

# **Oracle® Communications**

## **Diameter Signaling Router**

RBAR Feature Activation Guide

Release 8.4

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**ORACLE®**

Oracle Communications Diameter Signaling Router RBAR Feature Activation Procedure, Release 8.4.

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## Table of Contents

|   |           |
|---|-----------|
| <b>1. Introduction .....</b>                            | <b>5</b>  |
| 1.1 Purpose and Scope .....                             | 5         |
| 1.2 References .....                                    | 5         |
| 1.3 Acronyms .....                                      | 5         |
| 1.4 Terminology .....                                   | 6         |
| 1.5 General Procedure Step Format .....                 | 6         |
| <b>2. Feature Activation Overview .....</b>             | <b>7</b>  |
| 2.1 Definition of Activation for the RBAR Feature ..... | 7         |
| 2.2 Feature Activation Overview .....                   | 7         |
| 2.2.1 Pre-Feature Activation Overview .....             | 7         |
| 2.2.2 Feature Activation Execution Overview .....       | 8         |
| 2.2.3 Post-Feature Activation Overview .....            | 8         |
| <b>3. Feature Deactivation Overview .....</b>           | <b>9</b>  |
| 3.1 Pre-Feature Deactivation Overview .....             | 9         |
| 3.2 Feature Deactivation Execution Overview .....       | 9         |
| 3.3 Post-Feature Deactivation Overview .....            | 10        |
| <b>4. Feature Activation Preparation .....</b>          | <b>11</b> |
| 4.1 System Topology Check .....                         | 11        |
| 4.2 Perform Health Check .....                          | 13        |
| <b>5. Feature Activation .....</b>                      | <b>15</b> |
| 5.1 Pre-Activation Procedures .....                     | 15        |
| 5.1.1 Perform Health Check .....                        | 15        |
| 5.2 Activation Procedures .....                         | 19        |
| 5.2.1 Feature Activation .....                          | 19        |
| 5.3 Post-Activation Procedures .....                    | 23        |
| 5.3.1 Perform Health Check .....                        | 23        |
| <b>6. Feature Deactivation .....</b>                    | <b>26</b> |
| 6.1 Pre-Deactivation Procedures .....                   | 26        |
| 6.1.1 Perform Health Check .....                        | 26        |
| 6.2 Deactivation Procedures .....                       | 29        |
| 6.2.1 Feature Deactivation .....                        | 29        |
| 6.3 Post-Deactivation Procedures .....                  | 34        |
| 6.3.1 Perform Health Check .....                        | 34        |
| <b>7. Engineering Notes .....</b>                       | <b>37</b> |
| 7.1 Sample Output of Activation (Active NOAM) .....     | 37        |
| 7.2 Sample Output of De-Activation (Active NOAM) .....  | 42        |

|   |           |
|---|-----------|
| <b>Appendix A. My Oracle Support (MOS)</b>                                | <b>46</b> |
| <b>Appendix B. Emergency Response</b>                                     | <b>47</b> |
| <b>Appendix C. Locate Product Documentation on the Oracle Help Center</b> | <b>48</b> |

## List of Tables

|  |    |
|--|----|
| Table 1. Acronyms                              | 5  |
| Table 2. Terminology                           | 6  |
| Table 3. Pre-Feature Activation Overview       | 7  |
| Table 4. Feature Activation Execution Overview | 8  |
| Table 5. Post-Feature Activation Overview      | 8  |
| Table 6. Pre-Feature Deactivation Overview     | 9  |
| Table 7. Feature Deactivation Overview         | 9  |
| Table 8. Post-Feature Deactivation Overview    | 10 |

## List of Figures

|                                       |   |
|---------------------------------------|---|
| Figure 1. Example of a Procedure Step | 6 |
|---------------------------------------|---|

## List of Procedures

|  |    |
|--|----|
| Procedure 1: System Topology Check                                 | 11 |
| Procedure 2: Perform Health Check (Feature Activation Preparation) | 13 |
| Procedure 3: Perform Health Check (Pre Feature Activation)         | 16 |
| Procedure 4: Feature Activation                                    | 19 |
| Procedure 5: Perform Health Check (Post-Feature Activation)        | 23 |
| Procedure 6: Perform Health Check (Pre-Feature Deactivation)       | 26 |
| Procedure 7: Feature Deactivate                                    | 29 |
| Procedure 8: Perform Health Check (Post-Feature Deactivation)      | 35 |

## 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 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 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 has been activated. Refer to Section 6 for a discussion of 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

[1] Diameter Signaling Range-Based Resolution (RBAR) User's Guide, Latest Revision

### 1.3 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                                   |
| DSR     | Diameter Signaling Router                  |
| FOA     | First Office Application                   |
| GUI     | Graphical User Interface                   |
| HA      | 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                             |

| Acronym | Definition                    |
|---------|-------------------------------|
| VIP     | Virtual IP                    |
| VPN     | Virtual Private Network       |
| XMI     | External Management Interface |

## 1.4 Terminology

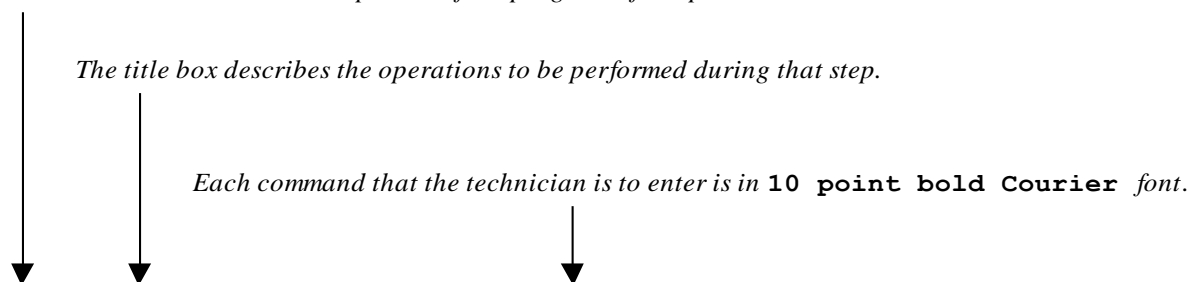
**Table 2. Terminology**

| Term                | Definition  |
|---------------------|---|
| Communication Agent | An EXG common infrastructure component delivered as part of a common plug-in that uses the COMCOL MX framework in support of communicating Stack Events between EXG application processes on different servers. |
| ComAgent            | Same as Communication Agent   |

## 1.5 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.*



|   |  |   |
|---|--|---|
| 1 | <b>ServerX:</b> Connect to the console of the server | Establish a connection to the server using cu on the terminal server/console.<br><pre>\$ cu -l /dev/ttyS7</pre> |
|---|--|---|

**Figure 1. Example of a Procedure Step**

## 2. Feature Activation Overview

This section lists the required materials and information needed to execute the feature activation. In addition, Table 3 through Table 8 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 Section 5.

### 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 simply makes proper use of software elements and file system files that are already present, 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 **Diameter -> Maintenance -> Applications** table, 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.

**Important:** Once the RBAR feature is activated, it is not automatically enabled. 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 (via the **Diameter -> Maintenance -> 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 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 3. Pre-Feature Activation Overview**

| Procedure                           | Elapsed Time (Hours:Minutes) |      | Activity Feature Activation Preparation   | Impact |
|-------------------------------------|------------------------------|------|---|--------|
|                                     | This Step                    | Cum. |   |        |
| System Topology Check (Procedure 1) | 0:20                         | 0:20 | <ul style="list-style-type: none"> <li>Verify Network Element Configuration data.</li> <li>Verify System Group Configuration data.</li> <li>Analyze and plan DA-MP restart sequence.</li> </ul> | None   |
| Perform Health Check (Procedure 2)  | 0:05                         | 0:25 | <ul style="list-style-type: none"> <li>Verify DSR release.</li> <li>Verify server status.</li> <li>Log all current alarms.</li> </ul>   | None   |

## 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.

**Table 4. Feature Activation Execution Overview**

| Procedure                             | Elapsed Time<br>(Hours:Minutes) |      | Activity Feature Activation Execution   | Impact            |
|---------------------------------------|---------------------------------|------|---|-------------------|
|                                       | This Step                       | Cum. |   |                   |
| Perform Health Check<br>(Procedure 3) | 0:05                            | 0:05 | <ul style="list-style-type: none"> <li>Verify DSR release.</li> <li>Verify proper RBAR feature state.</li> <li>Verify server status.</li> <li>Log all current alarms.</li> </ul>  | None              |
| Feature Activation<br>(Procedure 4)   | 0:20                            | 0:25 | <ul style="list-style-type: none"> <li>Log out of NOAM/SOAM GUI.</li> <li>SSH to active NOAM.</li> <li>Login as admusr.</li> <li>Change directory to /usr/TKLC/dsr/prod/maint/loaders/...</li> <li>Execute the feature activation script.</li> <li>Log into SOAM GUI</li> <li>Verify the RBAR Folder.</li> <li>Restart each active DA-MP server.</li> <li>Verify Maintenance screen.</li> <li>Log into NOAM GUI.</li> <li>Verify Maintenance screen.</li> <li>Close SSH connections to NOAM.</li> </ul> | RBAR is activated |

## 2.2.3 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 5. Post-Feature Activation Overview**

| Procedure                             | Elapsed Time<br>(Hours:Minutes) |      | Activity Feature Activation Completion   | Impact                         |
|---------------------------------------|---------------------------------|------|--|--------------------------------|
|                                       | This Step                       | Cum. |  |                                |
| Perform Health Check<br>(Procedure 5) | 0:05                            | 0:05 | <ul style="list-style-type: none"> <li>Verify server status.</li> <li>Log all current alarms.</li> </ul> | RBAR has been activated on DSR |



### 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 6. Pre-Feature Deactivation Overview**

| Procedure                             | Elapsed Time<br>(Hours:Minutes) |      | Activity Deactivation Procedures   | Impact |
|---------------------------------------|---------------------------------|------|--|--------|
|                                       | This Step                       | Cum. |  |        |
| Perform Health Check<br>(Procedure 6) | 0:05                            | 0:05 | <ul style="list-style-type: none"> <li>• Verify DSR release.</li> <li>• Verify proper RBAR feature state.</li> <li>• Verify server status.</li> <li>• Log current alarms.</li> </ul> | None   |

#### 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 7. Feature Deactivation Overview**

| Procedure                     | Elapsed Time<br>(Hours:Minutes) |      | Activity Deactivation Procedures   | Impact              |
|-------------------------------|---------------------------------|------|--|---------------------|
|                               | This Step                       | Cum. |  |                     |
| Deactivation Setup            | 0:30                            | 0:30 | The reason to deactivate has a direct impact on any additional backout preparation that must be done. Since all possible reasons cannot be predicted ahead of time, only estimates are given here. Execution time will vary.   | None                |
| Deactivation<br>(Procedure 7) | 00:20                           | 0:50 | <ul style="list-style-type: none"> <li>• Log out of active NOAM/SOAM GUI.</li> <li>• SSH into active NOAM.</li> <li>• Login as admusr</li> <li>• Change directory to /usr/TKLC/dsr/prod/maint/loaders/.</li> <li>• Execute the feature deactivation script.</li> <li>• Log into NOAM or SOAM GUI.</li> <li>• Verify the RBAR folder.</li> <li>• Restart each active DA-MP server.</li> <li>• Log into NOAM GUI.</li> <li>• Verify Maintenance screen.</li> </ul> | RBAR is deactivated |

### 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 8. Post-Feature Deactivation Overview**

| Procedure                          | Elapsed Time (Hours:Minutes) |      | Activity Deactivation Procedures  | Impact |
|------------------------------------|------------------------------|------|---|--------|
|                                    | This Step                    | Cum. |   |        |
| Perform Health Check (Procedure 8) | 0:05                         | 0:05 | <ul style="list-style-type: none"><li>• Verify server status.</li><li>• Log all current alarms.</li></ul> | None   |


## 4. Feature Activation Preparation

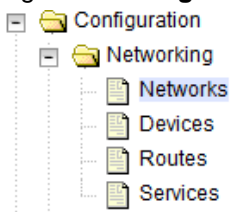
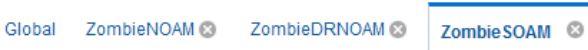


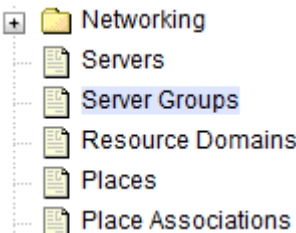
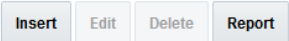

This section provides detailed procedures to prepare a system for RBAR feature activation. These procedures are executed outside a maintenance window.

### 4.1 System Topology Check

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

| STEP#  | Procedure                  | Description   |
|--|----------------------------|---|
| <p>This procedure verifies system topology.</p> <p>Check off (✓) each step as it is completed. Boxes have been provided for this purpose under each step number.</p> <p>If this procedure fails, contact My Oracle Support (MOS) and ask for assistance.</p> |                            |   |
| 1<br><input type="checkbox"/>  | <b>NOAM VIP GUI: Login</b> | <p>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:</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>http://&lt;Primary_NOAM_VIP_IP_Address&gt;</p> </div> <p>Login as the <b>guiadmin</b> user:</p>  |

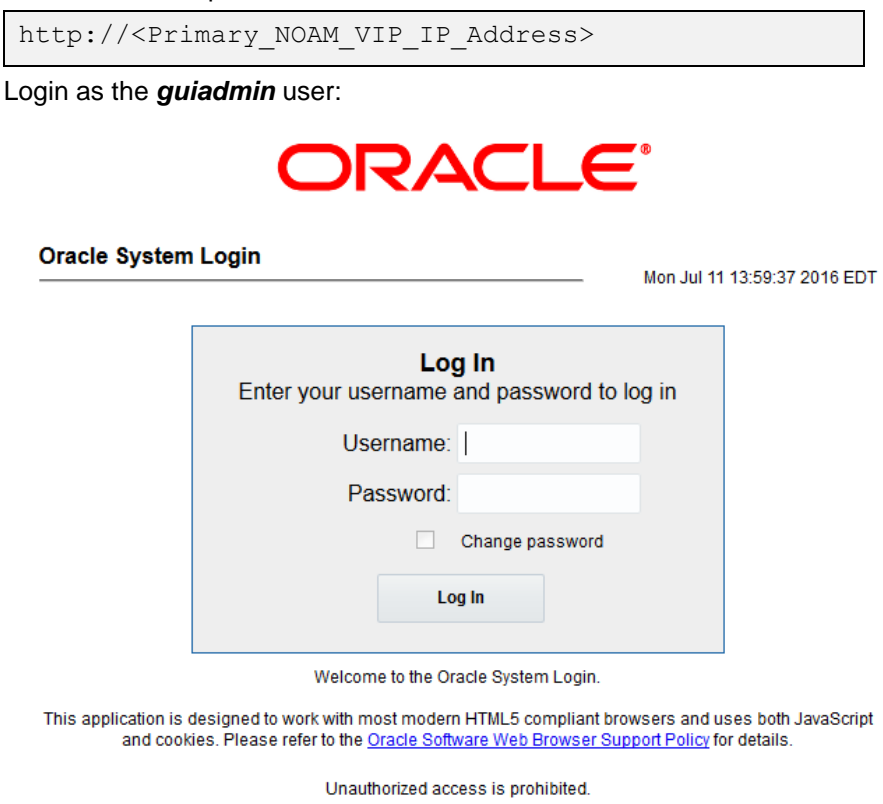
| STEP#                         | Procedure   | Description  |              |              |         |        |     |     |     |     |     |     |    |     |      |           |    |    |      |           |    |    |      |           |    |    |
|-------------------------------|---|--|--------------|--------------|---------|--------|-----|-----|-----|-----|-----|-----|----|-----|------|-----------|----|----|------|-----------|----|----|------|-----------|----|----|
| 2<br><input type="checkbox"/> | <b>NOAM VIP</b><br>GUI: Verify network configuration data | <p>Navigate to <b>Configuration -&gt; Networking -&gt; Networks</b>.</p>  <p>Select the site network element tab:</p>  <table><thead><tr><th>Network Name</th><th>Network Type</th><th>Default</th><th>Locked</th></tr></thead><tbody><tr><td>XMI</td><td>OAM</td><td>Yes</td><td>Yes</td></tr><tr><td>IMI</td><td>OAM</td><td>No</td><td>Yes</td></tr><tr><td>xsi1</td><td>Signaling</td><td>No</td><td>No</td></tr><tr><td>xsi2</td><td>Signaling</td><td>No</td><td>No</td></tr><tr><td>xsi3</td><td>Signaling</td><td>No</td><td>No</td></tr></tbody></table> <p>Click <b>Report</b>.</p>  <p>Verify the configuration data is correct for your network.<br/><b>Save</b> or <b>Print</b> this report to keep copies for future reference.</p>  | Network Name | Network Type | Default | Locked | XMI | OAM | Yes | Yes | IMI | OAM | No | Yes | xsi1 | Signaling | No | No | xsi2 | Signaling | No | No | xsi3 | Signaling | No | No |
| Network Name                  | Network Type  | Default  | Locked       |              |         |        |     |     |     |     |     |     |    |     |      |           |    |    |      |           |    |    |      |           |    |    |
| XMI                           | OAM   | Yes  | Yes          |              |         |        |     |     |     |     |     |     |    |     |      |           |    |    |      |           |    |    |      |           |    |    |
| IMI                           | OAM   | No   | Yes          |              |         |        |     |     |     |     |     |     |    |     |      |           |    |    |      |           |    |    |      |           |    |    |
| xsi1                          | Signaling   | No   | No           |              |         |        |     |     |     |     |     |     |    |     |      |           |    |    |      |           |    |    |      |           |    |    |
| xsi2                          | Signaling   | No   | No           |              |         |        |     |     |     |     |     |     |    |     |      |           |    |    |      |           |    |    |      |           |    |    |
| xsi3                          | Signaling   | No   | No           |              |         |        |     |     |     |     |     |     |    |     |      |           |    |    |      |           |    |    |      |           |    |    |
| 3<br><input type="checkbox"/> | <b>NOAM VIP</b><br>GUI: Verify server configuration       | <p>Navigate to <b>Configuration -&gt; Server Groups</b>.</p>  <p>Click <b>Report</b>.</p>  <p>Verify the configuration data is correct for your network.<br/><b>Save</b> or <b>Print</b> this report to keep copies for future reference.</p>   |              |              |         |        |     |     |     |     |     |     |    |     |      |           |    |    |      |           |    |    |      |           |    |    |

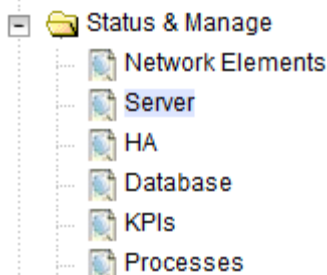
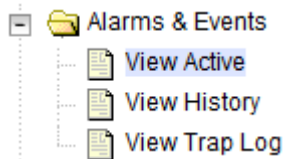
| STEP#                         | Procedure                               | Description  |
|-------------------------------|---|--|
| 4<br><input type="checkbox"/> | Analyze and plan DA-MP restart sequence | <p>Analyze system topology and plan for any DA-MPs which will be out-of-service during the feature activation sequence.</p> <p>Analyze system topology gathered in Steps 2 and 3.</p> <p>Determine exact sequence which DA-MP servers will be restarted (with the expected out-of-service periods).</p> <p><b>Note:</b> It is recommended that no more than 50% of the MPs be restarted at once.</p> |

## 4.2 Perform Health Check

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 may 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.

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

| STEP#  | Procedure                  | Description   |
|--|----------------------------|---|
| <p>This procedure provides steps to perform needed health checks.</p> <p>Check off (✓) each step as it is completed. Boxes have been provided for this purpose under each step number.</p> <p>If this procedure fails, contact My Oracle Support (MOS) and ask for assistance.</p> |                            |   |
| 1<br><input type="checkbox"/>  | <b>NOAM VIP GUI: Login</b> | <p>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:</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>http://&lt;Primary_NOAM_VIP_IP_Address&gt;</p> </div> <p>Login as the <b>guiadmin</b> user:</p>  <p>Welcome to the Oracle System Login.</p> <p>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</a> for details.</p> <p>Unauthorized access is prohibited.</p> |

| STEP#                         | Procedure                                    | Description  |                  |      |    |                  |      |         |      |      |      |      |         |      |      |      |      |         |      |      |      |      |         |      |      |      |      |
|-------------------------------|--|--|------------------|------|----|------------------|------|---------|------|------|------|------|---------|------|------|------|------|---------|------|------|------|------|---------|------|------|------|------|
| 2<br><input type="checkbox"/> | <b>NOAM VIP</b><br>GUI: Verify server status | <p>Navigate to <b>Status &amp; Manage -&gt; Server</b>.</p>  <p>Verify all Server Status is Normal (Norm) for:<br/>Alarm (Alm), Database (DB), Replication Status, and Processes (Proc).</p> <table><tr><th>Appl State</th><th>Alm</th><th>DB</th><th>Reporting Status</th><th>Proc</th></tr><tr><td>Enabled</td><td>Norm</td><td>Norm</td><td>Norm</td><td>Norm</td></tr><tr><td>Enabled</td><td>Norm</td><td>Norm</td><td>Norm</td><td>Norm</td></tr><tr><td>Enabled</td><td>Norm</td><td>Norm</td><td>Norm</td><td>Norm</td></tr><tr><td>Enabled</td><td>Norm</td><td>Norm</td><td>Norm</td><td>Norm</td></tr></table> <p>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.</p> <p>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 may be able to proceed in the presence of certain Major or Critical alarms. Contact My Oracle Support (MOS) for assistance as necessary.</p> | 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 |
| 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 |    |                  |      |         |      |      |      |      |         |      |      |      |      |         |      |      |      |      |         |      |      |      |      |
| 3<br><input type="checkbox"/> | <b>NOAM VIP</b><br>GUI: Log current alarms   | <p>Navigate to <b>Alarms &amp; Events -&gt; View Active</b>.</p>  <p>Click <b>Report</b>.</p> <div><div>Export</div><div>Report</div><div>Clear Selections</div></div> <p><b>Save</b> or <b>Print</b> this report to keep copies for future reference.</p> <div><div>Print</div><div>Save</div><div>Back</div></div>  |                  |      |    |                  |      |         |      |      |      |      |         |      |      |      |      |         |      |      |      |      |         |      |      |      |      |

## 5. Feature Activation

Before feature activation, perform the system health check in Section 4.2. 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 (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 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 Perform Health Check

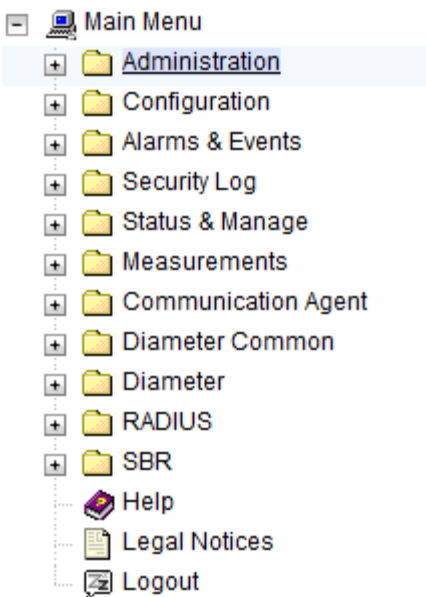

This procedure is used to determine the health and status of the network and servers. This must be executed at the start of every maintenance window.

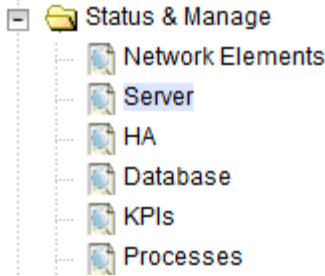
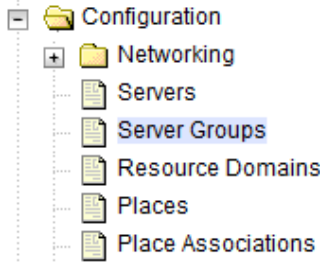
**Note:** The Health Check procedure below is the same as the Health Check procedure described in Section 4.2 when preparing for feature activation, but it is repeated here to emphasize that it is being re-executed if Section 4.2 was performed outside the maintenance window.

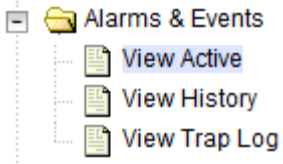


### Procedure 3: Perform Health Check (Pre Feature Activation)

| STEP#   | Procedure                  | Description  |
|---|----------------------------|--|
| <p>This procedure performs needed health checks.</p> <p>Check off (✓) each step as it is completed. Boxes have been provided for this purpose under each step number.</p> <p>If this procedure fails, contact My Oracle Support (MOS) and ask for assistance.</p> |                            |  |
| 1<br><input type="checkbox"/>   | <b>SOAM VIP GUI: Login</b> | <p>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:</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <code>http://&lt;Primary_SOAM_VIP_IP_Address&gt;</code> </div> <p>Login as the <b>guiadmin</b> user:</p>  <p>Welcome to the Oracle System Login.</p> <p>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</a> for details.</p> <p>Unauthorized access is prohibited.</p> <p>Oracle and Java are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.</p> <p>Copyright © 2010, 2016, <a href="#">Oracle</a> and/or its affiliates. All rights reserved.</p> |



| STEP#                         | Procedure  | Description   |
|-------------------------------|--|---|
| 2<br><input type="checkbox"/> | <b>NOAM VIP GUI:</b> Verify RBAR folder is not present | <p>Under <b>Main Menu</b>, verify the RBAR folder is NOT present.</p>    |
| 3<br><input type="checkbox"/> | <b>NOAM VIP GUI:</b> Login                             | <p>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:</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p><code>http://&lt;Primary_NOAM_VIP_IP_Address&gt;</code></p> </div> <p>Login as the <b>guiadmin</b> user:</p>  |

| STEP#                         | Procedure   | Description  |                  |      |    |                  |      |         |      |      |      |      |         |      |      |      |      |         |      |      |      |      |         |      |      |      |      |
|-------------------------------|---|--|------------------|------|----|------------------|------|---------|------|------|------|------|---------|------|------|------|------|---------|------|------|------|------|---------|------|------|------|------|
| 4<br><input type="checkbox"/> | <b>NOAM VIP</b><br>GUI: Verify server status        | <p>Navigate to <b>Status &amp; Manage -&gt; Server</b>.</p>  <p>Verify all Server Status is Normal (Norm) for:<br/>Alarm (Alm), Database (DB), Replication Status, and Processes (Proc).</p> <table><tr><th>Appl State</th><th>Alm</th><th>DB</th><th>Reporting Status</th><th>Proc</th></tr><tr><td>Enabled</td><td>Norm</td><td>Norm</td><td>Norm</td><td>Norm</td></tr><tr><td>Enabled</td><td>Norm</td><td>Norm</td><td>Norm</td><td>Norm</td></tr><tr><td>Enabled</td><td>Norm</td><td>Norm</td><td>Norm</td><td>Norm</td></tr><tr><td>Enabled</td><td>Norm</td><td>Norm</td><td>Norm</td><td>Norm</td></tr></table> <p>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.</p> <p>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 may be able to proceed in the presence of certain Major or Critical alarms. Contact My Oracle Support (MOS) for assistance as necessary.</p> | 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 |
| 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 |    |                  |      |         |      |      |      |      |         |      |      |      |      |         |      |      |      |      |         |      |      |      |      |
| 5<br><input type="checkbox"/> | <b>NOAM VIP</b><br>GUI: Verify server configuration | <p>Navigate to <b>Configuration -&gt; Server Groups</b>.</p>  <p>Verify the configuration data is correct for your network.</p>   |                  |      |    |                  |      |         |      |      |      |      |         |      |      |      |      |         |      |      |      |      |         |      |      |      |      |

| STEP#                         | Procedure                               | Description  |
|-------------------------------|---|--|
| 6<br><input type="checkbox"/> | <b>NOAM VIP GUI:</b> Log current alarms | <p>Navigate to <b>Alarms &amp; Events -&gt; View Active</b>.</p>  <p>Click <b>Report</b>.</p>  <p><b>Save or Print</b> this report to keep copies for future reference.</p>  |

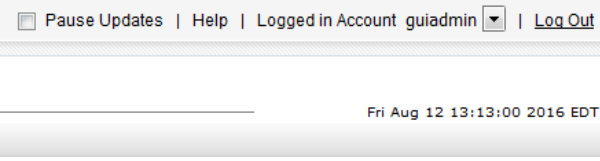
## 5.2 Activation Procedures

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


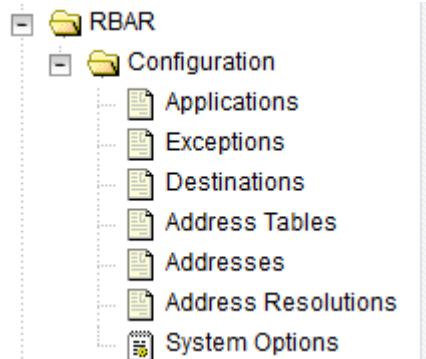
### 5.2.1 Feature Activation


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

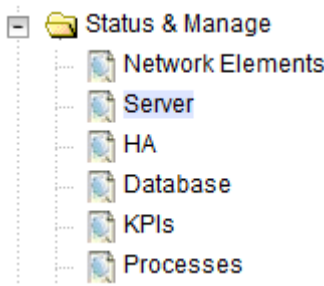
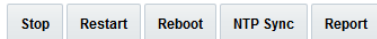
#### Procedure 4: Feature Activation

| STEP#  | Procedure   | Description   |
|--|---|---|
| <p>This procedure activates RBAR.</p> <p>Check off (✓) each step as it is completed. Boxes have been provided for this purpose under each step number.</p> <p>If this procedure fails, contact My Oracle Support (MOS) and ask for assistance.</p> |   |   |
| 1<br><input type="checkbox"/>  | <b>NOAM/SOAM VIP GUI:</b> Logout                              | <p>Logout of any active NOAM and/or SOAM GUI sessions:</p>  |
| 2<br><input type="checkbox"/>  | <b>NOAM VIP:</b> Establish an SSH session                     | Establish an SSH session to the NOAM VIP. Login as <b>admusr</b> .  |
| 3<br><input type="checkbox"/>  | <b>NOAM VIP:</b> Navigate to the feature activation directory | <p>Navigate to the feature activation directory by executing the following command:</p> <pre>\$ cd /usr/TKLC/dsr/prod/maint/loaders/</pre>      |

| STEP#                         | Procedure   | Description  |
|-------------------------------|---|--|
| 4<br><input type="checkbox"/> | <b>NOAM VIP:</b><br>Execute the feature activation script | <p>Run the feature activation script by executing the following command:</p> <pre>\$ ./featureActivateDeactivate</pre> <p>Select <b>Activate</b>.</p> <pre>You want to Activate or Deactivate the Feature : 1.Activate 2.Deactivate  Enter your choice : █</pre> <p>Select <b>RBAR</b>.</p> <pre>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 Application</pre> <p>Select the SOAM site for which the application will be activated:</p> <p><b>Note:</b> As an alternative, you can also activate on all SOAM sites:</p> <pre>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 : █</pre> <p>Refer to Section 7.1 for output example.</p> |

| STEP#                         | Procedure  | Description  |
|-------------------------------|--|--|
| 5<br><input type="checkbox"/> | <b>Active SOAM GUI:</b><br>Login                             | <p>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:</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <code>http://&lt;Active_SOAM_IP_Address&gt;</code> </div> <p>Login as the <b>guiadmin</b> user:</p>  |
| 6<br><input type="checkbox"/> | <b>Active SOAM GUI:</b><br>Verify the RBAR folder is visible | <p>Locate and verify the RBAR folder from the Main Menu is visible and the configuration folder items are present.</p>    |

| STEP#                         | Procedure   | Description  |      |              |          |     |     |     |     |      |              |          |     |     |     |     |
|-------------------------------|---|--|------|--------------|----------|-----|-----|-----|-----|------|--------------|----------|-----|-----|-----|-----|
| 7<br><input type="checkbox"/> | <b>Active SOAM GUI:</b><br>Verify application maintenance screen is visible | <p>Verify the RBAR application is present in the Application Status screen. Navigate to <b>Diameter -&gt; Maintenance -&gt; Applications</b>.</p> <table><tr><td>RBAR</td><td>ZombieDAM P1</td><td>Disabled</td><td>Unk</td><td>Unk</td><td>Unk</td><td>Unk</td></tr><tr><td>RBAR</td><td>ZombieDAM P2</td><td>Disabled</td><td>Unk</td><td>Unk</td><td>Unk</td><td>Unk</td></tr></table> <p>Verify RBAR status is uninitialized. The following data should display:<br/>Admin State = Disabled<br/>Operational Status = Unk<br/>Operational Reason =Unk<br/>Congestion Level = Unk</p>  | RBAR | ZombieDAM P1 | Disabled | Unk | Unk | Unk | Unk | RBAR | ZombieDAM P2 | Disabled | Unk | Unk | Unk | Unk |
| RBAR                          | ZombieDAM P1  | Disabled   | Unk  | Unk          | Unk      | Unk |     |     |     |      |              |          |     |     |     |     |
| RBAR                          | ZombieDAM P2  | Disabled   | Unk  | Unk          | Unk      | Unk |     |     |     |      |              |          |     |     |     |     |
| 8<br><input type="checkbox"/> | <b>Standby SOAM GUI:</b><br>Repeat verification steps                       | <p>Repeat steps 5-7 for the standby SOAM.</p> <p><b>Note:</b> If the verifications for the standby SOAM differ from the active SOAM, stop and contact My Oracle Support (MOS).</p>   |      |              |          |     |     |     |     |      |              |          |     |     |     |     |
| 9<br><input type="checkbox"/> | <b>SOAM VIP GUI:</b> Login  | <p>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:</p> <div><p>http://&lt;Primary_SOAM_VIP_IP_Address&gt;</p></div> <p>Login as the <b>guiadmin</b> user:</p> <div></div> <p>Welcome to the Oracle System Login.</p> <p>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</a> for details.</p> <p>Unauthorized access is prohibited.</p> <hr/> <p>Oracle and Java are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.</p> <p>Copyright © 2010, 2016, <a href="#">Oracle</a> and/or its affiliates. All rights reserved.</p> |      |              |          |     |     |     |     |      |              |          |     |     |     |     |

| STEP#                          | Procedure   | Description   |                    |                    |                  |                          |                    |                  |                     |      |        |          |             |           |        |                          |
|--------------------------------|---|---|--------------------|--------------------|------------------|--------------------------|--------------------|------------------|---------------------|------|--------|----------|-------------|-----------|--------|--------------------------|
| 10<br><input type="checkbox"/> | <b>SOAM VIP GUI:</b><br>Restart DA-MPs                                      | <p>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.</p> <p>Navigate to <b>Status &amp; Manage -&gt; Server</b>.</p> <div></div> <p>Select the desired DA-MPs, press <b>Ctrl</b> to select multiple DA-MPs at once. Click <b>Restart</b>.</p> <div></div> <p>Click <b>OK</b> to confirm</p> <p>Verify the server changes to the Err state and wait until it returns to the Enabled/Norm state.</p> <p>Repeat for the additional DA-MPs.</p> |                    |                    |                  |                          |                    |                  |                     |      |        |          |             |           |        |                          |
| 11<br><input type="checkbox"/> | <b>Active SOAM GUI:</b><br>Verify application maintenance screen is visible | <p>Verify the RBAR application is present in the Application Status screen. Navigate to <b>Diameter -&gt; Maintenance -&gt; Applications</b>.</p> <p>Table Description: Applications Table</p> <table><tr><th>Application Name</th><th>MP Server Hostname</th><th>Admin State</th><th>Operational Status</th><th>Operational Reason</th><th>Congestion Level</th><th>Time of Last Update</th></tr><tr><td>RBAR</td><td>OahuMp</td><td>Disabled</td><td>Unavailable</td><td>Shut Down</td><td>Normal</td><td>2016-Sep-14 13:42:27 EDT</td></tr></table> <p>Verify RBAR status is initialized. The following data should display:</p> <p>Admin State = Disabled</p> <p>Operational Status = Unavailable</p> <p>Operational Reason = Shutdown</p> <p>Congestion Level = Normal</p>   | 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 13:42:27 EDT |
| 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 13:42:27 EDT |                    |                  |                     |      |        |          |             |           |        |                          |

## 5.3 Post-Activation Procedures

### 5.3.1 Perform Health Check

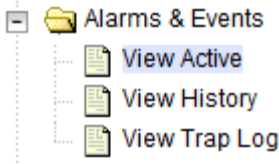


This procedure is used to determine the health and status of the DSR release network and servers.

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

| STEP# | Procedure | Description   |
|-------|-----------|---|
|       |           | <p>This procedure performs a post activation health check.</p> <p>Check off (✓) each step as it is completed. Boxes have been provided for this purpose under each step number.</p> <p>If this procedure fails, contact My Oracle Support (MOS) and ask for assistance.</p> |

| STEP#                                    | Procedure                                 | Description  |                  |      |    |                  |      |         |      |      |      |      |         |      |      |      |      |         |      |      |      |      |         |      |      |      |      |
|--|---|--|------------------|------|----|------------------|------|---------|------|------|------|------|---------|------|------|------|------|---------|------|------|------|------|---------|------|------|------|------|
| 1<br><div><input type="checkbox"/></div> | <b>NOAM VIP GUI: Login</b>                | <p>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:</p> <div><div>http://&lt;Primary_NOAM_VIP_IP_Address&gt;</div></div> <p>Login as the <b>guiadmin</b> user:</p> <div><div><div><div>ORACLE®</div><div>Oracle System Login</div><div>Mon Jul 11 13:59:37 2016 EDT</div><div><div><div>Log In</div><div>Enter your username and password to log in</div><div><div>Username: <input type="text"/></div><div>Password: <input type="password"/></div><div><input type="checkbox"/> Change password</div><div>Log In</div></div></div><div>Welcome to the Oracle System Login.</div><div>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</a> for details.</div><div>Unauthorized access is prohibited.</div><div>Oracle and Java are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.</div><div>Copyright © 2010, 2016, <a href="#">Oracle</a> and/or its affiliates. All rights reserved.</div></div></div></div></div> |                  |      |    |                  |      |         |      |      |      |      |         |      |      |      |      |         |      |      |      |      |         |      |      |      |      |
| 2<br><div><input type="checkbox"/></div> | <b>NOAM VIP GUI: Verify server status</b> | <p>Navigate to <b>Status &amp; Manage -&gt; Server</b>.</p> <div><div><div><div>Status &amp; Manage</div><div>Network Elements</div><div>Server</div><div>HA</div><div>Database</div><div>KPIs</div><div>Processes</div></div></div></div> <p>Verify all Server Status is Normal (Norm) for:</p> <p>Alarm (Alm), Database (DB), Replication Status, and Processes (Proc).</p> <table><tr><th>Appl State</th><th>Alm</th><th>DB</th><th>Reporting Status</th><th>Proc</th></tr><tr><td>Enabled</td><td>Norm</td><td>Norm</td><td>Norm</td><td>Norm</td></tr><tr><td>Enabled</td><td>Norm</td><td>Norm</td><td>Norm</td><td>Norm</td></tr><tr><td>Enabled</td><td>Norm</td><td>Norm</td><td>Norm</td><td>Norm</td></tr><tr><td>Enabled</td><td>Norm</td><td>Norm</td><td>Norm</td><td>Norm</td></tr></table>   | 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 |
| 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 |    |                  |      |         |      |      |      |      |         |      |      |      |      |         |      |      |      |      |         |      |      |      |      |



| STEP#                         | Procedure                                  | Description   |
|-------------------------------|--|---|
| 3<br><input type="checkbox"/> | <b>NOAM VIP</b><br>GUI: Log current alarms | <p>Navigate to <b>Alarms &amp; Events -&gt; View Active</b>.</p>  <p>Click <b>Report</b>.</p>  <p><b>Save</b> or <b>Print</b> this report to keep copies for future reference.</p>  <p>Compare this alarm report with those gathered in the pre-activation procedures. Contact My Oracle Support (MOS) if needed.</p> |

## 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 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

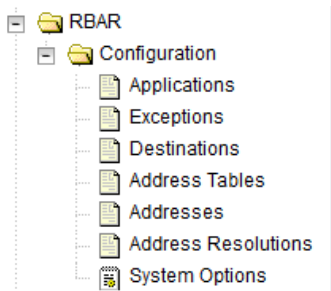

Before beginning the feature deactivation, complete the pre-deactivation procedure below.

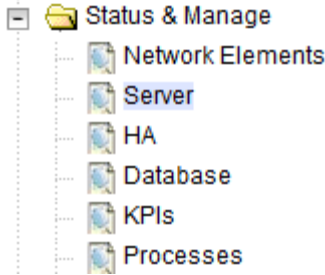
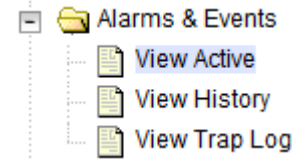

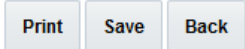
#### 6.1.1 Perform Health Check

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

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

| STEP#   | Procedure                  | Description  |
|---|----------------------------|--|
| <p>This procedure performs a health check.</p> <p>Check off (✓) each step as it is completed. Boxes have been provided for this purpose under each step number.</p> <p>If this procedure fails, contact My Oracle Support (MOS) and ask for assistance.</p> |                            |  |
| 1<br><input type="checkbox"/>   | <b>SOAM VIP GUI: Login</b> | <p>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:</p> <div style="border: 1px solid black; padding: 2px; margin: 5px 0;"> <code>http://&lt;Primary_SOAM_VIP_IP_Address&gt;</code> </div> <p>Login as the <b>guiadmin</b> user:</p>  |

| STEP#                         | Procedure  | Description   |
|-------------------------------|--|---|
| 2<br><input type="checkbox"/> | <b>SOAM VIP GUI:</b> Verify the RBAR folder is visible | <p>Locate and verify the RBAR folder from Main Menu is visible and the configuration folder items are present.</p>  <p><b>Note:</b> 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.</p> |
| 3<br><input type="checkbox"/> | <b>NOAM VIP GUI:</b> Login                             | <p>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:</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">       http://&lt;Primary_NOAM_VIP_IP_Address&gt;     </div> <p>Login as the <b>guiadmin</b> user:</p>       |

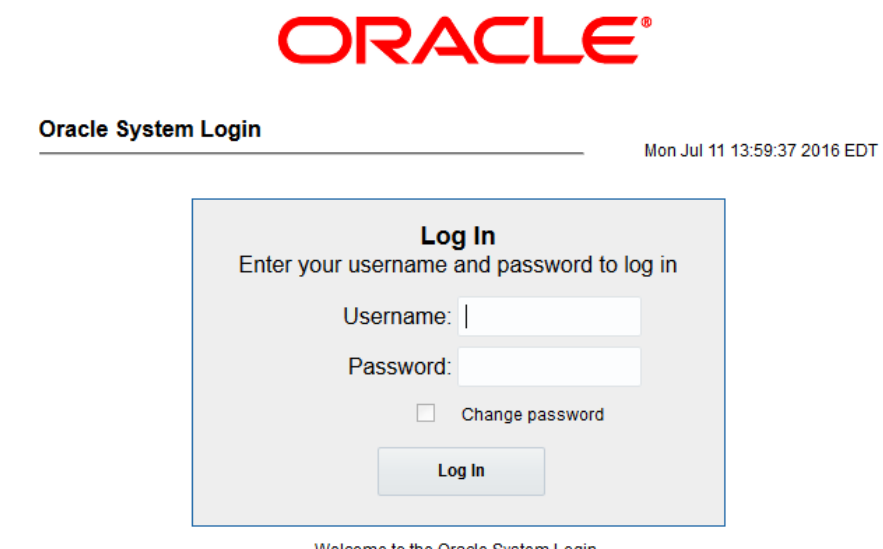
| STEP#                         | Procedure                                    | Description   |                  |             |    |                  |      |         |             |      |      |             |         |             |      |      |      |         |      |             |      |      |         |      |      |      |             |
|-------------------------------|--|---|------------------|-------------|----|------------------|------|---------|-------------|------|------|-------------|---------|-------------|------|------|------|---------|------|-------------|------|------|---------|------|------|------|-------------|
| 4<br><input type="checkbox"/> | <b>NOAM VIP</b><br>GUI: Verify server status | <p>Navigate to <b>Status &amp; Manage -&gt; Server</b>.</p>  <p>Verify all Server Status is Normal (Norm) for:<br/>Alarm (Alm), Database (DB), Replication Status, and Processes (Proc).</p> <table><tr><th>Appl State</th><th>Alm</th><th>DB</th><th>Reporting Status</th><th>Proc</th></tr><tr><td>Enabled</td><td><u>Norm</u></td><td>Norm</td><td>Norm</td><td><u>Norm</u></td></tr><tr><td>Enabled</td><td><u>Norm</u></td><td>Norm</td><td>Norm</td><td>Norm</td></tr><tr><td>Enabled</td><td>Norm</td><td><u>Norm</u></td><td>Norm</td><td>Norm</td></tr><tr><td>Enabled</td><td>Norm</td><td>Norm</td><td>Norm</td><td><u>Norm</u></td></tr></table> | Appl State       | Alm         | DB | Reporting Status | Proc | Enabled | <u>Norm</u> | Norm | Norm | <u>Norm</u> | Enabled | <u>Norm</u> | Norm | Norm | Norm | Enabled | Norm | <u>Norm</u> | Norm | Norm | Enabled | Norm | Norm | Norm | <u>Norm</u> |
| Appl State                    | Alm  | DB  | Reporting Status | Proc        |    |                  |      |         |             |      |      |             |         |             |      |      |      |         |      |             |      |      |         |      |      |      |             |
| Enabled                       | <u>Norm</u>                                  | Norm  | Norm             | <u>Norm</u> |    |                  |      |         |             |      |      |             |         |             |      |      |      |         |      |             |      |      |         |      |      |      |             |
| Enabled                       | <u>Norm</u>                                  | Norm  | Norm             | Norm        |    |                  |      |         |             |      |      |             |         |             |      |      |      |         |      |             |      |      |         |      |      |      |             |
| Enabled                       | Norm   | <u>Norm</u>   | Norm             | Norm        |    |                  |      |         |             |      |      |             |         |             |      |      |      |         |      |             |      |      |         |      |      |      |             |
| Enabled                       | Norm   | Norm  | Norm             | <u>Norm</u> |    |                  |      |         |             |      |      |             |         |             |      |      |      |         |      |             |      |      |         |      |      |      |             |
| 5<br><input type="checkbox"/> | <b>NOAM VIP</b><br>GUI: Log current alarms   | <p>Navigate to <b>Alarms &amp; Events -&gt; View Active</b>.</p>  <p>Click <b>Report</b>.</p>  <p><b>Save</b> or <b>Print</b> this report to keep copies for future reference.</p>  <p>Compare this alarm report with those gathered in the pre-activation procedures.<br/>Contact My Oracle Support (MOS) if needed.</p>  |                  |             |    |                  |      |         |             |      |      |             |         |             |      |      |      |         |      |             |      |      |         |      |      |      |             |

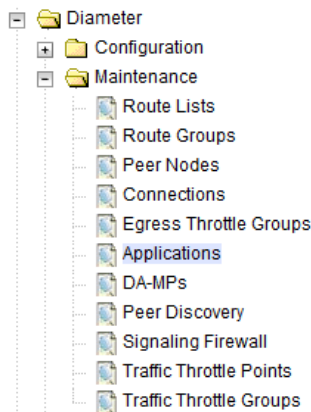
## 6.2 Deactivation Procedures

### 6.2.1 Feature Deactivation

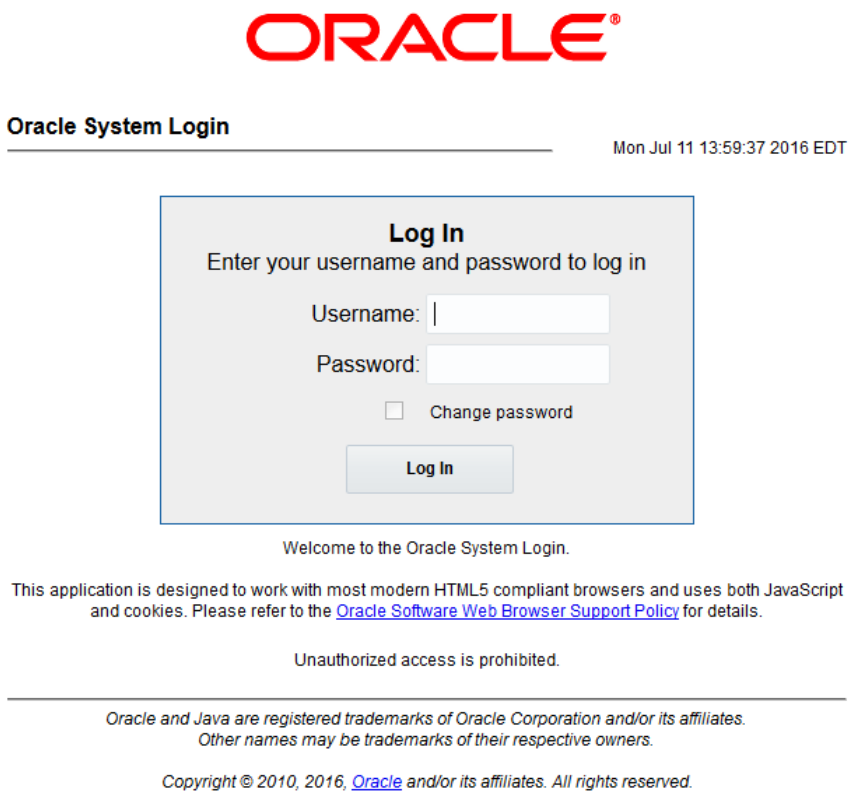
This section provides the detailed steps of the RBAR deactivation procedures.

#### Procedure 7: Feature Deactivate


| STEP#  | Procedure                  | Description  |
|--|----------------------------|--|
| <p>This procedure deactivates RBAR.</p> <p>Check off (✓) each step as it is completed. Boxes have been provided for this purpose under each step number.</p> <p>If this procedure fails, contact My Oracle Support (MOS) and ask for assistance.</p> |                            |  |
| 1<br><input type="checkbox"/>  | <b>SOAM VIP GUI: Login</b> | <p>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:</p> <div style="border: 1px solid black; padding: 2px; margin: 5px 0;"> <code>http://&lt;Primary_SOAM_VIP_IP_Address&gt;</code> </div> <p>Login as the <b>guiadmin</b> user:</p>  |

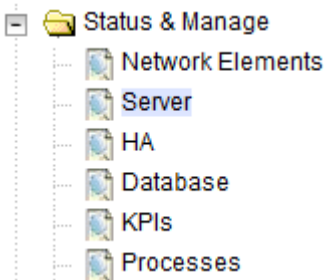
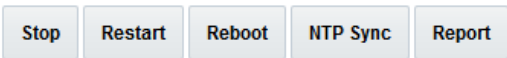
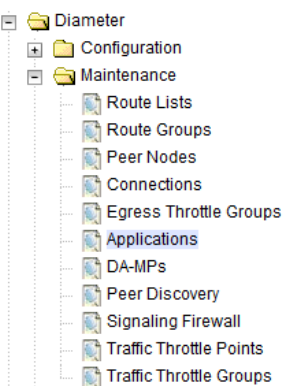
| STEP#                                    | Procedure  | Description  |                    |                    |                  |                          |                    |                  |                     |      |        |          |             |           |        |                          |
|--|--|--|--------------------|--------------------|------------------|--------------------------|--------------------|------------------|---------------------|------|--------|----------|-------------|-----------|--------|--------------------------|
| 2<br><div><input type="checkbox"/></div> | <b>Active SOAM GUI:</b><br>Disable RBAR application              | <div>Navigate to <b>Diameter -&gt; Maintenance -&gt; Applications</b>.</div> <div></div> <div>Select the RBAR applications to disable.<br/>Click <b>Disable</b>.</div> <div><div><div>Enable</div><div>Disable</div><div><input type="checkbox"/> Pause updates</div></div></div> <div>Click <b>OK</b> to confirm.</div> <div><div>Table Description: Applications Table</div><table><tr><th>Application Name</th><th>MP Server Hostname</th><th>Admin State</th><th>Operational Status</th><th>Operational Reason</th><th>Congestion Level</th><th>Time of Last Update</th></tr><tr><td>RBAR</td><td>OahuMp</td><td>Disabled</td><td>Unavailable</td><td>Shut Down</td><td>Normal</td><td>2016-Sep-14 13:47:39 EDT</td></tr></table></div> | 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 |
| 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 |                    |                  |                     |      |        |          |             |           |        |                          |
| 3<br><div><input type="checkbox"/></div> | <b>NOAM/SOAM VIP GUI:</b><br>Logout                              | <div>Logout of any active NOAM and/or SOAM GUI sessions:</div> <div><div><div><input type="checkbox"/> Pause Updates</div><div> </div><div>Help</div><div> </div><div>Logged in Account</div><div>guiadmin</div><div><div></div></div><div> </div><div>Log Out</div></div></div> <div><div></div><div>Tue Aug 16 10:13:52 2016 EDT</div></div>   |                    |                    |                  |                          |                    |                  |                     |      |        |          |             |           |        |                          |
| 4<br><div><input type="checkbox"/></div> | <b>NOAM VIP:</b><br>Establish an SSH session                     | Establish an SSH session to the NOAM VIP. Login as <b>admusr</b> .   |                    |                    |                  |                          |                    |                  |                     |      |        |          |             |           |        |                          |
| 5<br><div><input type="checkbox"/></div> | <b>NOAM VIP:</b><br>Navigate to the feature activation directory | <div>Navigate to the feature activation directory by executing the following command:</div> <div><div>\$ cd /usr/TKLC/dsr/prod/maint/loaders/</div></div>  |                    |                    |                  |                          |                    |                  |                     |      |        |          |             |           |        |                          |

| STEP#                         | Procedure   | Description  |
|-------------------------------|---|--|
| 6<br><input type="checkbox"/> | <b>NOAM VIP:</b><br>Execute the feature activation script | <p>Run the feature activation script by executing the following command:</p> <pre>\$ ./featureActivateDeactivate</pre> <p>Select <b>Deactivate</b>.</p> <pre>You want to Activate or Deactivate the Feature : 1.Activate 2.Deactivate  Enter your choice : 2</pre> <p>Select <b>RBAR</b>.</p> <pre>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</pre> <p>Select the SOAM site for which the application will be deactivated:</p> <p><b>Note:</b> As an alternative, you can also deactivate on all SOAM sites:</p> <pre>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 : 2</pre> <p>Refer to Section 7.2 for output example.</p> |

| STEP#                          | Procedure  | Description   |
|--------------------------------|--|---|
| 7<br><input type="checkbox"/>  | <b>Active SOAM GUI:</b><br>Login                                 | <p>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:</p> <div style="border: 1px solid black; padding: 2px; margin: 5px 0;">http://&lt;Active_SOAM_IP_Address&gt;</div> <p>Login as the <b>guiadmin</b> user:</p>  <p>Welcome to the Oracle System Login.</p> <p>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</a> for details.</p> <p>Unauthorized access is prohibited.</p> <p><small>Oracle and Java are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.</small></p> <p><small>Copyright © 2010, 2016, <a href="#">Oracle</a> and/or its affiliates. All rights reserved.</small></p> |
| 8<br><input type="checkbox"/>  | <b>Active SOAM GUI:</b><br>Verify the RBAR folder is not visible | Verify the RBAR folder is not visible under Main Menu.  |
| 9<br><input type="checkbox"/>  | <b>Standby SOAM GUI:</b><br>Repeat verification steps            | <p>Repeat steps 7-8 for the standby SOAM.</p> <p><b>Note:</b> If the verifications for the standby SOAM differ from the active SOAM, stop and contact My Oracle Support (MOS).</p>  |
| 10<br><input type="checkbox"/> | <b>Spare SOAM GUI:</b><br>Verify and deactivate                  | <p>Repeat steps 7-8 for any spare SOAMs present.</p> <p><b>Note:</b> If the verifications for the standby SOAM differ from the active SOAM, stop and contact My Oracle Support (MOS).</p>   |



| STEP#                          | Procedure                  | Description  |
|--------------------------------|----------------------------|--|
| 11<br><input type="checkbox"/> | <b>SOAM VIP GUI: Login</b> | <p>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:</p> <div style="border: 1px solid black; padding: 2px; margin: 5px 0;"> <code>http://&lt;Primary_SOAM_VIP_IP_Address&gt;</code> </div> <p>Login as the <b>guiadmin</b> user:</p>  |

| STEP#                          | Procedure                                      | Description   |
|--------------------------------|--|---|
| 12<br><input type="checkbox"/> | <b>SOAM VIP GUI:</b><br>Restart DA-MPs         | <p>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.</p> <p>Navigate to <b>Status &amp; Manage -&gt; Server</b>.</p>  <p>Select the desired DA-MPs. Press <b>Ctrl</b> to select multiple DA-MPs at once. Click <b>Restart</b>.</p>  <p>Click <b>OK</b> to confirm.</p> <p>Verify the server changes to the Err state and wait until it returns to the Enabled/Norm state.</p> <p>Repeat for the additional DA-MPs.</p> |
| 13<br><input type="checkbox"/> | <b>SOAM VIP GUI:</b> Verify maintenance screen | <p>Navigate to <b>Diameter -&gt; Maintenance -&gt; Applications</b>.</p>  <p>Verify the RBAR application is not present.</p>   |


### 6.3 Post-Deactivation Procedures

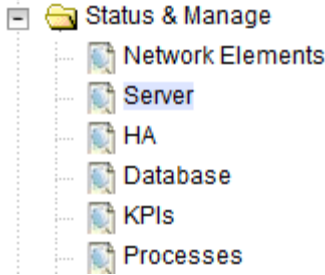
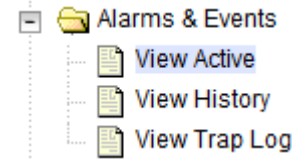
To complete a deactivation, complete the Post-Deactivation by following the procedures in this chapter.

#### 6.3.1 Perform Health Check

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

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

| STEP#   | Procedure                  | Description  |
|---|----------------------------|--|
| <p>This procedure performs a post activation health check.</p> <p>Check off (✓) each step as it is completed. Boxes have been provided for this purpose under each step number.</p> <p>If this procedure fails, contact My Oracle Support (MOS) and ask for assistance.</p> |                            |  |
| 1<br><input type="checkbox"/>   | <b>NOAM VIP GUI: Login</b> | <p>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:</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p><code>http://&lt;Primary_NOAM_VIP_IP_Address&gt;</code></p> </div> <p>Login as the <b>guiadmin</b> user:</p>  |

| STEP#                         | Procedure                                    | Description   |                  |             |    |                  |      |         |             |      |      |             |         |             |      |      |      |         |      |             |      |      |         |      |      |      |             |
|-------------------------------|--|---|------------------|-------------|----|------------------|------|---------|-------------|------|------|-------------|---------|-------------|------|------|------|---------|------|-------------|------|------|---------|------|------|------|-------------|
| 2<br><input type="checkbox"/> | <b>NOAM VIP</b><br>GUI: Verify server status | <p>Navigate to <b>Status &amp; Manage -&gt; Server</b>.</p>  <p>Verify all Server Status is Normal (Norm) for:<br/>Alarm (Alm), Database (DB), Replication Status, and Processes (Proc).</p> <table><tr><th>Appl State</th><th>Alm</th><th>DB</th><th>Reporting Status</th><th>Proc</th></tr><tr><td>Enabled</td><td><u>Norm</u></td><td>Norm</td><td>Norm</td><td><u>Norm</u></td></tr><tr><td>Enabled</td><td><u>Norm</u></td><td>Norm</td><td>Norm</td><td>Norm</td></tr><tr><td>Enabled</td><td>Norm</td><td><u>Norm</u></td><td>Norm</td><td>Norm</td></tr><tr><td>Enabled</td><td>Norm</td><td>Norm</td><td>Norm</td><td><u>Norm</u></td></tr></table> | Appl State       | Alm         | DB | Reporting Status | Proc | Enabled | <u>Norm</u> | Norm | Norm | <u>Norm</u> | Enabled | <u>Norm</u> | Norm | Norm | Norm | Enabled | Norm | <u>Norm</u> | Norm | Norm | Enabled | Norm | Norm | Norm | <u>Norm</u> |
| Appl State                    | Alm  | DB  | Reporting Status | Proc        |    |                  |      |         |             |      |      |             |         |             |      |      |      |         |      |             |      |      |         |      |      |      |             |
| Enabled                       | <u>Norm</u>                                  | Norm  | Norm             | <u>Norm</u> |    |                  |      |         |             |      |      |             |         |             |      |      |      |         |      |             |      |      |         |      |      |      |             |
| Enabled                       | <u>Norm</u>                                  | Norm  | Norm             | Norm        |    |                  |      |         |             |      |      |             |         |             |      |      |      |         |      |             |      |      |         |      |      |      |             |
| Enabled                       | Norm   | <u>Norm</u>   | Norm             | Norm        |    |                  |      |         |             |      |      |             |         |             |      |      |      |         |      |             |      |      |         |      |      |      |             |
| Enabled                       | Norm   | Norm  | Norm             | <u>Norm</u> |    |                  |      |         |             |      |      |             |         |             |      |      |      |         |      |             |      |      |         |      |      |      |             |
| 3<br><input type="checkbox"/> | <b>NOAM VIP</b><br>GUI: Log current alarms   | <p>Navigate to <b>Alarms &amp; Events -&gt; View Active</b>.</p>  <p>Click <b>Report</b>.</p> <div><div>Export</div><div>Report</div><div>Clear Selections</div></div> <p><b>Save</b> or <b>Print</b> this report to keep copies for future reference.</p> <div><div>Print</div><div>Save</div><div>Back</div></div> <p>Compare this alarm report with those gathered in the pre-Deactivation procedures. Contact My Oracle Support (MOS) if needed.</p>  |                  |             |    |                  |      |         |             |      |      |             |         |             |      |      |      |         |      |             |      |      |         |      |      |      |             |

## 7. Engineering Notes

**FIPS integrity verification test failed:** 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)

Run script to activate RBAR feature:

```
=====S-T-A-R-T=====

=====
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=17
group_id=7000
group_name=RBAR Configuration Permissions
=====
FIPS integrity verification test failed.
=====
The Active SO server configured in the Topology are
=====
1. S01
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 S01
FIPS integrity verification test failed.
=====
Current server is HA ACTIVE
=====
Add RBAR to DsrApplication. If already present, do not update - display a
warning 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
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.
=====
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] :
n
[admusr@NO1 loaders]$

```

## 7.2 Sample Output of De-Activation (Active NOAM)

Run script to deactivate RBAR feature:

```

=====S-T-A-R-T=====

=====
Execution of Activation/Deactivation Process Starts
=====
Starting Activation/Deactivation process....
=====
The Active SO server configured in the Topology are
=====
1. S01
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 S01
FIPS integrity verification test failed.
=====
RBAR is activated on S01
=====
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 : SO1
```

```
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
6              1              No 05/18/2015 16:28:13.000          27
0
```

```
=====
=== 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 ===
```

```
=====
=== deleted 1 records ===
```

```
=====
=== deleted 1 records ===
```

```
=====
=== deleted 1 records ===
```

```
=====
=== 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.rbarDeactivateB sourced
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
vendorId  dsrAppId appRouteTableId gxPrimeRequest  errorMessage
mcl          birthTime

    0        1          Gx_ART_Rule      RouteToAppl
0
6          1          No 05/18/2015 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 ===
=== deleted 1 records ===
=== deleted 1 records ===
=== deleted 1 records ===
=== 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
```

## Appendix A. My Oracle Support (MOS)

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

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

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

You 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.

## Appendix B. 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 may be defined as critical by prior discussion and agreement with Oracle.

## Appendix C. Locate Product Documentation on the Oracle Help Center

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

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