Oracle® Communications Diameter Signaling Router Range-Based Address Resolution Feature Activation Guide



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Oracle Communications Diameter Signaling Router Range-Based Address Resolution Feature Activation Guide, Release 9.0.0.0

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

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

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Acronyms

An alphabetized list of acronyms used in the document:

Acronyms	Definition	
BNS	Broadband Networking Solutions	
DA-MP	Diameter Agent Message Processor	
DB	Database	
DSR	Diameter Signaling Router	
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	
NO	Network OAM	
NOAM	Network OAM	
OAM	Operations, Administration and Maintenance	
RBAR	Range-Based Address Resolution	
SOAM	System OAM	
SSH	Secure Shell	
UI	User Interface	
VIP	Virtual IP	
VPN	Virtual Private Network	
ХМІ	External Management Interface	

Table Acronyms



What's New in this Guide

No updates made to this document in this release.



1 Introduction

1.1 Purpose and Scope

This document defines the procedure that is executed to activate the Range-Based Address Resolution (RBAR) feature on a DSR network element (NE). This procedure can be run as either of the following:

- As part of a new DSR installation, after the standard DSR installation is complete, but before the NE is in service.
- On an in-service DSR NE, where the RBAR feature is activated during a planned maintenance window to minimize the impact to network traffic.

This document also provides a procedure to deactivate RBAR after it is activated. For details on deactivation, see Feature Deactivation.

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 RBAR feature is activated at a later time.

1.2 References

Diameter Signaling Range-Based Resolution (RBAR) User Guide



2 Feature Activation Overview

This section lists the required materials and information needed to execute the feature activation. In addition, Table 2-1 through Table 3-3 provide 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 steps to be executed begin in Feature Activation.

2.1 Definition of Activation for the RBAR Feature

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

All software required to run RBAR is available by default as part of a DSR release installation or upgrade. The process of activating the feature uses the software elements and the files that are already available in the system files, to change the behavior of the DSR NE.

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

After feature activation, all selectable RBAR-related menu items are present on the SOAM GUI, allowing full RBAR configuration and provisioning. Specifically, the top-level RBAR folder is visible on the Main Menu, and a new entry is added to the **Applications** table under **Maintenance** section in **Diameter** page, showing RBAR and its state. After activation, the DA-MP(s) are prepared to act on RBAR configuration and provisioning information entered at and replicated from the NOAM.

WARNING:

Activating the RBAR feature does not automatically enable it. Activation simply means the mechanism for provisioning RBAR behavior is in place. But the DA-MP(s) accepts and acts on RBAR provisioning information only after RBAR has been enabled (through the **Diameter**, and then **Maintenance**, and then **Applications** screen). RBAR should not be enabled until after the appropriate provisioning data has been entered. RBAR provisioning is beyond the scope of this document.

2.2 Feature Activation Overview

2.2.1 Pre-feature Activation Overview

The pre-activation procedures shown in the following table can 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.

Procedure	Elapsed Time (Hours:Minutes)		Activity Feature Activation Preparation		Impact
	This Step	Cum.			
System Topology Check	0:20	0:20	•	Verify Network Element Configuratio n data. Verify System Group Configuratio n data. Analyze and plan DA-MP restart sequence.	None
Perform Health Check	0:05	0.25	•	Verify DSR release. Verify server status. Log all current alarms.	None

 Table 2-1
 Pre-Feature Activation Overview

2.2.2 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.

Procedure			Activity Feature Activation Execution		Impact
	This Step	Cum.			
Pre-Feature Activation Health Check	0:05	0:05	•	Verify DSR release. Verify proper RBAR feature state. Verify server status. Log all current alarms.	None

 Table 2-2
 Feature Activation Execution Overview



Procedure	Elapsed Time (Hours:Minutes)		Act	ivity Feature ivation cution	Impact
RBAR Feature Activation	0:20	0.25	•	Log out of NOAM or SOAM GUI. SSH to active NOAM. Login as admusr. Change directory to /usr/ TKLC/dsr/ prod/maint/ loaders/. Execute the feature activation script. Log into SOAM GUI. Verify the RBAR Folder. Restart each active DA- MP server Verify Maintenance screen. Log into NOAM GUI. Verify Maintenance screen. Close SSH connections to NOAM.	RBAR is activated

2.2.3 Post-Feature Activation Review

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.



Procedure	Elapsed Time (Hours:Minutes)		Activity Feature Activation Completion		Impact
	This Step	Cum.			
Pre-Feature Activation Health Check	0:05	0:05	•	Verify server status. Log all current alarms.	RBAR is activated on DSR

 Table 2-3
 Post-Feature Activation Overview



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.

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

Table 3-1 Pre-Feature Deactivation Overview

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 3-2 Feature Deactivation Overview	Table 3-2	Feature Deactivation Overview
---	-----------	-------------------------------

Procedure			Activity Deactivation Procedures	Impact
	This Step	Cum.		



Procedure	Elapsed Time (Hou	ırs:Minutes)	Activity Deactivation Procedures	Impact
Deactivation Setup	0:30	0:30	The reason to deactivate has a direct impact on any additional back-out preparation that must be done. Since not all possible reasons can be predicted ahead of time, only estimates are given here. Execution time will vary.	None
Pre-Feature Deactivation Health Check	0:20	0:50	 Log out of active NOAM/ SOAM GUI. SSH into active NOAM. Login as admusr Change directory to /usr/ TKLC/dsr/ prod/maint/ loaders/ Execute the feature deactivation script. Log into NOAM or SOAM GUI. Verify the FABR folder. Restart each active DA-MP server. Log into NOAM GUI Verify Maintenance screen. 	RBAR is deactivated

 Table 3-2
 (Cont.) Feature Deactivation Overview

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 3-3 Post-Feature Deactivation Overview

Procedure	Elapsed Time (Hours:Minutes)		Activity Deactivation Procedures	Impact
	This Step	Cum.		
Post-Feature Deactivation Health Check	0:05	0:05	 Verify server status. Log all current alarms. 	None



4 Feature Activation Procedure

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

4.1 System Topology Check

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.

- 1. Log in to the NOAM VIP GUI, establish a GUI session on the NOAM server by using the VIP address of the NOAM server.
- 2. Open the web browser and enter the URL, http://<Primary NOAM VIP IP Address>
- 3. Log in as the guiadmin user.

Figure 4-1 Oracle System Login



Oracle System Login

Mon Jul 11 13:59:37 2016 EDT

Log In Enter your username and password to log in				
Use	rname:			
Pas	ssword:			
		Change pa	assword	
	Lo	g In		
			, 	

Welcome to the Oracle System Login.

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- 4. Verify the network configuration data.
- 5. Expand the **Configuration** folder, click **Networking** and select **Network**.

Figure 4-2	Navigation to	Networks
------------	---------------	----------

-	📃 🔄 Configuration				
	📄 😋 Networking				
				Networks	
				Devices	
				Routes	
		·	E.	Services	

6. Select the site network element tab.

Figure 4-3 Network Element Tag

Global ZombieNOAM 🔕 ZombieDRNOAM ⊗	Zombie SOAM 🛛 🕲		
Network Name	Network Type	Default	Locked
ХМІ	OAM	Yes	Yes
IMI	OAM	No	Yes
xsi1	Signaling	No	No
xsi2	Signaling	No	No
xsi3	Signaling	No	No

7. Click Report

Figure 4-4 Report



8. Verify if the configuration data is correct for your network. **Save** or **Print** this report to keep copies for future reference.

Figure 4-5		Save	or Print		
	Print		Save	Back	

9. Verify the server configuration. Expand the **Configuration** and click **Server Groups**.



Figure 4-6	Server Groups
Ē 🛄	Networking
🔛	Servers
	Server Groups
🖺	Resource Domains
🗳	Places

- Place Associations
- 10. Click Report.

Figure 4-7	Report
------------	--------

Insert	Edit	Lock/Unlock	Delete	Report
--------	------	-------------	--------	--------

11. Verify if the configuration data is correct for your network. **Save** or **Print** this report to keep copies for future reference.



Print	Save	Back
-------	------	------

12. Analyze and plan the DA-MP re-start sequence. Analyze the system topology and plan for any DA-MPs, which will be out-of-service during the feature activation sequence. Analyze system topology gathered in Step 5 and Step 9. Determine exact sequence which DA-MP servers will be restarted (with the expected out-of-service periods).



If this procedure fails, contact My Oracle Support for assistance.

4.2 Perform Health Check

Perform Health Check (Feature Activation Preparation)

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

Log in to the NOAM VIP GUI, establish a GUI session on the NOAM server by using the VIP address of the NOAM server.

1. Open the web browser and enter the URL, http://<Primary NOAM VIP IP Address>



2. Log in as the guiadmin user.

Figure 4-9 Oracle System Login



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.

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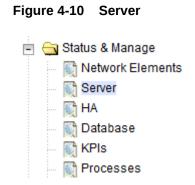
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Verify the server status.

3. Expand Status & Manage folder and click Server.



4. Verify if Server Status is Normal (Norm) for:Alarm (Alm), Database (DB), Replication Status, and Processes (Proc).



Appl State	Alm	DB	Reporting Status	Proc
Enabled	Norm	Norm	Norm	Norm
Enabled	Norm	Norm	Norm	Norm
Enabled	Norm	Norm	Norm	Norm
Enabled	Norm	Norm	Norm	Norm

Figure 4-11 Server Status

Do not proceed to feature activation if any of the above states are not Norm. If any of these are not Norm, corrective action should be taken to restore the non-Norm status to Norm before proceeding with the feature activation. If the Alarm (Alm) status is not Norm but only Minor alarms are present, it is acceptable to proceed with the feature activation. If there are Major or Critical alarms present, these alarms should be analyzed prior to proceeding with the feature activation. The activation can proceed in the presence of certain Major or Critical alarms. Contact My Oracle Support for assistance as necessary.

5. Log current alarms, Expand Alarms & Events folder and click View Active.



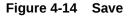
-	🔄 Alarms & Events
	🛯 📔 View Active
	🛯 📔 View History
	🔄 📔 View Trap Log

6. Click Report.

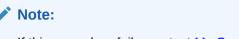
Figure 4-13 Report



7. Save or Print this report to keep copies for future reference.



Print	Save	Back
-------	------	------



If this procedure fails, contact My Oracle Support for assistance.



5 Feature Activation

Before feature activation, perform the system health check in Perform Health Check. This check ensures that 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 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 initiate each step. A check box should 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.

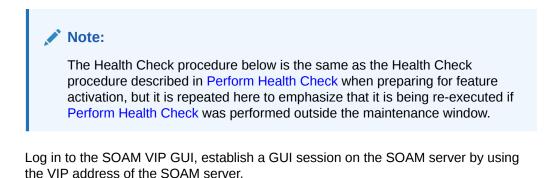
5.1 Pre-Activation Procedures

5.1.1 Pre-Feature Activation Health Check

Perform Health Check (Pre Feature Activation)

This procedure is used to determine the health and status of the network and servers. This must be executed at the start of every maintenance window.





- 1. Open the web browser and enter the URL, http:// <Primary SOAM VIP IP Address>
- 2. Log in as the guiadmin user.

Figure 5-1 Oracle System Login



Oracle System Login

Mon Jul 11 13:59:37 2016 EDT

	g In and password to log in
Username	1
Password	
	Change password
L	og In

Welcome to the Oracle System Login.

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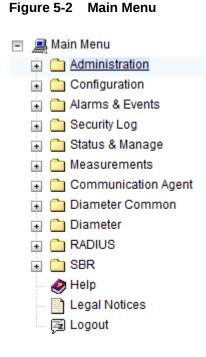
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Verify if the RABR folder is not present

3. Under the Main Menu, verify if the RABR folder is not present.





Log in to the NOAM VIP GUI, establish a GUI session on the NOAM server by using the VIP address of the NOAM server.

- 4. Open the web browser and enter the URL, http://<Primary_NOAM_VIP_IP_Address>
- 5. Log in as the guiadmin user.



Figure 5-3 Oracle System Login



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.					

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6. Verify the server status, expand Status & Manage folder and click Server

÷ 🖻 🖨	Status & Manage
	💽 Network Elements
	💽 Server
	💽 HA
	💽 Database
	💽 KPIs
	💽 Processes

Figure 5-4 Status and Manage

7. Verify if the Server Status is Normal (Norm) for: Alarm (Alm), Database (DB), Replication Status, and Processes (Proc).

Figure 5-5 Server Status

Appl State	Alm	DB	Reporting Status	Proc
Enabled	Norm	Norm	Norm	Norm
Enabled	Norm	Norm	Norm	Norm
Enabled	Norm	Norm	Norm	Norm
Enabled	Norm	Norm	Norm	Norm



Do not proceed to feature activation if any of the above states are not Norm. If any of these are not Norm, corrective action should be taken to restore the non-Norm status to Norm before proceeding with the feature activation.

If the Alarm (Alm) status is not Norm but only Minor alarms are present, it is acceptable to proceed with the feature activation. If there are Major or Critical alarms present, these alarms should be analyzed before proceeding with the feature activation. The activation can be able to proceed in the presence of certain Major or Critical alarms. Contact My Oracle Support for assistance as necessary.

8. Verify the Server Configuration, expand Configuration folder and click Server Groups

-	-
	🗉 🧰 Networking
	Servers
	🔤 Server Groups
	🔤 📔 Resource Domains
	Places
	Place Associations

Figure 5-6 Server Groups

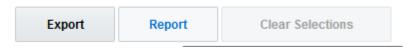
Verify if the configuration data is correct for your network.

9. Log current alarms, expand Alarms & Events folder and click View Active

-	🔄 Alarms & Events
	🛯 🔛 View Active
	🛯 📔 View History
	🔤 View Trap Log

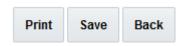
10. Click Report

Figure	5-8	Report
--------	-----	--------



11. Save or **Print** this report to keep copies for future reference.







If this procedure fails, contact My Oracle Support for assistance.

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 RBAR Feature Activation

Feature Activation

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

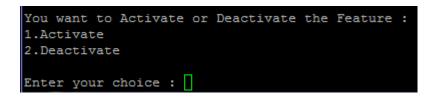
1. Log out from any active NOAM and/or SOAM GUI sessions.

Figure 5-10 Logout
Pause Updates Help Logged in Account guiadmin 💌 Log Out
Tue Aug 16 10:13:52 2016 EDT

- 2. Establish an SSH session to the NOAM VIP. Log in as admusr.
- 3. Navigate to the feature activation directory by executing the following command \$ cd /usr/TKLC/dsr/prod/maint/loaders/
- 4. Execute the feature activation script, run the feature activation script by executing the following command:\$./featureActivateDeactivate

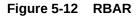
Select Activate.

Figure 5-11 Activate



Select RBAR.



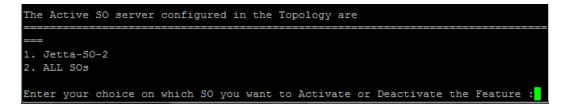


List	of	Feature	you	can	Activate	:
1.RB7	AR					
2.FAE	3R					
3.Mec	liat	tion				
4.Los	adGe	en				
5.GLZ	Ŧ					
6.MAI	? Ir	nterworki	ing			
7.DTI	LS					
8.DC7	A Fi	ramework				
9.DC2	A Ar	plicatio	on			

Select the SOAM site for which the application will be activated:



Figure 5-13 SOAM



Refer to Sample Output of Activation (Active NOAM) for output example.

- 5. Establish a GUI session on the Active SOAM Server by using IP address of the SOAM server. Open the web browser and enter the following URL http:// <Active_SOAM_IP_Address>
- 6. Log in as the guiadmin user.



Figure 5-14 Oracle System Login



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	
l		
	Welcome to the Oracle System Login.	
	lesigned to work with most modern HTML5 compliant browsers and us es. Please refer to the <u>Oracle Software Web Browser Support Policy</u> fo	

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 Verify if the RBAR folder is visible. Locate and verify the RBAR folder from Main Menu, check if it is visible and verify if the configuration folder items are present.



🖻 😋 RBAR
😑 😋 Configuration
Applications
Exceptions
- 📑 Destinations
Address Tables
Addresses
Address Resolutions
System Options

8. Verify if the application maintenance screen is visible. Verify if the RBAR application is present in the Application Status screen. Expand the **Diameter** folder, click **Maintenance** and select **Applications**.



Figure 5-16 RBAR Status

RBAR	ZombieDAM P1	Disabled	Unk	Unk	Unk	Unk
RBAR	ZombieDAM P2	Disabled	Unk	Unk	Unk	Unk

Verify if the RBAR status is uninitialized. The following data should be displayed:

- Admin State = Disabled
- Operational Status = Unk
- Operational Reason = Unk
- Congestion Level = Unk
- 9. In the stand by SOAM GUI, repeat the verification step 5 up to step 8.

Note:

If the verifications for the standby SOAM differ from the active SOAM, stop and contact My Oracle Support.

- 10. Establish a GUI session on the SOAM Server by using the VIP address of the SOAM server. Open the web browser and enter the URL http://<Active SOAM IP Address>
- **11.** Log in as the guiadmin user.



Figure 5-17 Oracle System Login

	•

Oracle System Login

Mon Jul 11 13:59:37 2016 EDT

Log Enter your username	g In and password to lo	og in
Username:		
Password:		
	Change password	
Lo	og in	
Welcome to the Or	racle System Login.	
designed to work with most moder ies. Please refer to the <u>Oracle Soft</u>		

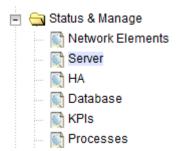
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12. Restart DA-MPs. Multiple iterations of this step can be executed during the feature activation procedure. This is dependent on the number of DA-MP servers within your system. Make a written record of the number of times the step was performed. It is recommended that no more than 50% of the DA-MPs be restarted at once. Expand the **Status & Manage** and click **Server**.

Figure 5-18 Server Folder

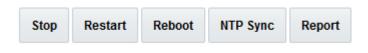


Select the desired DA-MPs, press Ctrl to select multiple DA-MPs at once.

13. Click Restart.



Figure 5-19 Restart



Click **OK** 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.

14. Verify the RBAR application is present in the Application Status screen. Expand the **Diameter** folder, click **Maintenance** and select **Applications**.

Figure 5-20 Application Status

able Description: Applicat	tions Table					
Application Name	MP Server Hostname	Admin State	Operational Status	Operational Reason	Congestion Level	Time of Last Update
RBAR	OahuMp	Disabled	Unavailable	Shut Down	Normal	2016-Sep-14 13:47:39 EDT

Verify RBAR status is initialized. The following data should display:

- Admin State = Disabled
- Operational Status = Unavailable
- Operational Reason = Shutdown
- Congestion Level = Normal

If this procedure fails, contact My Oracle Support for assistance.

5.3 Post-Activation Procedures

5.3.1 Post-Feature Activation Health Check

Perform Health Check (Post-Feature Activation)

This procedure is used to determine the health and status of the DSR release network and servers.

- 1. Log in to the NOAM VIP GUI. Establish a GUI session on the NOAM server by using the VIP address of the NOAM server. Open the web browser and enter the URL http://
- 2. Log in as the guiadmin user.



Figure 5-21 Oracle System Login



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.

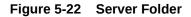
This application is designed to work with most modern HTML5 compliant browsers and uses both JavaScript and cookies. Please refer to the <u>Oracle Software Web Browser Support Policy</u> for details.

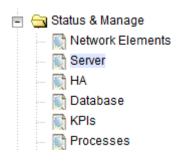
Unauthorized access is prohibited.

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3. Verify the server status. Expand **Status & Manage** folder and click **Server**.





Verify all Server Status is Normal (Norm) for: Alarm (Alm), Database (DB), Replication Status, and Processes (Proc).





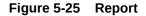
Appl State	Alm	DB	Reporting Status	Proc
Enabled	Norm	Norm	Norm	Norm
Enabled	Norm	Norm	Norm	Norm
Enabled	Norm	Norm	Norm	Norm
Enabled	Norm	Norm	Norm	Norm

4. Log current alarms. Expand Alarms & Events folder and click View Active



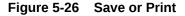
-	<u>G</u>	Ala	rms & Events
			View Active
			View History
		E.	View Trap Log

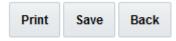
5. Click Report.



Export	Report	Clear Selections

6. Click **Save** or **Print**. Keep the report copies for future reference.





Compare this alarm report with those gathered in the pre-activation procedures. If this procedure fails, contact My Oracle Support for assistance.



6 Feature Deactivation

Follow this section only in case of reverting back to the pre-activation version of the software due to any issue with RBAR activation. In general, as long as there are no Application Routing Rules using the RBAR application, it will have no impact on the system and does not need to be deactivated. The deactivation procedure will cause all the RBAR related configuration data to be removed. The crafts person must ensure that this is acceptable.

6.1 Pre-Deactivation Procedures

Before beginning the feature deactivation, complete the pre-deactivation procedure below.

6.1.1 Pre-Feature Deactivation Health Check

Perform Health Check (Pre-Feature Deactivation)

This procedure is used to determine the health and status of the DSR network and servers.

- Log in to the SOAM VIP GUI. Establish a GUI session on the SOAM server by using the VIP address of the SOAM server. Open the web browser and enter the URL http:// <Primary_SOAM_VIP_IP_Address>
- 2. Log in as the guiadmin user



Figure 6-1 Oracle Systemn Login

	ORA		0	
Oracle System	Login		Mon Jul 11	13:59:37 2016 EDT
	Log Enter your username		og in	
	Username:			
	Password:			
	Lo	Change password g In		
	Welcome to the Or	acle 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.

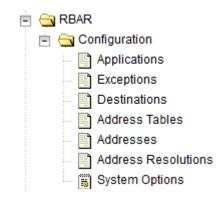
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 In the SOAM VIP GUI, verify if the RBAR folder is visible. Locate and verify if the RBAR folder from Main Menu is visible and the configuration folder items are present.







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.

- 4. Log in to the NOAM VIP GUI. Establish a GUI session on the NOAM server by using the VIP address of the NOAM server. Open the web browser and enter the URL http:// <Primary NOAM VIP IP Address>
- 5. Log in as the guiadmin user.

Figure 6-3 Oracle System Login



Oracle System Login

Mon Jul 11 13:59:37 2016 EDT

I	Enter your use	Log ername a		word to lo	g in
	Use	ername:			
	Pas	ssword:			
			Change pa	ssword	
		Lo	g In		

Welcome to the Oracle System Login.

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6. Verify the server status. Expand Status & Manage folder and click Server



Figure	6-4	Server	Folder
--------	-----	--------	--------

-	Status & Manage
	 Network Elements
	 🟹 Server
	 🕅 HA
	 🟹 Database
	 🟹 KPIs
	 💽 Processes

7. Verify if all Server Status is Normal (Norm) for, Alarm (Alm), Database (DB), Replication Status, and Processes (Proc).

Figure 6-5 Server Status

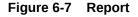
Appl State	Alm	DB	Reporting Status	Proc
Enabled	Norm	Norm	Norm	Norm
Enabled	Norm	Norm	Norm	Norm
Enabled	Norm	Norm	Norm	Norm
Enabled	Norm	Norm	Norm	Norm

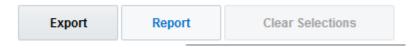
8. Log the current alarms. Expand Alarms & Events folder and click View Active.



:	🚖 Ala	arms & Events
		View Active
		View History
		View Trap Log

9. Click Report.





10. Save or **Print** this report to keep copies for future reference.

F	igure 6-	8	Save	or Print
	Print		Save	Back

Compare this alarm report with those gathered in the pre-activation procedures.



If this procedure fails, contact My Oracle Support for assistance.

6.2 Deactivation Procedures

6.2.1 RBAR Feature Deactivation

Feature Deactivation

This section provides the detailed steps of the RBAR deactivation procedures.

- Log in to the SOAM VIP GUI. Establish a GUI session on the SOAM server by using the VIP address of the SOAM server. Open the web browser and enter the URL http:// <Active SOAM IP Address>
- 2. Log in as the guiadmin user.

Figure 6-9 Oracle System Login



Oracle System Login

Mon Jul 11 13:59:37 2016 EDT

Enter your use	Log In ername and password to log in
Use	ername:
Pa	assword:
	Change password
	Log In
Welcom	ne to the Oracle System Login.

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3. Disable RBAR application, browse to **Maintenance** folder under **Diameter** and select **Applications**.



📄 🚖 Dia	ameter
🗉 🗋	Configuration
🖻 🚍	Maintenance
	🟹 Route Lists
	🟹 Route Groups
	🟹 Peer Nodes
	Connections
	Egress Throttle Groups
	Applications
	🟹 DA-MPs
	🟹 Peer Discovery
	🟹 Signaling Firewall
	🟹 Traffic Throttle Points
	Traffic Throttle Groups

Figure 6-10 RBAR Applications

4. Select the RBAR applications to disable and click **Disable**.

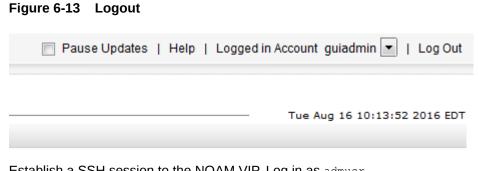
Enable	Disable	Pause updates

5. Click **OK** to confirm.

Figure 6-12 Shut Down

pplication Name	MP Server Hostname	Admin State	Operational Status	Operational Reason	Congestion Level	Time of Last Update
-----------------	-----------------------	-------------	-----------------------	--------------------	---------------------	---------------------

6. Log out of any active NOAM and/or SOAM GUI sessions.



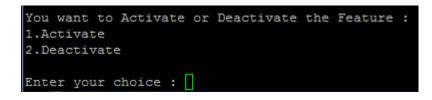
7. Establish a SSH session to the NOAM VIP. Log in as $\tt admusr.$



- 8. Navigate to the feature activation directory by running the command \$ cd /usr/ TKLC/dsr/prod/maint/loaders/
- 9. In the NOAM VIP GUI, run the feature activation script by running the following command: \$./featureActivateDeactivate

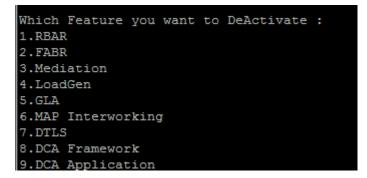
Select Deactivate.

Figure 6-14 Deactivate



Select RBAR.

Figure 6-15 RBAR Feature



Select the SOAM site for which the application will be deactivated:



Figure 6-16 Feature Deactivation

The	Act	tive	so	serv	ver	config	gured	lin	the	Top	pology	are					
		ta-S(SOs)-2														
Ent	er	your	cho	oice	on	which	so y	ou	want	to	Activa	ate o	or	Deactivate	the	Feature	:

Refer to Sample Output of De-Activation (Active NOAM) for output example.



- 10. Log in to the active SOAM GUI, establish a GUI session on the active SOAM server by using IP address of the SOAM server. Open the web browser and enter the URL http://<Active SOAM IP Address>
- **11.** Log in as the guiadmin user.

Figure 6-17 Oracle System Login

	ORA		7 ®
Oracle System	Login		Mon Jul 11 13:59:37 2016 EDT
	Log Enter your username	g In and password to le	og in
	Username:		
	Password:		
		Change password	
	Lo	g In	
	Welcome to the Or	acle System Login.	
	designed to work with most moderr ies. Please refer to the <u>Oracle Soft</u>		
	Unauthorized acc	cess is prohibited.	

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- 12. In the active SOAM GUI, verify if the RBAR folder is not visible under Main Menu.
- 13. Repeat Step 10-12 for the standby SOAM.



Note:

If the verifications for the standby SOAM differ from the active SOAM, stop and contact My Oracle Support.



- 15. Log in to the SOAM VIP GUI. Establish a GUI session on the SOAM server by using the VIP address of the SOAM server. Open the web browser and enter the URL http:// <Primary_SOAM_VIP_IP_Address>.
- **16.** Log in as the guiadmin user.

Figure 6-18 Oracle System Login



Oracle System Login

Mon Jul 11 13:59:37 2016 EDT

Enter	Log In your username and password to log in
	Username:
	Password:
	Change password
	Log In



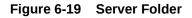
This application is designed to work with most modern HTML5 compliant browsers and uses both JavaScript and cookies. Please refer to the <u>Oracle Software Web Browser Support Policy</u> for details.

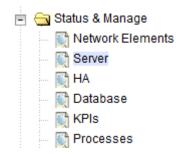
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17. In the SOAM VIP GUI, restart the DA-MPs. During the feature deactivation procedure, you can execute this step in multiple iterations. This is dependent on the number of DA-MP servers within your system. Make a written record of the number of times the step was performed. It is recommended that no more than 50% of the DA-MPs be restarted at once. Expand Status & Manage folder and click Server.







 Select the desired DA-MPs, press Ctrl to select multiple DA-MPs at once. Click Restart.

Figure 6-20 Restart					
Stop	Restart	Reboot	NTP Sync	Report	

Click OK to confirm.

Verify if the server changes to the Err state and wait until it returns to the Enabled/ Norm state.

Repeat for the additional DA-MPs.

19. In the SOAM VIP GUI, verify the maintenance screen. Browse to **Maintenance** folder under **Diameter** and select **Applications**.

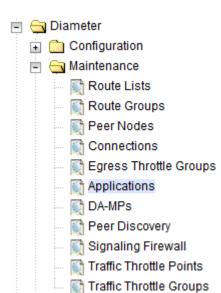


Figure 6-21 Applications Folder

Verify if the RBAR application is not present.

If this procedure fails, contact My Oracle Support for assistance.

6.3 Post-Deactivation Procedures

To complete a deactivation, complete the Post-Deactivation by following the procedures in this chapter.

6.3.1 Post-Feature Deactivation Health Check

Perform Health Check (Post-Feature Deactivation)

ORACLE[®]

This procedure is used to determine the health and status of the network and servers.

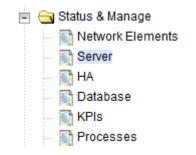
- 1. Log in to the NOAM VIP GUI. Establish a GUI session on the NOAM server by using the VIP address of the NOAM server. Open the web browser and enter the URL http://
- 2. Log in as the guiadmin user.

Figure 6-22 Oracle System Login DRACLE 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.

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3. Verify the server status. Expand Status & Manage folder and click Server.

Figure 6-23 Server Folder





Verify all Server Status is Normal (Norm) for: Alarm (Alm), Database (DB), Replication Status, and Processes (Proc).

Figure 6-24 Server Status

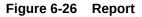
Appl State	Alm	DB	Reporting Status	Proc
Enabled	Norm	Norm	Norm	Norm
Enabled	Norm	Norm	Norm	Norm
Enabled	Norm	Norm	Norm	Norm
Enabled	Norm	Norm	Norm	Norm

4. Log current alarms. Expand Alarms & Events folder and click View Active

Figure 6-25 Alarms and Events

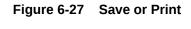
-	🔄 Alarms & Events
	View Active
	🔛 📔 View History
	🔄 📔 View Trap Log

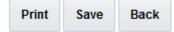
5. Click Report.





6. Click **Save** or **Print**. Keep the report copies for future reference.





Compare this alarm report with those gathered in the pre-deactivation procedures. If this procedure fails, contact My Oracle Support for assistance.



7 Engineering Notes

<u>FIPS integrity verification test failed</u>: You can ignore "'FIPs integrity verification test failed" message during the activation/Deactivation.

7.1 Sample Output of Activation (Active NOAM)

Run script to activate RBAR feature:

```
========S-T-A-R-
Engineering
_____
=====
Execution of Activation/Deactivation Process Starts
_____
_____
Starting Activation/Deactivation process....
Executing /usr/TKLC/dsr/prod/maint/loaders/activate/
load.rbarActivateAsourced script on NO1
_____
===
Add RBAR KPI group
_____
===
KPI Group=RBAR
Visibility=VIS SO
_____
===
Add RBAR Measurement groups
_____
___
Meas Group=Address Resolution Performance
Visibility=VIS SO
_____
Meas Group=Address Resolution Exception
Visibility=VIS_SO
_____
===
Add RBAR GUI Configuration Permissions.
_____
===
appid=17
group id=7000
group name=RBAR Configuration Permissions
_____
Starting to Execute the Loaders on Mate server
```



```
_____
_____
Executing /usr/TKLC/dsr/prod/maint/loaders/activate/
load.rbarActivateAsourced script on NO2
_____
_____
FIPS integrity verification test failed.
KPI Group=RBAR
Visibility=VIS SO
------
Meas Group=Address Resolution Performance
Visibility=VIS SO
_____
Meas Group=Address Resolution Exception
Visibility=VIS SO
_____
_____
Add RBAR GUI Configuration Permissions.
========
_appid=17group_id=7000group name=RBAR 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 :
S01
Executing /usr/TKLC/dsr/prod/maint/loaders/activate/
load.rbarActivateBsourced script on SO1
FIPS integrity verification test failed.
_____
_____
Current server is HA ACTIVE
_____
_____
Add RBAR to DsrApplication. If already present, do not update -
display awarning instead
_____
=========
Verify that RBAR is in the table
_____
_____
id=3
name=RBAR
unavailableAction=ContinueRouting
avpInsertion=Yes
```



```
shutdownMode=Forced
shutdownTimer=0
resultCode=3002
vendorId=0
errorString=RBAR Unavailable
resExhResultCode=3004
resExhVendorId=0
resExhErrorString=RBAR Resource Exhausted
routeListId=-1
realm=
fqdn=
mcl=0
_____
Add Common DSR Application measurements for RBAR.
_____
===
repgrp=DSR Application Exception
measid=10302
subarp=
_____
repgrp=DSR Application Exception
measid=10303
subgrp=
_____
repgrp=DSR Application Performance
measid=10300
subgrp=
_____
repgrp=DSR Application Performance
measid=10301
subgrp=
_____
repgrp=DSR Application Performance
measid=10304
subgrp=
_____
repgrp=DSR Application Performance
measid=10305
subgrp=
_____
repgrp=DSR Application Performance
measid=10350
subgrp=
_____
===
Add RBAR GUI Configuration Permissions.
_____
===
_appid=17
group id=7000
group name=RBAR 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.rbarActivateBsourced script on SO2
_____
_____
FIPS integrity verification test failed.
_____
=========
Current server is HA STANDBY
_____
_____
Verify that RBAR is in the table
========
id=3
name=RBAR
unavailableAction=ContinueRouting
avpInsertion=Yes
shutdownMode=Forced
shutdownTimer=0
resultCode=3002
vendorId=0
errorString=RBAR Unavailable
resExhResultCode=3004
resExhVendorId=0
resExhErrorString=RBAR Resource Exhausted
routeListId=-1
realm=
fqdn=
mcl=0
=========
Add Common DSR Application measurements for RBAR.
_____
=========
repgrp=DSR Application Exception
measid=10302
subgrp=
_____
repgrp=DSR Application Exception
measid=10303
subgrp=
_____
repgrp=DSR Application Performance
measid=10300
subgrp=
_____
repgrp=DSR Application Performance
measid=10301
```



```
subgrp=
_____
repgrp=DSR Application Performance
measid=10304
subgrp=
_____
repgrp=DSR Application Performance
measid=10305
subgrp=
_____
repgrp=DSR Application Performance
measid=10350
subgrp=
_____
===
Add RBAR GUI Configuration Permissions.
_____
===
appid=17
group id=7000
group name=RBAR Configuration Permissions
_____
FIPS integrity verification test failed.
_____
=====
Do you want to activate/deactivate this feature on another System OAM
Server[Y/N] :
[admusr@NO1 loaders]$
```

7.2 Sample Output of De-Activation (Active NOAM)

Run script to deactivate RBAR feature:

```
======S-T-A-R-
_____
_____
Execution of Activation/Deactivation Process Starts
_____
=====
Starting Activation/Deactivation process....
_____
_____
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
Verifying feature is activated or not on SO1FIPS integrity verification test
failed.
```



```
_____
RBAR is activated on SO1
_____
Executing /usr/TKLC/dsr/prod/maint/loaders/deactivate/
load.rbarDeactivateAsourced script on NO1
 === deleted 1 records ===
 === deleted 1 records ===
 === deleted 1 records ===
_____
_____
Removing RBAR GUI permissions.
_____
=========
 === deleted 1 records ===
_____
_____
Starting to Execute the Loaders on Mate server
_____
_____
Executing /usr/TKLC/dsr/prod/maint/loaders/deactivate/
load.rbarDeactivateAsourced script on NO2
_____
=============
FIPS integrity verification test failed.
_____
=========
Removing RBAR GUI permissions.
_____
_____
 === deleted 1 records ===
FIPS integrity verification test failed.
_____
_____
This is a 3 Tier Setup , So run the B sourced loaders on SO server :
S01
Executing /usr/TKLC/dsr/prod/maint/loaders/deactivate/
load.rbarDeactivateBsourced script on SO1
FIPS integrity verification test failed.
_____
_____
Current server is HA ACTIVE
=========
 === deleted 0 records ===
_____
_____
Verify there are no dsrAppId=3 [RBAR] entries
_____
_____
 id priority
                        name
action
ansResultCode
errorMessage
vendorId
      dsrAppId appRouteTableId gxPrimeRequest
birthTime
```



```
mcl
  0
      1
                   Gx ART Rule
RouteToAppl
0
Ω
               No 05/18/2015 16:28:13.000
                                       27
6
        1
 === deleted 2 records ===
_____
Verify dsrAppId=3 [RBAR] are not present in the DsrApplicationPerMp table
_____
===
 === deleted 1 records ===
_____
===
Verify RBAR is not present in the DsrApplication table
_____
 === deleted 1 records ===
 === deleted 1 records ===
_____
===
Removing RBAR GUI permissions.
_____
___
 === deleted 1 records ===
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/deactivate/
load.rbarDeactivateBsourced script on SO2
_____
FIPS integrity verification test failed.
_____
Current server is HA STANDBY
_____
___
Verify there are no dsrAppId=3 [RBAR] entries
_____
===
 id priority
                       name
                                  action
ansResultCode
```



```
errorMessage
vendorId
      dsrAppId appRouteTableId gxPrimeRequest
birthTime
mcl
  0
        1
                       Gx ART Rule
RouteToAppl
0
   0
                   No 05/18/2015
6
          1
16:28:13.000
                   27
_____
=========
Verify dsrAppId=3 [RBAR] are not present in the DsrApplicationPerMp
table
=========
Verify RBAR is not present in the DsrApplication table
_____
========
 === deleted 1 records ===
 === deleted 1 records ===
_____
_____
Removing RBAR GUI permissions.
_____
========
 === deleted 1 records ===
FIPS integrity verification test failed.
_____
_____
Do you want to activate/deactivate this feature on another System OAM
Server[Y/N] :
  n
```

Emergency Response

In the event of a critical service situation, emergency response is offered by the 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 can be defined as critical by prior discussion and agreement with Oracle.



В

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 **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.

