# Oracle® Communications Diameter Signaling Router

DSR GLA Feature Activation Procedure Release 8.2

**E88979 Revision 01** 

January 2018



## Oracle Communications Diameter Signaling Router GLA Feature Activation Procedure, Release 8.2.

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#### 1. Introduction

This document defines the procedure that is executed to activate the Gateway Location Application (GLA) feature on a DSR network element (NE). This procedure may be run either 1) as part of a new DSR installation, after the standard DSR installation is complete, but before the NE is in service, or 2) on an inservice DSR NE, where the GLA feature is activated during a planned maintenance window to minimize the impact to network traffic.

This document also provides a procedure to deactivate GLA after it has been activated. Refer to section 3 for a discussion of deactivation.

Configuration of GLA following successful activation is beyond the scope of this document. After successful activation, the crafts person is expected to configure GLA in that order for proper operation of GLA.

No additional software installation is required before executing this procedure. The standard DSR installation procedure has loaded all of the required software, even if the GLA feature is activated later.

#### 1.1 References

- [1] DSR 8.2 Software Installation and Configuration Procedure 2/2
- [2] Policy and Charging Application User's Guide
- [3] DSR 8.2 Policy and Charging DRA Feature Activation Procedure

## 1.2 Acronyms

An alphabetized list of acronyms used in the document.

Table 1. Acronyms

Acronym	Definition
BNS	Broadband Networking Solutions
DA-MP	Diameter Agent Message Processor
DB	Database
DP	Data Processor
DSR	Diameter Signaling Router
GLA	Gateway Location Application
FOA	First Office Application
GUI Graphical User Interface	
НА	High Availability
IMI	Internal Management Interface
IP	Internet Protocol
MP	Message Processing or Message Processor
NE	Network Element
NOAM Network Operations and Maintenance	
OAM	Operations, Administration and Maintenance
SDS	Subscriber Database Server

Acronym	Definition
SOAM	System Operations and Maintenance
SSH	Secure Shell
UI User Interface	
VIP	Virtual IP
VPN	Virtual Private Network
XMI	External Management Interface

# 1.3 Terminology

**Table 2. Terminology** 

Term	Definition			
An EXG common infrastructure component delivered as part of a common that uses the COMCOL MX framework in support of communicating Setween EXG application processes on different servers.				
ComAgent	Same as Communication Agent			
PSBR-B	Holds network-wide subscriber binding information. Maps subscriber keys to the PCRF that hosts the subscriber's policy rules.			
PSBR-S	Holds session information that is used for routing in-session messages.			

# 1.4 General Procedure Step Format

Where it is necessary to identify the server explicitly on which a particular step is to be taken, the server name is given in the title box for the step (e.g., "ServerX" in Figure 1. Example of a Procedure Step).

Each step has a checkbox for every command within the step that the technician should check to keep track of the progress of the procedure.

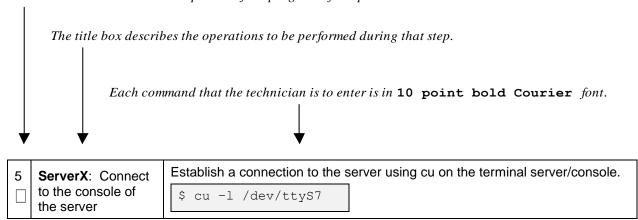


Figure 1. Example of a Procedure Step

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#### 1.5 Release Document Matrix

Table 3. PCA Activation\Configuration Procedure Reference Table

DSR Release	Reference	
DSR 8.2	[2] and [3]	

#### 2. Feature Activation Overview

This section lists the required materials and information needed to execute the feature activation. In addition, Table 4 through Table 9 provides estimates of the time required to execute the procedure. These tables can be used to estimate the total time necessary to complete the feature activation. The timing values shown are estimates only – use these tables to plan the timing of the activation, **not** to execute the procedure. The detailed procedure to be executed begin in section 5.

#### 2.1 Definition of Activation for the GLA Feature

The precise meaning of activation varies from feature to feature. This section briefly defines what activation means with respect to the GLA feature.

The main components of a GLA system include the GLA (DSR) application, the binding database (hosted by the Policy Subscriber Binding Repository, (pSBR)), and the ComAgent, which provide an interface and means to enable the GLA MPs and the pSBR MPs communicating to each other via reliable ComAgent routing services. Subscriber data concerning binding and session information is populated in the pSBR-B by the Policy Diameter Routing Agent (Policy DRA).

PDRA/PCA DSR application requires configuration of pSBR-Binding and pSBR-Session servers, and ComAgent connections to these pSBR servers. GLA relies on the configuration and ComAgent connectivity, provided by PDRA. PDRA/PCA must be pre-activated and pre-configured for GLA to be activated. Refer to Table 4. Pre-Feature Activation Overview for the appropriate DSR PCA release feature activation and configuration reference.

All software required to run GLA is available by default as part of a DSR installation or upgrade. The process of activating the feature simply makes proper use of software elements and file system files already present to change the behavior of the DSR NE.

Before GLA feature activation, there are no GLA menu items visible on the SOAM GUI or NOAM GUI and there is no GLA-related processing taking place on the DA-MP(s).

After feature activation, all selectable GLA menu items are present on the SOAM GUI or NOAM GUI, allowing full GLA configuration and provisioning. Specifically, for GLA application, the top-level GLA folder is visible on the Main Menu, and a new entry is added to the **Diameter -> Maintenance -> Applications** table, showing GLA and its state.

#### After activation:

The DA-MP(s) are prepared to act on GLA and ComAgent configuration and provisioning information entered at and replication from the NOAM (in case of ComAgent configuration/ provisioning) and SOAM (in case of GLA configuration/ provisioning).

Important: Once the GLA feature is activated, it is not automatically enabled. Activation simply means the mechanism for provisioning GLA behavior is in place. But the DA-MP(s) will act on GLA provisioning information only after GLA has been enabled (via the Diameter -> Maintenance -> Applications screen). GLA should not be enabled until after the appropriate provisioning data has been entered. GLA provisioning is beyond the scope of this document. Furthermore, for proper operation of GLA, Communication Agent and GLA application assumes that the remote server IP addresses corresponding to the ComAgent HA service (for Binding Resource) are routable/reachable. However, these networking setup/concerns are beyond the scope of the activation procedure.

## 2.2 Pre-Feature Activation Overview

The pre-activation procedures shown in the following table may be executed outside a maintenance window if desired. Procedure completion times shown here are estimates. Times may vary due to differences in database size, network configuration and loading, user experience, and user preparation.

**Table 4. Pre-Feature Activation Overview** 

	Elapsed Time (Hours:Minutes)			
Procedure	This Step	Cum.	Feature Activation Preparation Procedures	Impact
System	0:00-0:20	0:00-0:20	Verify Network Element Configuration data	
Topology Check (Procedure 1)			Verify System Group Configuration data	None
(Flocedule 1)			Analyze and plan DA-MP restart sequence	
Perform Health	0:01-0:05	0:01-0:25	Verify DSR release	
Check (Procedure 2)			Verify server status	None
(1 10000010 2)			Log all current alarms	

## 2.3 Feature Activation Execution Overview

The procedures shown in the following table are executed inside a single maintenance window. Procedure completion times shown here are estimates. Times may vary due to differences in database size, network configuration and loading, user experience, and user preparation.

**Table 5. Feature Activation Execution Overview** 

	Elapsed (Hours:N			
Procedure	This Step	Cum.	Feature Activation Execution Procedures	Impact
Perform	0:01-0:05	0:01-0:05	Verify DSR release	
Health Check (Procedure 3)			Verify proper GLA feature state	
(i locedule 3)			Verify proper PDRA feature state	
			Verify server status.	None
			Verify server and server group configurations	
			Log all current alarms	

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	Elapsed Time (Hours:Minutes)				
Procedure	This Step	Cum.	Feature Activation Execution Procedures	Impact	
Feature	0:10-0:20	0.10-0:25	Log out of NOAM/SOAM GUI		
Activation (Procedure 4)			SSH to Active NOAM		
(1 Toccdare 4)			Login as admusr		
			Change directory to		
			/usr/TKLC/dsr/prod/maint/loaders/		
			Execute the feature activation script		
			Log into NOAM or SOAM GUI	GLA is	
			Verify the GLA folder	activated	
			Restart each active DA-MP server		
			Verify Maintenance screen		
			Log into NOAM GUI		
			Verify Maintenance screen		
			Close SSH connections to NOAM		

## 2.4 Post-Feature Activation Overview

The procedures shown in the following table are executed inside a maintenance window. Procedure completion times shown here are estimates. Times may vary due to differences in database size, network configuration and loading, user experience, and user preparation.

**Table 6. Post-Feature Activation Overview** 

	Elapsed (Hours:N			
Procedure	This Step	Cum.	Procedures	Impact
Perform Health	0:01-0:05	0:01-0:05	Establish GUI session on the SOAM VIP	
Check (Procedure 5)			Verify server status	GLA has
(1 Toccuare 5)			Log all current alarms	been activated
			Verify the KPIs	on DSR
			Verify the Measurements	

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## 3. Feature Deactivation Overview

## 3.1 Pre-Feature Deactivation Overview

The procedures shown in the following table are executed inside a maintenance window. Deactivation procedure times are only estimates as the reason to execute a deactivation has a direct impact on any additional deactivation preparation that must be done. Times may vary due to differences in database size, network configuration and loading, user experience, and user preparation.

Table 7. Pre-Feature Deactivation Overview	
Elancad Time	

	Elapsed Time (Hours:Minutes)				
Procedure	This Step	Cum.	Deactivation Preparation Procedures	Impact	
Perform Health	0:01-0:05	0:01-0:05	Verify DSR release.		
Check (Procedure 6)			Verify proper GLA feature state	None	
(1100000100)			Verify server status	None	
			Log current alarms		

## 3.2 Feature Deactivation Execution Overview

The procedures shown in the following table are executed inside a maintenance window. Deactivation procedure times are only estimates as the reason to execute a deactivation has a direct impact on any additional deactivation preparation that must be done. Times may vary due to differences in database size, network configuration and loading, user experience, and user preparation.

**Table 8. Feature Deactivation Overview** 

	Elapsed Time (Hours:Minutes)			
Procedure	This Step	Cum.	Deactivation Procedures	Impact
Deactivation	0:10-0:20	0:20-0:50	Log out of active NOAM/SOAM GUI	
(Procedure 7)			SSH into active NOAM	
			Login as admusr	
			Change directory to /usr/TKLC/dsr/prod/maint/loaders/	
			Execute the feature deactivation script	GLA is deactivated
			Log into NOAM or SOAM GUI	
			Verify the GLA folder	
			Restart each active DA-MP server	
			Log into NOAM GUI	
			Verify Maintenance screen	

## 3.3 Post-Feature Deactivation Overview

The procedures shown in the following table are executed inside a maintenance window. Deactivation procedure times are only estimates as the reason to execute a deactivation has a direct impact on any additional deactivation preparation that must be done. Times may vary due to differences in database size, network configuration and loading, user experience, and user preparation.

**Table 9. Post-Feature Deactivation Overview** 

	Elapsed Time (Hours:Minutes)			
Procedure	This Step	Cum.	Post Deactivation Procedures	Impact
Perform Health	0:01-0:05	0:01-0:05	Verify server status	
Check (Procedure 8)			Log all current alarms	
(i roccadic o)			Verify the KPIs	None
			Verify the Measurements	None
			Verify GUI menu does not shows GLA sub-menu	

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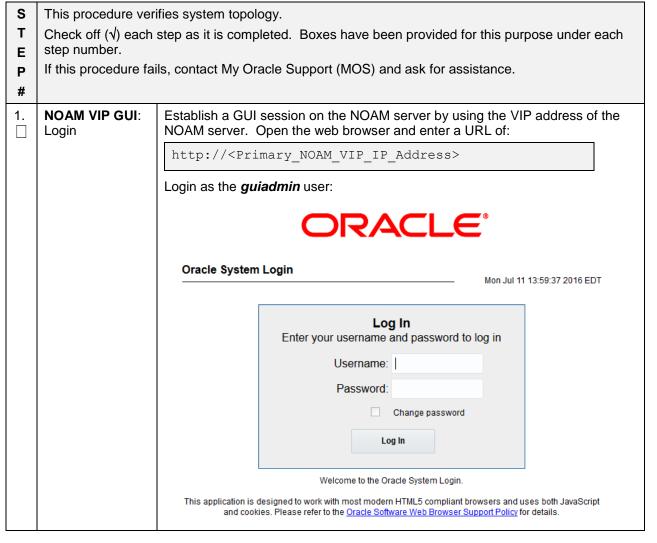
## 4. Feature Activation Preparation

This section provides detailed procedures to prepare a system for GLA feature activation. These procedures are executed outside a maintenance window.

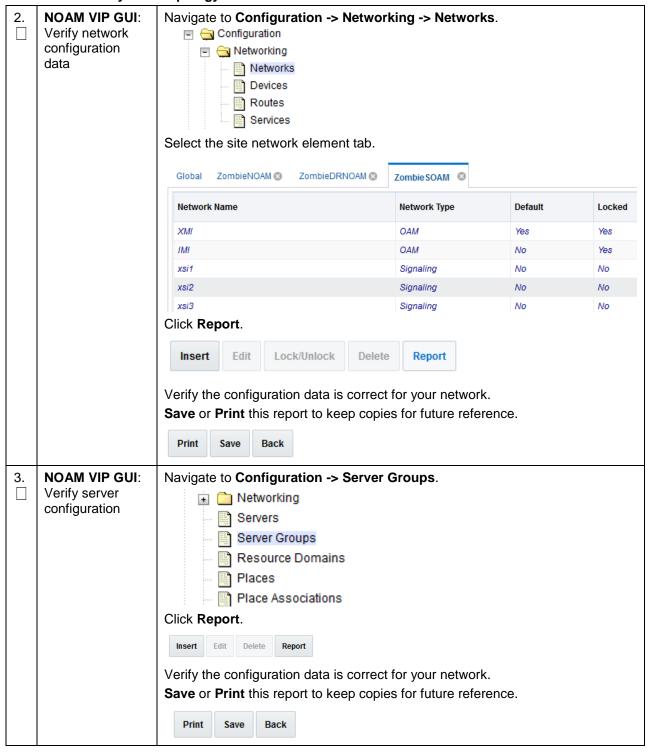
## 4.1 System Topology Check

This procedure is part of feature activation preparation and is used to verify the system topology of the DSR network and servers.

# Procedure 1. System Topology Check



Procedure 1. System Topology Check



# Procedure 1. System Topology Check

	<b>4</b> .	Analyze and plan DA-MP restart		Analyze system topology and plan for any DA-MPs, which will be out-of- service during the feature activation sequence.				
sequence		• /	Analyze system topology gathered in steps 2 and 3.					
				Determine the exact sequence of which DA-MP servers will be restarted with the expected out-of-service periods).				
			Note	It is recommended that no more than 50% of the MPs be restarted at once.				

## 4.2 Perform Health Check

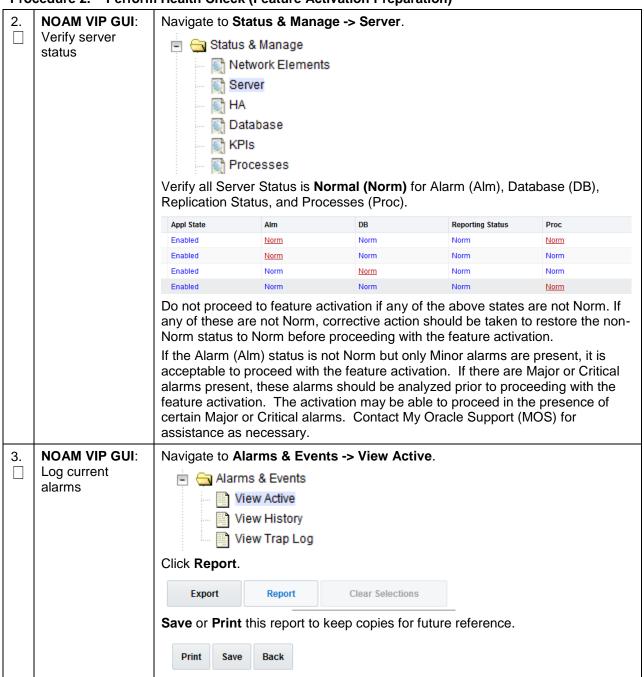
This procedure is part of feature activation preparation and determines the health and status of the DSR release network and servers. This may be executed multiple times, but must also be executed at least once 24-36 hours before the start of the maintenance window in which the feature activation is to take place.

## Procedure 2. Perform Health Check (Feature Activation Preparation)

S	This procedure per	his procedure performs needed health checks.					
T E	Check off $()$ each step number.	step as it is completed. Boxes have been provided for this purpose under each					
Р	If this procedure fa	ils, contact My Oracle Support (MOS) and ask for assistance.					
#							
1.	NOAM VIP GUI: Login	Establish a GUI session on the NOAM server by using the VIP address of the NOAM server. Open the web browser and enter a URL of:					
		http:// <primary_noam_vip_ip_address></primary_noam_vip_ip_address>					
		Login as the <i>guiadmin</i> user:					
		ORACLE"					
		Oracle System Login  Mon Jul 11 13:59:37 2016 EDT					
		Log In  Enter your username and password to log in					
		Username:					
		Password:					
		Log In					
		Welcome to the Oracle System Login.					
		This application is designed to work with most modern HTML5 compliant browsers and uses both JavaScript and cookies. Please refer to the <a href="Oracle Software Web Browser Support Policy">Oracle Software Web Browser Support Policy</a> for details.					

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Procedure 2. Perform Health Check (Feature Activation Preparation)



### 5. Feature Activation

Before feature activation, perform the system health check in section 4.2. This check ensures the system is ready for feature activation. Performing the system health check determines which alarms are present in the system and if feature activation can proceed with alarms.

# \*\*\*\* WARNING \*\*\*\*

If there are servers in the system, which are not in Normal state, these servers should be brought to the Normal or the Application Disabled state before the feature activation process is started

If alarms are present on the server, contact My Oracle Support (MOS) to diagnose those alarms and determine whether they need to be addressed or if it is safe to proceed with the feature activation.

Read the following notes on feature activation procedures:

- Where possible, command response outputs are shown as accurately as possible. EXCEPTIONS
  are as follows:
  - Session banner information such as time and date.
  - System-specific configuration information such as hardware locations, IP addresses, and hostnames.
  - ANY information marked with "XXXX" or "YYYY" where appropriate, instructions are provided to determine what output should be expected in place of "XXXX or YYYY"
  - Aesthetic differences unrelated to functionality such as browser attributes: window size, colors, toolbars, and button layouts.
- After completing each step and at each point where data is recorded from the screen, the technician
  performing the feature activation must initial each step. A checkbox must be provided. For
  procedures which are executed multiple times, the check box can be skipped, but the technician must
  initial each iteration the step is executed. The space on either side of the step number can be used
  (margin on left side or column on right side).
- Captured data is required for future support reference.

#### **5.1 Pre-Activation Procedures**

## 5.1.1 Perform Health Check

This procedure determines the health and status of the network and servers. This must be executed at the start of every maintenance window.

**Note**: The following Health Check procedure is the same as the Health Check procedure described in section 4.2 when preparing for feature activation, but it is repeated here to emphasize that it is being re-executed if section 4.2 was performed outside the maintenance window.

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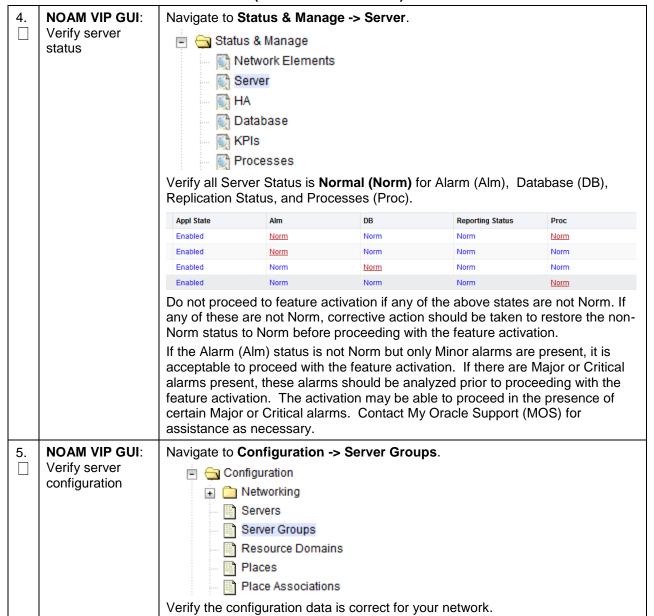
# Procedure 3. Perform Health Check (Pre Feature Activation)

S	This procedure per	procedure performs needed health checks.					
Т	Check off (√) each	step as it is completed. Boxes have been provided for this purpose under each					
E	step number.	,					
P	If this procedure fal	s, contact My Oracle Support (MOS) and ask for assistance.					
·		of desired in order outport (in oo) and ask for assistance.					
#							
1.	SOAM VIP GUI: Login	Establish a GUI session on the SOAM server by using the VIP address of the SOAM server. Open the web browser and enter a URL of:					
		http:// <primary_soam_vip_ip_address></primary_soam_vip_ip_address>					
		Login as the <i>guiadmin</i> user:					
		ORACLE"					
		Oracle System Login					
		Mon Jul 11 13:59:37 2016 EDT					
		Log In					
		Enter your username and password to log in					
		Username:					
		Password:					
		☐ Change password					
		Log In					
		Log iff					
		Welcome to the Oracle System Login.					
		This application is designed to work with most modern HTML5 compliant browsers and uses both JavaScript and cookies. Please refer to the Oracle Software Web Browser Support Policy for details.					
		Unauthorized access is prohibited.					
		Oracle and Java are registered trademarks of Oracle Corporation and/or its affiliates.					
		Other names may be trademarks of their respective owners.					
		Copyright © 2010, 2016, <u>Oracle</u> and/or its affiliates. All rights reserved.					
2.	NOAM VIP GUI: Verify GLA folder is not present	Under Main Menu, verify the GLA folder is NOT present.					

# Procedure 3. Perform Health Check (Pre Feature Activation)

3.	NOAM VIP GUI: Login	Establish a GUI session on the NOAM server by using the VIP address of the NOAM server. Open the web browser and enter a URL of:					
		http:// <primary_noam_vip_ip_address></primary_noam_vip_ip_address>					
		Login as the <i>guiadmin</i> user:					
		ORACLE					
		Oracle System Login  Mon Jul 11 13:59:37 2016 EDT					
		Log In Enter your username and password to log in					
		Username:					
		Password:					
		☐ Change password					
		Log In					
		Welcome to the Oracle System Login.					
		This application is designed to work with most modern HTML5 compliant browsers and uses both JavaScript and cookies. Please refer to the <u>Oracle Software Web Browser Support Policy</u> for details.					
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Procedure 3. Perform Health Check (Pre Feature Activation)



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## Procedure 3. Perform Health Check (Pre Feature Activation)



## 5.2 Activation Procedures

This section provides the detailed procedure steps of the feature activation execution. These procedures are executed inside a maintenance window.

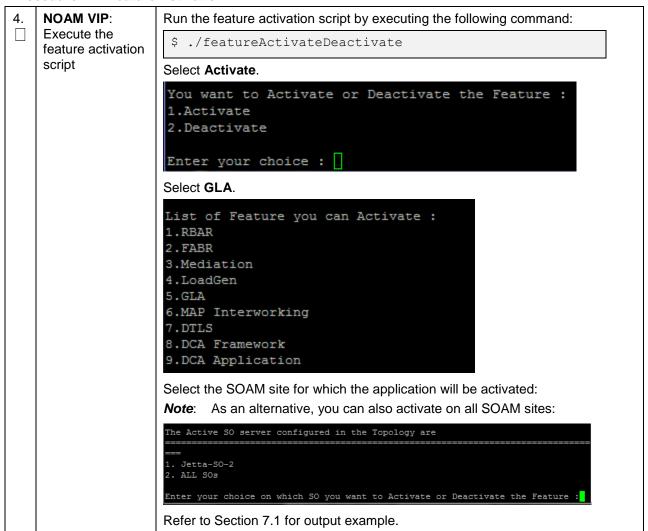
#### 5.2.1 Feature Activation

Detailed steps for GLA feature activation are provided in this procedure.

## Procedure 4. Feature Activation

S	This procedure activates GLA.					
T		Check off $()$ each step as it is completed. Boxes have been provided for this purpose under each				
Ε	step number.					
Р	If this procedure fai	ils, contact My Oracle Support (MOS) and ask for assistance.				
#						
ا :-	NOAM/SOAM	Logout of any active NOAM and/or SOAM GUI sessions:				
	VIP GUI: Logout	Pause Updates   Help   Logged in Account guiadmin   Log Out				
		Fri Aug 12 13:13:00 2016 EDT				
2.	NOAM VIP:	Login as <i>admusr</i> .				
	Establish an SSH session to active	\$ ssh <active address="" ip="" noam="" xmi=""></active>				
	NOAM					
3.	NOAM VIP:	Navigate to the feature activation directory by executing the following command:				
	Navigate to the feature activation	\$ cd /usr/TKLC/dsr/prod/maint/loaders/				
directory						

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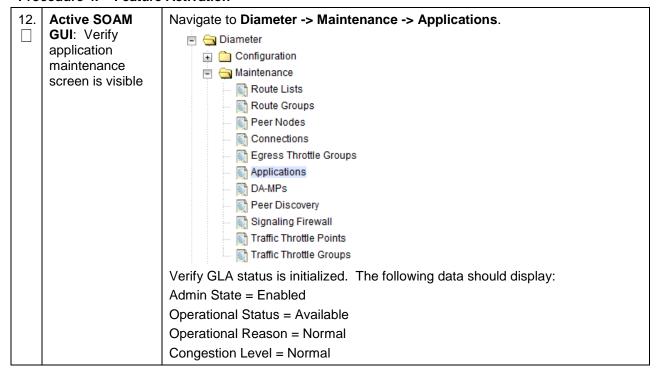


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5.	Active SOAM GUI: Login	Establish a GUI session on the active SOAM server by using IP address of the SOAM server. Open the web browser and enter a URL of:					
		http:// <active_soam_ip_address></active_soam_ip_address>					
		Login as the <i>guiadmin</i> user:					
		Oracle System Login  Mon Jul 11 13:59:37 2016 EDT					
		Log In  Enter your username and password to log in  Username:  Password:  Change password  Log In  Welcome to the Oracle System Login.  This application is designed to work with most modern HTML5 compliant browsers and uses both JavaScript and cookies. Please refer to the Oracle Software Web Browser Support Policy for details.  Unauthorized access is prohibited.					
		Oracle and Java are registered trademarks of Oracle Corporation and/or its affiliates.  Other names may be trademarks of their respective owners.  Copyright © 2010, 2016, Oracle and/or its affiliates. All rights reserved.					
6.	Active SOAM GUI: Verify the GLA folder is visible	Locate and verify the GLA folder from Main Menu is visible and the configuration folder items are present.  GLA  Configuration  Exceptions  System Options  Alarm Settings					

<b>7</b> .	Active SOAM GUI: Verify application maintenance screen is visible	Verify the GLA application is present in the Application Status screen.  Navigate to <b>Diameter -&gt; Maintenance -&gt; Applications</b> .						
			ZombieDAM P1	Disabled	Unk	Unk	Unk	Unk
			ZombieDAM P2	Disabled	Unk	Unk	Unk	Unk
		Verify GLA status is uninitialized. The following data should be displayed: Admin State = Disabled Operational Status = Unk Operational Reason = Unk Congestion Level = Unk						
8.	Standby SOAM GUI: Repeat verification steps	Repeat steps 5-7 for the standby SOAM.  For DSR 5.1, 6.0, and 7.0, run the following command to activate GLA on each spare SOAM:  Note: For DSR 7.1 or later, skip this step.  \$ cd /usr/TKLC/dsr/prod/maint/loaders/activate  \$ ./load.glaActivateBsourced						
9.	SOAM VIP GUI: Login	SOAM server.  http:// <pr application="" as="" gu="" is<="" login="" oracle="" system="" th="" the="" this=""><th colspan="4">a GUI session on the SOAM server by using the VIP address of the river. Open the web browser and enter a URL of:  /<primary_soam_vip_ip_address>  the guiadmin user:    Cog In</primary_soam_vip_ip_address></th></pr>	a GUI session on the SOAM server by using the VIP address of the river. Open the web browser and enter a URL of:  / <primary_soam_vip_ip_address>  the guiadmin user:    Cog In</primary_soam_vip_ip_address>					
		and cod	okies. Pleas			ware Web Brows		<u>y</u> for details.

10.	SOAM VIP GUI: Restart DA-MPs	Multiple iterations of this step may be executed during the feature activation procedure. This is dependent on the number of DA-MP servers within your system. Make a written record of the number of times the step was performed. It is recommended that no more than 50% of the DA-MPs be restarted at once. Navigate to <b>Status &amp; Manage -&gt; Server</b> .					
		Status & Manage  Network Elements  Server  HA  Database  KPIs					
		Processes					
		Select the desired DA-MPs, press <b>Ctrl</b> to select multiple DA-MPs at once.					
		Click Restart.					
		Stop Restart Reboot NTP Sync Report					
		Click <b>OK</b> to confirm.					
		Verify the server changes to the Err state and wait until it returns to the Enabled/Norm state.					
		Repeat for the additional DA-MPs.					
11.	Active SOAM GUI: Enable	Navigate to Diameter -> Maintenance -> Applications.					
	application	Select the DA-MP servers where GLA is present. Press <b>Ctrl</b> to select multiple servers at once.					
		Click Enable.					
		Enable Disable Pause updates					
		Click <b>OK</b> .					



# 5.3 Post-Activation Procedures

# 5.3.1 Perform Health Check

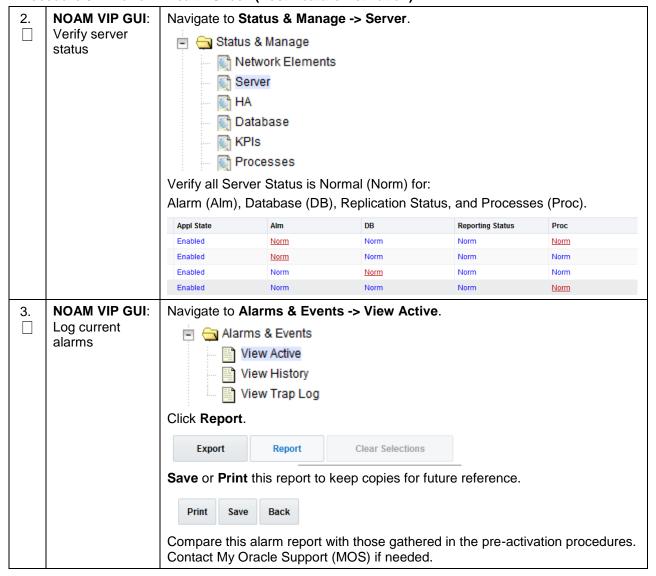
This procedure determines the health and status of the DSR release network and servers.

# Procedure 5. Perform Health Check (Post-Feature Activation)

S	This procedure pe	erforms a post activation health check.					
Т	Check off $()$ each step as it is completed. Boxes have been provided for this purpose under each						
Ε	step number.						
Р	If this procedure fa	fails, contact My Oracle Support (MOS) and ask for assistance.					
#							
_	NOAM VIP GUI: Login	Establish a GUI session on the NOAM server by using the VIP address of the NOAM server. Open the web browser and enter a URL of:  http:// <primary_noam_vip_ip_address>  Login as the guiadmin user:  Cracle System Login  Mon Jul 11 13:59:37 2016 EDT  Log In  Enter your username and password to log in  Username:  Password:  Change password  Log In  Welcome to the Oracle System Login.  This application is designed to work with most modern HTML5 compliant browsers and uses both JavaScript and cookies. Please refer to the Oracle Software Web Browser Support Policy for details.</primary_noam_vip_ip_address>					
		Unauthorized access is prohibited.					
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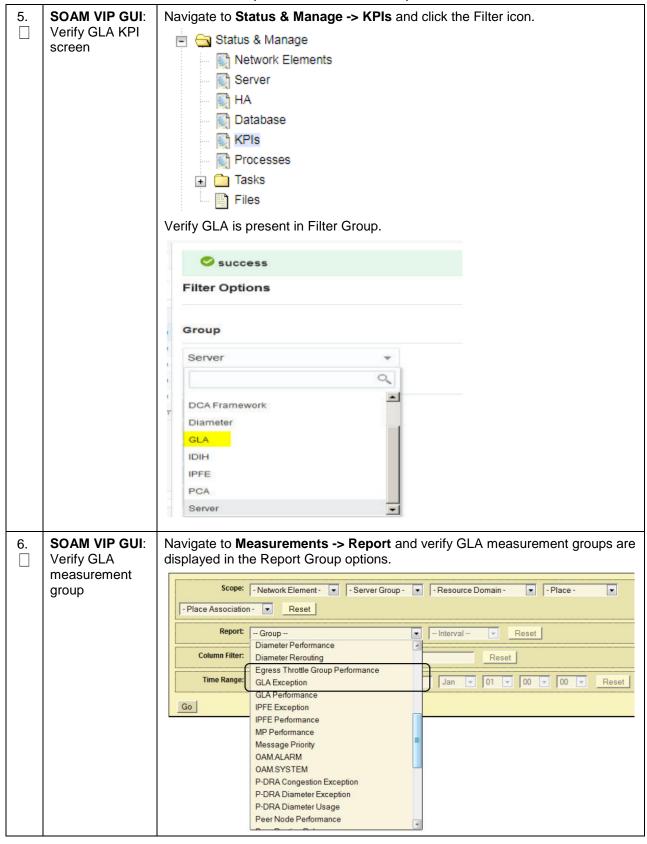
Procedure 5. Perform Health Check (Post-Feature Activation)



# Procedure 5. Perform Health Check (Post-Feature Activation)

<b>4</b> .	SOAM VIP GUI: Login  Establish a GUI session on the NOAM server by using the VIP address of NOAM server. Open the web browser and enter a URL of:							
		http:// <primary_noam_vip_ip_address></primary_noam_vip_ip_address>						
		Login as the <i>guiadmin</i> user:						
		ORACLE°						
	Oracle System Login  Mon Jul 11 13:59:37 2016 Et							
	Log In							
	Enter your username and password to log in							
	Username:							
		Password:						
		☐ Change password						
		Log In						
		Welcome to the Oracle System Login.						
		This application is designed to work with most modern HTML5 compliant browsers and uses both JavaScript and cookies. Please refer to the <a href="Oracle Software Web Browser Support Policy">Oracle Software Web Browser Support Policy</a> for details.						
	Unauthorized access is prohibited.							
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Procedure 5. Perform Health Check (Post-Feature Activation)



## 6. Feature Deactivation

Execute this section only if there is a problem and it is desired to revert back to the pre-activation version of the software. In general, as long as there are no Application Routing Rules using the GLA application, it will have no impact on the system and does not need to be deactivated. The deactivation procedure will cause all the GLA related configuration data (including the Application Routing Rules using GLA) to be removed.

## **6.1 Pre-Deactivation Procedures**

Before beginning the feature deactivation, complete the Pre-Deactivation procedure below.

## 6.1.1 Perform Health Check

This procedure determines the health and status of the DSR network and servers.

## Procedure 6. Perform Health Check (Pre-Feature Deactivation)

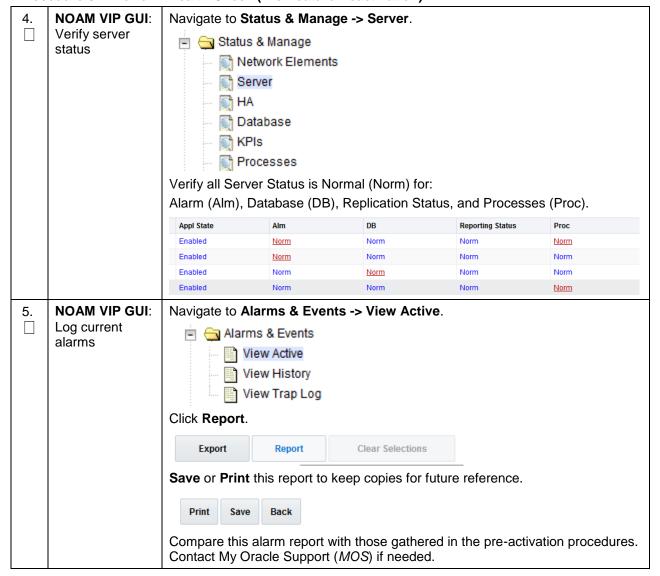
S	This procedure performs a health check.					
Т	Check off $()$ each step as it is completed. Boxes have been provided for this purpose under each					
Ε	step number.					
Р	If this procedure fa	ails, contact My Oracle Support (MOS) and ask for assistance.				
#						
1.	SOAM VIP GUI: Login	Establish a GUI session on the SOAM server by using the VIP address of the SOAM server. Open the web browser and enter a URL of:				
		http:// <primary_soam_vip_ip_address></primary_soam_vip_ip_address>				
		Login as the <i>guiadmin</i> user:				
		ORACLE°				
		Oracle System Login  Mon Jul 11 13:59:37 2016 EDT				
		Log In				
		Enter your username and password to log in				
		Username:				
		Password:				
		Change password				
		Log in				
		Welcome to the Oracle System Login.				
		This application is designed to work with most modern HTML5 compliant browsers and uses both JavaScript and cookies. Please refer to the Oracle Software Web Browser Support Policy for details.				
		Unauthorized access is prohibited.				

# Procedure 6. Perform Health Check (Pre-Feature Deactivation)

2.	SOAM VIP GUI: Verify the GLA folder is visible	Locate and verify the GLA folder from Main Menu is visible and the configuration folder items are present  GLA  Configuration  Exceptions  System Options  Alarm Settings  Note: It should only be present after feature activation, so if it is not present, then the feature is already deactivated and there is no need to complete this deactivation procedure.				
3.	NOAM VIP GUI: Login	Establish a GUI session on the NOAM server by using the VIP address of the				
	Login	NOAM server. Open the web browser and enter a URL of:  http:// <primary_noam_vip_ip_address></primary_noam_vip_ip_address>				
		Login as the <i>guiadmin</i> user:				
		Oracle System Login  Log In  Enter your username and password to log in  Username:  Password:  Change password  Log In  Welcome to the Oracle System Login.  This application is designed to work with most modern HTML5 compliant browsers and uses both JavaScript and cookies. Please refer to the Oracle Software Web Browser Support Policy for details.  Unauthorized access is prohibited.  Oracle and Java are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.  Copyright © 2010, 2016, Oracle and/or its affiliates. All rights reserved.				

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Procedure 6. Perform Health Check (Pre-Feature Deactivation)



# **6.2 Deactivation Procedures**

# **6.2.1 Feature Deactivation**

This section provides the detailed steps of the GLA de-activation procedures.

## Procedure 7. Feature Deactivate

S	This procedure de	procedure deactivates GLA.						
T		off $()$ each step as it is completed. Boxes have been provided for this purpose under each						
Ε	step number.							
Р	If this procedure fa	ails, contact My Oracle Support (MOS) and ask for assistance.						
#								
1.	SOAM VIP GUI: Login	Establish a GUI session on the SOAM server by using the VIP address of the SOAM server. Open the web browser and enter a URL of:						
		http:// <primary_soam_vip_ip_address></primary_soam_vip_ip_address>						
		Login as the <i>guiadmin</i> user:						
		ORACLE						
		Oracle System Login						
		——————————————————————————————————————						
		Log In Enter your username and password to log in						
		Username:						
		Password:						
		☐ Change password						
		Log In						
		Welcome to the Oracle System Login.						
		This application is designed to work with most modern HTML5 compliant browsers and uses both JavaScript and cookies. Please refer to the Oracle Software Web Browser Support Policy for details.  Unauthorized access is prohibited.  Oracle and Java are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.						
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## **Procedure 7. Feature Deactivate**

2.	Active SOAM GUI: Disable	Navigate to <b>Diameter -&gt; Maintenance -&gt; Applications</b> .							
		🖃 🚖 Diamete	er						
	GLA application	🛨 🦲 Con	figuration						
		☐ ☐ Maintenance							
		👰 F	Route Lists						
			Route Groups	:					
		👰 F	eer Nodes						
		👰 C	Connections						
		👰 E	gress Throttl	le Groups					
		INAL	pplications						
		I TOAL	OA-MPs						
		1 100	eer Discover						
		11100	Signaling Fire Traffic Throttle						
		ITTAL	raffic Throttle						
		Select the GL			dicabla				
		Click <b>Disable</b>		ations to	disable.				
			MP Server		Operational		Congestion		
		Application Name	Hostname	Admin State	Status	Operational Reason	Level	Time of Last Update	
		GLA	MP4	Enabled	Available	Normal	Normal	2015-May-26 15:18:29 EDT	
		Enable Disable Pause updates							
		Click <b>OK</b> to c	onfirm.						
3.	NOAM/SOAM	Logout of any active NOAM and/or SOAM GUI sessions:							
	VIP GUI:	_							
	Logout	Pause Updates   Help   Logged in Account guiadmin   Log Out							
——————————————————————————————————————									
4.	NOAM VIP:	Establish an SSH session to the NOAM VIP. Login as <i>admusr</i> .							
	Establish an	LStabilish an	0011363	31011 10 111	e NOAW	vii . Logiii e	is aumu	or.	
	SSH session								
I 6	NO 454 NO	<b>N</b>							
5.	NOAM VIP:	Navigate to the	ne feature	e activati	on directo	ory by execut	ing the fo	ollowing command:	
J	Navigate to the					ory by execut	Ť	ollowing command:	
_	Navigate to the feature					• •	Ť	ollowing command:	
_	Navigate to the					• •	Ť	ollowing command:	

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#### Procedure 7. Feature Deactivate

NOAM VIP: Run the feature activation script by executing the following command: Execute the \$ ./featureActivateDeactivate feature activation script Select Deactivate. You want to Activate or Deactivate the Feature : 1.Activate Deactivate Enter your choice : Select GLA. Which Feature you want to DeActivate : 1.RBAR 2.FABR 3.Mediation 4.LoadGen 5.GLA 6.MAP Interworking 7.DTLS 8.DCA Framework 9.DCA Application Select the SOAM site for which the application will be deactivated: **Note**: As an alternative, you can also deactivate on all SOAM sites: The Active SO server configured in the Topology are 1. Jetta-SO-2 2. ALL SOs Enter your choice on which SO you want to Activate or Deactivate the Feature : Refer to Section 7.2 for output example.

## **Procedure 7. Feature Deactivate**

7.	Active SOAM GUI: Login	Establish a GUI session on the active SOAM server by using IP address of the SOAM server. Open the web browser and enter a URL of:  http:// <active_soam_ip_address>  Login as the <i>guiadmin</i> user:</active_soam_ip_address>				
			Log In  Enter your username and password to log in  Username:  Password:  Change password  Log In  Welcome to the Oracle System Login.  This application is designed to work with most modern HTML5 compliant browsers and uses both JavaScript and cookies. Please refer to the Oracle Software Web Browser Support Policy for details.  Unauthorized access is prohibited.  Oracle and Java are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.  Copyright © 2010, 2016, Oracle and/or its affiliates. All rights reserved.			
8.	Active SOAM GUI: Verify the GLA folder is not visible	Verify the GLA folder is not visible under Main Menu.				
9.	Standby SOAM GUI: Repeat verification steps	Repeat <b>steps 7-8</b> for the standby SOAM.  For DSR 5.1, 6.0, and 7.0, you will have to run the following command to Deactivate GLA on each spare SOAM: <b>Note</b> : For DSR 7.1 or later, skip this step.				
		<pre>\$ cd /usr/TKLC/dsr/prod/maint/loaders/deactivate \$ ./load.glaDeactivateBsourced</pre>				

#### **Procedure 7.** Feature Deactivate

10.	SOAM VIP GUI: Login	Establish a GUI session on the SOAM server by using the VIP address of the SOAM server. Open the web browser and enter a URL of:
		http:// <primary_soam_vip_ip_address></primary_soam_vip_ip_address>
		Login as the <i>guiadmin</i> user:
		ORACLE
		Oracle System Login  Mon Jul 11 13:59:37 2016 EDT
		Log In  Enter your username and password to log in
		Username:
		Password:
		Change password
		Log In
		Welcome to the Oracle System Login.
		This application is designed to work with most modern HTML5 compliant browsers and uses both JavaScript and cookies. Please refer to the <u>Oracle Software Web Browser Support Policy</u> for details.
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## **Procedure 7.** Feature Deactivate

11.	SOAM VIP GUI: Restart DA-MPs	Multiple iterations of this step may be executed during the feature activation procedure. This is dependent on the number of DA-MP servers within your system. Make a written record of the number of times the step was performed. It is recommended that no more than 50% of the DA-MPs be restarted at once. Navigate to <b>Status &amp; Manage -&gt; Server</b> .
		Status & Manage  Network Elements  Server  HA  Database  KPIs  Processes  Select the desired DA-MPs, press Ctrl to select multiple DA-MPs at once.
		Click Restart.
		Stop Restart Reboot NTP Sync Report
		Click <b>OK</b> to confirm.
		Verify the server changes to the Err state and wait until it returns to the Enabled/Norm state.
		Repeat for the additional DA-MPs.
12.	SOAM VIP GUI: Verify maintenance screen	Navigate to Diameter -> Maintenance -> Applications.  Diameter  Configuration  Maintenance  Route Lists  Route Groups  Peer Nodes  Connections  Egress Throttle Groups  Applications  DA-MPs  Peer Discovery  Signaling Firewall  Traffic Throttle Groups  Traffic Throttle Groups  Verify the GLA application is not present.

## **6.3 Post-Deactivation Procedures**

To complete a deactivation, complete the Post-Deactivation procedure below.

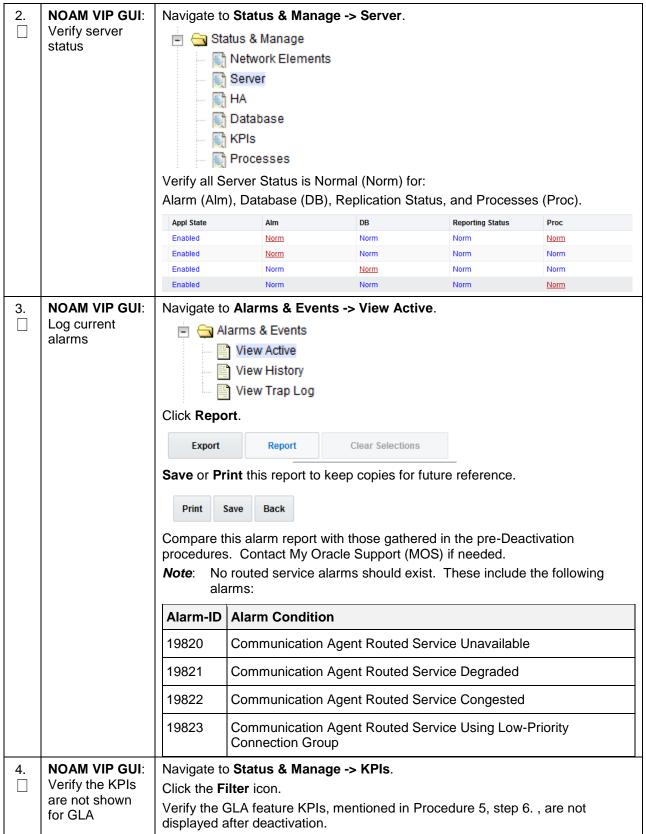
#### 6.3.1 Perform Health Check

This procedure determines the health and status of the network and servers.

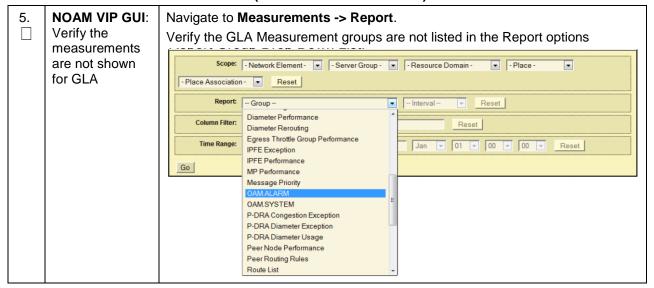
# Procedure 8. Perform Health Check (Post-Feature Deactivation)

S T E P #	Check off (√) each step number.  If this procedure fa	erforms a post activation health check. In step as it is completed. Boxes have been provided for this purpose under each ails, contact My Oracle Support (MOS) and ask for assistance.  Establish a GUI session on the NOAM server by using the VIP address of the NOAM server. Open the web browser and enter a URL of:
<u>-</u>	Login	NOAM server. Open the web browser and enter a URL of:  http:// <primary_noam_vip_ip_address>  Login as the guiadmin user:  Oracle System Login  Mon Jul 11 13:59:37 2016 EDT  Log In  Enter your username and password to log in  Username:  Password:  Change password  Log In  Welcome to the Oracle System Login.  This application is designed to work with most modern HTML5 compliant browsers and uses both JavaScript and cookies. Please refer to the Oracle Software Web Browser Support Policy for details.</primary_noam_vip_ip_address>
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Procedure 8. Perform Health Check (Post-Feature Deactivation)



#### Procedure 8. Perform Health Check (Post-Feature Deactivation)



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## 7. Engineering Notes

<u>FIPS integrity verification test failed</u>: In DSR 7.1+, you may see 'FIPs integrity verification test failed' message displayed during the activation/Deactivation output, this message is expected and harmless.

#### 7.1 Sample Output of Activation (Active NOAM)

```
[admusr@NO1 loaders]$ ls
activate
          helper upgrade
          install
                     verifyFeatureActivation
deactivate
featureActivateDeactivate load.dsr.install
[admusr@NO1 loaders]$ ./featureActivateDeactivate
Tue May 26 13:22:30 EDT 2017::Starting featureActivateDeactivate main...
Start the Automation script , To run the Feature Activation/DeActivation on Acti
ve NO.
You want to Activate or Deactivate the Feature :
1.Activate
2.Deactivate
Enter your choice: 1
List of Feature you can Activate :
1.RBAR
2.FABR
3.Mediation
4.LoadGen
5.GLA
6.MAP Interworking
7.DTLS
8.DCA Framework
9.DCA Applications
Enter the choice : 5
Run script to Activate gla Feature
Execution of Activation/Deactivation Process Starts
______
Starting Activation/Deactivation process....
Executing /usr/TKLC/dsr/prod/maint/loaders/activate/load.glaActivateAsourced scr
ipt on NO1
Policy DRA is enabled, proceeding ahead with GLA activation
______
PCRF Pooling is enabled, proceeding ahead with GLA activation
```

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```
_____
Add GLA to DsrApplication.
______
id=13
name=GLA
unavailableAction=SendAnswer
avpInsertion=Yes
shutdownMode=Forced
shutdownTimer=0
resultCode=3002
vendorId=0
errorString=GLA: Unavailable
resExhResultCode=3004
resExhVendorId=0
resExhErrorString=GLA: Resource Exhausted
routeListId=-1
realm=
fqdn=
mcl=0
Add GLA KPI group
______
KPI Group=GLA
Visibility=VIS SO
______
Add GLA Measurement groups
Meas Group=GLA Performance
Visibility=VIS SO
_____
Meas_Group=GLA Exception
Visibility=VIS SO
______
Add GLA GUI Configuration Permissions.
______
_appid=17
group id=9000
group name=GLA Configuration Permissions
______
Starting to Execute the Loaders on Mate server
```

```
_____
Executing /usr/TKLC/dsr/prod/maint/loaders/activate/load.glaActivateAsourced scr
ipt on NO2
______
FIPS integrity verification test failed.
______
Add GLA to DsrApplication.
______
id=13
name=GLA
unavailableAction=SendAnswer
avpInsertion=Yes
shutdownMode=Forced
shutdownTimer=0
resultCode=3002
vendorId=0
errorString=GLA: Unavailable
resExhResultCode=3004
resExhVendorId=0
resExhErrorString=GLA: Resource Exhausted
routeListId=-1
realm=
fqdn=
mcl=0
______
KPI Group=GLA
Visibility=VIS SO
_____
Meas_Group=GLA Performance
Visibility=VIS_SO
_____
Meas Group=GLA Exception
Visibility=VIS SO
______
Add GLA GUI Configuration Permissions.
______
_appid=17
group_id=9000
group_name=GLA Configuration Permissions
```

```
_____
FIPS integrity verification test failed.
______
The Active SO server configured in the Topology are
______
1. SO1
2. ALL SOs
Enter your choice on which SO you want to Activate or Deactivate the Feature :1
______
This is a 3 Tier Setup , So run the B sourced loaders on SO server : SO1
Executing /usr/TKLC/dsr/prod/maint/loaders/activate/load.glaActivateBsourced scr
ipt on SO1
FIPS integrity verification test failed.
______
Current server is HA ACTIVE
______
PCA is already activated, Proceeding ahead
______
Policy DRA is enabled, proceeding ahead with GLA activation
______
PCRF Pooling is enabled, proceeding ahead with GLA activation
______
Add GLA to DsrApplication.
______
id=13
name=GLA
unavailableAction=SendAnswer
shutdownMode=Forced
shutdownTimer=0
resultCode=3002
vendorId=0
errorString=GLA: Unavailable
resExhResultCode=3004
resExhVendorId=0
resExhErrorString=GLA: Resource Exhausted
routeListId=-1
realm=
fqdn=
mcl=0
```

```
_____
Add Common DSR Application measurements for GLA.
______
repgrp=DSR Application Performance
measid=15900
subgrp=
_____
repgrp=DSR Application Exception
measid=15904
subgrp=
_____
repgrp=DSR Application Performance
measid=15902
subgrp=
_____
repgrp=DSR Application Performance
measid=15903
subgrp=
_____
repgrp=DSR Application Performance
measid=15905
subgrp=
repgrp=DSR Application Performance
measid=15906
subgrp=
______
Add GLA GUI Configuration Permissions.
______
_appid=17
group id=9000
group name=GLA Configuration Permissions
______
FIPS integrity verification test failed.
______
Executing the Loaders and Clearing Cache on Standby SO servers.
______
Starting to Execute the Loaders on Mate server
______
```

```
Executing /usr/TKLC/dsr/prod/maint/loaders/activate/load.glaActivateBsourced scr
ipt on SO2
______
FIPS integrity verification test failed.
______
Current server is HA STANDBY
______
PCA is already activated, Proceeding ahead
Policy DRA is enabled, proceeding ahead with GLA activation
______
PCRF Pooling is enabled, proceeding ahead with GLA activation
______
name=GLA
unavailableAction=SendAnswer
avpInsertion=Yes
shutdownMode=Forced
shutdownTimer=0
resultCode=3002
vendorId=0
errorString=GLA: Unavailable
resExhResultCode=3004
resExhVendorId=0
resExhErrorString=GLA: Resource Exhausted
routeListId=-1
realm=
fqdn=
mcl=0
______
Add GLA GUI Configuration Permissions.
______
appid=17
group id=9000
group name=GLA Configuration Permissions
_____
FIPS integrity verification test failed.
_____
Do you want to activate/deactivate this feature on another System OAM Server
```

```
[Y/N
] : n
[admusr@NO1 loaders]$
```

#### 7.2 Sample Output of Deactivation (Active NOAM)

```
[admusr@NO2 loaders]$ ./featureActivateDeactivate
Tue Apr 1 02:21:17 EDT 2017::Starting featureActivateDeactivate main...
Start the Automation script , To run the Feature Activation/DeActivation on Active NO.
You want to Activate or Deactivate the Feature :
1.Activate
2.DeactivateEnter your choice : 2
Which Feature you want to
DeActivate :1.RBAR
2.FABR
3. Mediation
4.LoadGen
5.GLA
6.MAP Interworking
7.DTLS
8.DCA Framework
9.DCA Application
Enter your choice : 5
Run script to Deactivate gla Feature
Execution of Activation/Deactivation Process Starts
______
Starting Activation/Deactivation process....
Executing /usr/TKLC/dsr/prod/maint/loaders/deactivate/load.glaDeactivateAsourced
script on NO2
______
Hiding GLA KPI group and Measurement Groups
______
=== deleted 1 records ===
______
Hiding GLA measurement groups
______
=== deleted 1 records ===
=== deleted 1 records ===
______
```

```
Removing GLA from the DSR Application Table
______
=== deleted 1 records ===
______
Removing GLA GUI permissions.
=== deleted 1 records ===
_____
Starting to Execute the Loaders on Standby server
______
Executing /usr/TKLC/dsr/prod/maint/loaders/deactivate/load.glaDeactivateAsourced
script on NO1
______
Removing GLA GUI permissions.
______
=== deleted 0 records ===
______
The Active SO server configured in the Topology are
______
1. SO1
2. ALL SOs
Enter your choice on which SO you want to Activate or Deactivate the Feature :1
______
This is a 3 Tier Setup , So run the B sourced loaders on SO server : SO1
Executing /usr/TKLC/dsr/prod/maint/loaders/deactivate/load.glaDeactivateBsourced
script on SO1
Current server is HA ACTIVE
______
Removing all ART rules pointing to GLA
______
=== deleted 0 records ===
______
Removing applicationId=13(GLA) from the DSR Application Per Mp Table
______
=== deleted 0 records ===
______
Removing GLA from the DSR Application Table
______
=== deleted 1 records ===
```

```
_____
=== deleted 3 records ===
______
Removing GLA GUI permissions.
_____
=== deleted 1 records ===
______
Executing the Loaders and Clearing Cache on Standby SO servers.
______
Starting to Execute the Loaders on Standby server
______
Executing /usr/TKLC/dsr/prod/maint/loaders/deactivate/load.glaDeactivateBsourced
script on SO2
______
Current server is HA STANDBY
______
Removing GLA GUI permissions.
______
=== deleted 0 records ===
______
Do you want to activate/deactivate this feature on another System OAM Server[Y/N] : N
```

## Appendix A. My Oracle Support (MOS)

MOS (<a href="https://support.oracle.com">https://support.oracle.com</a>) 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 <a href="http://www.oracle.com/us/support/contact/index.html">http://www.oracle.com/us/support/contact/index.html</a>. 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 are 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.

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