding of Message-Authenticator to specific message types is configured appropriately. The message authenticator configuration set can be identified by accessing the connection screen via **Diameter > Configuration > Connections**.

8009 - 204 - EvTxException_ReqOnServerConn

Event Type	DIAM
Description	Connection egress message processing exception.
Severity	Info
Instance	<Connection Name>:204
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvTxException

Recovery:

1. This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance. The peer may be misconfigured.
2. Review the configuration of Route Groups and ensure that there are no RADIUS server instances.

8009 - 205 - EvTxException_AnsOnClientConn

Event Type	DIAM
Description	Connection egress message processing exception.
Severity	Info
Instance	<Connection Name>:205
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvTxException

Recovery:

1. This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance. The peer may be misconfigured.
2. Review the configuration of Connections and ensure that there are no RADIUS client instances being used as a RADIUS server by one or more peers.

8009 - 206 - EvTxException_DiamMsgMisrouted

Event Type	DIAM
Description	Connection egress message processing exception.

Severity	Info
Instance	<Connection Name>:206
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvTxException

Recovery:

1. This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance. The peer may be misconfigured.
2. Review the configuration of Route Groups and ensure that there are no RADIUS server instances.

8009 - 207 - EvTxException_ReqDuplicate

Event Type	DIAM
Description	Connection egress message processing exception.
Severity	Info
Instance	<Connection Name>:207
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvTxException

Recovery:

No action required.

8009 - 208 - EvTxException_WriteFailure

Event Type	DIAM
Description	Connection egress message processing exception.
Severity	Info
Instance	<Connection Name>:208
HA Score	Normal
Throttle Seconds	10
OID	eagleXgDiameterEvTxException

Recovery:

1. This event is unexpected. Contact [My Oracle Support \(MOS\)](#) for assistance. The peer may be misconfigured.
2. Ensure that the RADIUS **UDP Transmit Buffer Size** option in **System Options** to ensure it is sufficient for the offered traffic load.

8010 - MpIngressDrop

Alarm Group	DIAM
Description	DA-MP ingress message discarded or rejected.
Severity	Major
Instance	<DA-MP Name>
HA Score	Normal
Auto Clear Seconds	30
OID	eagleXgDiameterMpIngressDrop

Recovery

Potential causes of this alarm are:

- One or more DA-MPs are unavailable and traffic has been distributed to the remaining DA-MPs.
- One or more peers are generating more traffic than is nominally expected.
- There are an insufficient number of DA-MPs provisioned.
- One or more peers are answering slowly, causing a backlog of pending transactions.

8011 - EcRate

Alarm Group	DIAM
Description	Connection egress message rate threshold crossed.
Severity	Minor, Major, Critical
Instance	<Connection Name>
HA Score	Normal
Auto Clear Seconds	0 (zero)
OID	eagleXgDiameterEmr

Recovery

This alarm is potentially caused when a peer is routed more traffic than is nominally expected.

8012 - MpRxNgnPsOfferedRate

Alarm Group	DIAM
Description	DA-MP ingress NGN-PS message rate threshold crossed.
Severity	Major
Instance	MpRxNgnPsOfferedRate, DIAM
HA Score	Normal
Auto Clear Seconds	0 (zero)

OID eagleXgDiameterMpRxNgnPsOfferedRateNotify

Recovery

Potential causes of this alarm:

- One or more DA-MPs are unavailable and traffic has been distributed to the remaining DA-MPs.
- One or more peers are generating more traffic than is nominally expected.
- There are an insufficient number of DA-MPs provisioned.

The alarm will clear when threshold crossing abates.

8013 - MpNgnPsStateMismatch

Alarm Group	DIAM
Description	DA-MP NGN-PS administrative and operational state mismatch.
Severity	Major
Instance	<DA-MP Name>
HA Score	Normal
Auto Clear Seconds	0 (zero)
OID	eagleXgDiameterMpNgnPsStateMismatchNotify

Recovery

This alarm is potentially caused when a DA-MP restart is required.

The alarm will clear when administrative and operational states are aligned.

8014 - MpNgnPsDrop

Alarm Group	DIAM
Description	DA-MP NGN-PS message discarded or rejected.
Severity	Major
Instance	<DA-MP Name>
HA Score	Normal
Auto Clear Seconds	30
OID	eagleXgDiameterMpNgnPsDropNotify

Recovery

Potential causes of this alarm are:

- Routing or application controls are configured incorrectly.
- Peer or network is in congestion.
- Engineering of internal resources is insufficient.

8015 - NgnPsMsgMisrouted

Alarm Group	DIAM
Description	NGN-PS message routed to peer DSR lacking NGN-PS support.
Severity	Major
Instance	<Connection Name>
HA Score	Normal
Auto Clear Seconds	30
OID	eagleXgDiameterNgnPsMsgMisroutedNotify

Recovery

Potential causes of this alarm are:

- Routing configuration is incorrect.
- Peer DSR has not yet been upgraded.
- Peer DSR has not yet operationally enabled NGN-PS.

8100 - NormMsgMisrouted

Alarm Group:	DIAG
Description:	Normal message routed onto diagnostic connection.
Severity:	Major
Instance:	<Connection Name>
HA Score:	Normal
Auto Clear Seconds:	30 (after last occurrence)
OID:	eagleXgDiameterNormMsgMisrouted

Recovery:

1. The alarm is potentially caused by a diameter routing misconfiguration.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

8101 - DiagMsgMisrouted

Alarm Group:	DIAG
Description:	Diagnostic message routed onto normal connection.
Severity:	Minor
Instance:	<Connection Name>
HA Score:	Normal
Auto Clear Seconds:	30 (after last occurrence)

OID: eagleXgDiameterDiagMsgMisrouted

Recovery:

1. The alarm is potentially caused by a diameter routing misconfiguration.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

8200 - MpRadiusMsgPoolCongested

Alarm Group	DIAM
Description	DA-MP RADIUS message pool utilization threshold crossed.
Severity	Minor, Major, Critical
Instance	MpRadiusMsgPool, DIAM
HA Score	Normal
Auto Clear Seconds	0 (zero)
OID	eagleXgDiameterMpRadiusMsgPoolCongested

Recovery:

1. If one or more MPs in a server site have failed, the traffic will be distributed between the remaining MPs in the server site. MP server status can be monitored from the **Status & Manage > Server** page.
2. The mis-configuration of Diameter peers may result in too much traffic being distributed to the MP. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. Each MP in the server site should be receiving approximately the same ingress transaction per second.
3. There may be an insufficient number of MPs configured to handle the network traffic load. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. If all MPs are in a congestion state then the offered load to the server site is exceeding its capacity.
4. A software defect may exist resulting in PDU buffers not being deallocated to the pool. This alarm should not normally occur when no other congestion alarms are asserted. The alarm log should be examined using the **Alarms & Events** page.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#).

8201 - RclRxTaskQueueCongested

Alarm Group	DIAM
Description	RCL ingress task message queue utilization threshold crossed.
Severity	Minor, Major, Critical
Instance	RclRxTaskQueue, DIAM
HA Score	Normal
Auto Clear Seconds	0 (zero)
OID	eagleXgDiameterRclRxTaskQueueCongested

Recovery:

1. The alarm will clear when the RCL ingress task message queue utilization falls below the clear threshold. The alarm may be caused by one or more peers being routed more traffic than is nominally expected.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

8202 - RclItrPoolCongested

Alarm Group	DIAM
Description	RCL ITR pool utilization threshold crossed.
Severity	Minor, Major, Critical
Instance	RclItrPool, DIAM
HA Score	Normal
Auto Clear Seconds	0 (zero)
OID	eagleXgDiameterRclItrPoolCongested

Recovery:

1. Adjust the **RADIUS Cached Response Duration** option of the associated Connection configuration set(s) to reduce the lifetime of cached transactions, if needed.
2. If one or more MPs in a server site have failed, the traffic will be distributed between the remaining MPs in the server site. MP server status can be monitored from the **Status & Manage > Server** page.
3. The mis-configuration of Diameter peers may result in too much traffic being distributed to the MP. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. Each MP in the server site should be receiving approximately the same ingress transaction per second.
4. There may be an insufficient number of MPs configured to handle the network traffic load. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. If all MPs are in a congestion state then the offered load to the server site is exceeding its capacity.
5. A software defect may exist resulting in PTR buffers not being deallocated to the pool. This alarm should not normally occur when no other congestion alarms are asserted. The alarm log should be examined from the **Alarms & Events** page.
6. If the problem persists, contact [My Oracle Support \(MOS\)](#).

8203 - RclRxTaskQueueCongested

Alarm Group	DIAM
Description	RCL egress task threshold crossed.
Severity	Minor, Major, Critical
Instance	RclRxTaskQueue, DIAM
HA Score	Normal
Auto Clear Seconds	0 (zero)

OID eagleXgDiameterRclRxTaskQueueCongested

Recovery:

1. The alarm will clear when the RCL egress task message queue utilization falls below the clear threshold. The alarm may be caused by one or more peers being routed more traffic than is nominally expected.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

8204 - RclEtrPoolCongested

Alarm Group	DIAM
Description	RCL ETR pool utilization threshold crossed.
Severity	Minor, Major, Critical
Instance	RclEtrPool, DIAM
HA Score	Normal
Auto Clear Seconds	0 (zero)
OID	eagleXgDiameterRclEtrPoolCongested

Recovery:

1. Adjust the RADIUS **Cached Response Duration** option of the associated Connection configuration set(s) to reduce the lifetime of cached transactions, if needed.
2. If one or more MPs in a server site have failed, the traffic will be distributed between the remaining MPs in the server site. MP server status can be monitored from the **Status & Manage > Server** page.
3. The mis-configuration of Diameter peers may result in too much traffic being distributed to the MP. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. Each MP in the server site should be receiving approximately the same ingress transaction per second.
4. There may be an insufficient number of MPs configured to handle the network traffic load. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. If all MPs are in a congestion state then the offered load to the server site is exceeding its capacity.
5. A software defect may exist resulting in PTR buffers not being deallocated to the pool. This alarm should not normally occur when no other congestion alarms are asserted. The alarm log should be examined from the **Alarms & Events** page.
6. If the problem persists, contact [My Oracle Support \(MOS\)](#).

8205 - RadiusXactionFail

Alarm Group	DIAM
Description	RADIUS connection transaction failure threshold crossed. The presence of this alarm indicates that the server is not responding to requests in a timely manner. A response that is not received in a timely manner constitutes a transaction failure.
Severity	Minor, Major

Instance	<Connection Name>
HA Score	Normal
Auto Clear Seconds	0 (zero)
OID	eagleXgDiameterRadiusXactionFail

Recovery:

1. Check whether there is an IP network problem, RADIUS server congestion resulting in large response times, or whether a RADIUS server failure has occurred.
2. The user may choose to Admin Disable the corresponding transport connection which will prevent the DSR from selecting that connection for message routing, until the cause of the alarm is determined.

8206 - MpRxRadiusAllLen

Alarm Group	DIAM
Description	RADIUS average ingress message length threshold crossed.
Severity	Minor, Major
Instance	MpRxRadiusAllLen, DIAM
HA Score	Normal
Auto Clear Seconds	0 (zero)
OID	eagleXgDiameterMpRxRadiusAllLen

Recovery:

1. Investigate traffic sources. One or more peers is sending larger messages than is nominally expected.
2. Adjust the message length thresholds if necessary.

8207 - MpRadiusKeyError

Alarm Group	DIAM
Description	DA-MP RADIUS key error. This alarm is unexpected during normal processing. The presence of this alarm indicates that the DSR encountered an error while accessing RADIUS encryption keys that are used to decrypt RADIUS shared secrets.
Severity	Critical
Instance	<DA-MP Name>
HA Score	Normal
Auto Clear Seconds	0 (zero)
OID	eagleXgDiameterMpRadiusKeyError

Recovery:

1. Synchronize the RADIUS key file.

2. Restart the DSR process. If the required keys are now available, the alarm will not be raised.
3. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22001 - Message Decoding Failure

Event Type:	DIAM
Description:	A message received from a peer was rejected because of a decoding failure. Decoding failures can include missing mandatory parameters.
Severity:	Info
Instance:	<TransConnName>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterIngressMsgRejectedDecodingFailureNotify

Recovery:

During Diameter Request decoding, the message content was inconsistent with the "Message Length" in the message header. This protocol violation can be caused by the originator of the message (identified by the Origin-Host AVP in the message) or the peer who forwarded the message to this node.

22002 - Peer Routing Rules with Same Priority

Event Type:	DIAM
Description:	A peer routing table search with a received Request message found more than one highest priority Peer Routing Rule match. The system selected the first rule found but it is not guaranteed that the same rule will be selected in the future. It is recommended that Peer Routing Rules be unique for the same type of messages to avoid non-deterministic routing results.
Severity:	Info
Instance:	<MPName>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterPeerRoutingTableRulesSamePriorityNotify

Recovery:

Modify one of the Peer Routing Rule Priorities using the **Diameter > Configuration > Peer Routing Rules** GUI page.

22004 - Maximum pending transactions allowed exceeded

Event Type:	DIAM
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Description:	Routing attempted to select an egress transport connection to forward a message but the maximum number of allowed pending transactions queued on the connection has been reached.
Severity:	Info
Instance:	<TransConnName>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterMaxPendingTxnsPerConnExceededNotify

Recovery:

The maximum number of pending transactions for each connection is set to a system-wide default value. If this event is occurring frequently enough for a particular connection then the maximum value may need to be increased. Contact [My Oracle Support \(MOS\)](#) for assistance.

22005 - No peer routing rule found

Event Type:	DIAM
Description:	A message not addressed to a peer (either Destination-Host AVP was absent or Destination-Host AVP was present but was not a peer's FQDN) could not be routed because no Peer Routing Rules matched the message.
Severity:	Info
Instance:	<MPName>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterNoPrtRuleNotify

Recovery:

1. Either the message was incorrectly routed to this node or additional Peer Routing Rules need to be added. Existing Peer Routing Rules can be viewed and updated using **Diameter > Configuration > Peer Routing Rules** page.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22007 - Inconsistent Application ID Lists from a Peer

Event Type:	DIAM
Description:	The list of Application IDs supported by a peer during the Diameter Capabilities Exchange procedure on a particular transport connection is not identical to one of the list of Application IDs received from the peer over a different available transport connection to that peer.
Severity:	Info
Instance:	<PeerName>

HA Score: Normal
Throttle Seconds: 10
OID: eagleXgDiameterSupportedAppIdsInconsistentNotify

Recovery:

1. A peer with multiple transport connections has established a connection and provided a list of supported Application IDs which does not match a previously established connection. This could prevent Request messages from being routed uniformly over the peer's transport connections because the decision to route a message containing an Application ID is based upon the list of Application IDs supported on each transport connection. The list of Application IDs that the peer supports on each connection can be viewed as follows:
 - a) Navigate to **Diameter > Maintenance > Connections**.
 - b) Locate the relevant Peer Node and check the supported Application IDs.
2. If Application IDs are not the same for each connection (but should be) the Application ID for any connection can be refreshed by:
 - a) Navigate to **Diameter > Maintenance > Connections**.
 - b) Locate the relevant Connection.
 - c) Disable the Connection.
 - d) Enable the Connection.
3. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22008 - Orphan Answer Response Received

Event Type: DIAM
Description: An Answer response was received for which no pending request transaction existed, resulting in the Answer message being discarded. When a Request message is forwarded the system saves a pending transaction, which contains the routing information for the Answer response. The pending transaction is abandoned if an Answer response is not received in a timely fashion.
Severity: Info
Instance: <TransConnName>
HA Score: Normal
Throttle Seconds: 10
OID: eagleXgDiameterOrphanAnswerResponseReceivedNotify

Recovery:

If this event is occurring frequently, the transaction timers may be set too low. The timer values can be viewed and/or modified using the **Diameter > Configuration > System Options** page.

22009 - Application Routing Rules with Same Priority

Event Type: DIAM

Description:	An application routing table search with a received Request message found more than one highest priority application routing rule match. At least two application routing rules with the same priority matched an ingress Request message. The system selected the first application routing rule found.
Severity:	Info
Instance:	<MPName>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterApplicationRoutingTableRulesSamePriorityNotify

Recovery:

1. It is recommended that application routing rules be unique for the same type of messages to avoid unexpected routing results. Peer routing rule priorities can be modified using **Diameter > Configuration > Application Route Tables** page.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22010 - Specified DAS Route List not provisioned

Event Type:	DIAM
Description:	The DAS Route List specified by the message copy trigger point is not provisioned.
Severity:	Info
Instance:	<RouteListId>
HA Score:	Normal
Throttle Seconds:	10
	Note: Because many route lists can be created on a DA-MP server, care must be taken to prevent excessive event generation with these resources.
OID:	eagleXgDiameterSpecifiedDasRouteListNotProvisionedNotify

Recovery:

1. Provisioning is incorrect/misconfigured. Verify provisioning and provision/correct provisioning.
2. If this problem persists, contact [My Oracle Support \(MOS\)](#) for assistance.

22012 - Specified MCCA not provisioned

Event Type:	DIAM
Description:	The Message Copy Config Set specified by the trigger point is not provisioned.
Severity:	Info

Instance: <MCCS>
HA Score: Normal
Throttle Seconds: 10
OID: eagleXgDiameterSpecifiedMCCSNotProvisionedNotify

Recovery:

1. Verify the configured value of MCCS with the trigger point.
2. Verify the Message Copy CfgSet (MCCS) provisioning is properly configured.
3. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22013 - DAS Peer Number of Retransmits Exceeded for Copy

Event Type: DIAM
Description: The configured number of Message Copy retransmits has been exceeded for the DAS Peer.
Severity: Info
Instance: <MCCS>
HA Score: Normal
Throttle Seconds: 10
Note: Because many route lists can be created on a DA-MP server, care must be taken to prevent excessive event generation with these resources.
OID: eagleXgDiameterNumberOfRetransmitsExceededToDasNotify

Recovery:

1. Verify the configured value of 'Max Retransmission Attempts'
2. Verify local provisioning to connections to intended DAS peer server(s) are in service and no network issues in path(s) to intended DAS peer server(s) exist.
3. Verify DAS peer provisioning to insure proper configuration.
4. If the problem persists, contact [My Oracle Support \(MOS\)](#) for assistance.

22014 - No DAS Route List specified

Alarm Group: DIAM
Description: No valid DAS Route List was specified in the Message Copy Config Set.
Severity: Info
Instance: <RouteListId>
HA Score: Normal
Throttle Seconds: 10

OID: eagleXgDiameterNoDasRouteListSpecifiedNotify

Recovery:

Contact [My Oracle Support \(MOS\)](#) for further assistance.

22016 - Peer Node Alarm Aggregation Threshold

Alarm Group: DIAM

Description: This alarm occurs when there are a 'Critical' number of Peer Node alarms for a single Network Element.

Note: The Alarm Thresholds are configurable using the "Alarm Threshold Options" tab on the **Main Menu > Diameter > Configuration > System Options** screen.

Severity: Critical

Instance: <NetworkElement>

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: eagleXgDiameterPeerNodeUnavailableThresholdReachedNotify

Recovery:

1. Use **Main Menu > Diameter > Maintenance > Peer Nodes** to monitor Peer status.
2. Verify that IP network connectivity exists between the MP server and the adjacent servers.
3. Check the event history logs for additional DIAM events or alarms from this MP server.
4. Verify that the peer is not under maintenance.
5. Contact [My Oracle Support \(MOS\)](#) for assistance.

22017 - Route List Alarm Aggregation Threshold

Alarm Group: DIAM

Description: This alarm occurs when there are a 'Critical' number of Route List alarms for the Network Element.

Note: The Alarm Thresholds are configurable using the "Alarm Threshold Options" tab on the **Main Menu > Diameter > Configuration > System Options** screen.

Severity: Critical

Instance: <NetworkElement>

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: eagleXgDiameterRouteListUnavailableThresholdReachedNotify

Recovery:

1. Use **Main Menu > Diameter > Maintenance > Route Lists** to monitor Route List status.
2. Verify that IP network connectivity exists between the MP server and the peers.
3. Check the event history logs for additional DIAM events or alarms from this MP server.
4. Verify that the peers in the Route List are not under maintenance.
5. Contact [My Oracle Support \(MOS\)](#) for assistance.

22018 - Maintenance Leader HA Notification to go Active

Alarm Group:	DIAM
Description:	This alarm occurs when a DA-MP has received a notification from HA that the Maintenance Leader resource should transition to the Active role.
Severity:	Info
Instance:	<MP Node ID>
HA Score:	Normal
Throttle Seconds:	1
OID:	eagleXgDiameterDaMpLeaderGoActiveNotificationNotify
Recovery:	No action necessary.

22019 - Maintenance Leader HA Notification to go OOS

Alarm Group:	DIAM
Description:	This alarm occurs when a DA-MP has received a notification from HA that the Maintenance Leader resource should transition to the OOS role.
Instance:	<MP Node ID>
Severity:	Info
HA Score:	Normal
Throttle Seconds:	1
OID:	eagleXgDiameterDaMpLeaderGoOOSNotificationNotify
Recovery:	No action necessary.

22020 - Copy Message size exceeded the system configured size limit

Event Type:	DIAM
Description:	The generated Copy message size exceeded the max message size on the system.

Severity: Info
Instance: <DA-MP>
HA Score: Normal
Throttle Seconds: 10

Note: Because many copy messages can exceed the system configured size, care must be taken to prevent excessive generation with these resources.

OID: eagleXgDiameterCopyMessageSizeExceededNotify

Recovery:

1. Verify the size of the Request and Answer messages and see it exceeds the system set message size.
Use **Main > Diameter > Configuration > Route Lists** to correct provisioning.
2. Review provisioning and correct provisioning and see whether answers also needed to copy.
Requests and answers may be copied to DAS.
3. If this problem persists, contact [My Oracle Support \(MOS\)](#) for assistance.

22021 - Debug Routing Info AVP Enabled

Alarm Group: DIAM
Description: Debug Routing Info AVP is enabled.
Severity: Minor
Instance: None
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: eagleXgDiameterDebugRoutingInfoAvpEnabledNotify

Recovery:

1. Change the IncludeRoutingInfoAvp parameter to *no* in the DpiOption table on the NO for a 2-tier system or on the SO for a 3-tier system.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22022 - Forwarding Loop Detected

Alarm Group: DIAM
Description: Ingress Request message received was previously processed by the local node as determined from the Route-Record AVPs received in the message.
Severity: Major
Instance: <Peer Name>

HA Score:	Normal
Auto Clear Seconds:	30
OID:	eagleXgDiameterForwardingLoopDetectedNotify

Recovery:

1. An ingress Request message was rejected because message looping was detected. In general, the forwarding node should not send a message to a peer which has already processed the message (it should examine the Route-Record AVPs prior to message forwarding). If this type of error is occurring frequently, then the forwarding node is most likely mis-routing the message. This should not be related to a configuration error because the identity of the local node is sent to the peer during the Diameter Capabilities Exchange procedure when the Connection comes into service.
2. If Path Topology Hiding is activated and Protected Network Node's Route-Records are obscured with PseudoNodeFQDN, then inter-network ingress message loop detection could reject the message if same Request message is routed back to DEA. If this type of error is occurring then the forwarding node is most likely mis-routing the message back to DEA.
3. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22051 - Peer Unavailable

Alarm Group:	DIAM
Description:	Unable to access the Diameter Peer because all of the transport connections are Down.
Severity:	Critical
Instance:	<PeerName> (of the Peer which failed)
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterPeerUnavailableNotify

Recovery:

1. Peer status can be monitored from **Diameter > Maintenance > Peer Nodes**.
2. Verify that IP network connectivity exists between the MP server and the adjacent servers.
3. Check the event history logs for additional DIAM events or alarms from this MP server.
4. Verify that the peer is not under maintenance.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22052 - Peer Degraded

Alarm Group:	DIAM
Description:	The peer has some available connections, but less than its minimum connection capacity. Continued routing to this peer may cause congestion or other overload conditions.
Severity:	Major

Instance: <PeerName> (of the Peer which is degraded)
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: eagleXgDiameterPeerDegradedNotify

Recovery:

1. Peer status can be monitored from **Diameter > Maintenance > Peer Nodes**.
2. Verify that IP network connectivity exists between the MP server and the adjacent servers.
3. Check the event history logs for additional DIAM events or alarms from this MP server.
4. Verify that the peer is not under maintenance.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22053 - Route List Unavailable

Alarm Group: DIAM
Description: The Route List is Unavailable. A Route List becomes Unavailable when all of its peers become Unavailable and a Peer becomes Unavailable when all of its transport connections become Unavailable.
 If a Transport Connection is configured for Initiate mode, the Network Element will periodically attempt to automatically recover the connection if its Admin State is Enabled. If the Transport Connection is configured for Responder-Only mode, the peer will be responsible for re-establishing the transport connection.
Severity: Critical
Instance: <RouteListName> (of the Route List which failed)
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: eagleXgDiameterRouteListUnavailableNotify

Recovery:

1. Route List status can be monitored from **Diameter > Maintenance > Route Lists**.
2. Verify that IP network connectivity exists between the MP server and the peers.
3. Check the event history logs for additional DIAM events or alarms from this MP server.
4. Verify that the peers in the Route List not under maintenance.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22054 - Route List Degraded

Alarm Group: DIAM

Description:	The Route List's Operational Status has changed to Degraded because the capacity of the Route List's Active Route Group has dropped below the Route List's configured minimum capacity. There are two potential causes: <ol style="list-style-type: none"> 1. One or more of the Route List's peers become Unavailable. A Peer becomes Unavailable when all of its transport connections become Unavailable. If a Transport Connection is configured for Initiate mode, the Network Element will periodically attempt to automatically recover the connection if its Admin State is Enabled. If the Transport Connection is configured for Responder-Only mode, the peer will be responsible for re-establishing the transport connection. 2. The Route Groups within the Route List may not have been configured with sufficient capacity to meet the Route List's configured minimum capacity.
Severity:	Major
Instance:	<RouteListName> (of the Route List which is degraded)
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterRouteListDegradedNotify

Recovery:

1. Route List status and configured minimum capacity can be monitored from **Diameter > Maintenance > Route Lists**.
2. Verify that IP network connectivity exists between the MP server and the peers.
3. Check the event history logs for additional DIAM events or alarms from this MP server.
4. Verify that the peers in the Route List not under maintenance.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22055 - Non-Preferred Route Group in Use

Alarm Group:	DIAM
Description:	<p>The application has started to utilize a Route Group other than the highest priority Route Group to route Request messages for a Route List because the highest priority Route Group specified for that Route List has either become Unavailable or its capacity has dropped below the minimum capacity configured for the Route List while a lower priority Route Group has more capacity.</p> <p>The preferred Route Group (i.e., with highest priority) is demoted from the Active Route Group to a Standby Route Group when a peer failure occurs causing the Route Group's Operational Status to change to Unavailable or Degraded. A Route Group becomes Degraded when its capacity has dropped below Route List's configured minimum capacity. A Route Group becomes Unavailable when all of its peers have an Operational Status of Unavailable or Degraded.</p> <p>A Peer becomes Unavailable when all of its transport connections become Unavailable. If a Transport Connection is configured for Initiate mode, the Network Element will periodically attempt to automatically recover the connection if its Admin State is Enabled. If the Transport Connection is configured for</p>

Responder-Only mode, the peer will be responsible for re-establishing the transport connection.

Severity:	Minor
Instance:	<RouteListName> (of the concerned Route List)
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterNonPreferredRouteGroupInUseNotify

Recovery:

1. Route List status and configured minimum capacity can be monitored from **Diameter > Maintenance > Route Lists**.
2. Verify that IP network connectivity exists between the MP server and the peers.
3. Check the event history logs for additional DIAM events or alarms from this MP server.
4. Verify that the adjacent server is not under maintenance.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22056 - Connection Admin State Inconsistency Exists

Alarm Group:	DIAM
Description:	An operator request to change the Admin State of a transport connection was not completely processed due to an internal error. The admin state is either disabled from an egress routing perspective but the connection could not be taken out of service or the admin state is enabled from an egress routing perspective but the connection is not in service.
Severity:	Major
Instance:	<TransConnName>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterConnAdminStateInconsistencyNotify

Recovery:

1. If the transport connection's Admin State is Disabled but the transport connection was not taken out of service due to an internal error do the following actions to correct the failure:
 - a) Enable the connection via the following GUI menu: **Diameter > Maintenance > Connections**
 - b) Wait for this alarm to clear.
 - c) Disable the connection via the following GUI menu: **Diameter > Maintenance > Connections**
2. If the transport connection's Admin State is Enabled but the transport connection was not taken out of service due to an internal error do the following actions to correct the failure:
 - a) Disable the connection via the following **Diameter > Maintenance > Connections**
 - b) Wait for this alarm to clear.
 - c) Enable the connection via the following GUI menu: **Diameter > Maintenance > Connections**

3. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22057 - ETG Rate Limit Degraded

Alarm Group:	DIAM
Description:	The ETG Rate Limit has exceeded the defined threshold.
Severity:	Major
Instance:	<ETGName>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterEtgRateLimitDegradedNotify

Recovery:

1. Check the configuration in **Main Menu > Diameter > Configuration > Egress Throttle Groups** to determine if the Maximum Configured rate is too low.
2. Check the Egress Message Rate at **Main Menu > Diameter > Maintenance > Egress Throttle Groups** and **Main Menu > Diameter > Maintenance > Connections** to determine if the sending Peers/Connections are offering too much traffic.
3. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22058 - ETG Pending Transaction Limit Degraded

Alarm Group:	DIAM
Description:	The ETG Pending Transactions Limit has exceeded the defined threshold.
Severity:	Major
Instance:	<ETGName>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterEtgPendingTransLimitDegradedNotify

Recovery:

1. Check the configuration in **Main Menu > Diameter > Configuration > Egress Throttle Groups** to determine if the Maximum Configured rate is too low.
2. Check the Egress Message Rate at **Main Menu > Diameter > Maintenance > Egress Throttle Groups** and **Main Menu > Diameter > Maintenance > Connections** to determine if the sending Peers/Connections are offering too much traffic.
3. Determine if the receiving Peers or Connections in the ETG are not responding with Answers in a timely manner because they are either busy or overloaded.
4. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22059 - Egress Throttle Group Message Rate Congestion Level changed

Event Group:	DIAM
Description:	The Egress Throttle Group Message rate Congestion Level has changed. This will change the Request priority that can be routed on peers and connections in the ETG.
Severity:	Info
Instance:	<ETGName>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterEtgRateCongestionNotify

Recovery:

1. The Maximum Configured rate may be too low. Check the configuration in **Main Menu > Diameter > Configuration > Egress Throttle Groups**
2. The sending Peers/Connections are offering too much traffic. Check the EMR rate at **Main Menu > Diameter > Maintenance > Egress Throttle Groups** and/or **Main Menu > Diameter > Maintenance > Connections**
3. Typically all routes to a server should be in an ETG. However, if that is not the case, alternate routes may be out of service and could cause overloading of traffic towards connections contained in this ETG. Evaluate traffic distribution to server connections and see if any alternate routes to server are unavailable causing overloading of traffic on an ETG.
4. Contact [My Oracle Support \(MOS\)](#) for assistance.

22060 - Egress Throttle Group Pending Transaction Limit Congestion Level changed

Event Group:	DIAM
Description:	The Egress Throttle Group Pending Transaction Limit Congestion Level has changed. This will change the Request priority that can be routed on peers and connections in the ETG.
Severity:	Info
Instance:	<ETGName>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterEtgPendingTransCongestionNotify

Recovery:

1. The Maximum Configured rate may be too low. Check the configuration in **Main Menu > Diameter > Configuration > Egress Throttle Groups**
2. The sending Peers/Connections are offering too much traffic. Check the EMR rate at **Main Menu > Diameter > Maintenance > Egress Throttle Groups** and/or **Main Menu > Diameter > Maintenance > Connections**

3. Typically all routes to a server should be in a ETG, however if that is not the case, then those routes becoming out of service could cause overloading of traffic towards connections contained in this ETG. Evaluate traffic distribution to server connections and see if any alternate routes to server are unavailable causing overloading of traffic on an ETG.
4. The receiving Peers or Connections in the ETG are not responding with Answers in a timely manner. Check to see if they are busy or overloaded.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#) for assistance.

22061 - Egress Throttle Group Monitoring stopped

Alarm Group:	DIAM
Description:	ETG Rate and Pending Transaction Monitoring is stopped on all configured ETGs
Severity:	Minor
Instance:	<DA-MP Hostname>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterEtgMonitoringStoppedNotify

Recovery:

1. Verify that ComAgent links setup between DA-MPs have not gone OOS causing SMS Service to not receive Responses from DA-MP Leader under **Main Menu > Communication Agent > Maintenance**.
2. Verify that ComAgent links are established between DA-MPs under **Main Menu > Communication Agent > Maintenance**
3. Verify the No-MP Leader condition in **Main Menu > Diameter > Maintenance > DA-MPs > Peer DA-MP Status** that at least 1 DA-MP is MP-Leader.
4. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22062 - Actual Host Name cannot be determined for Topology Hiding

Event Group:	Diameter
Description:	Topology Hiding could not be applied because the Actual Host Name could not be determined.
Severity:	Info
Instance:	<CfgSetName>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterTopoHidingActualHostNameNotFoundNotify

Recovery:

1. Ensure that all MME/SGSN hostnames to be hidden are present in the MME/SGSN Configuration Set.
2. If any DSR Applications are activated on DSR, ensure that any specific Application Level Topology Hiding feature is not conflicting with the contents of Actual Host Names specified in the MME Configuration Set.
3. Check if the first instance of a Session-ID AVP in the Request/Answer message contains the mandatory delimited ";".
4. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22063 - Diameter Max Message Size Limit Exceeded

Event Type:	DIAM
Description:	The size of the message encoded by DSR has exceeded its max limits.
Severity:	Info
Instance:	<TransConnName>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterDiameterMaxMsgSizeLimitExceededNotify

Recovery:

No action required. However, if this event is seen to be incrementing consistently, contact [My Oracle Support \(MOS\)](#) for assistance.

22064 - Upon receiving Redirect Host Notification the Request has not been submitted for re-routing

Event Type:	DIAM
Description:	This event indicates that the DSR has encountered a Redirect Host Notification that it can accept for processing but cannot continue processing due to some reason, such as internal resources exhaustion.
Severity:	Info
Instance:	<PeerName>
HA Score:	Normal
Throttle Seconds:	60
OID:	eagleXgDiameterRxRedirectHostNotRoutedNotify

Recovery:

1. Examine the DA-MP congestion status and related measurements and take appropriate action.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#)

22065 - Upon receiving Redirect Realm Notification the Request has not been submitted for re-routing

Event Type:	DIAM
Description:	The Redirect Realm Notification received is accepted but cannot be processed due to some reason, such as internal resources exhaustion.
Severity:	Info
Instance:	<PeerName>
HA Score:	Normal
Throttle Seconds:	60
OID:	eagleXgDiameterRxRedirectRealmNotRoutedNotify

Recovery:

1. Examine the DA-MP congestion status and related measurements and take appropriate action.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#)

22066 - ETG-ETL Scope Inconsistency

Alarm Group:	DIAM
Description:	An ETG's Control Scope is set to ETL, but the ETG is not configured against an ETL.
Severity:	Minor
Instance:	<ETG Name>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterEtgEtlScopeInconsistencyNotify

Recovery:

1. Correct the configuration inconsistency by changing the Control Scope of the ETG from ETL to ETG, or by adding the ETG to an ETL.
2. If a backup image has been restored to the SOAM, but not the NOAM, restoring a consistent backup image for the NOAM should resolve the problem.
3. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22067 - ETL-ETG Invalid Association

Event Type:	DIAM
Description:	An ETL is associated with an ETG that does not exist.
Severity:	Minor

Instance: <ETL Name>
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: eagleXgDiameterEtlInvalidAssocNotify

Recovery:

1. Correct the configuration inconsistency by updating the ETL to refer to a valid ETG, or by installing consistent backups on the NOAM and SOAM.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22068 - TtpEvDoicException**22068 - 001 - TtpEvDoicException: DOIC OC-Supported-Features AVP not received**

Event Type: DIAM
Description: DOIC Protocol Error
Severity: Info
Instance: <TTP Name>:001
HA Score: Normal
Throttle Seconds: 10
OID: eagleXgDiameterTtpEvDoicExceptionNotify

Recovery:

The Peer Node associated with the TTP is not responding to a DOIC Capability Announcement (DCA). This can occur when the Peer Node either does not support DOIC or DOIC has been disabled on the Peer Node. The operator should either disable DOIC on the DSR associated with TTP by setting the TTP's "Dynamic Throttling Admin State" to Disabled or enable DOIC on the Peer Node.

22068 - 002 - TtpEvDoicException: DOIC OC-Feature-Vector AVP contains an invalid value

Event Type: DIAM
Description: DOIC Protocol Error
Severity: Info
Instance: <TTP Name>:002
HA Score: Normal
Throttle Seconds: 10
OID: eagleXgDiameterTtpEvDoicExceptionNotify

Recovery:

The Peer Node associated with the TTP has selected a DOIC Abatement Algorithm not supported by the TTP. This should never happen and may be the result of a mis-configuration or bug on the Peer Node. If this error persists, the operator should disable DOIC for the TTP by setting the TTP's "Dynamic Throttling Admin State" to Disabled or enable DOIC on the Peer Node.

22068 - 003 - TtpEvDoicException: DOIC OC-Report-Type AVP contains an unsupported value

Event Type:	DIAM
Description:	DOIC Protocol Error
Severity:	Info
Instance:	<TTP Name>:003
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterTtpEvDoicExceptionNotify

Recovery:

The Peer Node associated with the TTP is sending a DOIC overload report which is not supported by DSR at this time. The operator should disable Realm-based DOIC overload reports on the Peer Node.

22068 - 004 - TtpEvDoicException: DOIC OC-Sequence-Number AVP contains an out of order sequence number

Event Type:	DIAM
Description:	DOIC Protocol Error
Severity:	Info
Instance:	<TTP Name>:004
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterTtpEvDoicExceptionNotify

Recovery:

The Peer Node associated with the TTP has sent a DOIC overload report which is out of sequence. If this error occurs infrequently, then it may have been caused by a timing delay whereby Answer messages received from the Peer Node were delivered out of order. If this error occurs frequently, then the Peer Node may be in violation of the DOIC specification.

22068 - 005 - TtpEvDoicException: DOIC OC-Reduction-Percentage AVP contains an invalid value

Event Type:	DIAM
Description:	DOIC Protocol Error

Severity: Info
Instance: <TTP Name>:005
HA Score: Normal
Throttle Seconds: 10
OID: eagleXgDiameterTtpEvDoicExceptionNotify

Recovery:

The Peer Node associated with the TTP has sent a DOIC overload report containing an OC-Reduction-Percentage AVP value greater than 100. If this error occurs infrequently, then there may be a DOIC software error in the Peer Node. If this error occurs frequently, then the error may be caused by a Peer Node DOIC mis-configuration problem.

22068 - 006 - TtpEvDoicException: DOIC OC-Validity-Duration AVP contains an invalid value

Event Type: DIAM
Description: DOIC Protocol Error
Severity: Info
Instance: <TTP Name>:006
HA Score: Normal
Throttle Seconds: 10
OID: eagleXgDiameterTtpEvDoicExceptionNotify

Recovery:

The Peer Node associated with the TTP has sent a DOIC overload report containing an OC-Validity-Duration AVP value greater than the maximum allowed. The maximum value for the OC-Validity-Duration AVP is 86,400 seconds (24 hours). If this error occurs infrequently, then there may be a DOIC software error in the Peer Node. If this error occurs frequently, then the error may be caused by a Peer Node DOIC mis-configuration problem.

22069 - TtpEvDoicOlr

22069 - 001 - TtpEvDoicOlr: Valid DOIC OLR Applied to TTP

Event Type: DIAM
Description: A DOIC OverLoad Request (OLR) was received from a Peer Node and applied to a configured TTP.
Severity: Info
Instance: <TTP Name>:001
HA Score: Normal
Throttle Seconds: 0 (zero)

OID: eagleXgDiameterTtpEvDoicExceptionNotify

Recovery:
No action required.

22070 - TtpEvDegraded

22070 - 001 - TtpEvDegraded: TTP Degraded, Peer Overload

Event Type: DIAM
Description: TTP Degraded
Severity: Info
Instance: <TTP Name>:001
HA Score: Normal
Throttle Seconds: 0 (zero)
OID: eagleXgDiameterTtpEvDegradedNotify

Recovery:
No action required.

22070 - 002 - TtpEvDegraded: TTP Degraded, Peer Overload Recovery

Event Type: DIAM
Description: TTP Degraded
Severity: Info
Instance: <TTP Name>:002
HA Score: Normal
Throttle Seconds: 0 (zero)
OID: eagleXgDiameterTtpEvDegradedNotify

Recovery:
No action required.

22070 - 003 - TtpEvDegraded: TTP Degraded, Static Rate Limit Exceeded

Event Type: DIAM
Description: TTP Degraded
Severity: Info
Instance: <TTP Name>:003
HA Score: Normal

Throttle Seconds: 0 (zero)
OID: eagleXgDiameterTtpEvDegradedNotify
Recovery:
 No action required.

22071 - TtgEvLossChg

22071 - 001 - TtgEvLossChg: TTG Loss Percent Changed

Event Type: DIAM
Description: TTG's Loss Percentage was modified.
Severity: Info
Instance: <TTG Name>:001
HA Score: Normal
Throttle Seconds: 0 (zero)
OID: eagleXgDiameterTtpEvDoicExceptionNotify
Recovery:
 No action required.

22072 - TTP Degraded

Alarm Group DIAM
Description The TTP's Operational Status has been changed to Degraded.
Severity Major
Instance <TTP Name>
HA Score Normal
Auto Clear Seconds 0
OID eagleXgDiameterTtpDegradedNotify
Recovery
 No action required.

22073 - TTP Throttling Stopped

Alarm Group DIAM
Description TTP rate throttling has been suspended due to an internal failure.

Severity	Minor
Instance	<DA-MP Name>
HA Score	Normal
Auto Clear Seconds	0
OID	eagleXgDiameterTtpThrottlingStoppedNotify

Recovery:

1. Verify that ComAgent links setup between DA-MPs have not gone OOS causing SMS Service to not receive Responses from DA-MP Leader under **Main Menu > Communication Agent > Maintenance**.
2. Verify that ComAgent links are established between DA-MPs under **Main Menu > Communication Agent > Maintenance**
3. Verify the No-MP Leader condition in **Main Menu > Diameter > Maintenance > DA-MPs > Peer DA-MP Status** that at least 1 DA-MP is MP-Leader.
4. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22074 - TTP Maximum Loss Percentage Threshold Exceeded

Alarm Group	DIAM
Description	The Maximum Loss Percentage Threshold assigned to the TTP has been exceeded.
Severity	Major
Instance	<TTP Name>
HA Score	Normal
Auto Clear Seconds	0
OID	eagleXgDiameterTtpMaxLossPercentageExceededNotify

Recovery

No action required.

22075 - Message is not routed to Application

Alarm Group:	DIAM
Description:	ART Rule-X was selected but message was not routed because DSR Application is Disabled or not Available.
Severity:	Major
Instance:	<DSR Application Name>
HA Score:	Normal
Auto Clear Seconds:	0
OID:	eagleXgDiameterArtMatchAppUnavailableNotify

Recovery:

1. Check the Application Status by selecting **Diameter > Maintenance > Applications** and Enable the application if the Admin State of the DSR Application is Disabled for a particular DA-MP(s) which raised the alarm.
2. If the Application is Enabled for a particular DA-MP, but the Operational Status is Unavailable or Degraded, then refer to the Operational Reason and rectify it accordingly.
3. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22101 - FsmOpStateUnavailable

Alarm Group:	DIAM
Description:	Connection is unavailable for Diameter Request/ Answer exchange with peer. Note: This alarm is not added when the "Suppress Connection Unavailable Alarm" for a Transport Connection is set to "Yes".
Severity:	Major
Instance:	<Connection Name>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterFsmOpStateUnavailable

Recovery:

1. Identify the most recent Connection Unavailable event in the event log for the connection and use the Event's recovery steps to resolve the issue.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22102 - FsmOpStateDegraded

Alarm Group:	DIAM
Description:	Connection is only available for routing messages with a priority greater than or equal to the connection's congestion level.
Severity:	Major
Instance:	<Connection Name>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterFsmOpStateDegraded

Recovery:

1. Identify the most recent Connection Degraded event in the event log for the connection and use the Event's recovery steps to resolve the issue.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22103 - SCTP Path Unavailable

Alarm Group:	DIAM
Description:	SCTP multi-homed connection has operationally unavailable path.
Severity:	Minor
Instance:	<ConnectionName>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterSctpPathUnavailable

Recovery:

1. The alarm will clear when the connection is operationally unavailable or all paths are operationally available.

Potential causes are:

- A host IP interface is down.
- A host IP interface is unreachable from the peer.
- A peer IP interface is down.
- A peer IP interface is unreachable from the host.

2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22104 - SCTPPathMismatch

Alarm Group:	DIAM
Description:	SCTP multi-homed connection has path mismatch.
Severity:	Minor
Instance:	<ConnectionName>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterSctpPathMismatch

Recovery:

1. The alarm will clear when the connection is operationally unavailable.

Potential causes are:

- A host IP interface is down.
- A host IP interface is unreachable from the peer.
- The connection is misconfigured on the host.
- A peer IP interface is down.
- A peer IP interface is unreachable from the host.
- The connection is misconfigured on the peer.

2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22200 - MpCpuCongested

Alarm Group:	DIAM
Description:	DA-MP CPU utilization threshold crossed.
Severity:	Minor, Major, Critical
Instance:	dsr.Cpu, ExgStack
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterMpCpuCongestedNotify

Recovery:

1. If one or more MPs in a server site have failed, the traffic will be distributed between the remaining MPs in the server site. MP server status can be monitored from the **Status & Manage > Server** page.
2. The mis-configuration of DIAMETER peers may result in too much traffic being distributed to the MP. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. Each MP in the server site should be receiving approximately the same ingress transaction per second.
3. There may be an insufficient number of MPs configured to handle the network traffic load. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. If all MPs are in a congestion state then the offered load to the server site is exceeding its capacity.
4. The Diameter Process may be experiencing problems. The alarm log should be examined using the **Alarms & Events** page.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22201 - MpRxAllRate

Alarm Group:	DIAM
Description:	DA-MP ingress message rate threshold crossed.
Severity:	Minor, Major, Critical
Instance:	MpRxAllRate, DIAM
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterMpRxAllRateNotify

Recovery:

1. If one or more MPs in a server site have failed, the traffic will be distributed between the remaining MPs in the server site. MP server status can be monitored from the **Status & Manage > Server** page.

2. The mis-configuration of Diameter peers may result in too much traffic being distributed to the MP. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. Each MP in the server site should be receiving approximately the same ingress transaction per second.
3. There may be an insufficient number of MPs configured to handle the network traffic load. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. If all MPs are in a congestion state then the offered load to the server site is exceeding its capacity.
4. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22202 - MpDiamMsgPoolCongested

Alarm Group:	DIAM
Description:	DA-MP Diameter message pool utilization threshold crossed.
Severity:	Minor, Major, Critical
Instance:	MpDiamMsgPool, DIAM
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterMpDiamMsgPoolCongestedNotify

Recovery:

1. If one or more MPs in a server site have failed, the traffic will be distributed between the remaining MPs in the server site. MP server status can be monitored from the **Status & Manage > Server** page.
2. The mis-configuration of Diameter peers may result in too much traffic being distributed to the MP. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. Each MP in the server site should be receiving approximately the same ingress transaction per second.
3. There may be an insufficient number of MPs configured to handle the network traffic load. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. If all MPs are in a congestion state then the offered load to the server site is exceeding its capacity.
4. A software defect may exist resulting in PDU buffers not being deallocated to the pool. This alarm should not normally occur when no other congestion alarms are asserted. The alarm log should be examined using the **Alarms & Events** page.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22203 - PTR Buffer Pool Utilization

Alarm Group:	DIAM
Description:	The MP's PTR buffer pool is approaching its maximum capacity. If this problem persists and the pool reaches 100% utilization all new ingress messages will be discarded. This alarm should not normally occur when no other congestion alarms are asserted.
Severity:	Minor, Major, Critical

Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterPtrBufferPoolUtilNotify

Recovery:

1. If one or more MPs in a server site have failed, the traffic will be distributed between the remaining MPs in the server site. MP server status can be monitored from the **Status & Manage > Server** page.
2. The mis-configuration of Diameter peers may result in too much traffic being distributed to the MP. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. Each MP in the server site should be receiving approximately the same ingress transaction per second.
3. There may be an insufficient number of MPs configured to handle the network traffic load. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. If all MPs are in a congestion state then the offered load to the server site is exceeding its capacity.
4. A software defect may exist resulting in PTR buffers not being deallocated to the pool. This alarm should not normally occur when no other congestion alarms are asserted. The alarm log should be examined from the **Alarms & Events** page.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22204 - Request Message Queue Utilization

Alarm Group:	DIAM
Description:	The MP's Request Message Queue Utilization is approaching its maximum capacity. If this problem persists and the queue reaches 100% utilization all new ingress Request messages will be discarded. This alarm should not normally occur when no other congestion alarms are asserted.
Severity:	Minor, Major, Critical
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterRequestMessageQueueUtilNotify

Recovery:

1. If one or more MPs in a server site have failed, the traffic will be distributed between the remaining MPs in the server site. MP server status can be monitored from the **Status & Manage > Server** page.
2. The mis-configuration of Diameter peers may result in too much traffic being distributed to the MP. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. Each MP in the server site should be receiving approximately the same ingress transaction per second.

3. There may be an insufficient number of MPs configured to handle the network traffic load. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. If all MPs are in a congestion state then the offered load to the server site is exceeding its capacity.
4. If no additional congestion alarms are asserted, the Request Task may be experiencing a problem preventing it from processing messages from its Request Message Queue. The alarm log should be examined from the **Alarms & Events** page.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22205 - Answer Message Queue Utilization

Alarm Group:	DIAM
Description:	The MP's Answer Message Queue Utilization is approaching its maximum capacity. If this problem persists and the queue reaches 100% utilization all new ingress Answer messages will be discarded. This alarm should not normally occur when no other congestion alarms are asserted.
Severity:	Minor, Major, Critical
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterAnswerMessageQueueUtilNotify

Recovery:

1. If one or more MPs in a server site have failed, the traffic will be distributed between the remaining MPs in the server site. MP server status can be monitored from the **Status & Manage > Server** page.
2. The mis-configuration of Diameter peers may result in too much traffic being distributed to the MP. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. Each MP in the server site should be receiving approximately the same ingress transaction per second.
3. There may be an insufficient number of MPs configured to handle the network traffic load. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. If all MPs are in a congestion state then the offered load to the server site is exceeding its capacity.
4. If no additional congestion alarms are asserted, the Answer Task may be experiencing a problem preventing it from processing messages from its Answer Message Queue. The alarm log should be examined from the **Alarms & Events** page.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22206 - Reroute Queue Utilization

Alarm Group:	DIAM
Description:	The MP's Reroute Queue is approaching its maximum capacity. If this problem persists and the queue reaches 100% utilization any transactions requiring rerouting will be rejected. This alarm should not normally occur when no other congestion alarms are asserted.

Severity:	Minor, Major, Critical
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterRerouteQueueUtilNotify

Recovery:

1. An excessive amount of Request message rerouting may have been triggered by either connection failures or Answer time-outs. The status of connections should be examined from the **Diameter > Maintenance > Connections** page.
2. If no additional congestion alarms are asserted, the Reroute Task may be experiencing a problem preventing it from processing messages from its Reroute Queue. The alarm log should be examined using the **Alarms & Events** page.
3. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22207 - DclTxTaskQueueCongested

Alarm Group:	DIAM
Description:	DCL egress task message queue utilization threshold crossed.
Severity:	Minor, Major, Critical
Instance:	<DA-MP Name>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterDclTxTaskQueueCongested

Recovery:

1. The alarm will clear when the DCL egress task message queue utilization falls below the clear threshold. The alarm may be caused by one or more peers being routed more traffic than is nominally expected.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22208 - DclTxConnQueueCongested

Alarm Group:	DIAM
Description:	DCL egress connection message queue utilization threshold crossed.
Severity:	Minor, Major, Critical
Instance:	<ConnectionName>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)

OID: eagleXgDiameterDclTxConnQueueCongested

Recovery:

1. The alarm will clear when the DCL egress connection message queue utilization falls below the clear threshold. The alarm may be caused by peers being routed more traffic than nominally expected.
2. Contact [My Oracle Support \(MOS\)](#) for further assistance.

22209 - Message Copy Disabled

Alarm Group: DIAM

Description: Diameter Message Copy is disabled.

Severity: Minor

Instance: N/A

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: eagleXgDiameterMessageCopyDisabledNotify

Recovery:

1. If one or more MPs in a server site have failed, the traffic will be distributed between the remaining MPs in the server site. MP server status can be monitored from the **Status & Manage > Server** page.
2. The mis-configuration of Diameter peers may result in too much traffic being distributed to the MP. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. Each MP in the server site should be receiving approximately the same ingress transaction per second.
3. There may be an insufficient number of MPs configured to handle the network traffic load. The ingress traffic rate of each MP can be monitored from the **Status & Manage > KPIs** page. If all MPs are in a congestion state then the offered load to the server site is exceeding its capacity.
4. The Diameter Process may be experiencing problems. The alarm log should be examined using the **Alarms & Events** page.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22214 - Message Copy Queue Utilization

Alarm Group: DIAM

Description: The DA-MP's Message Copy queue utilization is approaching its maximum capacity.

Severity: Minor, Major, Critical

Instance: N/A

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: eagleXgDiameterMsgCopyQueueUtilNotify

Recovery:

1. Reduce traffic to the MP.
2. Verify that no network issues exist between the DA-MP and the intended DAS peer(s).
3. Verify that the intended DAS peer has sufficient capacity to process the traffic load being routed to it.
4. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22221 - Routing MPS Rate

Alarm Group: DIAM

Description: Message processing rate for this MP is approaching or exceeding its engineered traffic handling capacity. The routing mps rate (MPS/second) is approaching or exceeding its engineered traffic handling capacity for the MP.

Severity: Minor, Major, Critical

Instance: N/A

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: eagleXgDiameterRoutingMpsRateNotify

Recovery:

1. If one or more MPs in a server site have failed, the traffic will be distributed amongst the remaining MPs in the server site.
MP server status can be monitored from **Main Menu > Status & Manage > Server Status**.
2. The mis-configuration of Diameter peers may result in too much traffic being distributed to the MP.
The routing mps rate of each MP can be monitored from **Main Menu > Status & Manage > KPIs**. Each MP in the server site should be receiving approximately the same ingress transaction per second.
3. There may be an insufficient number of MPs configured to handle the network traffic load.
The routing mps rate of each MP can be monitored from **Main Menu > Status & Manage > KPIs**. If all MPs are in a congestion state then the ingress message rate to the MP is exceeding its capacity to process the messages.
4. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22222 - Long Timeout PTR Buffer Pool Utilization

Alarm Group: DIAM

Description:	The MP's Long Timeout PTR buffer pool is approaching its maximum capacity.
Severity:	Minor, Major, Critical
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterLongTimeoutPtrBufferPoolUtilNotify

Recovery:

1. If one or more MPs in a server site have failed, the traffic will be distributed amongst the remaining MPs in the server site. Monitor the MP server status from **Main Menu > Status & Manage > Server Status**.
2. The misconfiguration of Pending Answer Timer assignment may result in excessive traffic being assigned to the Long Timeout PTR buffer Pool. View the Pending Answer Timer values via **Diameter > Configuration > Pending Answer Timers**. Examine the Pending Answer Timers assignment via the **Diameter > Configuration > Application Ids and Diameter > Configuration > Peer Nodes**.
3. The misconfiguration of Diameter peers may result in too much traffic being distributed to the MP. Monitor the ingress traffic rate of each MP from **Main Menu > Status & Manage > KPIs**. Each MP in the server site should be receiving approximately the same ingress transaction per second
4. There may be an insufficient number of MPs configured to handle the network traffic load. Monitor the ingress traffic rate of each MP from **Main Menu > Status & Manage > KPIs**. If all MPs are in a congestion state then the offered load to the server site is exceeding its capacity.
5. A software defect may exist resulting in Long Timeout PTR buffers not being de-allocated to the pool. This alarm should not normally occur when no other congestion alarms are asserted. Examine the alarm log from **Main Menu > Alarms & Events**.
6. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22223 - MpMemCongested

Alarm Group:	DIAM
Description:	DA-MP memory utilization threshold crossed.
Severity:	Minor, Major, Critical
Instance:	System.RAM_UtilPct, DSR
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterMpMemCongestedNotify

Recovery:

Potential causes for this alarm are:

- One or more peers are generating more traffic than is nominally expected.
- Configuration requires more CPU usage for message processing than is nominally expected.
- One or more peers are answering slowly, causing a backlog of pending transactions.

22224 - Average Hold Time Limit Exceeded

Alarm Group:	DIAM
Description:	The average transaction hold time has exceeded its configured limits.
Severity:	Minor, Major, Critical
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterAvgHoldTimeLimitExceededNotify

Recovery:

The average transaction hold time is exceeding its configured limits, resulting in an abnormally large number of outstanding transactions. Reduce the average hold time by examining the configured Pending Answer Timer values and reducing any values that are unnecessarily large.

22225 - MpRxDiamAllLen

Alarm Group:	DIAM
Description:	The Diameter average ingress message length threshold was crossed.
Severity:	Minor, Major, Critical
Instance:	<DA-MP Name>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterMpRxDiamAllLen

Recovery:

The alarm will clear when the average ingress message length falls below the clear threshold. The alarm may be caused by one or more peers generating larger messages than is nominally expected.

22328 - IcRate

Alarm Group:	DIAM
Description:	The diameter connection specified in the alarm instance is processing a higher than normal ingress messaging rate.
Severity:	<ul style="list-style-type: none"> Minor (if all of the following are true): <ul style="list-style-type: none"> The average ingress MPS rate that the connection is processing has reached the percentage of the connection's maximum ingress MPS rate configured for the connection minor alarm threshold.

- The average ingress MPS rate that the connection is processing has not yet reached the percentage of the connection's maximum ingress MPS rate configured for the connection major alarm threshold.
- Major (if the following are true):
 - The average ingress MPS rate that the connection is processing has reached the percentage of the connection's maximum ingress MPS rate configured for the connection major alarm threshold.

Instance: <Connection Name>

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: eagleXgDiameterImr

Recovery:

1. The Diameter connection specified in the Alarm Instance field is processing a higher than expected average ingress Diameter message rate. The alarm thresholds for minor and major alarms are configured in the Capacity Configuration Set used by the Diameter connection.
2. The message rate used for this alarm is an exponentially smoothed 30 second average. This smoothing limits false alarms due to short duration spikes in the ingress message rate.
3. If the alarm severity is minor, the alarm means that the average ingress message rate has exceeded the minor alarm threshold percentage of the maximum ingress MPS configured for the connection.
4. If the alarm severity is major, the alarm means that the average ingress message rate has exceeded the major alarm threshold percentage of the maximum ingress MPS configured for the connection.
5. This alarm is cleared when the average ingress message rate falls 5% below the minor alarm threshold, or the connection becomes disabled or disconnected. This alarm is downgraded from major to minor if the average ingress message rate falls 5% below the major alarm threshold.
6. If the average ingress message rate is determined to be unusually high, investigate the connection's remote Diameter peer (the source of the ingress messaging) to determine why they are sending the abnormally high traffic rate. Otherwise, consider increasing either the connection's maximum ingress MPS rate or the connection's alarm thresholds.

22349 - IPFE Connection Alarm Aggregation Threshold

Alarm Group: DIAM

Description: This alarm occurs when there are a 'Critical' number of IPFE Connection alarms for the Network Element.

Note: The Alarm Thresholds are configurable using the "Alarm Threshold Options" tab on the **Main Menu > Diameter > Configuration > System Options** screen.

Severity: Major, Critical

Note: The Critical threshold may be disabled by setting the Critical Threshold to zero using the "Alarm Threshold Options" tab on the **Main Menu > Diameter > Configuration > System Options** screen.

Instance: <NetworkElement>
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: eagleXgDiameterIPFEConnUnavailableThresholdReachedNotify

Recovery:

1. Use **Main Menu > Diameter > Maintenance > Connection** to monitor IPFE Connection status.
2. Confirm that peer connection configuration (protocol, remote/local IP address, remote/local port) matches the local connection configuration.
3. Confirm that the connection's transport protocol and/or port are not being blocked by a network firewall or other ACL in the network path.
4. Verify that the peers in the Route List are not under maintenance.
5. Contact [My Oracle Support \(MOS\)](#) for assistance.

22350 - Fixed Connection Alarm Aggregation Threshold

Alarm Group: DIAM

Description: This alarm occurs when there are a 'Critical' number of Fixed Connection alarms for the DA-MP.
Note: The Alarm Thresholds are configurable using the "Alarm Threshold Options" tab on the **Main Menu > Diameter > Configuration > System Options** screen.

Severity: Major, Critical
Note: The Critical threshold may be disabled by setting the Critical Threshold to zero using the "Alarm Threshold Options" tab on the **Main Menu > Diameter > Configuration > System Options** screen.

Instance: <DA-MP-Hostname>
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: eagleXgDiameterConnUnavailableThresholdReachedNotify

Recovery:

1. Use **Main Menu > Diameter > Maintenance > Connection** to monitor Fixed Connection status.
2. Confirm that peer connection configuration (protocol, remote/local IP address, remote/local port) matches the local connection configuration.
3. Confirm that the connection's transport protocol and/or port are not being blocked by a network firewall or other ACL in the network path.
4. Verify that the peers in the Route List are not under maintenance.
5. Contact [My Oracle Support \(MOS\)](#) for assistance.

22900 - DPI DB Table Monitoring Overrun

Event Type:	DIAM
Description:	The COMCOL update sync log used by DB Table monitoring to synchronize Diameter Connection Status among all DA-MP RT-DBs has overrun. The DA-MP's Diameter Connection Status sharing table is automatically audited and re-synced to correct any inconsistencies.
Severity:	Info
Instance:	<DbTblName> Note: <DbTblName> refers to the name of the Diameter Connection Status Sharing Table the Diameter Connection status inconsistency that was detected.
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterDpiTblMonCbOnLogOverrunNotify
Recovery:	Contact My Oracle Support (MOS) if this alarm is constantly being asserted and cleared.

22901 - DPI DB Table Monitoring Error

Event Type:	DIAM
Description:	An unexpected error occurred during DB Table Monitoring.
Severity:	Info
Instance:	DpiTblMonThreadName
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterDpiSldbMonAbnormalErrorNotify
Recovery:	Contact My Oracle Support (MOS) .

22950 - Connection Status Inconsistency Exists

Alarm Group:	DIAM
Description:	Diameter Connection status inconsistencies exist among the DA-MPs in the DSR signaling NE.
Severity:	Critical
Instance:	<DbTblName> (Name of the Diameter Connection Status Sharing Table where the Diameter Connection status inconsistency was detected)

HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: eagleXgDiameterConnStatusInconsistencyExistsNotify

Recovery:

No action necessary.

Note: DA-MP's SLDB tables are automatically audited and re-synchronized to correct inconsistencies after a log overrun has occurred.

22960 - DA-MP Profile Not Assigned

Alarm Group: DIAM
Description: A DA-MP configuration profile has not been assigned to this DA-MP.
Severity: Critical
Instance: N/A
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: eagleXgDiameterDaMpProfileNotAssignedNotify

Recovery:

1. A DA-MP profile must be assigned to the DA-MP via the DSR OAM GUI.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22961 - Insufficient Memory for Feature Set

Alarm Group: DIAM
Description: The Available Memory (in kilobytes) for Feature Set is less than the Required Memory (in kilobytes).
Severity: Critical
Instance: N/A
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: eagleXgDiameterInsufficientAvailMemNotify

Recovery:

1. Make additional memory available on the DA-MP for the configured DiameterMaxMessageSize.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

25805 - Invalid Shared TTG Reference

Alarm Group	DIAM
Description	Invalid Shared TTG Reference
Severity	Minor
Instance	<Route List Name>&<Route Group Name>&<TTG SG Name>&<TTG Name>
HA Score	Normal
Auto Clear Seconds	N/A
OID	eagleXgDiameterDoicInvalidSharedTtgRefNotify

Recovery

1. For the Route List named in the alarm instance, edit its configuration and delete the association to the non-existent Shared TTG. Then,
2. If desired, re-create the Shared TTG at its host site, and re-add the association to the Route List/Route Group.

Note: Because, internally, the association of a TTG to the RL/RG is based on an internal ID, (not the TTG name), it is not valid to leave the original association in the Route List configuration and simply create a new Shared TTG with original name. This will not work, as the internal ID for the original TTG will not be the same as the ID for the new TTG (even though the TTG name is the same).

25806 - Invalid Internal SOAM Server Group Designation

Alarm Group	DIAM
Description	Invalid Internal SOAM Server Group Designation
Severity	Minor
Instance	<Route List Name>&<Route Group Name>&<TTG SG Name>&<TTG Name>
HA Score	Normal
Auto Clear Seconds	N/A
OID	eagleXgDiameterDoicInvalidInternalSoamSgDesignationNotify

Recovery

For the Route List named in the alarm instance, edit its configuration and delete the association to the Shared TTG. This will clear the alarm. The association can simply be re-added to restore integrity to the configuration.

Range Based Address Resolution (RBAR) Alarms and Events (22400-22424)

22400 - Message Decoding Failure

Event Type:	RBAR
Description:	A message received was rejected because of a decoding failure.
Severity:	Info
Instance:	<MPName>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterRbarMsgRejectedDecodingFailureNotify

Recovery:

While parsing the message, the message content was inconsistent with the Message Length in the message header. These protocol violations can be caused by the originator of the message (identified by the Origin-Host AVP in the message) or the peer who forwarded the message to this node.

22401 - Unknown Application ID

Event Type:	RBAR
Description:	A message could not be routed because the Diameter Application ID is not supported.
Severity:	Info
Instance:	<MPName>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterRbarUnknownApplIdNotify

Recovery:

1. The DSR Relay Agent forwarded a Request message to the address resolution application which contained an unrecognized Diameter Application ID in the header. Either a DSR Relay Agent application routing rule is mis-provisioned or the Application ID is not provisioned in the RBAR routing configuration.
2. View the currently provisioned Diameter Application IDs by selecting **RBAR > Configuration > Applications**.
3. View the currently provisioned Application Routing Rules by selecting **Diameter > Configuration > Application Route Tables**.

22402 - Unknown Command Code

Event Type:	RBAR
Description:	A message could not be routed because the Diameter Command Code in the ingress Request message is not supported and the Routing Exception was configured to send an Answer response.
Severity:	Info
Instance:	<MPName>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterRbarUnknownCmdCodeNotify

Recovery:

1. The order pair (Application ID, Command Code) is not provisioned in the Address Resolutions routing configuration.
2. View the currently provisioned Application IDs and Command Codes by selecting **RBAR > Configuration > Address Resolutions**.

22403 - No Routing Entity Address AVPs

Event Type:	RBAR
Description:	A message could not be routed because no address AVPs were found in the message and the Routing Exception was configured to send an Answer response.
Severity:	Info
Instance:	<AddressResolution>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterRbarNoRoutingEntityAddrAvpNotify

Recovery:

1. This may be a normal event or an event associated with misprovisioned address resolution configuration. If this event is considered abnormal, validate which AVPs are configured for routing with the Application ID and Command Code.
2. View the currently provisioned Application IDs and Command Codes by selecting **RBAR > Configuration > Address Resolutions**.

22404 - No valid Routing Entity Addresses found

Event Type:	RBAR
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Description:	A message could not be routed because none of the address AVPs contained a valid address and the Routing Exception was configured to send an Answer response.
Severity:	Info
Instance:	<AddressResolution>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterRbarNoValidRoutingEntityAddrFoundNotify

Recovery:

1. This may be a normal event or an event associated with misprovisioned address resolution configuration. If this event is considered abnormal, validate which AVPs are configured for routing with the Application ID and Command Code.
2. View the currently provisioned Application IDs and Command Codes by selecting **RBAR > Configuration > Address Resolutions**.

22405 - Valid address received didn't match a provisioned address or address range

Event Type:	RBAR
Description:	A message could not be routed because a valid address was found that did not match an individual address or address range associated with the Application ID, Command Code, and Routing Entity Type, and the Routing Exception was configured to send an Answer response.
Severity:	Info
Instance:	<AddressResolution>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterRbarAddrMismatchWithProvisionedAddressNotify

Recovery:

1. An individual address or address range associated with the Application ID, Command Code and Routing Entity Type may be missing from the RBAR configuration. Validate which address and address range tables are associated with the Application ID, Command Code and Routing Entity Type.
2. View the currently provisioned Application IDs, Command Codes, and Routing Entity Types by selecting **RBAR > Configuration > Address Resolutions**.

22406 - Routing attempt failed due to internal resource exhaustion

Event Type:	RBAR
Description:	A message could not be routed because the internal "Request Message Queue" to the DSR Relay Agent was full. This should not

occur unless the MP is experiencing local congestion as indicated by Alarm-ID [22200 - MpCpuCongested](#).

Severity:	Info
Instance:	<MPName>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterRbarRoutingAttemptFailureInternalResExhNotify

Recovery:

If this problem occurs, contact [My Oracle Support \(MOS\)](#).

22407 - Routing attempt failed due to internal database inconsistency failure

Event Type:	RBAR
Description:	A message could not be routed because an internal address resolution run-time database inconsistency was encountered.
Severity:	Info
Instance:	<MPName>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterRbarRoutingFailureInternalDbInconsistencyNotify

Recovery:

If this problem occurs, contact [My Oracle Support \(MOS\)](#).

Generic Application Alarms and Events (22500-22599)

Note: These alarms are generic across the various DSR applications with some details varying depending on the application generating the alarm.

22500 - DSR Application Unavailable

Alarm Group:	APPL
Description:	DSR Application is unable to process any messages because it is Unavailable.
Severity:	Critical
Instance:	<DSR Application Name>

Note: The value for DSR Application Name will vary depending on the DSR application generating the alarm (CPA, FABR, Policy DRA,

RBAR, etc.). Use the name that corresponds to the specific DSR application in use.

HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: eagleXgDiameterDsrApplicationUnavailableNotify

Recovery:

1. Display and monitor the DSR Application status by selecting **Diameter > Maintenance > Applications** in the SO GUI. Verify that the Admin State is set as expected.
2. A DSR Application operation status becomes Unavailable when either the Admin State is set to Disable with the Forced Shutdown option, or the Admin State is set to Disable with the Graceful Shutdown option and the Graceful Shutdown timer expires.
3. A DSR Application can also become Unavailable when it reaches Congestion Level 3 if enabled.

Note: This alarm will NOT be raised when the DSR application is shutting down gracefully or application is in Disabled state. Only the DSR Application operational status will be changed to Unavailable.

4. Check the Event History logs for additional DIAM events or alarms for this MP server.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22501 - DSR Application Degraded

Alarm Group: APPL
Description: Unable to forward requests to the DSR Application because it is Degraded.
Severity: Major
Instance: <DSR Application Name>
Note: The value for DSR Application Name will vary depending on the DSR application generating the alarm (CPA, PCA, FABR, Policy DRA, RBAR, etc.). Use the name that corresponds to the specific DSR application in use.
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: eagleXgDiameterDsrApplicationDegradedNotify

Recovery:

1. Display and monitor the DSR Application status by selecting **Diameter > Maintenance > Applications** in the SO GUI. Verify that the Admin State is set as expected.
2. A DSR Application becomes Degraded when the DSR Application becomes congested if enabled.

Note: This alarm will NOT be raised when the DSR application is shutting down gracefully or application is in Disabled state. Only the DSR Application operational status will be changed to Unavailable.

3. Check the Event History logs for additional DIAM events or alarms for this MP server.
4. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22502 - DSR Application Request Message Queue Utilization

Alarm Group:	APPL
Description:	The DSR Application Request Message Queue Utilization is approaching its maximum capacity.
Severity:	Minor, Major, Critical
Instance:	<Metric ID>, <DSR Application Name> Note: The value for Metric ID for this alarm will vary (RxDraRequestMsgQueue, RxCpaRequestMsgQueue for example) depending on which DSR application generates the alarm (CPA, FABR, Policy DRA, RBAR, etc.). Use the ID that corresponds to the specific DSR application in use. Note: The value for DSR Application Name will vary depending on the DSR application generating the alarm (CPA, PCA, FABR, Policy DRA, RBAR, etc.). Use the name that corresponds to the specific DSR application in use.
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterDsrApplicationRequestQueueUtilNotify

Recovery:

1. Display and monitor the DSR Application status by selecting **Diameter > Maintenance > Applications** in the SO GUI. Verify that the Admin State is set as expected.
The DSR Application's Request Message Queue Utilization is approaching its maximum capacity. This alarm should not normally occur when no other congestion alarms are asserted.
2. Application Routing might be mis-configured and is sending too much traffic to the DSR Application. Verify the configuration by selecting **Diameter > Configuration > Application Route Tables**.
3. If no additional congestion alarms are asserted, the DSR Application Task might be experiencing a problem that is preventing it from processing message from its Request Message Queue. Examine the Alarm log in **Alarms & Events**
4. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22503 - DSR Application Answer Message Queue Utilization

Alarm Group:	APPL
Description:	The DSR Application Answer Message Queue Utilization is approaching its maximum capacity.
Severity:	Minor, Major, Critical

Instance: <Metric ID>, <DSR Application Name>

Note: The value for Metric ID for this alarm will vary (RxPdraAnswerMsgQueue, RxCpaAnswerMsgQueue for example) depending on which DSR application generates the alarm (CPA, FABR, Policy DRA, RBAR, etc.). Use the ID that corresponds to the specific DSR application in use.

Note: The value for DSR Application Name will vary depending on the DSR application generating the alarm (CPA, PCA, FABR, Policy DRA, RBAR, etc.). Use the name that corresponds to the specific DSR application in use.

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: eagleXgDiameterDsrApplicationAnswerQueueUtilNotify

Recovery:

1. Application Routing might be mis-configured and is sending too much traffic to the DSR Application. Verify the configuration by selecting **Diameter > Configuration > Application Route Tables** in the SO GUI.
2. If no additional congestion alarms are asserted, the DSR Application Task might be experiencing a problem that is preventing it from processing message from its Answer Message Queue. Examine the Alarm log in **Alarms & Events**
3. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22504 - DSR Application Ingress Message Rate

Alarm Group: APPL

Description: The ingress message rate for the DSR Application is exceeding its engineered traffic handling capacity.

Severity: Minor, Major, Critical

Instance: <Metric ID>, <DSR Application Name>

Note: The value for Metric ID for this alarm will vary (RxPdraMsgRate, RxCpaMsgRate for example) depending on which DSR application generates the alarm (CPA, FABR, Policy DRA, RBAR, etc.). Use the ID that corresponds to the specific DSR application in use.

Note: The value for DSR Application Name will vary depending on the DSR application generating the alarm (CPA, PCA, FABR, Policy DRA, RBAR, etc.). Use the name that corresponds to the specific DSR application in use.

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: eagleXgDiameterDsrApplicationIngressMsgRateNotify

Recovery:

1. Application Routing might be mis-configured and is sending too much traffic to the DSR Application. Verify the configuration by selecting **Diameter > Configuration > Application Route Tables** in the SO GUI.
2. There may be an insufficient number of MPs configured to handle the network load. Monitor the ingress traffic rate of each MP by selecting **Main Menu > Status & Manage > KPIs**.
If MPs are in a congestion state, then the offered load to the server site is exceeding its capacity.
3. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22520 - DSR Application Enabled

Event Type:	APPL
Description:	DSR Application Admin state was changed to 'enabled'.
Severity:	Info
Instance:	<DSR Application Name>
HA Score:	Normal
Throttle Seconds:	0 (zero)
OID:	eagleXgDiameterDsrApplicationEnabledNotify
Recovery:	No action required.

22521 - DSR Application Disabled

Event Type:	APPL
Description:	DSR Application Admin state was changed to 'disabled'.
Severity:	Info
Instance:	<DSR Application Name>
HA Score:	Normal
Throttle Seconds:	0 (zero)
OID:	eagleXgDiameterDsrApplicationDisabledNotify
Recovery:	No action required.

Full Address Based Resolution (FABR) Alarms and Events (22600-22640)

22600 - Message Decoding Failure

Event Type:	FABR
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Description:	Message received was rejected because of a decoding failure. While parsing the message, the message content was inconsistent with the "Message Length" in the message header. These protocol violations can be caused by the originator of the message (identified by the Origin-Host AVP in the message), the peer who forwarded the message to this node, or any intermediate node that modifies the message.
Severity:	Info
Instance:	<MPName>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterFabrMsgRejectedDecodingFailureNotify
Recovery:	Contact My Oracle Support (MOS) for assistance.

22601 - Unknown Application ID

Event Type:	FABR
Description:	<p>Message could not be routed because the Diameter Application ID is not supported.</p> <p>A Request message was forwarded to the FABR application which contained an unrecognized Diameter Application ID in the header. Either an application routing rule is mis-provisioned or the Application ID is not provisioned in the FABR configuration.</p>
Severity:	Info
Instance:	<MPName>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterFabrUnknownAppIdNotify
Recovery:	<ol style="list-style-type: none"> 1. The currently provisioned Application Routing Rules can be viewed using Main Menu > Diameter > Configuration > Application Route Tables. 2. The currently provisioned Diameter Application IDs can be viewed in the FABR > Configuration > Applications Configuration. 3. Contact My Oracle Support (MOS) for assistance.

22602 - Unknown Command Code

Event Type:	FABR
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Description:	Message could not be routed because the Diameter Command Code in the ingress Request message is not supported and the Routing Exception was configured to send an Answer response. Either an application routing rule is mis-provisioned or the Command Code is not provisioned in the FABR configuration.
Severity:	Info
Instance:	<MPName>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterFabrUnknownCmdCodeNotify

Recovery:

1. The currently provisioned Application Routing Rules can be viewed using **Main Menu > Diameter > Configuration > Application Route Tables**.
2. The currently provisioned Diameter Application IDs can be viewed in the **FABR > Configuration > Address Resolutions**.
3. Contact [My Oracle Support \(MOS\)](#) for assistance.

22603 - No Routing Entity Address AVPs

Event Type:	FABR
Description:	Message could not be routed because no address AVPs were found in the message and the Routing Exception was configured to send an Answer response.
Severity:	Info
Instance:	<AddrResolution>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterFabrNoRoutingEntityAddrAvpNotify

Recovery:

1. If this event is considered abnormal, then validate which AVPs are configured for routing with the Application ID and Command Code using **FABR > Configuration > Address Resolutions**.
2. The currently provisioned Application Routing Rules can be viewed using **Main Menu > Diameter > Configuration > Application Route Tables**.
3. Contact [My Oracle Support \(MOS\)](#) for assistance.

22604 - No valid User Identity Addresses found

Event Type:	FABR
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Description:	No valid User Identity Address is found in the configured AVPs contained in the ingress message.
Severity:	Info
Instance:	<AddrResolution>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterFabrNoValidUserIdentityAddrFoundNotify

Recovery:

1. If this event is considered abnormal, then validate which AVPs are configured for routing with the Application ID and Command Code using **FABR > Configuration > Address Resolutions**.
2. The currently provisioned Application Routing Rules can be viewed using **Main Menu > Diameter > Configuration > Application Route Tables**.
3. Contact [My Oracle Support \(MOS\)](#) for assistance.

22605 - No Destination address is found to match the valid User Identity address

Event Type:	FABR
Description:	<p>Message could not be routed because the valid user identity address extracted from the message did not resolve to a destination address. The Routing Exception was configured to send an Answer response. Please verify the provisioning in the address resolution table and the data provided in the SDS corresponding to this address/resolution entry.</p> <p>The FABR address resolution table entry may be misconfigured or the destination address associated with User Identity address from the message and the destination type configured in the address resolution table may be missing from the address mapping configuration. The destination address associated with User Identity address derived may be missing from the address mapping configuration on DP/SDS.</p>
Severity:	Info
Instance:	<AddrResolution>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterFabrNoAddrFoundAtDpNotify

Recovery:

1. Validate the address resolution table entry and verify that a valid destination address is associated with the user identity address by using DP configuration.
For additional information, see Subscriber Database Server online help.
2. Contact [My Oracle Support \(MOS\)](#) for assistance.

22606 - Database or DB connection error

Event Type:	FABR
Description:	FABR application receives service notification indicating Database (DP) or DB connection (ComAgent) Errors (DP timeout, errors or ComAgent internal errors) for the sent database query.
Severity:	Info
Instance:	<MPNname>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterFabrDpErrorsNotify
Recovery:	Contact My Oracle Support (MOS) for assistance.

22607 - Routing attempt failed due to DRL queue exhaustion

Event Type:	FABR
Description:	Message could not be routed because the internal "Request Message Queue" to the DSR Relay Agent was full.
Severity:	Info
Instance:	<MPNname>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterFabrRoutingAttemptFailureDrlQueueExhNotify
Recovery:	Contact My Oracle Support (MOS) for assistance.

22608 - Database query could not be sent due to DB congestion

Event Type:	FABR
Description:	FABR could not send a database query either because the ComAgent reported DP congestion level of (CL=2 or 3), or an abatement period is in progress.
Severity:	Info
Instance:	<MPNname>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterFabrDpCongestedNotify

Recovery:

Contact [My Oracle Support \(MOS\)](#) for assistance.

22609 - Database connection exhausted

Event Type:	FABR
Description:	Database queries could not be sent because the database connection (ComAgent) queue was full.
Severity:	Info
Instance:	<MPNname>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterFabrDbConnectionExhNotify

Recovery:

Contact [My Oracle Support \(MOS\)](#) for assistance.

22610 - FABR DP Service congestion state change

Event Type:	FABR
Description:	FABR application received status notification indicating DP congestion state change or DP congestion abatement time period has completed.
Severity:	Info
Instance:	<MPName>
HA Score:	Normal
Throttle Seconds:	0 (zero)
OID:	eagleXgDiameterFabrDpCongestionStateChangeNotify

Recovery:

Contact [My Oracle Support \(MOS\)](#) for assistance.

22611 - FABR Blacklisted Subscriber

Event Type:	FABR
Description:	Message could not be routed because valid User Identity Address extracted from diameter request belongs to blacklisted subscriber.
Severity:	Info
Instance:	<AddrResolution>
HA Score:	Normal

Throttle Seconds: 10
OID: eagleXgDiameterFabrBlacklistedSubscriberNotify

Recovery:

1. Validate which User identity address is not blacklisted by using DP configuration.
 The destination address associated with User Identity address derived is blacklisted in the address mapping configuration on DDR.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22631 - FABR DP Response Task Message Queue Utilization

Alarm Group: FABR
Description: The FABR Application's DP Response Message Queue Utilization is approaching its maximum capacity.
Severity: Minor, Major, Critical
Instance: RxFabrDpResponseMsgQueue, FABR
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: eagleXgDiameterFabrAppDpResponseMessageQueueUtilizationNotify

Recovery:

1. This alarm may occur due to persistent overload conditions with respect to database response processing.
2. Contact [My Oracle Support \(MOS\)](#) for assistance.

22632 - COM Agent Registration Failure

Alarm Group: FABR
Description: The Communication Agent routing service registration or service notification registration failed, FABR can not use the Communication Agent service for database queries.
Severity: Critical
Instance: Full Address Based Resolution
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: eagleXgDiameterComAgentRegistFailNotify

Recovery:

Contact [My Oracle Support \(MOS\)](#) for assistance.

Policy and Charging Application (PCA) Alarms and Events (22700-22799)

22700 - Protocol Error in Diameter Requests

Event Group:	PCA
Description:	The Diameter Request message(s) received by PCA contain protocol error(s).
Severity:	Info
Instance:	PCA, <PcaFunctionName>
HA Score:	Normal
Throttle Seconds:	60
OID:	pdraPdraProtocolErrorsInDiameterReqNotify
Recovery:	Contact My Oracle Support (MOS) for assistance.

22701 - Protocol Error in Diameter Answers

Event Group:	PCA
Description:	<p>The Diameter Answer message(s) received by PCA contain(s) protocol error(s). This error message is based on error scenarios such as:</p> <ul style="list-style-type: none"> • Command-Code value is not supported • Mandatory AVP used for processing decisions is missing • Mandatory AVP used for processing contains an invalid value • Mandatory Session-Id AVP has a zero-length value <p>Note: This event is not generated when the received Diameter Answer message 'E' (Error) bit is set and a mandatory Diameter command-specific AVP (AVPs other than Session-ID, Origin-Host, Origin-Realm, and result-Code) are missing.</p>
Severity:	Info
Instance:	PCA, <PcaFunctionName>
HA Score:	Normal
Throttle Seconds:	60
OID:	pdraPdraProtocolErrorsInDiameterAnsNotify
Recovery:	Contact My Oracle Support (MOS) for assistance.

22702 - Database Hash Function Error

Event Type:	PCA
Description:	The hash function result does not map to a database resource or sub-resource.
Severity:	Info
Instance:	N/A
HA Score:	Normal
OID:	pdraPdraHashingResDoesNotMatchResOrSubResNotify
Recovery:	Contact My Oracle Support (MOS) for assistance.

22703 - Diameter Message Routing Failure Due To Full DRL Queue

Event Type:	PCA
Description:	The Diameter Egress message could not be sent because the DRL Message Queue is full.
Severity:	Info
Instance:	PCA, <PcaFunctionName>
HA Score:	Normal
Throttle Seconds:	60
OID:	pdraPdraEgressMsgRoutingFailureDueToDrlQueueExhaustedNotify
Recovery:	<ol style="list-style-type: none"> 1. Refer to measurement RxGyRoAnsDiscardDrlQueueFullPerCmd (in the <i>DSR Measurements Reference</i>) to determine the number of Gy/Ro Diameter Credit Control Application Answer messages discarded by OC-DRA due to DRL's Answer queue being full. 2. Contact My Oracle Support (MOS) for assistance.

22704 - Communication Agent Error

Event Type:	PCA
Description:	The Policy and Charging server to SBR server communication failure.
Severity:	Info
Instance:	<PcaFunctionName>
HA Score:	Normal
Throttle Seconds:	60
OID:	pdraPdraStackEventSendingFailureCAUnavailNotify

Recovery:

Contact [My Oracle Support \(MOS\)](#) for assistance.

22705 - SBR Error Response Received

Event Type:	PCA
Description:	The Policy and Charging server received response from SBR server indicating SBR errors.
Severity:	Info
Instance:	<PcaFunctionName>
HA Score:	Normal
Throttle Seconds:	60
OID:	pdraPdراPsbrErrorIndicationNotify

Recovery:

Contact [My Oracle Support \(MOS\)](#) for assistance.

22706 - Binding Key Not Found In Diameter Message

Event Type:	PCA
Description:	A binding key is not found in the received CCR-I message.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	60
OID:	pdraPdراBindingKeyNotFoundNotify

Recovery:

1. Check the P-DRA GUI at **Policy DRA > Configuration > Binding Key Priority**.
2. Contact [My Oracle Support \(MOS\)](#) for assistance

22707 - Diameter Message Processing Failure

Alarm Group:	PCA
Description:	PCA failed to process a Diameter message. The specific reason is provided by the PCA signaling code.
Severity:	Info
Instance:	<PcaFunctionName>
HA Score:	Normal

Throttle Seconds: 60
OID: pdraPdraDiameterMessageProcessingFailureNotify

Recovery:

1. If the event was generated for a Diameter message being discarded due to congestion, refer to the Recovery steps for Alarm [22504 - DSR Application Ingress Message Rate](#).
2. Contact [My Oracle Support \(MOS\)](#) for further assistance.

22708 - PCA Function is Disabled

Alarm Group: PCA
Description: The PCA Function is unable to process any messages because it is Disabled.
Severity: Major
Instance: <PcaFunctionName>
HA Score: Normal
Auto Clear Seconds: 60
OID: pdraPcaFunctionDisabledNotify

Recovery:

1. The PCA Function becomes Disabled when the Admin State is set to Disable. The PCA Function Admin State can be determined from the SOAM GUI **Main Menu > Policy and Charging > General Options**. Verify the admin state is set as expected.
2. If the Admin State of the PCA Function is to remain Disabled, consider changing the ART configuration to stop sending traffic for that function to PCA.
3. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

22709 - PCA Function is Unavailable

Alarm Group: PCA
Description: The PCA Function is unable to process any messages because it is Unavailable.
Severity: Major
Instance: <PcaFunctionName>
HA Score: Normal
Auto Clear Seconds: 0
OID: pdraPcaFunctionUnavailableNotify

Recovery:

1. The availability of the Policy DRA function to receive and process ingress messages is based on its administration state (Enabled or Disabled) and the status of the SBR Binding and Session resources.

2. The availability of the Online Charging DRA function to receive and process ingress messages is based on its administration state (Enabled or Disabled), OCS configuration, and the status of the SBR Session resource.
3. The PCA function is unavailable to receive and process ingress messages for one of the following reasons:
 - "Insufficient Binding SBR Resources" - The number of Binding SBR sub-resources available is less than the minimum number required. Refer to the Recovery steps for Alarm [22722 - Policy Binding Sub-resource Unavailable](#), which will also be asserted.
 - "Insufficient Session SBR Resources" - The number of Session SBR sub-resources available is less than the minimum number required. Refer to the Recovery steps for Alarm [22723 - Policy and Charging Session Sub-resource Unavailable](#), which will also be asserted.
 - "No OCSs Configured at Site" - At least one OCS is required to be locally configured. Use the SOAM GUI Main Menu **Policy and Charging > Configuration > Online Charging DRA > OCSs** to configure an OCS at the site.
 - "Session DB has not been created" - A Session SBR Database must be configured for each Policy and Charging Mated Sites Place Association. Use the Network OAM GUI Main Menu **Policy and Charging > Configuration > SBR Databases** to configure a Session SBR Database.
 - "Binding DB has not been created" - For P-DRA, a Binding SBR Database must be configured. Use the Network OAM GUI Main Menu **Policy and Charging > Configuration > SBR Databases** to configure a Binding SBR Database.
 - "Session DB's admin state is not Enabled" - A Session SBR Database must be Enabled for each Policy and Charging Mated Sites Place Association where signaling is to be processed. Use the Network OAM GUI Main Menu **Policy and Charging > Maintenance > SBR Database Status** to Enable a Session SBR Database.
 - "Binding DB's admin state is not Enabled" - For P-DRA, a Binding SBR Database must be Enabled. Use the Network OAM GUI Main Menu **Policy and Charging > Maintenance > SBR Database Status** to Enable a Binding SBR Database.
4. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

22710 - SBR Sessions Threshold Exceeded

Alarm Group:	SBR
Description:	The number of SBR sessions threshold for a Policy and Charging Mated Sites Place Association has been exceeded.
Severity:	Minor, Major, Critical
Instance:	<SbrDatabaseName>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterPSbrActSessThreshNotify

Recovery:

1. The session database specified in the Instance field is nearing the limit on the number of session records. The alarm thresholds for Session Capacity alarms are configured network wide on the Network OAM from the **Policy and Charging > Configuration > Alarm Settings** screen.

Alarm severity is determined by the number of session records stored in the policy session database exceeding the alarm threshold percentage of the calculated session capacity for the topology.

2. If the alarm assert thresholds are improperly configured, they can be configured on a network-wide basis from the Network OAM Gui Main menu from **Policy DRA > Configuration > Alarm Settings**.
3. In general, the system should be sized to host the expected number of concurrent sessions per policy subscriber.
4. If the system is nearing 100% capacity, contact [My Oracle Support \(MOS\)](#) for further assistance.

22711 - SBR Database Error

Alarm Group:	SBR
Description:	An error occurred during a SBR database operation.
Severity:	Info
Instance:	<SbrServerType>
HA Score:	Normal
Throttle Seconds:	60
OID:	eagleXgDiameterPSBRDbOpFailNotify

Recovery:

1. An unexpected, internal error was encountered while the SBR database was being accessed. This error may occur for a variety of reasons:
 1. The database is filled to capacity
 2. Database inconsistency between NO and SO tables caused by a database restore operation. This issue is corrected by the SBR audit.
2. Contact [My Oracle Support \(MOS\)](#) for further assistance.

22712 - SBR Communication Error

Alarm Group:	SBR
Description:	The SBR received an error or timeout response from Communication Agent for a non-audit stack event.
Severity:	Info
Instance:	<SbrServerType>
HA Score:	Normal
Throttle Seconds:	60
OID:	eagleXgDiameterPSBRStkEvFailComAgentNotify

Recovery:

Contact [My Oracle Support \(MOS\)](#) for further assistance.

22713 - SBR Alternate Key Creation Error

Alarm Group:	SBR
Description:	Failed to create an Alternate Key record in the Binding database.
Severity:	Info
Instance:	Session SBR
HA Score:	Normal
Throttle Seconds:	60
OID:	eagleXgDiameterPSBRAltKeyCreateFailNotify
Recovery:	Contact My Oracle Support (MOS) for further assistance.

22714 - SBR RAR Initiation Error

Alarm Group:	SBR
Description:	SBR encountered an error while processing PCA initiated RAR requests.
Severity:	Info
Instance:	Session SBR
HA Score:	Normal
Throttle Seconds:	60
OID:	eagleXgDiameterPSBRRARInitiationErrNotify
Recovery:	Contact My Oracle Support (MOS) for further assistance.

22715 - SBR Audit Suspended

Alarm Group:	SBR
Description:	SBR binding and/or session auditing has been suspended because the Session Integrity send rate is more than the engineering configurable threshold, or due to a congestion condition on either the local server reporting the alarm or on a remote server being queried for auditing purposes.
Severity:	Minor
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	0 (zero)

OID: eagleXgDiameterPSBRAuditSuspendedNotify

Recovery:

1. The audit cleans up stale records in the database. Prolonged suspension of the audit could result in the exhaustion of memory resources on a binding or session SBR server. Investigate the causes of congestion on the SBR servers (see Alarm [22725 - SBR Server In Congestion](#)).
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22716 - SBR Audit Statistics Report

Event Group: SBR

Description: This report provides statistics related to SBR session or binding table audits. Each SBR server generates this event upon reaching the last record in a table. The statistics reported are appropriate for the type of table being audited. This report also provides hourly statistics related to the Pending RAR report.

Severity: Info

Instance: <PcaTableName>

HA Score: Normal

Throttle Seconds: 0 (zero)

OID: eagleXgDiameterPSBRAuditStatisticsReportNotify

Recovery:

Contact [My Oracle Support \(MOS\)](#).

22717 - SBR Alternate Key Creation Failure Rate

Alarm Group: SBR

Description: SBR Alternate Key Creation Failure rate exceeds threshold.

Severity: Minor, Major, Critical

Instance: PsbrAltKeyCreationFailureRate, SBR

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: eagleXgDiameterPSBRAltKeyCreationFailureRateNotify

Recovery:

If the further assistance is needed, contact [My Oracle Support \(MOS\)](#).

22718 - Binding Not Found for Binding Dependent Session Initiate Request

Event Group: PCA

Description:	Binding record is not found for the configured binding keys in the binding dependent session-initiation request message.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	60
OID:	pdraPdraBindingRecordNotFoundNotify

Recovery:

1. Check the Policy and Charging GUI Main Menu **Policy and Charging > Configuration > Binding Key Priority** on the subscriber key priorities to ensure the configuration is correct.
2. Using the Binding Key Query Tool, check if a binding exists for the binding keys at **Policy DRA > Configuration > Binding Key Priority**.

22719 - Maximum Number of Sessions per Binding Exceeded

Event Group:	PCA
Description:	A Binding capable session initiation request failed because this subscriber already has the maximum number of sessions per binding.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	60
OID:	pdraPdraMaxSessionsReachedNotify

Recovery:

1. Determine if the existing sessions are valid. The existing sessions may be displayed using the Binding Key Query Tool to obtain all relevant information including session-ids and PCEF FQDNs.
2. If the sessions exist in the P-DRA but not on the PCEF(s), call the [My Oracle Support \(MOS\)](#).

22720 - Policy SBR To PCA Response Queue Utilization Threshold Exceeded

Alarm Group:	PCA
Description:	The SBR to PCA Response Queue Utilization Threshold Exceeded
Severity:	Minor, Major, Critical
Instance:	RxPcaSbrEventMsgQueue, PCA
HA Score:	Normal
OID:	pdraPdraPsbrResponseQueueUtilizationNotify

Auto Clear Seconds: 0 (zero)

Recovery:

1. If one or more MPs in a server site have failed, the traffic will be distributed amongst the remaining MPs in the server site. Monitor the MP server status from **Main Menu > Status & Manage > Server Status**
2. The mis-configuration of Diameter peers may result in too much traffic being distributed to the MP. Monitor the ingress traffic rate of each MP from **Main Menu > Status & Manage > KPIs**. Each MP in the server site should be receiving approximately the same ingress transaction per second.
3. There may be an insufficient number of MPs configured to handle the network load. Monitor the ingress traffic rate of each MP by selecting **Main Menu > Status & Manage > KPIs**.
If MPs are in a congestion state, then the offered load to the server site is exceeding its capacity.
4. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22721 - Policy and Charging Server In Congestion

Alarm Group: PCA

Description: The Policy and Charging Server is operating in congestion.

Severity: Minor, Major, Critical

Instance: PCA

HA Score: Normal

OID: pdraPdraCongestionStateNotify

Auto Clear Seconds: 0 (zero)

Recovery:

1. Application Routing might be mis-configured and is sending too much traffic to the DSR Application. Verify the configuration by selecting **Diameter > Configuration > Application Route Tables**.
2. There may be an insufficient number of MPs configured to handle the network load. Monitor the ingress traffic rate of each MP by selecting **Main Menu > Status & Manage > KPIs**.
If MPs are in a congestion state, then the offered load to the server site is exceeding its capacity.
3. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22722 - Policy Binding Sub-resource Unavailable

Alarm Group: PCA

Description: One or more Policy binding sub-resources are not available.

Severity:

- Major: When a Binding SBR Database is prepared or enabled and at least one server group that has a range of binding sub-resources is not available

- Critical: When a Binding SBR Database is prepared or enabled and all of the binding sub-resources are not available, i.e., all server groups hosting the sub-resources are not available.

Instance: <ResourceDomainName>
HA Score: Normal
OID: pdraPdraBindingSubresourceUnavailableNotify
Auto Clear Seconds: 0 (zero)

Recovery:

1. At the NOAM, navigate to the SBR Database Status screen at **Main Menu > Policy and Charging > Maintenance > SBR Database Status** and locate the SBR Database specified in the Alarm Additional Information. The database's Operational Status and the Operational Reason values associated with resource users and resource providers are displayed.
2. Click on the row for the Database Name. If the Resource User Operational Reason has a colored cell, the lower-left pane on the status screen will display information about which resource users are having problems accessing the database. If the Resource Provider Operational Reason has a colored cell, the lower-right pane on the status screen will display information about which resource providers are unable to provide service.
3. If the Resource Provider pane on the lower right is empty, look for ComAgent connection Alarms. If ComAgent connection alarms exist, follow the Recovery steps for those alarms to troubleshoot further. If there are no ComAgent connection alarms, review the configuration of Resource Domains, Places, and Place Associations using the NOAM GUI and verify that they are provisioned as expected:
 - **Main Menu > Configuration > Resource Domains**
 - **Main Menu > Configuration > Places**
 - **Main Menu > Configuration > Place Associations**
4. Click the Database Name hyperlink to go to the SBR Database Configuration View screen, filtered by the SBR Database Name. Make note of the Resource Domain configured for the SBR Database.
5. Navigate to the ComAgent HA Services Status screen at **Main Menu > Communication Agent > Maintenance > HA Service Status** and locate the Resource with name equal to that configured as the Resource Domain for the SBR Database.
6. Click the HA Services Status row for the Resource, which will have further detailed information about the Communication Agent's problem.
7. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

22723 - Policy and Charging Session Sub-resource Unavailable

Alarm Group: PCA
Description: One or more Policy and Charging session sub-resources are not available.
Severity:

- Major: When a Session SBR Database is prepared or enabled and at least one of the server groups hosting session sub-resources is not available.

- Critical: When a Session SBR Database is prepared or enabled and all of the server groups hosting session sub-resources are not available.

Instance: <ResourceDomainName>
HA Score: Normal
OID: pdraPdraSessionSubresourceUnavailableNotify
Auto Clear Seconds: 0 (zero)

Recovery:

1. At the NOAM, navigate to the SBR Database Status screen at **Main Menu > Policy and Charging > Maintenance > SBR Database Status** and locate the SBR Database specified in the Alarm Additional Information. The database's Operational Status and the Operational Reason values associated with resource users and resource providers are displayed.
2. Click on the row for the Database Name. If the Resource User Operational Reason has a colored cell, the lower-left pane on the status screen will display information about which resource users are having problems accessing the database. If the Resource Provider Operational Reason has a colored cell, the lower-right pane on the status screen will display information about which resource providers are unable to provide service.
3. If the Resource Provider pane on the lower right is empty, look for ComAgent connection Alarms. If ComAgent connection alarms exist, follow the Recovery steps for those alarms to troubleshoot further. If there are no ComAgent connection alarms, review the configuration of Resource Domains, Places, and Place Associations using the NOAM GUI and verify that they are provisioned as expected:
 - **Main Menu > Configuration > Resource Domains**
 - **Main Menu > Configuration > Places**
 - **Main Menu > Configuration > Place Associations**
4. Click the Database Name hyperlink to go to the SBR Database Configuration View screen, filtered by the SBR Database Name. Make note of the Resource Domain configured for the SBR Database.
5. Navigate to the ComAgent HA Services Status screen at **Main Menu > Communication Agent > Maintenance > HA Service Status** and locate the Resource with name equal to that configured as the Resource Domain for the SBR Database.
6. Click the HA Services Status row for the Resource, which will have further detailed information about the Communication Agent's problem.
7. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

22724 - SBR Memory Utilization Threshold Exceeded

Alarm Group: SBR
Description: The SBR server memory utilization threshold has been exceeded.
Severity: Minor, Major, Critical
Instance: psbr.MemPerTotal, SBR
HA Score: Normal

Auto Clear Seconds: 0 (zero)
OID: eagleXgDiameterPSbrMemUtilNotify

Recovery:

1. If this condition persists, it may be necessary to allocate more memory for SBR.
2. Contact [My Oracle Support \(MOS\)](#) for further assistance.

22725 - SBR Server In Congestion

Alarm Group: SBR
Description: The SBR server is operating in congestion.
Severity:

- Minor: CL_1
- Major: CL_2
- Critical: CL_3

Instance: Policy and Charging mated Sites Place Association Name
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: eagleXgDiameterPSbrServerInCongestionNotify

Recovery:

1. Application Routing might be mis-configured and is sending too much traffic to the DSR Application. Verify the configuration by selecting **Diameter > Configuration > Application Route Tables**.
2. There may be an insufficient number of MPs configured to handle the network load. Monitor the ingress traffic rate of each MP by selecting **Main Menu > Status & Manage > KPIs**.
 If MPs are in a congestion state, then the offered load to the server site is exceeding its capacity.
3. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22726 - SBR Queue Utilization Threshold Exceeded

Alarm Group: SBR
Description: The SBR stack event queue utilization threshold has been exceeded. The alarm is asserted for three separate stack event queues (PsbrSisTaskQMetric, PsbrSisSendRarTaskQMetric, and PsbrInvokeSisRspHandlerTaskQMetric) in Binding and Session SBR servers.
Severity: Minor, Major, Critical
Instance: SBR
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: eagleXgDiameterPSbrStackEvQUtilNotify

Recovery:

1. If this condition persists, it may be necessary to allocate larger queue sizes.
2. Contact [My Oracle Support \(MOS\)](#) for further assistance.

22727 - SBR Initialization Failure

Alarm Group:	SBR
Description:	The SBR server process failed to initialize.
Severity:	Critical
Instance:	Policy DRA Mated Sites Place Association Name
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterPSbrInitializationFailureNotify

Recovery:

Contact [My Oracle Support \(MOS\)](#) for further assistance.

22728 - SBR Bindings Threshold Exceeded

Alarm Group:	SBR
Description:	The number of bindings threshold has been exceeded.
Severity:	Minor, Major, Critical
Instance:	<SbrDatabaseName>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterPSbrActBindThreshNotify

Recovery:

1. The binding database specified in the Instance field is nearing the limit on the number of binding records. The alarm threshold percentages can be modified as desired by the network operator at the NOAM using **Policy and Charging > Configuration > Alarm Settings**.
2. If a given alarm severity is unwanted, the alarm severity may be suppressed by checking the Suppress checkbox for that alarm severity.
3. Contact [My Oracle Support \(MOS\)](#) to discuss plans for system growth if this alarm continues to be asserted under normal operating conditions.

Note: It is expected, but not guaranteed, that the system will continue to function beyond the tested maximum number of subscribers with bindings.

22729 - PCRF Not Configured

Alarm Group:	PCA
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Description:	PCRF Not Configured
Severity:	Major
Instance:	Policy Binding Region Place Association Name
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	pdraPcrfNotConfiguredNotify

Recovery:

1. Check the NOAM GUI at **Main Menu > Policy and Charging > Configuration > Policy DRA** for further PCRF configuration.
2. Check the event history logs in **Alarms & Events**.
3. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22730 - Policy and Charging Configuration Error

Alarm Group:	PCA
Description:	Policy and Charging message processing could not be successfully completed due to a configuration error.
Severity:	Major
Instance:	<ConfigurationError>
HA Score:	Normal
OID:	pdraPdraConfigErrorNotify
Auto Clear Seconds:	300 (5 minutes)

Recovery:

1. If there is an unconfigured PCRF, it means that the binding capable session initiation request was routed to a PCRF that is not configured in **Policy and Charging > Configuration > Policy DRA > PCRFs** at the site where the request was received. This indicates a mismatch between the PCRF's configuration and the routing configuration. If the PCRF is a valid choice for the request, configure the PCRF in **Policy and Charging > Configuration > Policy DRA > PCRFs**. If the PCRF is not valid for the request, correct the routing table or tables that included the PCRF.
Also see measurement RxBindCapUnknownPcrf in the DSR Measurement Reference.
2. If there is an unconfigured APN and if the APN string is valid, configure the APN at the NOAM using the **Policy and Charging > Configuration > Access Point Names** screen. If the APN string is not valid, investigate the policy client to determine why it is sending policy session initiation requests using the invalid APN.
Also see measurements RxBindCapUnknownApn and RxBindDepUnknownApn in the *DSR Measurement Reference*.
3. If there is a missing APN, investigate the policy client to determine why it is sending policy session initiation requests with no APN.
Also see measurements RxBindCapMissingApn and RxBindDepMissingApn in the *DSR Measurement Reference*.

4. If there are no PCRFs configured, configure PCRFs at the SOAM GUI for the site using **Policy and Charging > Configuration > PCRFs**.
5. If there is an unconfigured OCS, it means that the binding independent session initiation request was routed to an OCS that is not configured in **Policy and Charging > Configuration > Online Charging DRA > OCSs**. This indicates a mismatch between the OCSs configuration and the routing configuration. If the OCS named in the alarm additional information is a valid choice for the request, configure the OCS at the SOAMP using **Policy and Charging > Configuration > Online Charging DRA > OCSs**. If the OCS is not valid for the request, correct the routing table or tables that included the OCS.
6. Contact [My Oracle Support \(MOS\)](#)

22731 - Policy and Charging Database Inconsistency

Alarm Group:	PCA
Description:	The Policy and Charging database inconsistency exists due to an internal data error or internal database table error.
Severity:	Major
Instance:	<PcaFunctionName>
HA Score:	Normal
Auto Clear Seconds:	60
OID:	pdraPdraDbInconsistencyExistsNotify

Recovery:

1. Check the error history logs for the details of the data inconsistency.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22732 - SBR Process CPU Utilization Threshold Exceeded

Alarm Group:	SBR
Description:	The SBR process on the indicated server is using higher than expected CPU resources.
Severity:	Minor, Major, Critical
Instance:	psbr.cpu, SBR
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterPSbrProcCpuThreshNotify

Recovery:

1. If this condition persists, it may be necessary to deploy more policy signaling capacity.
2. Contact [My Oracle Support \(MOS\)](#) for further assistance.

22733 - SBR Failed to Free Binding Memory After PCRF Pooling Binding Migration

Alarm Group:	SBR
Description:	The SBR failed to free binding memory after PCRF Pooling binding migration.
Severity:	Minor
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterPSBRPostMigrationMemFreeNotify

Recovery:

1. On systems upgraded from a release where Policy DRA was running, but that did not support PCRF Pooling, to a release that supports PCRF Pooling, binding data is migrated from the tables used by the old release to tables used by the new release. Once this migration process completes on a given binding policy SBR, a script is automatically executed to free memory for the old tables. If this script should fail for any reason to free the memory, this alarm is asserted.
2. If additional assistance is needed, contact [My Oracle Support \(MOS\)](#).

22734 - Policy and Charging Unexpected Stack Event Version

Alarm Group:	PCA
Description:	A Policy and Charging server received a stack event with an unexpected down-version.
Severity:	Major
Instance:	N/A
HA Score:	Normal
OID:	pdraPdcaUnexpectedSEDownVersionNotify
Auto Clear Seconds:	300 (5 minutes)

Recovery:

1. From the NOAM GUI at **Policy and Charging > Maintenance > SBR Status**, find the Resource Domain Name to which the stack event was being sent.
2. Expand all Server Groups having that Resource Domain name to see which Server Group hosts the ComAgent Sub Resource.
3. The Server with Resource HA Role of "Active" is likely the server that has the old software (unless a switch-over has occurred since the alarm was asserted). In any case, one of the servers in the Server Group has old software. The software version running on each server can be viewed from **Administration > Upgrade**. The "Hostname" field is the same as the Server Name on the SBR Status screen
4. Find the server or servers running the old software and upgrade those servers to the current release and accept the upgrade.

5. If additional assistance is needed, contact [My Oracle Support \(MOS\)](#).

22735 - Policy DRA session initiation request received with no APN

Event Group:	PDRA
Description:	A Policy DRA session initiation request was received with no APN.
Severity:	Info
HA Score:	Normal
Instance:	None
Throttle Seconds:	30
OID:	pdraPdraSessInitReqWithNoApnNotify

Recovery:

1. Investigate why the policy client named by the Origin-Host FQDN in the additional information field is not including the Called-Station-Id AVP and correct it to include the APN.
2. Investigate why the policy client named by the Origin-Host FQDN in the additional information field is not including the Called-Station-Id AVP and correct it to include the APN. Or have that policy client include another binding correlation key that can be used to find the binding
3. Examine associated measurements RxBindCapMissingApn and RxBindDepMissingApn (refer to the *DSR Measurements Reference* for details about these measurements).
4. If the problem persists, contact [My Oracle Support \(MOS\)](#).

22736 - SBR failed to free shared memory after a PCA function is disabled

Alarm Group:	SBR
Description:	SBR failed to free shared memory after a PCA function is disabled
Severity:	Minor
HA Score:	Normal
Instance:	<PcaFunctionName>
Auto Clear Seconds:	0 (zero)
OID:	pdraPSBRPostPcaFunctionDisableMemFreeNotify

Recovery:

If the problem persists, contact [My Oracle Support \(MOS\)](#).

22737 - Configuration Database Not Synced

Alarm Group:	PCA
Description:	Configuration Database is not synced between the System OAM and Network OAMP.

Severity:	Minor
Instance:	Site name of SOAM server which asserted this alarm
HA Score:	Normal
OID:	pdraPcaConfDbNotSyncedNotify
Auto Clear Seconds:	0 (zero)

Recovery:

1. Make note of all **Status & Manage > Database Resote** operations (if any) at NOAM or SOAM within a day of the occurrence of alarm.
2. Gather all configuration changes (Insert, Edit, or Delete) for PCRFs, Policy Clients, OCSs, CTFs via Security Log from the time the database restore was executed until the present. If there was no database restore performed, then start from the time the alarm was first asserted until the present.
3. If additional assistance is needed, contact [My Oracle Support \(MOS\)](#).

22738 - SBR Database Reconfiguration State Transition

Event Group:	SBR
Description:	This event is generated any time a state transition occurs in a SBR Database Resizing or Data Migration Plan. This includes both state transitions due to a user clicking a button on the SBR Database Reconfiguration Status screen and internal state transitions.
Severity:	Info
Instance:	<SbrReconfigurationPlanName>
HA Score:	Normal
Throttle Seconds:	0 (zero)
OID:	eagleXgDiameterPsbrReconfigStateTransitionNotify

Recovery:

This event records the time and conditions under which an SBR Database Reconfiguration Plan (identified in the event instance field) undergoes a state transition. The event additional information includes details such as the previous state, current state, and whether the "Force" option was chosen. This event can be used to obtain a timeline of the entire history of a given reconfiguration plan.

22740 - Failed to successfully complete an SBR Reconfiguration Plan

Alarm Group:	SBR
Description:	Failed to successfully complete an SBR Reconfiguration Plan. Note: When an SBR Reconfiguration Plan is completed by the user clicking Complete , or Force Complete on the SBR Reconfiguration Status GUI, database updates are performed to finalize the reconfiguration plan as follows. If any of these updates fail, this alarm shall be asserted.

- Condition 1: Failed to update the Resource Domain of the SBR Database to point to the Target Resource Domain of the Resizing Plan on completion of a Resizing Plan.
- Condition 2: Failed to mark the Initial SBR Database so that it is no longer the default database for the Place Association on completion of a Data Migration Plan.
- Condition 3: Failed to mark the Target SBR Database as the default database for the Place Association on completion of a Data Migration Plan.
- Condition 4: Failed to enable the Target SBR Database on completion of a Data Migration Plan.
- Condition 5: Failed to disable the Initial SBR Database on completion of a Data Migration Plan.

Severity:

- Minor: Condition 5
- Critical: Conditions 1-4

Instance: <SbrReconfigPlanAndCondition>

HA Score: Normal

Auto Clear 0 (zero)

Seconds:

OID: eagleXgDiameterPSbrReconfigConditionsErrorNotify

Recovery:

The SBR Reconfiguration plan specified in the Alarm Instance was not successfully completed, possibly leaving the SBR Database in an abnormal state. Make note of the specific reason for the alarm and contact [My Oracle Support \(MOS\)](#) for assistance.

22741 - Failed to route PCA generated RAR

Event Group: PCA

Description:	Unable to Route RAR generated at PCA
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Severity: Info

Instance: N/A

HA Score: Normal

Throttle Seconds: 60

OID: eagleXgDiameterPcaGeneratedRARRouteErrNotify

Recovery:

Use Destination-Host to identify the locally generated RAR routing failures and correct the respective configurations. If the DRL provides an error message, it will be displayed with this event, which will have a 3-digit internal error code.

22750 - Enhanced Suspect Binding Removal Feature Enabled

Event Group: SBR

Description:	The Enhanced Suspect Binding Feature is enabled.
Severity:	Info
Instance:	N/A
HA Score:	Normal
Throttle Seconds:	0 (zero)
OID:	eagleXgDiameterEnhSuspBindingFeatEnabledNotify
Recovery:	No action required.

22751 - Binding Audit Suppression by Suspect Binding Removal

Alarm Group: SBR

Description: The binding SBR audit function is suppressed by the Enhanced Suspect Binding Removal feature.

Severity: Minor

Instance: PCA

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: eagleXgDiameterEnhSuspectBindingAuditSuppressionNotify

Recovery:

1. If this condition persists, it may indicate a failure of a PCRF or the need to change the configuration of the Suspect Binding Removal Rules.
2. Contact [My Oracle Support \(MOS\)](#) for further assistance.

Tekelec Virtual Operating Environment, TVOE (24400-24499)

This section provides information and recovery procedures for the Tekelec Virtual Operation Environment (TVOE) alarms, ranging from 24400-24499.

24400 - TVOE libvirt is down

Alarm Group:	TVOE
Description:	This alarm indicates that the libvirt daemon is not running.
Severity:	Major
HA Score:	Normal
Auto Clear Seconds:	0 (zero)

OID: 1.3.6.1.4.1.323.5.3.31.1.1.2.1

Alarm ID: TKSTVOEMA1

Recovery:

If the problem persists, contact [My Oracle Support \(MOS\)](#).

24401 - TVOE libvirtd is hung

Alarm Group: TVOE

Description: This alarm indicates that we attempted to determine if the libvirtd daemon is not responding and it didn't respond.

Severity: Major

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: 1.3.6.1.4.1.323.5.3.31.1.1.2.2

Alarm ID: TKSTVOEMA2

Recovery:

If the problem persists, contact [My Oracle Support \(MOS\)](#).

24402 - all TVOE libvirtd connections are in use

Alarm Group: TVOE

Description: This alarm indicates that all twenty connections to libvirtd are in use and more could be killed.

Severity: Major

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: 1.3.6.1.4.1.323.5.3.31.1.1.2.3

Alarm ID: TKSTVOEMA3

Recovery:

If the problem persists, contact [My Oracle Support \(MOS\)](#).

Computer Aided Policy Making, CAPM (25000-25499)

This section provides information and recovery procedures for the Computer-Aided Policy Making (CAPM) feature (i.e., Diameter Mediation) alarms and events, ranging from 25000 - 25499, and lists the types of alarms and events that can occur on the system. All events have a severity of Info.

Alarms and events are recorded in a database log table. Currently active alarms can be viewed from the Launch Alarms Dashboard GUI menu option. The alarms and events log can be viewed from the **Alarms & Events > View History** page.

25000 - CAPM Update Failed

Event Type:	CAPM
Description:	<p>The Rule Template failed to update because of syntax errors. The Additional Info of the Historical alarm includes the name of the Rule Template that failed to be updated.</p> <p>When the alarm is caused by CAPM Rule Template which contains a syntax error, it may not be raised immediately after applying the template, but may occur when the first Rule has been provisioned and committed.</p>
Severity:	Minor
Instance:	<ruleset> or <ruleset:rule-id>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterCapmUpdateFailedNotify

Recovery:

1. Check the CAPM Rule Template and verify that the left-hand side term of each condition contains a valid Linking-AVP or Select expression.

A typical problem can be a non-existing expression, or syntax error of a custom-defined Select expression. If the CAPM Rule Template contains a syntax error, create a new Rule Template by copying and modifying the existing one, then deleting the old Rule Template.

2. Verify also that the recently provisioned data of the Rule Template does not contain a syntax error, i.e., the regular expressions are correct, the fields expecting numbers contain only numbers, etc.

25001 - CAPM Action Failed

Event Type:	CAPM
Description:	When a new Rule Template is created, a failure occurs when performing the action.
Severity:	Info
Instance:	<ruleset> or <ruleset:rule-id>
HA Score:	Normal
Throttle Seconds:	30
OID:	eagleXgDiameterCapmActionFailedNotify

Recovery:

Check the reasons the action failed. It may be a lack of system resources to perform an action, or the action may refer to a part of the message that is not available.

25002 - CAPM Exit Rule Template

Event Type:	CAPM
Description:	When Action Error Handling is set to 'immediately exit from the rule template' for the given Rule Template and a failure occurs when performing the action, processing of the Rule Template is stopped.
Severity:	Info
Instance:	<ruleset> or <ruleset:rule-id>
HA Score:	Normal
Throttle Seconds:	30
OID:	eagleXgDiameterCapmExitRuleFailedNotify
Recovery:	No action required.

25003 - CAPM Exit Trigger

Event Type:	CAPM
Description:	When Action Error Handling is set to 'immediately exit from the trigger point' for the given Rule Template and a failure occurs when performing the action, processing of the Rule Template is stopped (subsequent templates within the trigger point are also skipped).
Severity:	Info
Instance:	<ruleset> or <ruleset:rule-id>
HA Score:	Normal
Throttle Seconds:	30
OID:	eagleXgDiameterCapmExitTriggerFailedNotify
Recovery:	No action required.

25004 - Script failed to load

Alarm Type:	CAPM
Description:	Script syntax error
Severity:	Minor
Instance:	<script name>

HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterCapmScriptLoadingFailedNotify
Recovery:	Check for syntax errors in the script

25005 - CAPM Generic Event

Event Type:	CAPM
Description:	CAPM Generic Event
Severity:	Info
Instance:	<template-id:rule-id>
HA Score:	Normal
Throttle Seconds:	30
OID:	eagleXgDiameterCapmGenericInfoAlarmNotify
Recovery:	Contact My Oracle Support (MOS) .

25006 - CAPM Generic Alarm - Minor

Event Type:	CAPM
Description:	CAPM Generic Alarm - Minor
Severity:	Minor
Instance:	<template-id:rule-id>
HA Score:	Normal
Auto Clear Seconds:	300
OID:	eagleXgDiameterCapmGenericMinorAlarmNotify
Recovery:	Contact My Oracle Support (MOS) .

25007 - CAPM Generic Alarm - Major

Event Type:	CAPM
Description:	CAPM Generic Alarm - Major
Severity:	Major
Instance:	<template-id:rule-id>

HA Score:	Normal
Auto Clear Seconds:	300
OID:	eagleXgDiameterCapmGenericMajorAlarmNotify
Recovery:	Contact My Oracle Support (MOS) .

25008 - CAPM Generic Alarm - Critical

Event Type:	CAPM
Description:	CAPM Generic Alarm - Critical
Severity:	Critical
Instance:	<template-id:rule-id>
HA Score:	Normal
Auto Clear Seconds:	300
OID:	eagleXgDiameterCapmGenericCriticalAlarmNotify
Recovery:	Contact My Oracle Support (MOS) .

OAM Alarm Management (25500-25899)

This section provides information and recovery procedures related for alarms and events related to OAM Alarm Management, ranging from 25500 - 25899, that can occur on the system. All events have a severity of Info.

Alarms and events are recorded in a database log table. Currently active alarms can be viewed from the Launch Alarms Dashboard GUI menu option. The alarms and events log can be viewed from the **Alarms & Events > View History** page.

25500 - No DA-MP Leader Detected Alarm

Alarm Group:	DIAM
Description:	This alarm occurs when no active DA-MP leaders have been detected.
Severity:	Critical
Instance:	<NetworkElement>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterNoDaMpLeaderDetectedNotify

Recovery:

If the problem persists, contact [My Oracle Support \(MOS\)](#) for assistance.

25510 - Multiple DA-MP Leader Detected Alarm

Alarm Group:	DIAM
Description:	This alarm occurs when multiple active DA-MP leaders have been detected.
Severity:	Critical
Instance:	<NetworkElement>
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterMultipleDaMpLeadersDetectedNotify

Recovery:

If the problem persists, contact [My Oracle Support \(MOS\)](#) for assistance.

25800 - Peer Discovery Failure

Alarm Group:	DIAM
Description:	Peer discovery failure.
Severity:	Minor
Instance:	Discover_Realm_{realm_name} where {realm_name} is the full configured name of the Realm whose discovery has failed.
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterDpdRealmDiscoveryFailedNotify

Recovery:

1. Analyze event [25801 - Peer Discovery Configuration Error Encountered](#) that has the same instance to identify the error(s).
2. Verify the DSR and DNS configurations and fix any configuration error(s).
3. Administratively refresh the Realm.
4. Contact [My Oracle Support \(MOS\)](#) for assistance.

25801 - Peer Discovery Configuration Error Encountered

Event Type:	DIAM
Description:	Peer discovery configuration error encountered.
Severity:	Info

Instance:	Discover_Realm_{realm_name} where {realm_name} is the full configured name of the Realm whose discovery has encountered a configuration error.
HA Score:	Normal
Throttle Seconds:	0 (zero)
OID:	eagleXgDiameterDpdConfigErrorNotify

Recovery:

1. Depending on the specific error code, follow the appropriate recovery steps.

Note: One likely cause is the number of instances of a managed object type is at capacity, and no new instances can be created. The user can delete unused instances of the MO type to free up capacity and try the Realm discovery again.

2. Contact [My Oracle Support \(MOS\)](#) for assistance.

25802 - Realm Expiration Approaching

Alarm Group:	DIAM
Description:	Realm expiration approaching.
Severity:	Minor, Major
Instance:	Discover_Realm_{realm_name} where {realm_name} is the full configured name of the Realm whose expiry is approaching.
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterDpdConfigErrorNotify

Recovery:

1. Administratively disable the Realm.
2. Administratively extend the Realm.
3. Administratively refresh the Realm.
4. Contact [My Oracle Support \(MOS\)](#) for assistance.

25803 - Peer Discovery - Inconsistent Remote Host Port Assignment

Event Type:	DIAM
Description:	Peer discovery - inconsistent remote host port assignment.
Severity:	Info
Instance:	Discover_Realm_{realm_name} where {realm_name} is the full configured name of the Realm whose discovery has encountered inconsistent remote host port assignment.
HA Score:	Normal

Throttle Seconds: 0 (zero)
OID: eagleXgDiameterDpdInconsistentPortAssignmentNotify

Recovery:

No action required. The DNS records for the Realm being discovered must be corrected by the Realm's DNS administrator.

25804 - Peer Discovery State Change

Event Type: DIAM
Description: Peer discovery state change.
Severity: Info
Instance: Discover_Realm_{realm_name} where {realm_name} is the full configured name of the Realm whose discovery state has changed.
HA Score: Normal
Throttle Seconds: 0 (zero)
OID: eagleXgDiameterDpdInconsistentPortAssignmentNotify

Recovery:

No action required.

Platform (31000-32800)

This section provides information and recovery procedures for the Platform alarms, ranging from 31000-32700.

31000 - S/W fault

Alarm Group: SW
Description: Program impaired by s/w fault
Severity: Minor
Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score: Normal
Auto Clear Seconds: 300
OID: comcolSwFaultNotify

Recovery:

No action is required. This event is used for command-line tool errors only.

31001 - S/W status

Alarm Group:	SW
Description:	Program status
Severity:	Info
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolSwStatusNotify
Recovery:	No action required.

31002 - Process watchdog failure

Alarm Group:	SW
Description:	Process watchdog timed out.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	comcolProcWatchdogFailureNotify
Recovery:	<ol style="list-style-type: none"> 1. Alarm indicates a stuck process was automatically recovered, so no additional steps are needed. 2. If this problem persists, collect savelogs and contact My Oracle Support (MOS).

31003 - Tab thread watchdog failure

Alarm Group:	SW
Description:	Tab thread watchdog timed out
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolThreadWatchdogFailureNotify

Recovery:

1. Alarm indicates a stuck process was automatically recovered, so no additional steps are needed.
2. If this problem persists, collect savelogs and contact [My Oracle Support \(MOS\)](#).

31100 - Database replication fault

Alarm Group:	SW
Description:	The Database replication process is impaired by a s/w fault
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolDbReplicationFaultNotify

Recovery:

1. Export event history for the given server and inetsync task.
2. Contact [My Oracle Support \(MOS\)](#).

31101 - Database replication to slave failure

Alarm Group:	REPL
Description:	Database replication to a slave Database has failed
Severity:	Critical
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolDbRepToSlaveFailureNotify

Recovery:

1. Check network connectivity between the affected servers.
2. If there are no issues with network connectivity, contact [My Oracle Support \(MOS\)](#).

31102 - Database replication from master failure

Alarm Group:	REPL
Description:	Database replication from a master Database has failed.
Severity:	Minor

Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolDbRepFromMasterFailureNotify

Recovery:

1. Indicates replication subsystem is unable to contact a server, due to networking issues or because the server is not available. Investigate the status of the server and verify network connectivity.
2. If no issues with network connectivity or the server are found and the problem persists, contact [My Oracle Support \(MOS\)](#).

31103 - DB Replication update fault

Alarm Group:	REPL
Description:	Database replication process cannot apply update to DB.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolDbRepUpdateFaultNotify

Recovery:

1. This alarm indicates a transient error occurred within the replication subsystem, but the system has recovered, so no additional steps are needed.
2. If the problem persists, collect savelogs and contact [My Oracle Support \(MOS\)](#).

31104 - DB Replication latency over threshold

Alarm Group:	REPL
Description:	Database replication latency has exceeded thresholds
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolDbRepLatencyNotify

Recovery:

1. If this alarm is raised occasionally for short time periods (a couple of minutes or less), it may indicate network congestion or spikes of traffic pushing servers beyond their capacity. Consider re-engineering network capacity or subscriber provisioning.
2. If this alarm does not clear after a couple of minutes, contact [My Oracle Support \(MOS\)](#).

31105 - Database merge fault

Alarm Group:	SW
Description:	The database merge process (inetmerge) is impaired by a s/w fault
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolDbMergeFaultNotify

Recovery:

1. This alarm indicates a transient error occurred within the merging subsystem, but the system has recovered, so no additional steps are needed.
2. If the problem persists, collect savelogs and contact [My Oracle Support \(MOS\)](#).

31106 - Database merge to parent failure

Alarm Group:	COLL
Description:	Database merging to the parent Merge Node has failed.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	comcolDbMergeToParentFailureNotify

Recovery:

1. This alarm indicates the merging subsystem is unable to contact a server, due to networking issues or because the server is not available. Investigate the status of the server and verify network connectivity.
2. If no issues with network connectivity or the server are found and the problem persists, contact [My Oracle Support \(MOS\)](#).

31107 - Database merge from child failure

Alarm Group:	COLL
Description:	Database merging from a child Source Node has failed.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolDbMergeFromChildFailureNotify

Recovery:

1. This alarm indicates the merging subsystem is unable to contact a server, due to networking issues or because the server is not available. Investigate the status of the server and verify network connectivity.
2. If no issues with network connectivity or the server are found and the problem persists, contact [My Oracle Support \(MOS\)](#).

31108 - Database merge latency over threshold

Alarm Group:	COLL
Description:	Database Merge latency has exceeded thresholds
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolDbMergeLatencyNotify

Recovery:

1. If this alarm is raised occasionally for short time periods (a couple of minutes or less), it may indicate network congestion or spikes of traffic pushing servers beyond their capacity. Consider re-engineering network capacity or subscriber provisioning.
2. If this alarm does not clear after a couple of minutes, contact [My Oracle Support \(MOS\)](#).

31109 - Topology config error

Alarm Group:	DB
Description:	Topology is configured incorrectly
Severity:	Minor

Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolTopErrorNotify

Recovery:

1. This alarm may occur during initial installation and configuration of a server. No action is necessary at that time.
2. If this alarm occurs after successful initial installation and configuration of a server, contact [My Oracle Support \(MOS\)](#).

31110 - Database audit fault

Alarm Group:	SW
Description:	The Database service process (idbsvc) is impaired by a s/w fault.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolDbAuditFaultNotify

Recovery:

1. Alarm indicates an error occurred within the database audit system, but the system has recovered, so no additional steps are needed.
2. If this problem persists, collect savelogs and contact [My Oracle Support \(MOS\)](#).

31111 - Database merge audit in progress

Alarm Group:	COLL
Description:	Database Merge Audit between mate nodes in progress
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolDbMergeAuditNotify

Recovery:

No action required.

31112 - DB replication update log transfer timed out

Alarm Group:	REPL
Description:	DB Replicated data may not have transferred in the time allotted.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	30
OID:	comcolDbRepUpLogTransTimeoutNotify

Recovery:

No action required. Contact [My Oracle Support \(MOS\)](#) if this occurs frequently.

31113 - DB replication manually disabled

Alarm Group:	REPL
Description:	DB Replication Manually Disabled
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	comcolDbReplicationManuallyDisabledNotify

Recovery:

No action required.

31114 - DB replication over SOAP has failed

Alarm Group:	REPL
Description:	Database replication of configuration data via SOAP has failed.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	3600

OID: comcolDbReplicationSoapFaultNotify

Recovery:

1. This alarm indicates a SOAP subsystem is unable to connect to a server, due to networking issues or because the server is not available. Investigate the status of the server and verify network connectivity.
2. If no issues with network connectivity or the server are found and the problem persists, contact [My Oracle Support \(MOS\)](#).

31115 - Database service fault

Alarm Group: SW

Description: The Database service process (idbsvc) is impaired by a s/w fault.

Severity: Minor

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 300

OID: comcolDbServiceFaultNotify

Recovery:

1. Alarm indicates an error occurred within the database disk service subsystem, but the system has recovered, so no additional steps are needed.
2. If this problem persists, collect savelogs and contact [My Oracle Support \(MOS\)](#).

31116 - Excessive shared memory

Alarm Group: MEM

Description: The amount of shared memory consumed exceeds configured thresholds.

Severity: Major

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 300

OID: comcolExcessiveSharedMemoryConsumptionNotify

Recovery:

Contact [My Oracle Support \(MOS\)](#).

31117 - Low disk free

Alarm Group:	DISK
Description:	The amount of free disk is below configured thresholds
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolLowDiskFreeNotify

Recovery:

1. Remove unnecessary or temporary files from partitions.
2. If there are no files known to be unneeded, contact [My Oracle Support \(MOS\)](#).

31118 - Database disk store fault

Alarm Group:	DISK
Description:	Writing the database to disk failed
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolDbDiskStoreFaultNotify

Recovery:

1. Remove unnecessary or temporary files from partitions.
2. If there are no files known to be unneeded, contact [My Oracle Support \(MOS\)](#).

31119 - Database updatelog overrun

Alarm Group:	DB
Description:	The Database update log was overrun increasing risk of data loss
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300

OID: comcolDbUpdateLogOverrunNotify

Recovery:

1. This alarm indicates a replication audit transfer took too long to complete and the incoming update rate exceeded the engineered size of the update log. The system will automatically retry the audit, and if successful, the alarm will clear and no further recovery steps are needed.
2. If the alarm occurs repeatedly, contact [My Oracle Support \(MOS\)](#).

31120 - Database updatelog write fault

Alarm Group: DB

Description: A Database change cannot be stored in the updatelog

Severity: Minor

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 300

OID: comcolDbUpdateLogWriteFaultNotify

Recovery:

1. This alarm indicates an error has occurred within the database update log subsystem, but the system has recovered.
2. If the alarm occurs repeatedly, contact [My Oracle Support \(MOS\)](#).

31121 - Low disk free early warning

Alarm Group: DISK

Description: The amount of free disk is below configured early warning thresholds

Severity: Minor

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 300

OID: comcolLowDiskFreeEarlyWarningNotify

Recovery:

1. Remove unnecessary or temporary files from partitions that are greater than 80% full.
2. If there are no files known to be unneeded, contact [My Oracle Support \(MOS\)](#).

31122 - Excessive shared memory early warning

Alarm Group:	MEM
Description:	The amount of shared memory consumed exceeds configured early warning thresholds
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolExcessiveShMemConsumptionEarlyWarnNotify

Recovery:

1. This alarm indicates that a server is close to exceeding the engineered limit for shared memory usage and the application software is at risk to fail. There is not automatic recovery or recovery steps.
2. Contact [My Oracle Support \(MOS\)](#).

31123 - Database replication audit command complete

Alarm Group:	REPL
Description:	ADIC found one or more errors that are not automatically fixable.
Severity:	Info
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolDbRepAuditCmdCompleteNotify

Recovery:

No action required.

31124 - ADIC error

Alarm Group:	REPL
Description:	An ADIC detected errors
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal

Auto Clear Seconds: 300
OID: comcolDbRepAuditCmdErrNotify
Recovery:
 Contact [My Oracle Support \(MOS\)](#).

31125 - Database durability degraded

Alarm Group: REPL
Description: Database durability has dropped below configured durability level
Severity: Major
Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score: Normal
Auto Clear Seconds: 300
OID: comcolDbDurabilityDegradedNotify
Recovery:
 1. Check configuration of all servers, and check for connectivity problems between server addresses.
 2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

31126 - Audit blocked

Alarm Group: REPL
Description: Site Audit Controls blocked an inter-site replication audit due to the number in progress per configuration.
Severity: Major
Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score: Normal
Auto Clear Seconds: 300
OID: comcolAuditBlockedNotify
Recovery:
 This alarm indicates that WAN network usage as been limited following a site recovery. No recovery action is needed.

31127 - DB Replication Audit Complete

Alarm Group: REPL

Description:	DB replication audit completed
Severity:	Info
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolDbRepAuditCompleteNotify
Recovery:	No action required.

31128 - ADIC Found Error

Alarm Group:	REPL
Description:	ADIC found one or more errors that are not automatically fixable.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolDbADICErrorNotify
Recovery:	<ol style="list-style-type: none"> 1. This alarm indicates a data integrity error was found by the background database audit mechanism, and there is no automatic recovery. 2. Contact My Oracle Support (MOS).

31129 - ADIC Found Minor Issue

Alarm Group:	REPL
Description:	ADIC found one or more minor issues that can most likely be ignored
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	14400
OID:	comcolDbADICWarn
Recovery:	

No action required.

31130 - Network health warning

Alarm Group:	NET
Description:	Network health issue detected
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolNetworkHealthWarningNotify

Recovery:

1. Check configuration of all servers, and check for connectivity problems between server addresses.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

31131 - DB Ousted Throttle Behind

Alarm Group:	DB
Description:	DB ousted throttle may be affecting processes.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	comcolOustedThrottleWarnNotify

Recovery:

1. This alarm indicates that a process has failed to release database memory segments which is preventing new replication audits from taking place. There is no automatic recovery for this failure.
2. Run 'procshm -o' to identify involved processes.
3. Contact [My Oracle Support \(MOS\)](#).

31140 - Database perl fault

Alarm Group:	SW
Description:	Perl interface to Database is impaired by a s/w fault
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal
Auto Clear Seconds: 300
OID: comcolDbPerlFaultNotify

Recovery:

1. This alarm indicates an error has occurred within a Perl script, but the system has recovered.
2. If the alarm occurs repeatedly, contact [My Oracle Support \(MOS\)](#).

31145 - Database SQL fault

Alarm Group: SW
Description: SQL interface to Database is impaired by a s/w fault
Severity: Minor
Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score: Normal
Auto Clear Seconds: 300
OID: comcolDbSQLFaultNotify

Recovery:

1. This alarm indicates an error has occurred within the MySQL subsystem, but the system has recovered.
2. If this alarm occurs frequently, collect savelogs and contact [My Oracle Support \(MOS\)](#).

31146 - DB mastership fault

Alarm Group: SW
Description: DB replication is impaired due to no mastering process (inetrep/inetrep).
Severity: Major
Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score: Normal
Auto Clear Seconds: 300
OID: comcolDbMastershipFaultNotify

Recovery:

1. Export event history for the given server.
2. Contact [My Oracle Support \(MOS\)](#).

31147 - DB upsynclog overrun

Alarm Group:	SW
Description:	UpSyncLog is not big enough for (WAN) replication.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolDbUpSyncLogOverrunNotify

Recovery:

1. This alarm indicates that an error occurred within the database replication subsystem. A replication audit transfer took too long to complete, and during the audit the incoming update rate exceeded the engineered size of the update log. The replication subsystem will automatically retry the audit, and if successful, the alarm will clear.
2. If the alarm occurs repeatedly, contact [My Oracle Support \(MOS\)](#).

31148 - DB lock error detected

Alarm Group:	DB
Description:	The DB service process (idbsvc) has detected an IDB lock-related error caused by another process. The alarm likely indicates a DB lock-related programming error, or it could be a side effect of a process crash.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolDbLockErrorNotify

Recovery:

1. This alarm indicates an error occurred within the database disk service subsystem, but the system has recovered.
2. If this alarm occurs repeatedly, contact [My Oracle Support \(MOS\)](#).

31200 - Process management fault

Alarm Group:	SW
Description:	The process manager (procmgr) is impaired by a s/w fault

Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolProcMgmtFaultNotify

Recovery:

1. This alarm indicates an error occurred within the process management subsystem, but the system has recovered.
2. If this alarm occurs repeatedly, contact [My Oracle Support \(MOS\)](#).

31201 - Process not running

Alarm Group:	PROC
Description:	A managed process cannot be started or has unexpectedly terminated
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolProcNotRunningNotify

Recovery:

1. This alarm indicates managed process exited unexpectedly due to a memory fault, but the process was automatically restarted.
2. Collect savelogs and contact [My Oracle Support \(MOS\)](#).

31202 - Unkillable zombie process

Alarm Group:	PROC
Description:	A zombie process exists that cannot be killed by procmgr. procmgr will no longer manage this process.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolProcZombieProcessNotify

Recovery:

1. This alarm indicates managed process exited unexpectedly and was unable to be restarted automatically.
2. Collect savelogs and contact [My Oracle Support \(MOS\)](#).

31206 - Process mgmt monitoring fault

Alarm Group:	SW
Description:	The process manager monitor (pm.watchdog) is impaired by a s/w fault
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolProcMgmtMonFaultNotify

Recovery:

1. This alarm indicates an error occurred within the process management subsystem, but the system has recovered.
2. If this alarm occurs repeatedly, contact [My Oracle Support \(MOS\)](#).

31207 - Process resource monitoring fault

Alarm Group:	SW
Description:	The process resource monitor (ProcWatch) is impaired by a s/w fault
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolProcResourceMonFaultNotify

Recovery:

1. This alarm indicates an error occurred within the process monitoring subsystem, but the system has recovered.
2. If this alarm occurs repeatedly, contact [My Oracle Support \(MOS\)](#).

31208 - IP port server fault

Alarm Group:	SW
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Description:	The run environment port mapper (re.portmap) is impaired by a s/w fault
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolPortServerFaultNotify

Recovery:

1. This alarm indicates an error occurred within the port mapping subsystem, but the system has recovered.
2. If this alarm occurs repeatedly, contact [My Oracle Support \(MOS\)](#).

31209 - Hostname lookup failed

Alarm Group:	SW
Description:	Unable to resolve a hostname specified in the NodeInfo table
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolHostLookupFailedNotify

Recovery:

1. This typically indicates a DNS Lookup failure. Verify all server hostnames are correct in the GUI configuration on the server generating the alarm.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

31213 - Process scheduler fault

Alarm Group:	SW
Description:	The process scheduler (ProcSched/runat) is impaired by a s/w fault
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300

OID: comcolProcSchedulerFaultNotify

Recovery:

1. This alarm indicates an error occurred within the process management subsystem, but the system has recovered.
2. If this alarm occurs repeatedly, contact [My Oracle Support \(MOS\)](#).

31214 - Scheduled process fault

Alarm Group: PROC

Description: A scheduled process cannot be executed or abnormally terminated

Severity: Minor

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 300

OID: comcolScheduleProcessFaultNotify

Recovery:

1. This alarm indicates that a managed process exited unexpectedly due to a memory fault, but the system has recovered.
2. Contact [My Oracle Support \(MOS\)](#).

31215 - Process resources exceeded

Alarm Group: SW

Description: A process is consuming excessive system resources.

Severity: Minor

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 14400

OID: comcolProcResourcesExceededFaultNotify

Recovery:

1. This alarm indicates a process has exceeded the engineered limit for heap usage and there is a risk the application software will fail.
2. Because there is no automatic recovery for this condition, contact [My Oracle Support \(MOS\)](#).

31216 - SysMetric configuration error

Alarm Group:	SW
Description:	A SysMetric Configuration table contains invalid data
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolSysMetricConfigErrorNotify

Recovery:

1. This alarm indicates a system metric is configured incorrectly.
2. Contact [My Oracle Support \(MOS\)](#).

31220 - HA configuration monitor fault

Alarm Group:	SW
Description:	The HA configuration monitor is impaired by a s/w fault.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolHaCfgMonitorFaultNotify

Recovery:

Contact [My Oracle Support \(MOS\)](#).

31221 - HA alarm monitor fault

Alarm Group:	SW
Description:	The high availability alarm monitor is impaired by a s/w fault
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolHaAlarmMonitorFaultNotify

Recovery:

Contact [My Oracle Support \(MOS\)](#).

31222 - HA not configured

Alarm Group:	HA
Description:	High availability is disabled due to system configuration
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolHaNotConfiguredNotify

Recovery:

Contact [My Oracle Support \(MOS\)](#).

31223 - HA Heartbeat transmit failure

Alarm Group:	HA
Description:	The high availability monitor failed to send heartbeat.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolHaHbTransmitFailureNotify

Recovery:

1. This alarm clears automatically when the server successfully registers for HA heartbeating.
2. If this alarm does not clear after a couple minutes, contact [My Oracle Support \(MOS\)](#).

31224 - HA configuration error

Alarm Group:	HA
Description:	High availability configuration error
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal

Auto Clear Seconds: 300
OID: comcolHaCfgErrorNotify

Recovery:

1. This alarm indicates a platform configuration error in the High Availability or VIP management subsystem.
2. Because there is no automatic recovery for this condition, contact [My Oracle Support \(MOS\)](#).

31225 - HA service start failure

Alarm Group: HA
Description: The required high availability resource failed to start.
Severity: Major
Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score: Normal
Auto Clear Seconds: 0
OID: comcolHaSvcStartFailureNotify

Recovery:

1. This alarm clears automatically when the HA daemon is successfully started.
2. If this alarm does not clear after a couple minutes, contact [My Oracle Support \(MOS\)](#).

31226 - HA availability status degraded

Alarm Group: HA
Description: The high availability status is degraded due to raised alarms.
Severity: Major
Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score: Normal
Auto Clear Seconds: 0
OID: comcolHaAvailDegradedNotify

Recovery:

1. View alarms dashboard for other active alarms on this server.
2. Follow corrective actions for each individual alarm on the server to clear them.
3. If the problem persists, contact [My Oracle Support \(MOS\)](#).

31227 - HA availability status failed

Alarm Group:	HA
Description:	The high availability status is failed due to raised alarms.
Severity:	Critical
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolHaAvailFailedNotify

Recovery:

1. View alarms dashboard for other active alarms on this server.
2. Follow corrective actions for each individual alarm on the server to clear them.
3. If the problem persists, contact [My Oracle Support \(MOS\)](#).

31228 - HA standby offline

Alarm Group:	HA
Description:	High availability standby server is offline.
Severity:	Critical
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	comcolHaStandbyOfflineNotify

Recovery:

1. If loss of communication between the active and standby servers is caused intentionally by maintenance activity, alarm can be ignored; it clears automatically when communication is restored between the two servers.
2. If communication fails at any other time, look for network connectivity issues and/or Contact [My Oracle Support \(MOS\)](#).

31229 - HA score changed

Alarm Group:	HA
Description:	High availability health score changed
Severity:	Info
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal
Auto Clear Seconds: 300
OID: comcolHaScoreChangeNotify

Recovery:

Status message - no action required.

31230 - Recent alarm processing fault

Alarm Group: SW
Description: The recent alarm event manager (raclerk) is impaired by a s/w fault.
Severity: Minor
Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score: Normal
Auto Clear Seconds: 300
OID: comcolRecAlarmEvProcFaultNotify

Recovery:

1. This alarm indicates an error occurred within the alarm management subsystem, but the system has recovered.
2. If this alarm occurs repeatedly, contact [My Oracle Support \(MOS\)](#).

31231 - Platform alarm agent fault

Alarm Group: SW
Description: The platform alarm agent impaired by a s/w fault
Severity: Minor
Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score: Normal
Auto Clear Seconds: 300
OID: comcolPlatAlarmAgentNotify

Recovery:

1. This alarm indicates an error occurred within the alarm management subsystem, but the system has recovered.
2. If this alarm occurs repeatedly, contact [My Oracle Support \(MOS\)](#).

31232 - Late heartbeat warning

Alarm Group:	HA
Description:	High availability server has not received a message on specified path within the configured interval.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolHaLateHeartbeatWarningNotify

Recovery:

No action required; this is a warning and can be due to transient conditions. If there continues to be no heartbeat from the server, Alarm [31228 - HA standby offline](#) occurs.

31233 - HA Path Down

Alarm Group:	HA
Description:	High availability path loss of connectivity
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolHaPathDownNotify

Recovery:

1. If loss of communication between the active and standby servers over the secondary path is caused intentionally by maintenance activity, alarm can be ignored; it clears automatically when communication is restored between the two servers.
2. If communication fails at any other time, look for network connectivity issues on the secondary network.
3. Contact [My Oracle Support \(MOS\)](#).

31234 - Untrusted Time Upon Initialization

Alarm Group:	REPL
Description:	Upon system initialization, the system time is not trusted probably because NTP is misconfigured or the NTP servers are unreachable. There are often accompanying Platform alarms to guide correction.

Generally, applications are not started if time is not believed to be correct on start-up. Recovery will often will require rebooting the server.

Severity:	Critical
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	comcolUtrustedTimeOnInitNotify

Recovery:

1. Correct NTP configuration.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

31235 - Untrusted Time After Initialization

Alarm Group:	REPL
Description:	After system initialization, the system time has become untrusted probably because NTP has reconfigured improperly, time has been manually changed, the NTP servers are unreachable, etc. There are often accompanying Platform alarms to guide correction. Generally, applications remain running, but time-stamped data is likely incorrect, reports may be negatively affected, some behavior may be improper, etc.
Severity:	Critical
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	comcolUtrustedTimePostInitNotify

Recovery:

1. Correct NTP configuration.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

31236 - HA Link Down

Alarm Group:	HA
Description:	High availability TCP link is down.
Severity:	Critical
Instance:	Remote node being connected to plus the path identifier
HA Score:	Normal
Auto Clear Seconds:	300

OID: comcolHaLinkDownNotify

Recovery:

1. If loss of communication between the active and standby servers over the specified path is caused intentionally by maintenance activity, alarm can be ignored; it clears automatically when communication is restored between the two servers.
2. If communication fails at any other time, look for network connectivity issues on the primary network and/or contact [My Oracle Support \(MOS\)](#).

31240 - Measurements collection fault

Alarm Group: SW

Description: The measurements collector (statclerk) is impaired by a s/w fault.

Severity: Minor

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 300

OID: comcolMeasCollectorFaultNotify

Recovery:

1. This alarm indicates that an error within the measurement subsystem has occurred, but that the system has recovered.
2. If this alarm occurs repeatedly, collect savelogs and contact [My Oracle Support \(MOS\)](#).

31250 - RE port mapping fault

Alarm Group: SW

Description: The IP service port mapper (re.portmap) is impaired by a s/w fault

Severity: Minor

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 300

OID: comcolRePortMappingFaultNotify

Recovery:

This typically indicates a DNS Lookup failure. Verify all server hostnames are correct in the GUI configuration on the server generating the alarm.

31260 - SNMP Agent

Alarm Group:	SW
Description:	The SNMP agent (cmsnmpa) is impaired by a s/w fault.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	eagleXgDsrDbcomcolSnmpAgentNotify
Recovery:	
	1. Export event history for the given server and all processes.
	2. Contact My Oracle Support (MOS) .

31270 - Logging output

Alarm Group:	SW
Description:	Logging output set to Above Normal
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolLoggingOutputNotify
Recovery:	
	Extra diagnostic logs are being collected, potentially degrading system performance. Contact My Oracle Support (MOS) .

31280 - HA Active to Standby transition

Alarm Group:	HA
Description:	HA active to standby activity transition
Severity:	Info
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolActiveToStandbyTransNotify

Recovery:

1. If this alarm occurs during routine maintenance activity, it may be ignored.
2. Otherwise, contact [My Oracle Support \(MOS\)](#).

31281 - HA Standby to Active transition

Alarm Group:	HA
Description:	HA standby to active activity transition
Severity:	Info
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolStandbyToActiveTransNotify

Recovery:

1. If this alarm occurs during routine maintenance activity, it may be ignored.
2. Otherwise, contact [My Oracle Support \(MOS\)](#).

31282 - HA Management Fault

Alarm Group:	HA
Description:	The HA manager (cmha) is impaired by a software fault.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolHaMgmtFaultNotify

Recovery:

Export event history for the given server and cmha task, then Contact [My Oracle Support \(MOS\)](#).

31283 - Lost Communication with server

Alarm Group:	HA
Description:	Highly available server failed to receive mate heartbeats
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: comcolHaServerOfflineNotify

Recovery:

1. If loss of communication between the active and standby servers is caused intentionally by maintenance activity, alarm can be ignored; it clears automatically when communication is restored between the two servers.
2. If communication fails at any other time, look for network connectivity issues and/or Contact [My Oracle Support \(MOS\)](#).

31284 - HA Remote Subscriber Heartbeat Warning

Alarm Group: HA
Description: High availability remote subscriber has not received a heartbeat within the configured interval.
Severity: Minor
Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score: Normal
Auto Clear Seconds: 300
OID: comcolHaRemoteHeartbeatWarningNotify

Recovery:

1. No action required. This is a warning and can be due to transient conditions. The remote subscriber will move to another server in the cluster.
2. If there continues to be no heartbeat from the server, contact [My Oracle Support \(MOS\)](#).

31285 - HA Node Join Recovery Entry

Alarm Group: HA
Description: High availability node join recovery entered
Severity: Info
Instance: Cluster set key of the DC outputting the event
HA Score: Normal
Auto Clear Seconds: 300
OID: comcolHaSbrEntryNotify

Recovery:

No action required; this is a status message generated when one or more unaccounted for nodes join the designated coordinators group.

31286 - HA Node Join Recovery Plan

Alarm Group:	HA
Description:	High availability node join recovery plan
Severity:	Info
Instance:	Names of HA Policies (as defined in HA policy configuration)
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolHaSbrPlanNotify

Recovery:

No action required; this is a status message output when the designated coordinator generates a new action plan during node join recovery.

31287 - HA Node Join Recovery Complete

Alarm Group:	HA
Description:	High availability node join recovery complete
Severity:	Info
Instance:	Names of HA Policies (as defined in HA policy configuration)
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolHaSbrCompleteNotify

Recovery:

No action required; this is a status message output when the designated coordinator finishes running an action plan during node join recovery.

31290 - HA Process Status

Alarm Group:	HA
Description:	HA manager (cmha) status
Severity:	Info
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolHaProcessStatusNotify

Recovery:

1. If this alarm occurs during routine maintenance activity, it may be ignored.
2. Otherwise, contact [My Oracle Support \(MOS\)](#).

31291 - HA Election Status

Alarm Group:	HA
Description:	HA DC Election status
Severity:	Info
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolHaElectionStatusNotify

Recovery:

1. If this alarm occurs during routine maintenance activity, it may be ignored.
2. Otherwise, contact [My Oracle Support \(MOS\)](#).

31292 - HA Policy Status

Alarm Group:	HA
Description:	HA Policy plan status
Severity:	Info
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolHaPolicyStatusNotify

Recovery:

1. If this alarm occurs during routine maintenance activity, it may be ignored.
2. Otherwise, contact [My Oracle Support \(MOS\)](#).

31293 - HA Resource Link Status

Alarm Group:	HA
Description:	HA ResourceAgent Link status
Severity:	Info

Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolHaRaLinkStatusNotify
Recovery:	
1. If this alarm occurs during routine maintenance activity, it may be ignored.	
2. Otherwise, contact My Oracle Support (MOS) .	

31294 - HA Resource Status

Alarm Group:	HA
Description:	HA Resource registration status
Severity:	Info
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolHaResourceStatusNotify
Recovery:	
1. If this alarm occurs during routine maintenance activity, it may be ignored.	
2. Otherwise, contact My Oracle Support (MOS) .	

31295 - HA Action Status

Alarm Group:	HA
Description:	HA Resource action status
Severity:	Info
Instance	N/A
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolHaActionStatusNotify
Recovery:	
1. If this alarm occurs during routine maintenance activity, it may be ignored.	
2. Otherwise, contact My Oracle Support (MOS) .	

31296 - HA Monitor Status

Alarm Group:	HA
Description:	HA Monitor action status
Severity:	Info
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolHaMonitorStatusNotify

Recovery:

1. If this alarm occurs during routine maintenance activity, it may be ignored.
2. Otherwise, contact [My Oracle Support \(MOS\)](#).

31297 - HA Resource Agent Info

Alarm Group:	HA
Description:	HA Resource Agent Info
Severity:	Info
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300
OID:	comcolHaRaInfoNotify

Recovery:

1. If this alarm occurs during routine maintenance activity, it may be ignored.
2. Otherwise, contact [My Oracle Support \(MOS\)](#).

31298 - HA Resource Agent Detail

Alarm Group:	HA
Description:	Resource Agent application detailed information
Severity:	Info
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	300

OID: comcolHaRaDetailNotify

Recovery:

1. If this alarm occurs during routine maintenance activity, it may be ignored.
2. Otherwise, contact [My Oracle Support \(MOS\)](#).

31299 - HA Notification Status

Alarm Group: HA

Description: HA Notification status

Severity: Info

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 300

OID: comcolHaNotificationNotify

Recovery:
No action required.

31300 - HA Control Status

Alarm Group: HA

Description: HA Control action status

Severity: Info

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 300

OID: comcolHaControlNotify

Recovery:
No action required.

31301 - HA Topology Events

Alarm Group: HA

Description: HA Topology events

Severity: Info

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: eagleXgDsrHaTopologyNotify
Recovery:
 No action required.

32100 - Breaker Panel Feed Unavailable

Alarm Group: PLAT
Description: Breaker Panel Breaker Unavailable
Severity: Critical
Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: tpdBrkPnlFeedUnavailable
Recovery:
 Contact [My Oracle Support \(MOS\)](#) to request hardware replacement.

32101 - Breaker Panel Breaker Failure

Alarm Group: PLAT
Description: Breaker Panel Breaker Failure
Severity: Critical
Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: tpdBrkPnlBreakerFailure
Recovery
 Contact [My Oracle Support \(MOS\)](#) to request hardware replacement.

32102 - Breaker Panel Monitoring Failure

Alarm Group: PLAT
Description: Breaker Panel Monitoring Failure
Severity: Critical

Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdBrkPnlMntFailure

Recovery

Contact [My Oracle Support \(MOS\)](#) to request hardware replacement.

32103 - Power Feed Unavailable

Alarm Group:	PLAT
Description:	Power Feed Unavailable
Severity:	Critical
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdPowerFeedUnavail

Recovery

Contact [My Oracle Support \(MOS\)](#) to request hardware replacement.

32104 - Power Supply 1 Failure

Alarm Group:	PLAT
Description:	Power Supply 1 Failure
Severity:	Critical
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdPowerSupply1Failure

Recovery

Contact [My Oracle Support \(MOS\)](#) to request hardware replacement.

32105 - Power Supply 2 Failure

Alarm Group:	PLAT
Description:	Power Supply 2 Failure

Severity:	Critical
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdPowerSupply2Failure

Recovery

Contact [My Oracle Support \(MOS\)](#) to request hardware replacement.

32106 - Power Supply 3 Failure

Alarm Group:	PLAT
Description:	Power Supply 3 Failure
Severity:	Critical
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdPowerSupply3Failure

Recovery

Contact [My Oracle Support \(MOS\)](#) to request hardware replacement.

32107 - Raid Feed Unavailable

Alarm Group:	PLAT
Description:	Raid Feed Unavailable
Severity:	Critical
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdRaidFeedUnavailable

Recovery

Contact [My Oracle Support \(MOS\)](#) to request hardware replacement.

32108 - Raid Power 1 Failure

Alarm Group:	PLAT
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Description:	Raid Power 1 Failure
Severity:	Critical
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdRaidPower1Failure

Recovery

Contact [My Oracle Support \(MOS\)](#) to request hardware replacement.

32109 - Raid Power 2 Failure

Alarm Group:	PLAT
Description:	Raid Power 2 Failure
Severity:	Critical
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdRaidPower2Failure

Recovery

Contact [My Oracle Support \(MOS\)](#) to request hardware replacement.

32110 - Raid Power 3 Failure

Alarm Group:	PLAT
Description:	Raid Power 3 Failure
Severity:	Critical
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdRaidPower3Failure

Recovery

Contact [My Oracle Support \(MOS\)](#) to request hardware replacement.

32111 - Device Failure

Alarm Group:	PLAT
Description:	Device Failure
Severity:	Critical
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdDeviceFailure

Recovery:

Contact [My Oracle Support \(MOS\)](#) to request hardware replacement.

32112 - Device Interface Failure

Alarm Group:	PLAT
Description:	Device Interface Failure
Severity:	Critical
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdDeviceIfFailure

Recovery:

Contact [My Oracle Support \(MOS\)](#) to request hardware replacement.

32113 - Uncorrectable ECC memory error

Alarm Group:	PLAT
Description:	This alarm indicates that chipset has detected an uncorrectable (multiple-bit) memory error that the ECC (Error-Correcting Code) circuitry in the memory is unable to correct.
Severity:	Critical
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdEccUncorrectableError

Alarm ID: TKSPLATCR14

Recovery:

Contact [My Oracle Support \(MOS\)](#) to request hardware replacement.

32114 - SNMP get failure

Alarm Group: PLAT

Description: The server failed to receive SNMP information from the switch.

Severity: Critical

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: tpdSNMPGetFailure

Alarm ID: TKSPLATCR15

Recovery:

1. Use the following command to verify the switch is active: `ping switch1A/B` (this requires command line access).
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

32115 - TPD NTP Daemon Not Synchronized Failure

Alarm Group: PLAT

Description: This alarm indicates that the server's current time precedes the timestamp of the last known time the servers time was good.

Severity: Critical

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: tpdNTPDaemonNotSynchronizedFailure

Alarm ID: TKSPLATCR16

Recovery:

1. Verify NTP settings and that NTP sources can be reached.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

32116 - TPD Server's Time Has Gone Backwards

Alarm Group:	PLAT
Description:	This alarm indicates that the server's current time precedes the timestamp of the last known time the servers time was good.
Severity:	Critical
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdNTPTimeGoneBackwards
Alarm ID:	TKSPLATCR17

Recovery:

1. Verify NTP settings and that NTP sources are providing accurate time.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

32117 - TPD NTP Offset Check Failure

Alarm Group:	PLAT
Description:	This alarm indicates the NTP offset of the server that is currently being synced to is greater than the critical threshold.
Severity:	Critical
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	ntpOffsetCheckFailure
Alarm ID:	TKSPLATCR18

Recovery:

Contact [My Oracle Support \(MOS\)](#).

32300 - Server fan failure

Alarm Group:	PLAT
Description:	This alarm indicates that a fan on the application server is either failing or has failed completely. In either case, there is a danger of component failure due to overheating.
Severity:	Major

Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdFanError
Alarm ID:	TKSPLATMA1
Recovery:	Contact My Oracle Support (MOS) .

32301 - Server internal disk error

Alarm Group:	PLAT
Description:	This alarm indicates the server is experiencing issues replicating data to one or more of its mirrored disk drives. This could indicate that one of the server's disks has either failed or is approaching failure.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdIntDiskError
Alarm ID:	TKSPLATMA2
Recovery:	Contact My Oracle Support (MOS) .

32302 - Server RAID disk error

Alarm Group:	PLAT
Description:	This alarm indicates that the offboard storage server had a problem with its hardware disks.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdRaidDiskError
Alarm ID:	TKSPLATMA3

Recovery

Contact [My Oracle Support \(MOS\)](#).

32303 - Server Platform error

Alarm Group:	PLAT
Description:	This alarm indicates an error such as a corrupt system configuration or missing files.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdPlatformError
Alarm ID:	TKSPLATMA4

Recovery:

Contact [My Oracle Support \(MOS\)](#) and provide the system health check output.

32304 - Server file system error

Alarm Group:	PLAT
Description:	This alarm indicates unsuccessful writing to at least one of the server's file systems.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdFileSystemError
Alarm ID:	TKSPLATMA5

Recovery:

If the problem persists, contact [My Oracle Support \(MOS\)](#).

32305 - Server Platform process error

Alarm Group:	PLAT
Description:	This alarm indicates that either the minimum number of instances for a required process are not currently running or too many instances of a required process are running.

Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdPlatProcessError
Alarm ID:	TKSPLATMA6
Recovery:	Contact My Oracle Support (MOS) .

32306 - Server RAM shortage error

Alarm Group:	PLAT
Description:	Not Implemented.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdRamShortageError
Recovery	Contact My Oracle Support (MOS) .

32307 - Server swap space shortage failure

Alarm Group:	PLAT
Description:	This alarm indicates that the server's swap space is in danger of being depleted. This is usually caused by a process that has allocated a very large amount of memory over time.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdSwapSpaceShortageError
Alarm ID:	TKSPLATMA8
Recovery:	

Contact [My Oracle Support \(MOS\)](#).

32308 - Server provisioning network error

Alarm Group:	PLAT
Description:	This alarm indicates that the connection between the server's ethernet interface and the customer network is not functioning properly.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdProvNetworkError
Alarm ID:	TKSPLATMA9

Recovery:

1. Verify that a customer-supplied cable labeled TO CUSTOMER NETWORK is securely connected to the appropriate server. Follow the cable to its connection point on the local network and verify this connection is also secure.
2. Test the customer-supplied cable labeled TO CUSTOMER NETWORK with an Ethernet Line Tester. If the cable does not test positive, replace it.
3. Have your network administrator verify that the network is functioning properly.
4. If no other nodes on the local network are experiencing problems and the fault has been isolated to the server or the network administrator is unable to determine the exact origin of the problem, contact [My Oracle Support \(MOS\)](#).

32309 - Eagle Network A Error

Alarm Group:	PLAT
Description:	Uncorrectable ECC Memory Error -- This alarm indicates that chipset has detected an uncorrectable (multiple-bit) memory error that the ECC (Error-Correcting Code) circuitry in the memory is unable to correct.
Severity:	Critical
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdEagleNetworkAError

Recovery

Contact [My Oracle Support \(MOS\)](#) to request hardware replacement.

32310 - Eagle Network B Error

Alarm Group:	PLAT
Description:	Uncorrectable ECC Memory Error -- This alarm indicates that chipset has detected an uncorrectable (multiple-bit) memory error that the ECC (Error-Correcting Code) circuitry in the memory is unable to correct.
Severity:	Critical
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdEagleNetworkBError

Recovery

Contact [My Oracle Support \(MOS\)](#) to request hardware replacement.

32311 - Sync Network Error

Alarm Group:	PLAT
Description:	Uncorrectable ECC Memory Error -- This alarm indicates that chipset has detected an uncorrectable (multiple-bit) memory error that the ECC (Error-Correcting Code) circuitry in the memory is unable to correct.
Severity:	Critical
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdSyncNetworkError

Recovery


Contact [My Oracle Support \(MOS\)](#) to request hardware replacement.

32312 - Server disk space shortage error

Alarm Group:	PLAT
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Description:	This alarm indicates that one of the following conditions has occurred: <ul style="list-style-type: none"> • A file system has exceeded a failure threshold, which means that more than 90% of the available disk storage has been used on the file system. • More than 90% of the total number of available files have been allocated on the file system. • A file system has a different number of blocks than it had when installed.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdDiskSpaceShortageError
Alarm ID:	TKSPLATMA13
Recovery:	Contact My Oracle Support (MOS) .

32313 - Server default route network error

Alarm Group:	PLAT
Description:	This alarm indicates that the default network route of the server is experiencing a problem. <div style="display: flex; align-items: center; margin-top: 10px;">  <div style="margin-left: 10px;"> <p>Caution: When changing the network routing configuration of the server, verify that the modifications will not impact the method of connectivity for the current login session. The route information must be entered correctly and set to the correct values. Incorrectly modifying the routing configuration of the server may result in total loss of remote network access.</p> </div> </div>
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdDefaultRouteNetworkError
Recovery:	Contact My Oracle Support (MOS) .

32314 - Server temperature error

Alarm Group:	PLAT
Description:	The internal temperature within the server is unacceptably high.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdServerTemperatureError
Alarm ID:	TKSPLATMA15

Recovery:

1. Ensure that nothing is blocking the fan's intake. Remove any blockage.
2. Verify that the temperature in the room is normal. If it is too hot, lower the temperature in the room to an acceptable level.

Note: Be prepared to wait the appropriate period of time before continuing with the next step. Conditions need to be below alarm thresholds consistently for the alarm to clear. It may take about ten minutes after the room returns to an acceptable temperature before the alarm cleared.

3. If the problem has not been resolved, contact [My Oracle Support \(MOS\)](#).

32315 - Server mainboard voltage error

Alarm Group:	PLAT
Description:	This alarm indicates that one or more of the monitored voltages on the server mainboard have been detected to be out of the normal expected operating range.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdServerMainboardVoltageError
Alarm ID:	TKSPLATMA16

Recovery:

Contact [My Oracle Support \(MOS\)](#).

32316 - Server power feed error

Alarm Group:	PLAT
Description:	This alarm indicates that one of the power feeds to the server has failed. If this alarm occurs in conjunction with any Breaker Panel alarm, there might be a problem with the breaker panel.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdPowerFeedError
Alarm ID:	TKSPLATMA17

Recovery:

1. Verify that all the server power feed cables to the server that is reporting the error are securely connected.
2. Check to see if the alarm has cleared
 - If the alarm has been cleared, the problem is resolved.
 - If the alarm has not been cleared, continue with the next step.
3. Follow the power feed to its connection on the power source. Ensure that the power source is ON and that the power feed is properly secured.
4. Check to see if the alarm has cleared
 - If the alarm has been cleared, the problem is resolved.
 - If the alarm has not been cleared, continue with the next step.
5. If the power source is functioning properly and the wires are all secure, have an electrician check the voltage on the power feed.
6. Check to see if the alarm has cleared
 - If the alarm has been cleared, the problem is resolved.
 - If the alarm has not been cleared, continue with the next step.
7. If the problem has not been resolved, contact [My Oracle Support \(MOS\)](#).

32317 - Server disk health test error

Alarm Group:	PLAT
Description:	Either the hard drive has failed or failure is imminent.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: tpdDiskHealthError
Alarm ID: TKSPLATMA18

Recovery:

1. Perform the recovery procedures for the other alarms that accompany this alarm.
2. If the problem has not been resolved, contact [My Oracle Support \(MOS\)](#).

32318 - Server disk unavailable error

Alarm Group: PLAT
Description: The smartd service is not able to read the disk status because the disk has other problems that are reported by other alarms. This alarm appears only while a server is booting.
Severity: Major
Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: tpdDiskUnavailableError
Alarm ID: TKSPLATMA19

Recovery:

Contact [My Oracle Support \(MOS\)](#).

32319 - Device error

Alarm Group: PLAT
Description: This alarm indicates that the offboard storage server had a problem with its disk volume filling up.
Severity: Major
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: tpdDeviceError
Alarm ID: TKSPLATMA20

Recovery

Contact the [My Oracle Support \(MOS\)](#).

32320 - Device interface error

Alarm Group:	PLAT
Description:	This alarm indicates that the IP bond is either not configured or down.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdDeviceIfError
Alarm ID:	TKSPLATMA21
Recovery:	Contact My Oracle Support (MOS) .

32321 - Correctable ECC memory error

Alarm Group:	PLAT
Description:	This alarm indicates that chipset has detected a correctable (single-bit) memory error that has been corrected by the ECC (Error-Correcting Code) circuitry in the memory.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdEccCorrectableError
Alarm ID:	TKSPLATMA22
Recovery:	No recovery necessary. If the condition persists, contact My Oracle Support (MOS) to request hardware replacement.

32322 - Power Supply A error

Alarm Group:	PLAT
Description:	This alarm indicates that power supply 1 (feed A) has failed.
Severity:	Major

Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdPowerSupply1Error
Alarm ID:	TKSPLATMA23

Recovery:

1. Verify that nothing is obstructing the airflow to the fans of the power supply.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

32323 - Power Supply B error

Alarm Group:	PLAT
Description:	This alarm indicates that power supply 2 (feed B) has failed.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdPowerSupply2Error
Alarm ID:	TKSPLATMA24

Recovery:

1. Verify that nothing is obstructing the airflow to the fans of the power supply.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

32324 - Breaker panel feed error

Alarm Group:	PLAT
Description:	This alarm indicates that the server is not receiving information from the breaker panel relays.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdBrkPnlFeedError
Alarm ID:	TKSPLATMA25

Recovery:

1. Verify that the same alarm is displayed by multiple servers:
 - If this alarm is displayed by only one server, the problem is most likely to be with the cable or the server itself. Look for other alarms that indicate a problem with the server and perform the recovery procedures for those alarms first.
 - If this alarm is displayed by multiple servers, go to the next step.
2. Verify that the cables that connect the servers to the breaker panel are not damaged and are securely fastened to both the Alarm Interface ports on the breaker panel and to the serial ports on both servers.
3. If the problem has not been resolved, contact [My Oracle Support \(MOS\)](#) to request that the breaker panel be replaced.

32325 - Breaker panel breaker error

Alarm Group: PLAT

Description: This alarm indicates that a power fault has been identified by the breaker panel. The LEDs on the center of the breaker panel (see [Figure 16: Breaker Panel LEDs](#)) identify whether the fault occurred on the input power or the output power, as follows:

- A power fault on input power (power from site source to the breaker panel) is indicated by one of the LEDs in the PWR BUS A or PWR BUS B group illuminated Red. In general, a fault in the input power means that power has been lost to the input power circuit.

Note: LEDs in the PWR BUS A or PWR BUS B group that correspond to unused feeds are not illuminated; LEDs in these groups that are not illuminated do not indicate problems.

- A power fault on output power (power from the breaker panel to other frame equipment) is indicated by either BRK FAIL BUS A or BRK FAIL BUS B illuminated RED. This type of fault can be caused by a surge or some sort of power degradation or spike that causes one of the circuit breakers to trip.

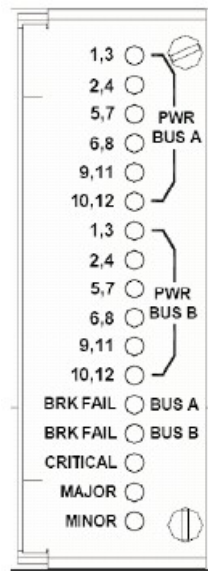


Figure 16: Breaker Panel LEDs

Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	TPDBrkPnlBreakerError
Alarm ID:	TKSPLATMA26

Recovery:

1. Verify that the same alarm is displayed by multiple servers:
 - If this alarm is displayed by only one server, the problem is most likely to be with the cable or the server itself. Look for other alarms that indicate a problem with the server and perform the recovery procedures for those alarms first.
 - If this alarm is displayed by multiple servers, go to the next step.
2. Look at the breaker panel assignments and verify that the corresponding LED in the PWR BUS A group and the PWR BUS B group is illuminated Green.

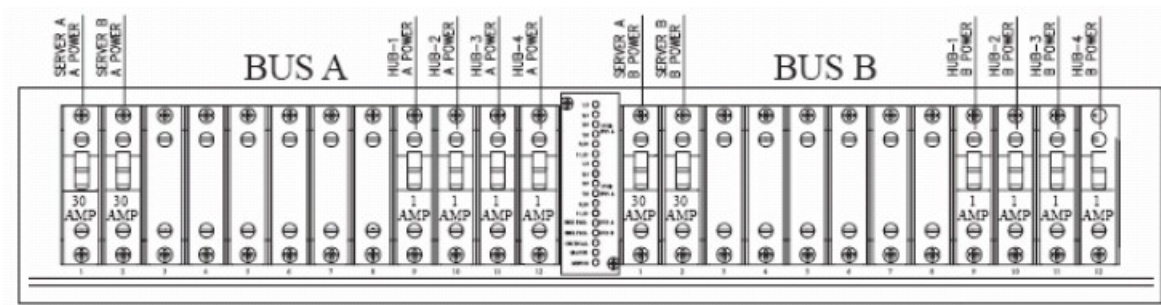


Figure 17: Breaker Panel Setting

If one of the LEDs in the PWR BUS A group or the PWR BUS B group is illuminated Red, a problem has been detected with the corresponding input power feed. Contact [My Oracle Support \(MOS\)](#)

3. Check the BRK FAIL LEDs for BUS A and for BUS B.
 - If one of the BRK FAIL LEDs is illuminated Red, then one or more of the respective Input Breakers has tripped. (A tripped breaker is indicated by the toggle located in the center position.) Perform the following steps to repair this issue:
 - a) For all tripped breakers, move the breaker down to the open (OFF) position and then back up to the closed (ON) position.
 - b) After all the tripped breakers have been reset, check the BRK FAIL LEDs again. If one of the BRK FAIL LEDs is still illuminated Red, Contact [My Oracle Support \(MOS\)](#)
 - If all of the BRK FAIL LEDs and all the LEDs in the PWR BUS A group and the PWR BUS B group are illuminated Green, continue with the next step.
 - If all of the BRK FAIL LEDs and all the LEDs in the PWR BUS A group and the PWR BUS B group are illuminated Green, there is most likely a problem with the serial connection between the server and the breaker panel. This connection is used by the system health check to monitor the breaker panel for failures. Verify that both ends of the labeled serial cables are properly secured. If any issues are discovered with these cable connections, make the necessary corrections and continue to the next step to verify that the alarm has been cleared, otherwise Contact [My Oracle Support \(MOS\)](#)
4. If the problem has not been resolved, contact [My Oracle Support \(MOS\)](#)

32326 - Breaker panel monitoring error

Alarm Group: PLAT

Description: This alarm indicates a failure in the hardware and/or software that monitors the breaker panel. This could mean there is a problem with the file I/O libraries, the serial device drivers, or the serial hardware itself.

Note: When this alarm occurs, the system is unable to monitor the breaker panel for faults. Thus, if this alarm is detected, it is imperative that the breaker panel be carefully examined for the existence of faults. The LEDs on the breaker panel will be the only indication of the occurrence of either alarm:

- 32324 – Breaker panel feed error

- 32325 – Breaker panel breaker error

until the Breaker Panel Monitoring Error has been corrected.

Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdBrkPnlMntError
Alarm ID:	TKSPLATMA27

Recovery:

1. Verify that the same alarm is displayed by multiple servers:
 - If this alarm is displayed by only one server, the problem is most likely to be with the cable or the server itself. Look for other alarms that indicate a problem with the server and perform the recovery procedures for those alarms first.
 - If this alarm is displayed by multiple servers, go to the next step.
2. Verify that both ends of the labeled serial cables are secured properly (for locations of serial cables, see the appropriate hardware manual).
3. If the alarm has not been cleared, contact [My Oracle Support \(MOS\)](#).

32327 - Server HA Keepalive error

Alarm Group:	PLAT
Description:	This alarm indicates that heartbeat process has detected that it has failed to receive a heartbeat packet within the timeout period.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdHaKeepaliveError
Alarm ID:	TKSPLATMA28

Recovery:

1. Determine if the mate server is currently down and bring it up if possible.
2. Determine if the keepalive interface is down.
3. Determine if heartbeat is running (service TKLCha status).

Note: This step may require command line ability.
4. Contact [My Oracle Support \(MOS\)](#).

32328 - DRBD is unavailable

Alarm Group:	PLAT
Description:	This alarm indicates that DRBD is not functioning properly on the local server. The DRBD state (disk state, node state, and/or connection state) indicates a problem.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdDrbdUnavailable
Alarm ID:	TKSPLATMA29
Recovery	
	Contact My Oracle Support (MOS) .

32329 - DRBD is not replicating

Alarm Group:	PLAT
Description:	This alarm indicates that DRBD is not replicating to the peer server. Usually this indicates that DRBD is not connected to the peer server. It is possible that a DRBD Split Brain has occurred.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdDrbdNotReplicating
Alarm ID:	TKSPLATMA30
Recovery	
	Contact My Oracle Support (MOS) .

32330 - DRBD peer problem

Alarm Group:	PLAT
Description:	This alarm indicates that DRBD is not functioning properly on the peer server. DRBD is connected to the peer server, but the DRBD state on the peer server is either unknown or indicates a problem.
Severity:	Major

Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdDrbdPeerProblem
Alarm ID:	TKSPLATMA31

Recovery

Contact the [My Oracle Support \(MOS\)](#).

32331 - HP disk problem

Alarm Group:	PLAT
Description:	This major alarm indicates that there is an issue with either a physical or logical disk in the HP disk subsystem. The message will include the drive type, location, slot and status of the drive that has the error.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdHpDiskProblem
Alarm ID:	TKSPLATMA32

Recovery:

Contact [My Oracle Support \(MOS\)](#).

32332 - HP Smart Array controller problem

Alarm Group:	PLAT
Description:	This major alarm indicates that there is an issue with an HP disk controller. The message will include the slot location, the component on the controller that has failed, and status of the controller that has the error.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdHpDiskCtrlrProblem

Alarm ID: TKSPLATMA33

Recovery:

Contact [My Oracle Support \(MOS\)](#).

32333 - HP hpacucliStatus utility problem

Alarm Group: PLAT

Description: This major alarm indicates that there is an issue with the process that caches the HP disk subsystem status. This usually means that the hpacucliStatus/hpDiskStatus daemon is either not running, or hung.

Severity: Major

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: tpdHPACUCLIProblem

Alarm ID: TKSPLATMA34

Recovery:

Contact [My Oracle Support \(MOS\)](#).

32334 - Multipath device access link problem

Alarm Group: PLAT

Description: One or more "access paths" of a multipath device are failing or are not healthy, or the multipath device does not exist.

Severity: Major

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: tpdMpathDeviceProblem

Recovery:

Contact [My Oracle Support \(MOS\)](#).

32335 - Switch link down error

Alarm Group: PLAT

Description: The link is down.

Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdSwitchLinkDownError
Alarm ID:	TKSPLATMA36
Recovery:	
	<ol style="list-style-type: none"> 1. Verify the cabling between the port and the remote side. 2. Verify networking on the remote end. 3. If the problem persists, contact My Oracle Support (MOS) who should verify port settings on both the server and the switch.

32336 - Half Open Socket Limit

Alarm Group:	PLAT
Description:	This alarm indicates that the number of half open TCP sockets has reached the major threshold. This problem is caused by a remote system failing to complete the TCP 3-way handshake.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdHalfOpenSockLimit
Alarm ID:	TKSPLATMA37
Recovery:	
	Contact My Oracle Support (MOS) .

32337 - Flash Program Failure

Alarm Group:	PLAT
Description:	This alarm indicates that there was an error while trying to update the firmware flash on the E5-APP-B cards.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal

Auto Clear Seconds: 0 (zero)
OID: tpdFlashProgramFailure
Alarm ID: TKSPLATMA38
Recovery:
 Contact [My Oracle Support \(MOS\)](#).

32338 - Serial Mezzanine Unseated

Alarm Group: PLAT
Description: This alarm indicates that a connection to the serial mezzanine board may not be properly seated.
Severity: Major
Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: tpdSerialMezzUnseated
Alarm ID: TKSPLATMA39
Recovery:

1. Ensure that both ends of both cables connecting the serial mezzanine card to the main board are properly seated into their connectors.
2. Contact My Oracle Support (MOS) if reseating the cables does not clear the alarm.

32339 - Max pid limit

Alarm Group: PLAT
Description: This alarm indicates that the maximum number of running processes has reached the major threshold.
Severity: Major
Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: tpdMaxPidLimit
Alarm ID: TKSPLATMA40
Recovery:
 Contact [My Oracle Support \(MOS\)](#).

32340 - Server NTP Daemon Lost Synchronization For Extended Time

Alarm Group:	PLAT
Description:	This alarm indicates that the server is not synchronized to an NTP source and has not been synchronized for an extended number of hours and has reached the major threshold.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdNTPDaemonNotSynchronizedError
Alarm ID:	TKSPLATMA41
Recovery:	<ol style="list-style-type: none"> 1. Verify NTP settings and that NTP sources can be reached. 2. Contact My Oracle Support (MOS).

32341 - Server NTP Daemon Never Synchronized Error

Alarm Group:	PLAT
Description:	This alarm indicates that the server is not synchronized to an NTP source and has never been synchronized since the last configuration change.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdNTPDaemonNeverSynchronized
Alarm ID:	TKSPLATMA42
Recovery:	<ol style="list-style-type: none"> 1. Verify NTP settings and that NTP sources can be reached. 2. Contact My Oracle Support (MOS).

32342 - NTP Offset Check Error

Alarm Group:	PLAT
Description:	This alarm indicates the NTP offset of the server that is currently being synced to is greater than the major threshold.

Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	ntpOffsetCheckError
Alarm ID:	TKSPLATMA43

Recovery:

1. Verify NTP settings and that NTP are providing accurate time.
2. Contact [My Oracle Support \(MOS\)](#).

32343 - RAID disk problem

Alarm Group:	PLAT
Description:	This alarms indicates that physical disk or logical volume on RAID controller is not in optimal state as reported by syscheck.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdDiskProblem
Alarm ID:	TKSPLATMA44

Recovery:

Contact [My Oracle Support \(MOS\)](#).

32344 - RAID controller problem

Alarm Group:	PLAT
Description:	This alarms indicates that RAID controller needs intervention.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdDiskCtrlrProblem
Alarm ID:	TKSPLATMA45

Recovery:

Contact [My Oracle Support \(MOS\)](#).

32345 - Server Upgrade snapshot(s) invalid

Alarm Group:	PLAT
Description:	This alarm indicates that upgrade snapshot(s) are invalid and backout is no longer possible.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdUpgradeSnapshotInvalid
Alarm ID:	TKSPLATMA46

Recovery:

1. Run accept to remove invalid snapshot(s) and clear alarms.
2. Contact [My Oracle Support \(MOS\)](#)

32346 - Server Hardware Problem

Alarm Group:	PLAT
Description:	This alarms indicates that OEM hardware management service reports an error.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdOEMHardware
Alarm ID:	TKSPLATMA47

Recovery:

Contact [My Oracle Support \(MOS\)](#)

32347 - Oracle hwmgmtcliStatus Problem

Alarm Group:	PLAT
Description:	This alarms indicates the hwmgmtcliStatus daemon is not running or is not responding.

Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdHWMGMTCLIPProblem
Alarm ID:	TKSPLATMA47
Recovery:	Contact My Oracle Support (MOS)

32348 - FIPS subsystem problem

Alarm Group:	PLAT
Description:	This alarm indicates the FIPS subsystem is not running or has encountered errors.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdFipsSubsystemProblem
Recovery:	<ol style="list-style-type: none"> 1. Run syscheck in verbose mode. 2. Contact My Oracle Support (MOS).

32349 - File Tampering

Alarm Group:	PLAT
Description:	This alarm indicates HIDS has detected file tampering.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdHidsFileTampering
Recovery:	Contact My Oracle Support (MOS) .

32350 - Security Process Terminated

Alarm Group:	PLAT
Description:	This alarm indicates that the security process monitor is not running.
Severity:	Major
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdSecurityProcessDown
Recovery:	Contact My Oracle Support (MOS) .

32500 - Server disk space shortage warning

Alarm Group:	PLAT
Description:	<p>This alarm indicates that one of the following conditions has occurred:</p> <ul style="list-style-type: none"> • A file system has exceeded a warning threshold, which means that more than 80% (but less than 90%) of the available disk storage has been used on the file system. • More than 80% (but less than 90%) of the total number of available files have been allocated on the file system.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdDiskSpaceShortageWarning
Alarm ID:	TKSPLATMI1
Recovery:	Contact My Oracle Support (MOS) .

32501 - Server application process error

Alarm Group:	PLAT
Description:	This alarm indicates that either the minimum number of instances for a required process are not currently running or too many instances of a required process are running.

Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdApplicationProcessError
Alarm ID:	TKSPLATMI2
Recovery:	Contact My Oracle Support (MOS) .

32502 - Server hardware configuration error

Alarm Group:	PLAT
Description:	This alarm indicates that one or more of the server's hardware components are not in compliance with specifications (refer to the appropriate hardware manual).
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdHardwareConfigError
Alarm ID:	TKSPLATMI3
Recovery:	Contact My Oracle Support (MOS) .

32503 - Server RAM shortage warning

Alarm Group:	PLAT
Description:	This alarm is generated by the MPS syscheck software package and is not part of the TPD distribution.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdRamShortageWarning
Alarm ID:	TKSPLATMI4

Recovery

1. Refer to MPS-specific documentation for information regarding this alarm.
2. Contact the [My Oracle Support \(MOS\)](#).

32504 - Software Configuration Error

Alarm Group:	PLAT
Description:	This alarm is generated by the MPS syscheck software package and is not part of the PLAT distribution.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdSoftwareConfigError

Recovery

Contact [My Oracle Support \(MOS\)](#).

32505 - Server swap space shortage warning

Alarm Group:	PLAT
Description:	<p>This alarm indicates that the swap space available on the server is less than expected. This is usually caused by a process that has allocated a very large amount of memory over time.</p> <p>Note: For this alarm to clear, the underlying failure condition must be consistently undetected for a number of polling intervals. Therefore, the alarm may continue to be reported for several minutes after corrective actions are completed.</p>
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdSwapSpaceShortageWarning
Alarm ID:	TKSPLATMI6

Recovery:

Contact [My Oracle Support \(MOS\)](#).

32506 - Server default router not defined

Alarm Group: PLAT

Description: This alarm indicates that the default network route is either not configured or the current configuration contains an invalid IP address or hostname.



Caution: When changing the server's network routing configuration it is important to verify that the modifications will not impact the method of connectivity for the current login session. It is also crucial that this information not be entered incorrectly or set to improper values. Incorrectly modifying the server's routing configuration may result in total loss of remote network access.

Severity: Minor

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: tpdDefaultRouteNotDefined

Alarm ID: TKSPLATMI7

Recovery:
Contact [My Oracle Support \(MOS\)](#).

32507 - Server temperature warning

Alarm Group: PLAT

Description: This alarm indicates that the internal temperature within the server is outside of the normal operating range. A server Fan Failure may also exist along with the Server Temperature Warning.

Severity: Minor

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: tpdServerTemperatureWarning

Alarm ID: TKSPLATMI8

Recovery:

1. Ensure that nothing is blocking the fan's intake. Remove any blockage.
2. Verify that the temperature in the room is normal. If it is too hot, lower the temperature in the room to an acceptable level.

Note: Be prepared to wait the appropriate period of time before continuing with the next step. Conditions need to be below alarm thresholds consistently for the alarm to clear. It may take about ten minutes after the room returns to an acceptable temperature before the alarm cleared.

3. Replace the filter (refer to the appropriate hardware manual).

Note: Be prepared to wait the appropriate period of time before continuing with the next step. Conditions need to be below alarm thresholds consistently for the alarm to clear. It may take about ten minutes after the filter is replaced before the alarm cleared.

4. If the problem has not been resolved, contact [My Oracle Support \(MOS\)](#).

32508 - Server core file detected

Alarm Group:	PLAT
Description:	This alarm indicates that an application process has failed and debug information is available.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdServerCoreFileDetected
Alarm ID:	TKSPLATMI9

Recovery:

1. Contact [My Oracle Support \(MOS\)](#) to create a service request.
2. On the affected server, execute this command:

```
ll /var/TKLC/core
```

Add the command output to the service request. Include the date of creation found in the command output.

3. Attach core files to the MOS service request.
4. The user can remove the files to clear the alarm with this command:

```
rm -f /var/TKLC/core/<coreFileName>
```

32509 - Server NTP Daemon not synchronized

Alarm Group:	PLAT
Description:	This alarm indicates that the NTP daemon (background process) has been unable to locate a server to provide an acceptable time reference for synchronization.

Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdNTPDaemonNotSynchronizedWarning
Alarm ID:	TKSPLATMI10

Recovery:

1. Locate the server's Network Timing Protocol (NTP) source.
2. Determine if the NTP server is reachable.
3. Contact [My Oracle Support \(MOS\)](#) if additional assistance is needed.

32510 - CMOS battery voltage low

Alarm Group:	PLAT
Description:	The presence of this alarm indicates that the CMOS battery voltage has been detected to be below the expected value. This alarm is an early warning indicator of CMOS battery end-of-life failure which will cause problems in the event the server is powered off.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdCMOSBatteryVoltageLow
Alarm ID:	TKSPLATMI11

Recovery:

Contact [My Oracle Support \(MOS\)](#).

32511 - Server disk self test warning

Alarm Group:	PLAT
Description:	A non-fatal disk issue (such as a sector cannot be read) exists.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)

OID: tpdSmartTestWarn

Alarm ID: TKSPLATMI12

Recovery:

Contact [My Oracle Support \(MOS\)](#).

32512 - Device warning

Alarm Group: PLAT

Description: This alarm indicates that either we are unable to perform an `snmpget` command on the configured SNMP OID or the value returned failed the specified comparison operation.

Severity: Minor

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: tpdDeviceWarn

Alarm ID: TKSPLATMI13

Recovery:

Contact [My Oracle Support \(MOS\)](#).

32513 - Device interface warning

Alarm Group: PLAT

Description: This alarm can be generated by either an SNMP trap or an IP bond error.

Severity: Minor

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: tpdDeviceIfWarn

Alarm ID: TKSPLATMI14

Recovery:

Contact [My Oracle Support \(MOS\)](#).

32514 - Server reboot watchdog initiated

Alarm Group:	PLAT
Description:	This alarm indicates that the hardware watchdog was not strobed by the software and so the server rebooted the server. This applies to only the last reboot and is only supported on a T1100 application server.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdWatchdogReboot
Alarm ID:	TKSPLATMI15
Recovery:	Contact My Oracle Support (MOS) .

32515 - Server HA failover inhibited

Alarm Group:	PLAT
Description:	This alarm indicates that the server has been inhibited and therefore HA failover is prevented from occurring.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdHaInhibited
Alarm ID:	TKSPLATMI16
Recovery:	Contact My Oracle Support (MOS) .

32516 - Server HA Active to Standby transition

Alarm Group:	PLAT
Description:	This alarm indicates that the server is in the process of transitioning HA state from Active to Standby.
Severity:	Minor

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: tpdHaActiveToStandbyTrans

Alarm ID: TKSPLATMI17

Recovery:
Contact [My Oracle Support \(MOS\)](#).

32517 - Server HA Standby to Active transition

Alarm Group: PLAT

Description: This alarm indicates that the server is in the process of transitioning HA state from Standby to Active.

Severity: Minor

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: tpdHaStandbyToActiveTrans

Alarm ID: TKSPLATMI18

Recovery:
Contact [My Oracle Support \(MOS\)](#).

32518 - Platform Health Check failure

Alarm Group: PLAT

Description: This alarm is used to indicate a configuration error.

Severity: Minor

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: tpdHealthCheckFailed

Alarm ID: TKSPLATMI19

Recovery:
Contact [My Oracle Support \(MOS\)](#).

32519 - NTP Offset Check failure

Alarm Group:	PLAT
Description:	This minor alarm indicates that time on the server is outside the acceptable range (or offset) from the NTP server. The Alarm message will provide the offset value of the server from the NTP server and the offset limit that the application has set for the system.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	ntpOffsetCheckWarning
Alarm ID:	TKSPLATMI20
Recovery:	Contact My Oracle Support (MOS) .

32520 - NTP Stratum Check failure

Alarm Group:	PLAT
Description:	This alarm indicates that NTP is syncing to a server, but the stratum level of the NTP server is outside of the acceptable limit. The Alarm message will provide the stratum value of the NTP server and the stratum limit that the application has set for the system.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	ntpStratumCheckFailed
Alarm ID:	TKSPLATMI21
Recovery:	<ol style="list-style-type: none"> 1. Locate the server's Network Timing Protocol (NTP) source. 2. Check the NTP server's stratum level. Stratum level 13 or higher will generate the alarm. 3. Contact My Oracle Support (MOS) if additional assistance is needed.

32521 - SAS Presence Sensor Missing

Alarm Group:	PLAT
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Description:	This alarm indicates that the T1200 server drive sensor is not working.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	sasPresenceSensorMissing
Alarm ID:	TKSPLATMI22
Recovery:	Contact My Oracle Support (MOS) to get a replacement server.

32522 - SAS Drive Missing

Alarm Group:	PLAT
Description:	This alarm indicates that the number of drives configured for this server is not being detected.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	sasDriveMissing
Alarm ID:	TKSPLATMI23
Recovery:	Contact My Oracle Support (MOS) to determine whether the issue is with a failed drive or failed configuration.

32523 - DRBD failover busy

Alarm Group:	PLAT
Description:	This alarm indicates that a DRBD sync is in progress from the peer server to the local server. The local server is not ready to act as the primary DRBD node, since it's data is not up to date.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal

Auto Clear Seconds: 0 (zero)
OID: tpdDrbdFailoverBusy
Alarm ID: TKSPLATMI24

Recovery

A DRBD sync should not take more than 15 minutes to complete. Please wait for approximately 20 minutes, and then check if the DRBD sync has completed. If the alarm persists longer than this time period, contact the [My Oracle Support \(MOS\)](#).

32524 - HP disk resync

Alarm Group: PLAT
Description: This minor alarm indicates that the HP disk subsystem is currently resynchronizing after a failed or replaced drive, or some other change in the configuration of the HP disk subsystem. The output of the message will include the disk that is resynchronizing and the percentage complete. This alarm should eventually clear once the resync of the disk is completed. The time it takes for this is dependent on the size of the disk and the amount of activity on the system.
Severity: Minor
Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: tpdHpDiskResync
Alarm ID: TKSPLATMI25

Recovery:

Contact [My Oracle Support \(MOS\)](#).

32525 - Telco Fan Warning

Alarm Group: PLAT
Description: This alarm indicates that the Telco switch has detected an issue with an internal fan.
Severity: Minor
Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: tpdTelcoFanWarning

Alarm ID: TKSPLATMI26

Recovery:

1. Contact [My Oracle Support \(MOS\)](#) to get a replacement switch. Verify the ambient air temperature around the switch is as low as possible until the switch is replaced.
2. [My Oracle Support \(MOS\)](#) personnel can perform an snmpget command or log into the switch to get detailed fan status information.

32526 - Telco Temperature Warning

Alarm Group: PLAT

Description: This alarm indicates that the Telco switch has detected the internal temperature has exceeded the threshold.

Severity: Minor

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: tpdTelcoTemperatureWarning

Alarm ID: TKSPLATMI27

Recovery:

1. Lower the ambient air temperature around the switch as low as possible.
2. If problem persists, contact [My Oracle Support \(MOS\)](#).

32527 - Telco Power Supply Warning

Alarm Group: PLAT

Description: This alarm indicates that the Telco switch has detected that one of the duplicate power supplies has failed.

Severity: Minor

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: tpdTelcoPowerSupplyWarning

Alarm ID: TKSPLATMI28

Recovery:

1. Verify breaker wasn't tripped.

2. If breaker is still good and problem persists, contact [My Oracle Support \(MOS\)](#) who can perform a `snmpget` command or log into the switch to determine which power supply is failing. If the power supply is bad, the switch must be replaced.

32528 - Invalid BIOS value

Alarm Group:	PLAT
Description:	This alarm indicates that the HP server has detected that one of the setting for either the embedded serial port or the virtual serial port is incorrect.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdInvalidBiosValue
Alarm ID:	TKSPLATMI29
Recovery:	Change the BIOS values to the expected values which involves re-booting the server. Contact My Oracle Support (MOS) for directions on changing the BIOS.

32529 - Server Kernel Dump File Detected

Alarm Group:	PLAT
Description:	This alarm indicates that the kernel has crashed and debug information is available.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdServerKernelDumpFileDetected
Alarm ID:	TKSPLATMI30
Recovery:	Contact My Oracle Support (MOS) .

32530 - Server Upgrade Fail Detected

Alarm Group:	PLAT
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Description:	This alarm indicates that a TPD upgrade has failed.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	pdServerUpgradeFailed
Alarm ID:	TKSPLATMI31
Recovery:	Contact My Oracle Support (MOS) .

32531 - Half Open Socket Warning

Alarm Group:	PLAT
Description:	This alarm indicates that the number of half open TCP sockets has reached the major threshold. This problem is caused by a remote system failing to complete the TCP 3-way handshake.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdHalfOpenSocketWarning
Alarm ID:	TKSPLATMI32
Recovery:	Contact My Oracle Support (MOS) .

32532 - Server Upgrade Pending Accept/Reject

Alarm Group:	PLAT
Description:	This alarm indicates that an upgrade occurred but has not been accepted or rejected yet.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdServerUpgradePendingAccept

Alarm ID: TKSPLATMI33

Recovery:

Follow the steps in the application's upgrade procedure for accepting or rejecting the upgrade.

32533 - Max pid warning

Alarm Group: PLAT

Description: This alarm indicates that the maximum number of running processes has reached the minor threshold.

Severity: Minor

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: tpdMaxPidWarning

Alarm ID: TKSPLATMI34

Recovery:

Contact [My Oracle Support \(MOS\)](#).

32534 - NTP Source Server Is Not Able To Provide Correct Time

Alarm Group: PLAT

Description: This alarm indicates that an NTP source has been rejected by the NTP daemon and is not being considered as a time source.

Severity: Minor

Instance: May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: tpdNTPSourceIsBad

Alarm ID: TKSPLATMI35

Recovery:

1. Verify NTP settings and that NTP sources are providing accurate time.
2. Contact [My Oracle Support \(MOS\)](#).

32535 - RAID disk resync

Alarm Group: PLAT

Description:	This alarm indicates that the RAID logical volume is currently resyncing after a failed/replaced drive, or some other change in the configuration. The output of the message will include the disk that is resyncing. This alarm should eventually clear once the resync of the disk is completed. The time it takes for this is dependent on the size of the disk and the amount of activity on the system (rebuild of 600G disks without any load takes about 75min).
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdDiskResync
Alarm ID:	TKSPLATMI36
Recovery:	If this alarm persists for several hours (depending on a load of a server rebuild of array can take multiple hours to finish), contact My Oracle Support (MOS) .

32536 - Server Upgrade snapshot(s) warning

Alarm Group:	PLAT
Description:	This alarm indicates that upgrade snapshot(s) are above configured threshold and either accept or reject of LVM upgrade has to be run soon, otherwise snapshots will become full and invalid.
Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdUpgradeSnapshotWarning
Alarm ID:	TKSPLATMI37
Recovery:	<ol style="list-style-type: none"> 1. Run accept or reject of current LVM upgrade before snapshots become invalid. 2. Contact My Oracle Support (MOS)

32537 - FIPS subsystem warning event

Alarm Type:	PLAT
Description:	This alarm indicates that the FIPS subsystem requires a reboot in order to complete configuration.

Severity:	Minor
Instance:	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdFipsSubsystemWarning

Recovery

If alarm doesn't clear on its own, contact [My Oracle Support \(MOS\)](#).

32540 - Power limit mismatch

Alarm Group:	PLAT
Description:	The BIOS setting for CPU Power Limit is different than expected.
Severity:	Minor
Instance:	N/A
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	tpdCpuPowerLimitMismatch
Alarm ID:	TKSPLATMI41

Recovery:

Contact [My Oracle Support \(MOS\)](#).

32700 - Telco Switch Notification

Alarm Group:	PLAT
Description	Telco Switch Notification
Severity	Info
Instance	May include AlarmLocation, AlarmId, AlarmState, AlarmSeverity, and bindVarNamesValueStr
HA Score	Normal
Auto Clear Seconds	86400
OID	tpdTelcoSwitchNotification

Recovery:

Contact [My Oracle Support \(MOS\)](#).

32701 - HIDS Initialized

Alarm Group:	PLAT
Description:	This alarm indicates HIDS was initialized.
Default Severity:	Info
OID:	tpdHidsBaselineCreated
Recovery:	
	Contact My Oracle Support (MOS) .

32702 - HIDS Baseline Deleted

Alarm Group:	PLAT
Description:	HIDS baseline was deleted.
Default Severity:	Info
OID:	tpdHidsBaselineDeleted
Recovery:	
	Contact My Oracle Support (MOS) .

32703 - HIDS Enabled

Alarm Group:	PLAT
Description:	HIDS was enabled.
Default Severity:	Info
OID:	tpdHidsEnabled
Recovery:	
	Contact My Oracle Support (MOS) .

32704 - HIDS Disabled

Alarm Group:	PLAT
Description:	HIDS was disabled.
Default Severity:	Info
OID:	tpdHidsDisabled
Recovery:	
	Contact My Oracle Support (MOS) .

32705 - HIDS Monitoring Suspended

Alarm Group:	PLAT
Description:	HIDS monitoring suspended.
Default Severity:	Info
OID:	tpdHidsSuspended
Recovery:	Contact My Oracle Support (MOS) .

32706 - HIDS Monitoring Resumed

Alarm Group:	PLAT
Description:	HIDS monitoring resumed.
Default Severity:	Info
OID:	tpdHidsResumed
Recovery:	Contact My Oracle Support (MOS) .

32707 - HIDS Baseline Updated

Alarm Group:	PLAT
Description:	HIDS baseline updated.
Default Severity:	Info
OID:	tpdHidsBaselineUpdated
Recovery:	Contact My Oracle Support (MOS) .

DM-IWF (33000-33024)

This section provides information and recovery procedures for DM-IWF) alarms and events, ranging from 33000 to 33024, and lists the type of alarms and events that can occur on the system.

Alarms and events are recorded in a database log table. Currently active alarms can be viewed from the Launch Alarms Dashboard GUI menu option. The alarms and events log can be viewed from the **Alarms & Events > View History** page.

33000 - MAP-to-Diameter Service Registration Failure on DA-MP

Alarm Group:	DIWF
Description:	DM-IWF application was unable to register for MAP-to-Diameter transaction service. No MAP-to-Diameter transactions can be routed to this DA-MP.
Severity:	Critical
Instance:	None
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterDmiwfAppComagentProviderRegistrationFailureNotify
Recovery:	Contact My Oracle Support (MOS) for assistance.

33001 - Diameter-to-MAP Service Registration Failure on DA-MP

Alarm Group:	DIWF
Description:	DM-IWF application was unable to register for Diameter-to-MAP transaction service. Diameter-to-MAP transactions cannot be serviced by this DA-MP.
Severity:	Critical
Instance:	None
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterDmiwfAppComagentUserRegistrationFailureNotify
Recovery:	Contact My Oracle Support (MOS) for assistance.

33002 - DM-IWF DA-MP not associated with a Place

Alarm Group:	DIWF
Description:	DM-IWF DA-MP server is not associated with an AppWorks Place.
Severity:	Critical
Instance:	None
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterDmiwfAppServerPlaceFailureNotify

Recovery:

1. If the server is not associated with an AppWorks place, Admin Disable DM-IWF on the DA-MP server, add the server to an appropriate AppWorks Place, and then Admin Enable DM-IWF on the DA-MP server.
2. Contact [My Oracle Support \(MOS\)](#) for further assistance.

33003 - Insufficient memory for DM-IWF

Alarm Group:	DIWF
Description:	DA-MP does not have sufficient memory to support DM-IWF
Severity:	Critical
Instance:	None
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterDmiwfAppInsufficientMemoryFailureNotify

Recovery:

1. If the VM:Database DA-MP profile is applied to the DA-MP (**Main Menu > Diameter > Configuration > DA-MPs > Profile Assignments**), verify that the DA-MP has at least 24GB of physical memory.
2. If the G6:Database or G6:Session DA-MP profile is applied to the DA-MP (**Main Menu > Diameter > Configuration > DA-MPs > Profile Assignments**), verify that the DA-MP has at least 48GB of physical memory.
3. If the G7:Database, G8:Database, G7:Session or G8:Session DA-MP profile is applied to the DA-MP (**Main Menu > Diameter > Configuration > DA-MPs > Profile Assignments**), verify that the DA-MP has at least 64GB of physical memory.
4. If the DA-MP does not have sufficient physical memory to support a profile, contact [My Oracle Support \(MOS\)](#) for further assistance on how to upgrade memory.

33004 - DM-IWF Transaction Response Queue Utilization

Alarm Group:	DIWF
Description:	The DM-IWF Transaction Response Queue Utilization is approaching its maximum engineered capacity.
Severity:	Minor, Major, Critical
Instance:	RxDmiwfTranRspMsgQueue, DM-IWF
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterDmiwfAppTransactionResponseQueueUtilizationNotify

Recovery:

1. This alarm should not normally occur when no other congestion alarms are asserted. If no additional congestion alarms are asserted, the DSR Application Task might be experiencing a problem that is preventing it from processing message from its transaction response queue. Examine the Alarm log in **Alarms & Events**.
2. Contact [My Oracle Support \(MOS\)](#) for assistance.

33005 - DM-IWF PTR Pool Utilization

Alarm Group:	DIWF
Description:	The DM-IWF PTR Pool Utilization is approaching its maximum engineered capacity. DM-IWF allocates a pending transaction record (PTR) for every pending Diameter-to-MAP and MAP-to-Diameter transaction. If this problem persists and the pool reaches 100% utilization, all new ingress messages will be discarded. This alarm should not normally occur when no other congestion alarms are asserted.
Severity:	Minor, Major, Critical
Instance:	RxDmiwfTranRspMsgQueue, DM-IWF
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterDmiwfAppPTRPoolUtilizationNotify

Recovery:

1. Examine the Alarm log in **Alarms & Events** to evaluate whether the DSR Application Task might be experiencing a problem processing the messages. The rate of messages being processed by DM-IWF can be monitored from the **Status & Manage > KPIs** page.
2. If one or more DA-MPs in a server site have failed, this may result in too much traffic being forwarded to the DM-IWF instance reporting this alarm. DA-MP server status can be monitored from the **Status > Manage > Server**.
3. If one or more DM-IWF instances configured in a server site are unable to provide service, this may result in too much traffic being forwarded to the DM-IWF instance reporting this alarm. DM-IWF application admin state can be monitored from **Main Menu > Diameter > Maintenance > Applications**. DM-IWF service provider status can be monitored from **Main Menu > Communication Agent > Maintenance > Routed Services Status**.
4. If the problem persists, contact [My Oracle Support \(MOS\)](#).

33006 - MD-IWF Service Congestion

Event Group:	DIWF
Description:	DM-IWF could not forward a Request to MD-IWF due to MD-IWF Service Congestion.
Severity:	Info
Instance:	<DAMPName>
HA Score:	Normal

Throttle Seconds: 10
OID: eagleXgDiameterMdIwfServiceCongestedNotify

Recovery:

1. The number of SS7-MPs that act as providers for the MAP Routed Service might be insufficient to service the offered ingress load. MAP Routed Service ("MDIWFSvc") provider status can be monitored from **Main Menu > Communication Agent > Maintenance > Routed Services Status**.
2. If the problem occurs frequently, contact [My Oracle Support \(MOS\)](#).

33007 - MD-IWF Error

Event Group: DIWF
Description: DM-IWF received notification indicating ComAgent Error/Timeout or MD-IWF Application generated Failure Response.
Severity: Info
Instance: <DAMPName>
HA Score: Normal
Throttle Seconds: 10
OID: eagleXgDiameterMdIwfErrorNotify

Recovery:

If the problem persists, contact [My Oracle Support \(MOS\)](#).

33008 - DM-IWF maximum pending transactions allowed exceeded

Event Group: DIWF
Description: DM-IWF rejected either a Diameter-to-MAP or MAP-to-Diameter transaction because it was unable to allocate a pending transaction record (PTR) for the transaction. DM-IWF allocates a PTR for every pending Diameter-to-MAP and MAP-to-Diameter transaction. If this problem persists and the pool reaches 100% utilization, all new ingress messages will be discarded. This alarm should not normally occur when no other congestion alarms are asserted.
Severity: Info
Instance: <DAMPName>
HA Score: Normal
Throttle Seconds: 10
OID: eagleXgDiameterDmiwfMaxPendTransactionsAllowedExceededNotify

Recovery:

1. Examine the Alarm log in **Alarms & Events** and evaluate whether the DSR Application Task might be experiencing a problem processing the messages. The rate of messages being processed by DM-IWF can be monitored from the **Status & Manage > KPIs** page
2. If one or more DA-MPs in a server site have failed, this may result in too much traffic being forwarded to the DM-IWF instance reporting this alarm. DA-MP server status can be monitored from the **Status & Manage > Server**.
3. If one or more DM-IWF instances configured in a server site are unable to provide service, this may result in too much traffic being forwarded to the DM-IWF instance reporting this alarm. DM-IWF application admin state can be monitored from **Main Menu > Diameter > Maintenance > Applications**. DM-IWF service provider status can be monitored from **Main Menu > Communication Agent > Maintenance > Routed Services Status**
4. If the problem persists, contact [My Oracle Support \(MOS\)](#).

33009 - DM-IWF unexpected Answer response received from a SS7-MP

Event Group:	DIWF
Description:	No pending transaction was found for the Answer response received from SS7-MP. When a Request message is forwarded to an SS7-MP, DM-IWF creates a pending transaction record (PTR). The PTR is abandoned if an Answer response is not received in a timely fashion.
Severity:	Info
Instance:	<DAMPName>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterDmiwfUnexpectedAnswerRspReceivedFromSS7MPNotify

Recovery:

1. If this event is occurring frequently, the MAP Response Timeout may be set too low. The MAP Response Timeout value can be reviewed via **Main Menu -> MAP-Diameter IWF -> Configuration -> MD-IWF Options** screen.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

33010 - MD-IWF ComAgent Connection exhausted

Event Group:	DIWF
Description:	DM-IWF failed to receive a Diameter Answer in response to a Diameter Request that was forwarded to MD-IWF Routed Service, in a timely fashion.
Severity:	Info
Instance:	<DAMPName>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterDmiwfMapComAgentConnectionExhaustedNotify

Recovery:

1. If this event is occurring frequently, the MAP Response Timeout may be set too low. The MAP Response Timeout value can be reviewed via **Main Menu -> MAP-Diameter IWF -> Configuration -> MD-IWF Options** screen.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

33011 - DM-IWF Answer Timeout

Event Group:	DIWF
Description:	DM-IWF failed to receive a Diameter Answer in response to a Diameter Request that was forwarded to MD-IWF Routed Service, within the DM-IWF Pending Answer Timer expiration.
Severity:	Info
Instance:	<DAMPName>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterDmiwfAnswerTimeoutNotify

Recovery:

1. Diameter-to-MAP timeouts are most likely caused by excessive SS7 network delays. It's possible that the MAP Origination Transaction Timer value is set too low. The MAP Origination Transaction Timer value setting can be viewed via the following GUI screen: **Main Menu > MAP Interworking > Configuration > Options (MD-IWF tab)**.
2. If the problem persists, contact [My Oracle Support \(MOS\)](#).

33012 - DM-IWF encode decode error

Event Group:	DIWF
Description:	The decoder has reported an error causing the Request to be discarded.
Severity:	Info
Instance:	<DAMPName>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterDmiwfDecodeErrorNotify

Recovery:

If the problem persists, contact [My Oracle Support \(MOS\)](#).

33013 - DRL queue exhaustion

Event Group:	DIWF
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Description:	DM-IWF failed to forward a Diameter message to DRL due to DRL queue exhaustion.
Severity:	Info
Instance:	<DAMPName>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterDrlQueueExhaustionNotify

Recovery:

If the problem persists, contact [My Oracle Support \(MOS\)](#).

Note: This measurement should not occur unless the MP is experiencing local congestion as indicated by Alarms 22000 - Local MP Congestion, 22201 - Ingress Message Rate, 22204 - Request Message Queue Utilization, and 22205 - Answer Message Queue Utilization. Refer to the *DSR Alarms and KPIs Reference* for details about these alarms.

33014 - Incompatible DA-MP Profile for DM-IWF

Alarm Group:	DIWF
Description:	DA-MP has been assigned a profile that is incompatible with DM-IWF
Severity:	Critical
Instance:	None
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterDmiwfAppIncompatibleProfileFailureNotify

Recovery:

1. If the DA-MP has been assigned a DA-MP profile (**Main Menu > Diameter > Configuration > DA-MPs > Profile Assignments**) other than those listed below, apply a compatible profile and restart DSR (**Main Menu > Status & Manage > Server > Restart**).
 - G6:Database
 - G7:Database
 - G8:Database
 - VM:Database
 - G6:Session
 - G7:Session
 - G8:Session
2. If the DA-MP has been assigned a compatible profile and the problem persists, contact Customer Care Center for assistance.
3. If needed, contact [My Oracle Support \(MOS\)](#) for further assistance.

33015 - DM-IWF Diameter message size exceeded maximum supported size

Event Group:	DIWF
Description:	DM-IWF failed to forward the Diameter message to SS7-MP because the message size exceeds supported maximum message size.
Severity:	Info
Instance:	<DAMPName>
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterDmiwfMaxDiameterMsgSizeExceededNotify

Recovery:

Occurrence of this event indicates that diameter message received has size that exceeds maximum diameter message size supported by MAP-Diameter Interworking function and therefore be handled as "Internal Processing Error". Source of these requests can be tracked using "Origin Host", "Application Id" and "Command Code".

MD-IWF (33050-33099)

This section provides information and recovery procedures for MD-IWF alarms and events, ranging from 33050 to 33099, and lists the type of alarms and events that can occur on the system.

Alarms and events are recorded in a database log table. Currently active alarms can be viewed from the Launch Alarms Dashboard GUI menu option. The alarms and events log can be viewed from the **Alarms & Events > View History** page.

33050 - MD-IWF Ingress Message Rate

Alarm Group:	MIWF
Description:	The ingress message rate for the MD-IWF Application is approaching or exceeding its engineered traffic handling capacity.
Severity:	Minor, Major, Critical
Instance:	RxMdIwfIngressMsgRate, MD-IWF
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterMdIwfIngressMsgRateNotify

Recovery:

1. The Application Routing Table may be mis-configured and sending too much traffic to the DM-IWF DSR Application. Verify the configuration via **Main Menu > Diameter > Configuration > Application Route Tables**.
2. There may be an insufficient number of MPs configured to handle the network load. Monitor the ingress traffic rate of each MP from **Main Menu > Status & Manage > KPIs**. If MPs are in a congestion state, then the offered load to the server site is exceeding its capacity.
3. Contact [My Oracle Support \(MOS\)](#) for further assistance.

33051 - MD-IWF Application Degraded or Unavailable

Alarm Group:	MIWF
Description:	MD-IWF Application operational status is Degraded or Unavailable.
Severity:	Major, Critical
Instance:	None
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterMdIwfApplDegradedOrUnavailableNotify

Recovery:

1. An MD-IWF Application operational status becomes Degraded when either the Admin State is set to disabled with the forced shutdown option or the Admin State is set to disabled with the graceful shutdown option and the graceful shutdown timer expires.
2. The MD-IWF Application can also become Degraded when it reaches Congestion Level 1, 2, or 3 if enabled.

Note: This alarm will NOT be raised when the MD-IWF application is shutting down gracefully or application is in Disabled state. Only the MD-IWF Application operational status will be changed to Unavailable.

3. An MD-IWF Application operational status becomes Unavailable when either the Admin State is set to disabled with the forced shutdown option or the Admin State is set to disabled with the graceful shutdown option and the graceful shutdown timer expires.
4. The MD-IWF Application can also become Unavailable when it is isolated from the SS7 network.

Note: This alarm will NOT be raised when the MD-IWF application is shutting down gracefully or application is in Disabled state. Only the MD-IWF Application operational status will be changed to Unavailable.

5. Monitor the MD-IWF Application status can be monitored from **Main Menu > Diameter > Maintenance > Applications**. Verify the admin state is set as expected.
6. Check the event history logs for additional events or alarms from this SS7-MP server.
7. If the problem persists, contact [My Oracle Support \(MOS\)](#).

33052 - MD-IWF Notified that DM-IWF Service Status is Down

Alarm Group:	MIWF
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Description:	The MD-IWF is notified via ComAgent that the rolled-up DM-IWF Service Status is Down.
Severity:	Critical
Instance:	None
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterMdIwfUserSvcDownNotify

Recovery:

1. Investigate the status of all DA-MP servers. As this status is a rolled-up status, it indicates that no DA-MP servers are able to be a provider of the DM-IWF ComAgent Routed Service.
2. Contact [My Oracle Support \(MOS\)](#) for further assistance.

33053 - MD-IWF DiamTrans Task Queue Utilization

Alarm Group:	MIWF
Description:	The MD-IWF Application DiamTrans Task Queue Utilization is approaching its maximum capacity.
Severity:	Minor, Major, Critical
Instance:	RxMdIwfDiamTransMsgQueue (TaskID), MD-IWF
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterMdIwfDiamTransQueueUtilNotify

Recovery:

1. The Application Routing Table may be mis-configured and sending too much traffic to the DM-IWF DSR Application. Verify the configuration via **Main Menu > Diameter > Configuration > Application Route Tables**.
2. If no additional congestion alarms are asserted, the MD-IWF Application Task may be experiencing a problem preventing it from processing messages from its DiamTrans Task Queue. Examine the alarm log from **Main Menu > Alarms & Events**.
3. Contact [My Oracle Support \(MOS\)](#) for further assistance.

33054 - MD-IWF MapTrans Task Queue Utilization

Alarm Group:	MIWF
Description:	The MD-IWF Application MapTrans Task Queue Utilization is approaching its maximum capacity.
Severity:	Minor, Major, Critical
Instance:	RxMdIwfMapTransMsgQueue (TaskId), MD-IWF
HA Score:	Normal

Auto Clear Seconds: 0 (zero)
OID: eagleXgDiameterMdIwfMapTransQueueUtilNotify

Recovery:

1. The Application Routing Table may be mis-configured and sending too much traffic to the DM-IWF DSR Application. Verify the configuration via **Main Menu > Diameter > Configuration > Application Route Tables**.
2. If no additional congestion alarms are asserted, the MD-IWF Application Task may be experiencing a problem preventing it from processing messages from its DiamTrans Task Queue. Examine the alarm log from **Main Menu > Alarms & Events**.
3. Contact [My Oracle Support \(MOS\)](#) for further assistance.

33055 - MD-IWF DAMPInterface Task Queue Utilization

Alarm Group: MIWF
Description: The MD-IWF Application DAMPInterface Task Queue Utilization is approaching its maximum capacity.
Severity: Minor, Major, Critical
Instance: RxMdIwfDampInterfaceMsgQueue, MD-IWF
HA Score: Normal
Auto Clear Seconds: 0 (zero)
OID: eagleXgDiameterMdIwfDampInterfaceQueueUtilNotify

Recovery:

1. The Application Routing Table may be mis-configured and sending too much traffic to the DM-IWF DSR Application. Verify the configuration via **Main Menu > Diameter > Configuration > Application Route Tables**.
2. If no additional congestion alarms are asserted, the MD-IWF Application Task may be experiencing a problem preventing it from processing messages from its DAMPInterface Task Queue. Examine the alarm log from **Main Menu > Alarms & Events**.
3. Contact [My Oracle Support \(MOS\)](#) for further assistance.

33056 - MD-IWF ComAgent Provider Registration Failure on SS7-MP

Alarm Group: MIWF
Description: MD-IWF Application was unable to register with ComAgent as a provider of the MDIWFSvc service. No Diameter-to-MAP transactions can be routed to this SS7-MP.
Severity: Critical
Instance: None
HA Score: Normal
Auto Clear Seconds: 0 (zero)

OID: eagleXgDiameterMdIwfComAgentProviderRegisFailureNotify

Recovery:

Contact [My Oracle Support \(MOS\)](#) for further assistance.

33057 - MD-IWF ComAgent User Registration Failure on SS7-MP

Alarm Group: MIWF

Description: MD-IWF application was unable to register with ComAgent as a user of the DMIWFSvc service. MAP-to-Diameter transactions cannot be processed by this SS7-MP.

Severity: Critical

Instance: None

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: eagleXgDiameterMdIwfComAgentUserRegisFailureNotify

Recovery:

Contact [My Oracle Support \(MOS\)](#) for further assistance.

33058 - MD-IWF DiamToMap PTR Utilization

Alarm Group: MIWF

Description: The MD-IWF Application DiamToMap PTR Utilization is approaching its maximum engineered capacity.

Severity: Minor, Major, Critical

Instance: EvMdIwfDiam2MapPtrUtil, MD-IWF

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: eagleXgDiameterMdIwfDiamToMapPtrUtilNotify

Recovery:

1. A DiamToMap PTR is allocated for every pending Diameter-to-Map transaction. The PTR size is engineered based on an average transaction holding size. If the PTRs becomes depleted, no new transactions can be processed by the MD-IWF application.
2. PTR exhaustion is most likely caused by long delays in the Diameter or SS7 networks. PTR exhaustion problems can be reduced/eliminated by reducing the MAP timer values.
3. View the current MAP timers from **Main Menu > MAP-Diameter IWF > Configuration > MD-IWF Options**.
4. Contact [My Oracle Support \(MOS\)](#) for further assistance.

33059 - MD-IWF MapToDiam PTR Utilization

Alarm Group:	MIWF
Description:	MD-IWF Application MapToDiam PTR Utilization is approaching its maximum engineered capacity.
Severity:	Minor, Major, Critical
Instance:	EvMdIwfMap2DiamPtrUtil, MD-IWF
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterMdIwfMapToDiamPtrUtilNotify

Recovery:

1. A MapToDiam PTR is allocated for every pending MAP-to-Diameter transaction. The size of the PTR size is engineered based on an average transaction holding size. If the PTRs become depleted, no new transactions can be processed by the MD-IWF application.
2. Determine if there are long delays in the Diameter or SS7 networks. PTR pool exhaustion can be reduced or eliminated by reducing the MAP timer values.
3. The current MAP timers can be viewed in the GUI at **Main Menu > MAP Interworking > Configuration > MD-IWF Options**.
4. Contact [My Oracle Support \(MOS\)](#) for further assistance.

33060 - SS7-MP Profile Not Assigned

Alarm Group:	MIWF
Description:	An SS7-MP configuration profile has not been assigned to this SS7-MP
Severity:	Critical
Instance:	None
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterSs7MpProfileNotAssignedNotify

Recovery

1. If the SS7-MP has been assigned an MP Profile from an SO GUI **Main Menu > Diameter Common > MPs > Profile Assignment** other MD-IWF, apply a compatible profile and restart the mapiwf process from **Main Menu > Status & Manage > Server**.
2. If the SS7-MP has been assigned a compatible profile already, contact [My Oracle Support \(MOS\)](#) for further assistance.

33062 - Insufficient Memory for MD-IWF

Alarm Group:	MIWF
---------------------	------

Description:	SS7-MP does not have sufficient memory to support MD-IWF
Severity:	Critical
Instance:	None
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterMdIwfInsufficientMemoryForMdiwfNotify

Recovery

1. If MD-IWF was mistakenly activated, deactivate MD-IWF.
2. If the SS7-MP does not have sufficient physical memory, upgrade the memory.
3. Contact [My Oracle Support \(MOS\)](#) for further assistance.

33063 - MD-IWF SS7-MP not associated with a Place

Alarm Group:	MIWF
Description:	The MD-IWF SS7-MP server is not associated with an AppWorks Place.
Severity:	Critical
Instance:	None
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterMdIwfSs7MpNotAssocWithPlaceNotify

Recovery

1. Set the MD-IWF admin state to Disabled on the SS7-MP server.
2. If the server is not associated with an AppWorks place, add the server to an appropriate AppWorks Place. Then set the MD-IWF admin state to Enabled on the SS7-MP server.
3. Contact [My Oracle Support \(MOS\)](#) for further assistance.

33065 - MD-IWF Resource Exhaustion

Event Group:	MIWF
Description:	MD-IWF Application is unable to process a message due to resource exhaustion.
Severity:	Info
Instance:	mapiwf
HA Score:	Normal
Auto Clear Seconds:	300 seconds (5 minutes)
OID:	eagleXgDiameterMdIwfResourceExhaustionNotify

Recovery

1. Check to see if any of the following resource utilization alarms are present on the SS7-MP. If so, follow the steps specified for the given alarm.
 - [33053 - MD-IWF DiamTrans Task Queue Utilization](#)
 - [33054 - MD-IWF MapTrans Task Queue Utilization](#)
 - [33055 - MD-IWF DAMPInterface Task Queue Utilization](#)
 - [33058 - MD-IWF DiamToMap PTR Utilization](#)
 - [33059 - MD-IWF MapToDiam PTR Utilization](#)
 - [22202 - MpDiamMsgPoolCongested](#)
2. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

33066 - MD-IWF orphan Diameter Answer message received

Event Group:	MIWF
Description:	MD-IWF Application received a Diameter Answer message for which no Pending Transaction record exists.
Severity:	Info
Instance:	mapiwf
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterMdIwfOrphanDiamAnswerNotify

Recovery

1. When MD-IWF sends a Diameter Request message to a DA-MP, it allocates a PTR and starts a timer (value is user configurable). The pending transaction is abandoned if a Diameter Answer response is not received within the user-configurable time limit. If this event is occurring frequently, the timer may be set too low. The Diameter Response Timeout value can be viewed via the **Main Menu > MAP-Diameter IWF > Configuration > MD-IWF Options** NO GUI Screen.
2. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

33067 - MD-IWF orphan MAP Response message received

Event Group:	MIWF
Description:	MD-IWF Application received a MAP response message for which no Pending Transaction record exists.
Severity:	Info
Instance:	mapiwf
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterMdIwfOrphanMapResponseNotify

Recovery

1. If this event is occurring frequently, the configurable MAP Response timer may be set too low. The MAP Response Timeout value can be viewed via the NO GUI **Main Menu > MAP-Diameter IWF > Configuration > MD-IWF Options**.
2. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

33068 - MD-IWF MAP Response timeout

Event Group:	MIWF
Description:	MD-IWF Application sent a MAP request message to the SS7 network, but timed out waiting for the MAP response.
Severity:	Info
Instance:	mapiwf
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterMdIwfMapResponseTimeoutNotify

Recovery

1. Diameter-to-MAP timeouts are most likely caused by excessive SS7 network delays. It is possible that the MAP Response Timeout value is set too low.
2. The configured MAP Response Timeout value can be viewed via **Main Menu > MAP-Diameter IWF > Configuration > MD-IWF Options**.
3. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

33069 - MD-IWF Diameter Answer timeout

Event Group:	MIWF
Description:	MD-IWF Application sent a Diameter Request message to the DA-MP, but timed out waiting for the Diameter Answer.
Severity:	Info
Instance:	mapiwf
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterMdIwfDiamAnswerTimeoutNotify

Recovery

1. MAP-to-Diameter timeouts could be caused by delays in the Diameter network. It is possible that the Diameter Response Timeout value is set too low.
2. The configured Diameter Response Timeout value can be viewed via the NO GUI **Main Menu > MAP-Diameter IWF > Configuration > MD-IWF Options**.
3. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

33070 - MD-IWF Generated Diameter Answer error message due to Diameter Exception

Event Group:	MIWF
Description:	An error occurred while MD-IWF Application was processing a Diameter Request message, causing it generate a Diameter Answer error message.
Severity:	Info
Instance:	mapiwf
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterMdIwfGeneratedDiamErrorAnswerNotify

Recovery

Contact [My Oracle Support \(MOS\)](#) if assistance is needed.

33071 - MD-IWF Generated MAP Error Response due to MAP exception

Event Group:	MIWF
Description:	An error occurred while MD-IWF Application was processing a MAP request message, causing it generate a MAP response error message.
Severity:	Info
Instance:	mapiwf
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterMdIwfGeneratedMapErrorResponseNotify

Recovery

Contact [My Oracle Support \(MOS\)](#) if assistance is needed.

33072 - MD-IWF received TCAP Notice from SS7 network

Event Group:	MIWF
Description:	MD-IWF Application received a TCAP Notice from the SS7 network.
Severity:	Info
Instance:	mapiwf
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterMdIwfTcapNoticeRecdNotify

Recovery

A TC-Notice informs the TCAP Application that the network service provider is unable to provide the requested service.

33073 - MD-IWF admin state set to Enabled

Event Group:	MIWF
Description:	MD-IWF Application admin state was changed to Enabled on the SS7-MP
Severity:	Info
Instance:	mapiwf
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterMdIwfAdminStateEnabledNotify

Recovery

No action required.

33074 - MD-IWF admin state set to Disabled

Event Group:	MIWF
Description:	MD-IWF Application admin state was changed to Disabled on the SS7-MP
Severity:	Info
Instance:	mapiwf
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterMdIwfAdminStateDisabledNotify

Recovery

No action required.

33075 - MD-IWF received ComAgent error or DM-IWF NACK

Event Group:	MIWF
Description:	MD-IWF sent a Diameter Request message to DM-IWF that resulted in a ComAgent error / timeout or in a DM-IWF NACK.
Severity:	Info
Instance:	mapiwf
HA Score:	Normal

Throttle Seconds: 10
OID: eagleXgDiameterMdIwfRcvdComAgtErrorOrDmiwfNckNotify

Recovery

No action required.

33076 - MD-IWF received Diameter Answer from unexpected DA-MP

Event Group: MIWF
Description: MD-IWF received Diameter Answer from unexpected DA-MP
Severity: Info
Instance: mapiwf
HA Score: Normal
Throttle Seconds: 10
OID: eagleXgDiameterMdIwfDiamAnsRcvdFrmUnexcpDaMpNotify

Recovery

This error is not expected to occur. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

33077 - MD-IWF address translation failed

Event Group: MIWF
Description: MD-IWF was not able to perform address translation due to a lookup error in a configuration table, or else due to a missing or unexpected parameter / AVP.
Severity: Info
Instance: mapiwf
HA Score: Normal
Throttle Seconds: 10
OID: eagleXgDiameterMdIwfAddressTranslationFailedNotify

Recovery

1. If address translation failed due to a lookup error in a configuration table, then analyze the configuration table to see if there is missing or incorrect data.
2. If address translation failed due to missing or unexpected MAP parameter or Diameter AVP value, then analyze the message to see if it is correct.
3. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

33078 - MD-IWF received Diameter EIR message but Destination-Host AVP not present or not found in mapping table

Event Group:	MIWF
Description:	MD-IWF Application received a Diameter EIR message but the Destination-Host AVP was either 1) not present or 2) the Destination-Host AVP value was not present in table DiamIdentityGta.
Severity:	Info
Instance:	mapiwf
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterMdIwfDiamEirRecdDestHostNotPresentNotify

Recovery

1. For case 1, investigate why the Destination-Host AVP was not present in the message. The DSR expects this AVP to be present.
2. For case 2, check to see if table DiamIdentityGta is configured correctly. It is possible the given Destination Host should be present in this table. This table is configured on the NO GUI via **Main Menu > MAP-Diameter IWF > Configuration > Diameter Identity GTA**.
3. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

33079 - MD-IWF message translation failed

Event Group:	MIWF
Description:	MD-IWF attempt to perform message translation was unsuccessful.
Severity:	Info
Instance:	mapiwf
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterMdIwfMessageTranslationFailedNotify

Recovery

1. Based on the Translation Error Details, examine the message being translated and attempt to identify the reason for the failure
2. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

33080 - EDL failure occurred while MD-IWF attempted to encode a Diameter message

Event Group:	MIWF
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Description:	EDL failure occurred while MD-IWF attempted to encode a Diameter message.
Severity:	Info
Instance:	mapiwf
HA Score:	Normal
Throttle Seconds:	10
OID:	eagleXgDiameterMdIwfDiamEirRecdDestHostNotPresentNotify

Recovery

1. Examine the EDL error text in order to determine the reason for failure, If the encode failure is due to exceeding the maximum supported Diameter message size, and this event is being raised frequently, then it may be necessary to increase the engineering configurable parameter (DiameterMaxMessageSize in table MapIwfLongConfig) for maximum Diameter message size.
2. Contact [My Oracle Support \(MOS\)](#) for assistance if needed.

GLA (33100-33149)

This section provides information and recovery procedures for GLA alarms and events, ranging from 33100 to 33149, and lists the type of alarms and events that can occur on the system.

Alarms and events are recorded in a database log table. Currently active alarms can be viewed from the Launch Alarms Dashboard GUI menu option. The alarms and events log can be viewed from the **Alarms & Events > View History** page.

33100 - GLA Message Decoding Failure

Event Group:	GLA
Description:	Message received was rejected because of a decoding failure.
Severity:	Info
Instance:	"MP"
HA Score:	Normal
Throttle Seconds:	60
OID:	eagleXgDiameterGlaMessageDecodingFailureNotify

Recovery:

1. While parsing the message, one of the following conditions occurred:
 - The message content was inconsistent with the "Message Length" in the message header.
 - The IMSI contained in the User-Name AVP was considered invalid due to length.
 - The MSISDN contained in the MSISDN AVP was considered invalid due to length.

2. These protocol errors can be caused by the originator of the message (identified by the Origin-Host AVP in the message) or the peer who forwarded the message to this node. Collect a trace containing the GGR, and determine which node is causing the invalid data.
3. If the problem persists, contact [My Oracle Support \(MOS\)](#).

33101 - GLA Incorrect Application ID or Command Code

Event Group:	GLA
Description:	Message received was rejected because the Application ID was not GL (16777321) or the Command Code was not GGR (8388655).
Severity:	Info
Instance:	"MP"
HA Score:	Normal
Throttle Seconds:	60
OID:	eagleXgDiameterGlaIncorrectAppIdOrCmdCodeNotify

Recovery:

Examine the Application Routing Rules that direct traffic to GLA and verify that the Application ID is set to GL (16777321) and the Command Code is set to GGR (8388655) for all Application Routing Rules referring to GLA.

33102 - GLA Missing Subscriber ID

Event Group:	GLA
Description:	Message received was rejected because it did not contain and IMSI or an MSISDN in a Subscription-ID AVP.
Severity:	Info
Instance:	"MP"
HA Score:	Normal
Throttle Seconds:	60
OID:	eagleXgDiameterGlaMissingSubscriberIdNotify

Recovery:

1. Verify that the Originator (identified by the Origin-Host AVP in the message) is generating Diameter Requests with either User-Name AVP or MSISDN AVP being present.
2. If this condition is met, inspect each element between the GQC and GWS to determine if Subscriber information within the Request is being modified.

33103 - GLA Communication Agent Error

Event Group:	GLA
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Description:	GLA was unable to communicate with the pSBR-Binding due to a communications error.
Severity:	Info
Instance:	"MP"
HA Score:	Normal
Throttle Seconds:	60
OID:	eagleXgDiameterGlaComAgentErrorNotify

Recovery:

1. Examine the current state of the pSBR-B via the **Communication Agent > Maintenance > HA Service Status** screen.
2. Examine the status of the Reporting server's BindingRd to verify that all SubResources are Available. This action will provide information about Availability and Congestion of each SubResource.
3. If the problem persist, contact [My Oracle Support \(MOS\)](#).

33104 - GLA Duplicate Subscriber ID

Event Group:	GLA
Description:	Message received was rejected because it contained both a User-Name AVP and a MSISDN AVP
Severity:	Info
Instance:	"MP"
HA Score:	Normal
Throttle Seconds:	60
OID:	eagleXgDiameterGlaDuplicateSubscriberIdNotify

Recovery:

1. Verify that the Originator (identified by the Origin-Host AVP in the message) is generating Diameter Requests with either User-Name AVP or MSISDN AVP being present.
2. Inspect each element between teh GQC and QQS to determine which node is inserting bot AVPs and correct that node so that only one AVP is included in the GGR.

33105 - Routing Attempt failed due to queue exhaustion

Event Group:	GLA
Description:	Message could not be routed because the internal "Answer Message Queue" to the DSR Relay Agent was full.
Severity:	Info
Instance:	"MP"
HA Score:	Normal
Throttle Seconds:	60

OID: eagleXgDiameterGlaRoutingAttemptFailureDrlQueueExhNotify

Recovery:

1. This condition should not occur unless the DSR is experiencing severe congestion due to excessive traffic levels arriving on the DRL Answer Queue.
2. GL traffic should be diverted from the DA-MP to other DA-MPs in the DSR, or to another DSR.

33106 - GLA Communication Agent Timeout

Event Group: GLA

Description: GLA was unable to communicate with the pSBR-Binding and the query timed out.

Severity: Info

Instance: "MP"

HA Score: Normal

Throttle Seconds: 60

OID: eagleXgDiameterGlaComAgentTimeoutNotify

Recovery:

1. Examine the current state of the pSBR-B via the **Communication Agent > Maintenance > HA Service Status** screen.
2. Examine the status of the Reporting server's BindingRd to verify that all SubResources are Available. This action will provide information about Availability and Congestion of each SubResource.
3. If the problem persists, contact [My Oracle Support \(MOS\)](#).

33120 - Policy SBR Binding Sub-Resource Unavailable

Alarm Group: GLA

Description: GLA is unable to communicate with Policy SBR-Binding. One or more binding sub-resources are unavailable.

Severity:

- Major: When at least one server group that has a range of binding sub-resources is not available, but at least the minimum number of binding sub-resources is still available.
- Critical: When fewer than the minimum number of binding sub-resources are not available.

Instance: GLA

HA Score: Normal

Auto Clear Seconds: 0 (zero)

OID: eagleXgDiameterGlaBindingSubresourceUnavailableNotify

Recovery

1. Monitor the Policy DRA Binding Resource on the GLA NO at **Main Menu > Configuration > Resource Domains**.
2. Determine if some of the pSBR-B MPs are unavailable or out-of-service. In this case, all DA-MPs and all pSBR-B MPs will also report ComAgent connection alarms.
3. Determine if there is a WAN outage. In this case, DA-MPs should also report ComAgent connection alarms to remote pSBR-Bs, and local pSBR-Bs should report ComAgent connection alarms to remote DA-MPs.
4. Determine if there is a network routing issue. In this case, one or a few DA-MPs may report a ComAgent connection against a limited number of pSBR-Bs.
5. If the problem persists, contact [My Oracle Support \(MOS\)](#) for assistance.

33121 - GLA pSBR-B Response Task Message Queue Utilization

Alarm Group:	GLA
Description:	GLA's pSBR-B Response Message Queue Utilization is approaching its maximum capacity.
Severity:	Minor, Major, Critical
Instance:	RxGlaResponseMsgQueue, GLA
HA Score:	Normal
Auto Clear Seconds:	0 (zero)
OID:	eagleXgDiameterGlaRespTaskMessageQueueUtilizationNotify

Recovery

1. Determine if the GLA pSBR Response Task is mis-configured (e.g., Smaller response task queue size/fewer number of response task threads as compared to the request task threads).
2. Determine if the GLA pSBR Response Task has encountered a problem preventing it from processing messages from its Task Message Queue even if no additional congestion alarms are asserted.
3. If the problem persists, contact [My Oracle Support \(MOS\)](#) for additional assistance.

Chapter 5

Key Performance Indicators (KPIs)

Topics:

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This section provides general information about KPIs and lists the KPIs that can appear on the **Status & Manage > KPIs** GUI page.

General KPIs information

This section provides general information about KPIs, the **Status and Manage > KPI** page, and how to view KPIs.

KPIs overview

Key Performance Indicators (KPIs) allow you to monitor system performance data, including CPU, memory, swap space, and uptime per server. This performance data is collected from all servers within the defined topology.

The KPI display function resides on all OAM servers. Servers that provide a GUI connection rely on KPI information merged to that server. The Network OAMP servers maintain status information for all servers in the topology. System OAM servers have reliable information only for servers within the same network element.

The Status and Manage KPIs page displays performance data for the entire system. KPI data for the entire system is updated every 60 seconds. If data is not currently being collected for a particular server, the KPI for that server will be shown as N/A.

KPIs

The **Status & Manage > KPIs** page displays KPIs for the entire system. KPIs for the server and its applications are displayed on separate tabs. The application KPIs displayed may vary according to whether you are logged in to an NOAM server or an SOAM server.

KPIs server elements

This table describes KPIs that appear regardless of server role.

Table 16: KPIs Server Elements

KPIs Status Element	Description
Network Element	The network element name (set up on the Configuration > Network Elements page) associated with each Server Hostname.
Server Hostname	The server hostname set up on the Configuration > Servers page. All servers in the system are listed here.
Server Indicators:	
CPU	Percentage utilization of all processors on the server by all software as measured by the operating system.
RAM	Percentage utilization of physical memory on the server by all software as measured by TPD.
Swap	Percentage utilization of swap space on the server by all software as measured by TPD.

KPIs Status Element	Description
Uptime	The total amount of time the server has been running.

Viewing KPIs

Use this procedure to view KPI data.

1. Select **Status & Manage > KPIs**.

The **Status & Manage > KPIs** page appears with the **Server** tab displayed. For details about the KPIs displayed on this page, see the application documentation.

2. Click to select an application tab to see KPI data relevant to the application.

Note: The application KPIs displayed may vary according to whether you are logged in to an NOAM server or an SOAM server. Collection of KPI data is handled solely by NOAM servers in systems that do not support SOAMs.

KPIs data export elements

This table describes the elements on the **KPIs > Export** page.

Table 17: Schedule KPI Data Export Elements

Element	Description	Data Input Notes
Export Frequency	Frequency at which the export occurs	Format: Radio button Range: Fifteen Minutes, Hourly, Once, Weekly, or Daily Default: Once
Task Name	Name of the scheduled task	Format: Textbox Range: Maximum length is 40 characters; alphanumeric (a-z, A-Z, and 0-9) and minus sign (-). Task Name must begin and end with an alphanumeric character.
Description	Description of the scheduled task	Format: Textbox Range: Maximum length is 255 characters; alphanumeric (a-z, A-Z, and 0-9) and minus sign (-). Description must begin with an alphanumeric character.
Minute	If hourly or fifteen minutes is selected for Upload Frequency, this is the minute of each hour when the data will be written to the export directory.	Format: Scrolling list Range: 0 to 59 Default: 0

Element	Description	Data Input Notes
Time of Day	Time of day the export occurs	Format: Time textbox Range: 15-minute increments Default: 12:00 AM
Day of Week	Day of week on which the export occurs	Format: Radio button Range: Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, or Saturday Default: Sunday

Exporting KPIs

You can schedule periodic exports of security log data from the **KPIs** page. KPI data can be exported immediately, or you can schedule exports to occur daily or weekly. If filtering has been applied in the **KPIs** page, only filtered data is exported.

During data export, the system automatically creates a CSV file of the filtered data. The file will be available in the file management area until you manually delete it, or until the file is transferred to an alternate location using the **Export Server** feature. For more information about using **Export Server**, see [Data Export](#).

Use this procedure to schedule a data export task.

1. Select **Status & Manage > KPIs**.

The **KPIs** page appears.

2. If necessary, specify filter criteria and click **Go**.
The KPIs are displayed according to the specified criteria.

3. Click **Export**.
The **Schedule KPI Data Export** page appears.

4. Enter the **Task Name**.
For more information about **Task Name**, or any field on this page, see [KPIs data export elements](#).

5. Select the **Export Frequency**.
6. If you selected **Hourly**, specify the **Minutes**.
7. Select the **Time of Day**.

Note: **Time of Day** is not an option if **Export Frequency** equals **Once**.

8. Select the **Day of Week**.

Note: **Day of Week** is not an option if **Export Frequency** equals **Once**.

9. Click **OK** or **Apply** to initiate the KPI export task.

From the **Status & Manage > Files** page, you can view a list of files available for download, including the file you exported during this procedure. For more information, see [Displaying the file list](#).

Scheduled tasks can be viewed, edited, and deleted, and reports of scheduled tasks can be generated from **Status & Manage > Tasks**. For more information see:

- [Viewing scheduled tasks](#)
- [Editing a scheduled task](#)
- [Deleting a scheduled task](#)
- [Generating a scheduled task report](#)

Computer Aided Policy Making (CAPM) KPIs

The KPI values associated with CAPM are available using **Main Menu > Status & Manage > KPIs**.

Table 18: CAPM KPIs

Variable	Description
Processing time [ms]	Average processing time of Rule Template on a per Rule Template basis.
Active Templates	Number of Rule Templates that are in Active state.
Test Templates	Number of Rule Templates that are in Test state.
Development Templates	Number of Rule Templates that are in Development state.
Match Rule	References one element in the arrayed measurement.

Communication Agent (ComAgent) KPIs

The KPI values associated with ComAgent are available using **Main Menu > Status & Manage > KPIs**.

Table 19: Communication Agent KPIs

Variable	Description
User Data Ingress message rate	The number of User Data Stack Events received by ComAgent.
Broadcast Data Rate	The overall data broadcast rate on the server.

Diameter (DIAM) KPIs

The KPI values associated with Diameter are available using **Main Menu > Status & Manage > KPIs**.

Table 20: DIAM KPIs

Variable	Description
MsgCopyTxQueueUtilization	Percentage of utilization of the Message Copy Tx Queue
Response Time (ms)	Average time from when routing receives a Request message from a downstream peer to the time that an Answer response is sent to that downstream peer
Transaction Success Rate	Percentage of Diameter and RADIUS transactions successfully completed on a DA-MP server with respect to the offered load.

DM-IWF KPIs

The KPI values associated with DM-IWF are visible using **Main Menu > Status & Manage > KPIs**

Table 21: DM-IWF KPIs

Variable	Description
Ingress Msg Rate	Average number of MAP-Diameter Interworking messages processed per second on a DA-MP. This includes messages received from DRL and messages received from SS7-MPs.
Diameter-to-MAP Trans Msg Rate	Average number of Diameter-to-MAP transaction messages processed per second.
MAP-to-Diameter Trans Msg Rate	Average number of MAP-to-Diameter transaction messages processed per second.

GLA KPIs

The KPI values associated with GLA are visible using **Main Menu > Status & Manage > KPIs**

Variable	Description
Ingress Message Rate	Average Ingress Message Rate (messages per second) utilization on an MP server for this DSR Application. The Ingress Message Rate is the number of ingress Diameter messages that are selected for processing by the ART and sent to the DSR Application for processing.

Key Performance Indicators (KPIs)

Variable	Description
Success Message Rate	GLA Success Message Rate (messages per second) on an MP server. The Success Message Rate is the number of ingress Diameter messages that are processed by GLA and answered with a success (2xxx) result code).

IDIH KPIs

The KPI values associated with the IDIH will be visible via the GUI **Main Menu > Status & Manage > KPIs**

Variable	Description
DSR-DIH TTR Bandwidth (KB/sec)	Average bandwidth used by DSR in sending TTRs (including trace start and stop messages) to DIH in Kbytes per second

IP Front End (IPFE) KPIs

The KPI values associated with IPFE are visible using **Main Menu > Status & Manage > KPIs**.

Table 22: IPFE KPIs

Variable	Description
CPU %	Total CPU used by the IPFE process
Memory Total	Absolute memory used by the IPFE process
Memory %	Percent memory used by the IPFE process
Mem. Heap	Total heap allocated by the IPFE process
IPFE Packets/Sec	The average number of packets per second the IPFE receives
IPFE MBytes/Sec	The average number of megabytes per second the IPFE receives

MD-IWF KPIs

The KPI values associated with MD-IWF are visible using **Main Menu > Status & Manage > KPIs**.

Key Performance Indicators (KPIs)

Variable	Description
Ingress Message Rate	Average number of MAP-Diameter Interworking messages processed per second on a SS7-MP. Includes MAP msgs received from SS7 network, and Diameter msgs received from DA-MPs.
Diameter-to-MAP Ingress Msg Rate	Average number of MAP-Diameter Interworking messages processed per second that result from Diameter-originated transactions. Includes the initial Diameter Request msg and all resulting MAP msgs that are received.
MAP-to-Diameter Ingress Msg Rate	Average number of MAP-Diameter Interworking messages processed per second that result from MAP-originated transactions. Includes the initial MAP Request msg and all resulting MAP and Diameter msgs that are received.
Diameter Ingress Message Rate	Average number of Diameter messages (both Requests and Answers) received per second from DA-MPs.
MAP Ingress Message Rate	Average number of MAP messages (both requests and responses) received per second from SS7 network.

Message Processor (MP) KPIs

The KPI values associated with MP are available using **Main Menu > Status & Manage > KPIs**.

Table 23: MP KPIs

Variable	Description
Avg CPU Utilization	Percentage of CPU utilization by the Diameter process on a DA-MP server.
Offered Load (MPS)	Offered load on a DA-MP server, corresponding to the message rate before policing by capacity and congestion controls.
Accepted Load (MPS)	Accepted load on a DA-MP server, corresponding to the message rate after policing by capacity and congestion controls.
Message Processing Load (MPS)	Average message processing load (messages per second) on a MP server. The message processing load is the number of Diameter messages that are routed, including Reroute and MsgCopy.

Full Address Based Resolution (FABR) KPIs

The KPI values associated with FABR are available using **Main Menu > Status & Manage > KPIs**.

Table 24: FABR KPIs

Variable	Description
Ingress Message Rate	Ingress Message Rate (messages per second) utilization on a MP server for the FABR Application. The Ingress Message Rate is the number of ingress Diameter messages that were successfully received by the FABR Application.
Resolved Message Rate	Resolved Message Rate (messages per second) utilization on a MP server. The Resolved Message Rate is the number of ingress Diameter messages that are successfully resolved to a Destination by the FABR application.
DP Response Time Average	Average DP response time is the average time (in milliseconds) it takes to receive a DP response after sending the corresponding DP query.

Platform KPIs

The KPI values associated with Platform are available using **Main Menu > Status & Manage > KPIs**.

Table 25: Platform KPIs

Variable	Description
CPU	Percentage utilization of all processors on the server by all software as measured by the operating system.
RAM	Percentage utilization of physical memory on the server by all software as measured by TPD.
Swap	Percentage utilization of swap space on the server by all software as measured by TPD.
Uptime	The total amount of time(days HH:MM:SS) the server has been running.

Policy and Charging Application (PCA) KPIs

The KPI values associated with PCA are available using **Main Menu > Status & Manage > KPIs**.

Table 26: PCA KPIs

Variable	Description
PCA Ingress Message Rate	Number of Diameter messages including both requests and answers received by PCA from the Diameter Routing Layer per second.
P-DRA Ingress Message Rate	Number of Diameter messages including both requests and answers received by P-DRA from the Diameter Routing Layer per second.
OC-DRA Ingress Message Rate	Number of Diameter messages including both requests and answers received by OC-DRA from the Diameter Routing Layer per second.

Range Based Address Resolution (RBAR) KPIs

The KPI values associated with RBAR are available using **Main Menu > Status & Manage > KPIs**.

Table 27: RBAR KPIs

Variable	Description
Avg Resolved Message Rate	Average Resolved Message Rate (messages per second) utilization on a MP server. The Resolved Message Rate is the number of ingress Diameter messages that are successfully resolved to a Destination by the Range Based Address Resolution application.
Ingress Message Rate	Average Ingress Message Rate (messages per second) utilization on a MP server for this DSR Application. The Ingress Message Rate is the number of ingress Diameter messages that were successfully received by the DSR Application.

Subscriber Binding Repository (SBR) KPIs

The KPI values for SBR are visible using **Main Menu > Status & Manage > KPIs**.

Table 28: SBR KPIs

Variable	Description
SBR Memory Utilization	SBR memory utilization (0-100%)
SBR Process CPU Utilization	SBR Process CPU Percent Utilization (0-100%)

Table 29: SBR-Binding KPIs

Variable	Description
SBR Policy Bindings (IMSI)	Total number of subscribers with at least one binding (IMSI)
SBR Binding DB Read Rate	Number of SBR Binding DB reads per second
SBR Binding DB Write Rate	Number of SBR Binding DB writes per second
SBR Alt Key Bindings (MSISDN)	Total number of subscribers with at least one Alternate Key binding (MSISDN)
SBR Alt Key Bindings (IPv4)	Total number of subscribers with an Alternate Key binding (IPv4)
SBR Alt Key Bindings (IPv6)	Total number of subscribers with an Alternate Key binding (IPv6)

Table 30: SBR-Session KPIs

Variable	Description
SBR Policy Sessions	Number of Active SBR Policy Sessions
SBR Policy Session DB Read Rate	Number of SBR Policy Session DB reads per second
SBR Policy Session DB Write Rate	Number of SBR Policy Session DB writes per second
SBR Online Charging Sessions	Number of Active SBR Online Charging Sessions
SBR OC Session DB Read Rate	Number of SBR Online Charging Session DB reads per second
SBR OC Session DB Write Rate	Number of SBR Online Charging Session DB writes per second

SS7/Sigtran KPIs

Table 31: SS7/Sigtran KPIs

Variable	Description
SCCP Recv Msgs/Sec	SCCP messages received per second.
SCCP Xmit Msgs/Sec	SCCP messages transmitted per second.

Key Performance Indicators (KPIs)

Variable	Description
SS7 Process CPU Utilization	The average percent of SS7 Process CPU utilization on an MP server.
Ingress Message Rate	The Ingress Message Rate is the number of non-SNM message that M3UA attempts to queue in the M3RL Stack Event Queue.
M3RL Xmit Msgs/Sec	M3RL DATA MSUs/Sec sent.
M3RL Recv Msgs/Sec	M3RL DATA MSUs/Sec received.

B

BIOS	Basic Input-Output System Firmware on the CPU blade that is executed prior to executing an OS.
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C

CAPM	Computer-aided policy making
CCR-I	CCR Initial
CMOS	Complementary Metal Oxide Semiconductor CMOS semiconductors use both NMOS (negative polarity) and PMOS (positive polarity) circuits. Since only one of the circuit types is on at any given time, CMOS chips require less power than chips using just one type of transistor.
ComAgent	Communication Agent A common infrastructure component delivered as part of a common plug-in, which provides services to enable communication of message between application processes on different servers.
Communication Agent	See ComAgent.
CPC	Capability Point Code A capability point code used by the SS7 protocol to identify a group of

C

functionally related STPs in the signaling network.

CSV**Comma-Separated Values**

The comma-separated value file format is a delimited data format that has fields separated by the comma character and records separated by newlines (a newline is a special character or sequence of characters signifying the end of a line of text).

D**DA-MP****Diameter Agent Message Processor**

A DSR MP (Server Role = MP, Server Group Function = Diameter Signaling Router). A local application that can optionally be activated on the DA-MP. A computer or blade that is hosting a Diameter Signaling Router Application.

DB**Database****Diameter**

Diameter can also be used as a signaling protocol for mobility management which is typically associated with an IMS or wireless type of environment. Diameter is the successor to the RADIUS protocol. The MPE device supports a range of Diameter interfaces, including Rx, Gx, Gy, and Ty.

Protocol that provides an Authentication, Authorization, and Accounting (AAA) framework for applications such as network access or IP mobility. Diameter works in both local and roaming AAA situations. Diameter can also be used as a signaling protocol for

D

mobility management which is typically associated with an IMS or wireless type of environment.

DM-IWF

Diameter MAP–Interworking
DSR application that translates Diameter messages into MAP messages.

DNS

Domain Name System
A system for converting Internet host and domain names into IP addresses.

DP

Data Processor
The repository of subscriber data on the individual node elements. The DP hosts the full address resolution database.

DPR

Disconnect-Peer-Request
A message used by a Diameter node to inform its peer of its intent to disconnect the transport layer. Upon receipt of a DPR, the Disconnect-Peer-Answer (DPA) is returned.

DRL

Diameter Routing Layer - The software layer of the stack that implements Diameter routing.

DSR

Diameter Signaling Router
A set of co-located Message Processors which share common Diameter routing tables and are supported by a pair of OAM servers. A DSR Network Element

D

may consist of one or more Diameter nodes.

E

ETG Egress Throttle Group (s)

F

FABR Full Address Based Resolution
Provides an enhanced DSR routing capability to enable network operators to resolve the designated Diameter server addresses based on individual user identity addresses in the incoming Diameter request messages.

FIPS Federal Information Processing Standard

Full Address Based Resolution See FABR.

G

GGR Get-Gateway-Request
A request for information for either an IMSI or an MSISDN. Only one subscriber (IMSI or MSISDN) is allowed to be queried per GGR. The GGR is generated by the GQC.

GLA Gateway Location Application A DSR Application that provides a Diameter interface to subscriber data stored in the DSR's Policy Session Binding Repository (pSBR). Subscriber data concerning binding and session information is populated in the pSBR-B by the Policy Diameter Routing Agent (Policy DRA). GLA provides methods for a Diameter node to

G

query binding information stored in the pSBR-B. The query can be by either IMSI or MSISDN. GLA processes Diameter Requests and generates Diameter Answers.

GQC

Gateway Query Client also known as Diameter Node

GUI

Graphical User Interface

The term given to that set of items and facilities which provides you with a graphic means for manipulating screen data rather than being limited to character based commands.

GWS

Gateway Screening

Used at gateway STPs to limit access into the network to authorized users. A gateway STP performs inter-network routing and gateway screening functions. GWS controls access to nonhome SS7 networks. Only an MSU that matches predefined criteria in the EAGLE database is allowed to enter the EAGLE.

H

HA

High Availability

High Availability refers to a system or component that operates on a continuous basis by utilizing redundant connectivity, thereby circumventing unplanned outages.

HIDS

Host Intrusion Detection System

HP

Hewlett-Packard

I

IDIH Integrated Diameter Intelligence Hub

IPFE IP Front End

A traffic distributor that routes TCP traffic sent to a target set address by application clients across a set of application servers. The IPFE minimizes the number of externally routable IP addresses required for application clients to contact application servers.

K

KPI Key Performance Indicator

L

LSP Local Signaling Point

A logical element representing an SS7 Signaling Point. The Local Signaling Point assigns a unique primary/true point code within a particular SS7 Domain to an MP server.

M

M3RL M3UA Routing Layer

A layer invented by Tekelec to enhance M3UA by adding a true routing layer.

MAP Mobile Application Part

An application part in SS7 signaling for mobile communications systems.

M

MD-IWF	MAP-Diameter Interworking SS7 Application, which translates MAP messages into Diameter messages
MP	Message Processor - The role of the Message Processor is to provide the application messaging protocol interfaces and processing. However, these servers also have OAM components. All Message Processors replicate from their Signaling OAM's database and generate faults to a Fault Management System.
MPS	Messages Per Second A measure of a message processor's performance capacity. A message is any Diameter message (Request or Answer) which is received and processed by a message processor.

N

NI	Network Indicator
NOAM	Network Operations, Administration, and Maintenance
NTP	Network Time Protocol
NTP daemon	Network Time Protocol daemon – NTP process that runs in the background.

O

OAM	Operations, Administration, and Maintenance. These functions are generally managed by individual applications and not managed by
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O

a platform management application, such as PM&C.

Operations – Monitoring the environment, detecting and determining faults, and alerting administrators.

Administration – Typically involves collecting performance statistics, accounting data for the purpose of billing, capacity planning, using usage data, and maintaining system reliability.

Maintenance – Provides such functions as upgrades, fixes, new feature enablement, backup and restore tasks, and monitoring media health (for example, diagnostics).

OID

Object Identifier

An identifier for a managed object in a Management Information Base (MIB) hierarchy. This can be depicted as a tree, the levels of which are assigned by different organizations. Top level MIB OIDs belong to different standard organizations. Vendors define private branches that include managed objects for their own products.

OOS

Out of Service

OPC

Within an SS7 network, the point codes are numeric addresses which uniquely identify each signaling point. The OPC identifies the sending signaling point.

P

PCA

Point Code ANSI

P

PCRF	<p>Policy and Charging Rules Function</p> <p>The ability to dynamically control access, services, network capacity, and charges in a network.</p> <p>Maintains rules regarding a subscriber's use of network resources. Responds to CCR and AAR messages. Periodically sends RAR messages. All policy sessions for a given subscriber, originating anywhere in the network, must be processed by the same PCRF.</p> <p>In the Policy Management system, PCRF is located in the MPE device.</p> <p>Software node designated in real-time to determine policy rules in a multimedia network.</p>
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PDU	Protocol Data Unit
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Perl	An object-oriented, event-driven programming language.
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PTR	Pending Transaction Record
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R

Range Based Address Resolution	See RBAR.
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RBAR	<p>Range Based Address Resolution</p> <p>A DSR enhanced routing application which allows you to route Diameter end-to-end transactions based on Application ID, Command Code, Routing Entity Type, and Routing Entity address ranges.</p>
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R

Relay Agent	Diameter agent that forwards requests and responses to other Diameter nodes based on routing-related AVPs (such as Destination-Realm) and routing configuration. Because relays do not make policy decisions, they do not examine or alter non-routing AVPs. As a result, relays never originate messages, do not need to understand the semantics of messages or non-routing AVPs, and are capable of handling any Diameter application or message type.
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RSP	Remote Signaling Point A logical element that represents a unique point code within a particular SS7 domain with which the SS7 application's Local Signaling Point interacts.
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S

SNMP	Simple Network Management Protocol. An industry-wide standard protocol used for network management. The SNMP agent maintains data variables that represent aspects of the network. These variables are called managed objects and are stored in a management information base (MIB). The SNMP protocol arranges managed objects into groups.
SOAM	System Operations, Administration, and Maintenance
SOAP	Simple Object Access Protocol

S

STP	<p>Signal Transfer Point</p> <p>The STP is a special high-speed switch for signaling messages in SS7 networks. The STP routes core INAP communication between the Service Switching Point (SSP) and the Service Control Point (SCP) over the network.</p>
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SW	Software
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T

TFA	TransFer Allowed (Msg)
TFC	TransFer Controlled (Msg)
TFP	<p>TransFer Prohibited (Msg)</p> <p>A procedure included in the signaling route management (functionality) used to inform a signaling point of the unavailability of a signaling route.</p>
TFR	Transfer Restricted
TPC	True Point Code
TSA	<p>Target Set Address</p> <p>An externally routable IP address that the IPFE presents to application clients. The IPFE distributes traffic sent to a target set address across a set of application servers.</p>