Oracle® Communications
Diameter Signaling Router
Release 8.0
DSR DCA Feature Activation Work Instruction
E76934 Revision 01

January 2017
Oracle Communications Diameter Signaling Router DCA framework and application activation procedure, Release 8.0

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See more information on MOS in the Appendix section.
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1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

This document defines the procedure that is executed to activate the DCA feature on DSR 8.0 (or beyond) network element (NE). This procedure may be run either 1) as part of a new DSR installation, after the standard installation is complete but before the NE is in service, or 2) on an in-service DSR NE, where the DCA feature is activated during a planned maintenance window to minimize the impact to network traffic.

This document also provides a procedure to deactivate DCA framework and applications after it has been activated. Please see Section 5.0 for a discussion of deactivation.

No additional software installation is required prior to executing this procedure. The standard DSR installation procedure has loaded all of the required software, even if the DCA feature is activated at a later time.

1.2 ACRONYMS

Table 1. Acronyms

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BNS</td>
<td>Broadband Networking Solutions</td>
</tr>
<tr>
<td>DCA</td>
<td>Diameter Custom Applications</td>
</tr>
<tr>
<td>CAPM</td>
<td>Computer-Aided Policy Making</td>
</tr>
<tr>
<td>DA-MP</td>
<td>Diameter Agent Message Processor</td>
</tr>
<tr>
<td>DB</td>
<td>Database</td>
</tr>
<tr>
<td>DSR</td>
<td>Diameter Signaling Router</td>
</tr>
<tr>
<td>FOA</td>
<td>First Office Application</td>
</tr>
<tr>
<td>GUI</td>
<td>Graphical User Interface</td>
</tr>
<tr>
<td>HA</td>
<td>High Availability</td>
</tr>
<tr>
<td>IMI</td>
<td>Internal Management Interface</td>
</tr>
<tr>
<td>IP</td>
<td>Internet Protocol</td>
</tr>
<tr>
<td>MP</td>
<td>Message Processing or Message Processor</td>
</tr>
<tr>
<td>NE</td>
<td>Network Element</td>
</tr>
<tr>
<td>NO</td>
<td>Network OAM</td>
</tr>
<tr>
<td>NOAM</td>
<td>Network OAM</td>
</tr>
<tr>
<td>OAM</td>
<td>Operations, Administration and Maintenance</td>
</tr>
<tr>
<td>SSH</td>
<td>Secure Shell</td>
</tr>
<tr>
<td>UI</td>
<td>User Interface</td>
</tr>
<tr>
<td>VIP</td>
<td>Virtual IP</td>
</tr>
<tr>
<td>VPN</td>
<td>Virtual Private Network</td>
</tr>
<tr>
<td>XMI</td>
<td>External Management Interface</td>
</tr>
</tbody>
</table>

1.3 GENERAL PROCEDURE STEP FORMAT

Figure 1 illustrates the general format of procedure steps as they appear in this document. Where it is necessary to explicitly identify the server 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).
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.

The title box describes the operations to be performed during that step.

Each command that the technician is to enter is in **10 point bold Courier font**.

<table>
<thead>
<tr>
<th>Step</th>
<th>ServerX: Connect to the console of the server</th>
<th>Establish a connection to the server using cu on the terminal server/console.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>$ cu -l /dev/ttyS7</td>
<td>$ cu -l /dev/ttyS7</td>
</tr>
</tbody>
</table>

*Figure 1. Example of a procedure step*
2.0 FEATURE ACTIVATION OVERVIEW

This section lists the required materials and information needed to execute the feature activation. In addition, provides estimates of the time required to execute the procedure. These tables can be used to estimate the total time necessary to complete the feature activation. The timing values shown are estimates only – use these tables to plan the timing of the activation, not to execute the procedure. The detailed procedure steps to be executed begin in Section 3.0

2.1 DEFINITION OF ACTIVATION FOR THE DCA FEATURE

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

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

Table 2. Behavior of DCA framework and application activation and deactivation

<table>
<thead>
<tr>
<th>SL No</th>
<th>DCA</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DCA Framework Activation</td>
<td>cgbu_eg_1096 section 4.2.1</td>
</tr>
<tr>
<td>2</td>
<td>DCA Application Activation</td>
<td>cgbu_eg_1096 section 4.2.2</td>
</tr>
<tr>
<td>3</td>
<td>DCA Application Deactivation</td>
<td>cgbu_eg_1096 section 5.2.1</td>
</tr>
<tr>
<td>4</td>
<td>DCA Framework Deactivation</td>
<td>cgbu_eg_1096 section 5.2.2</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours: Minutes)</th>
<th>Activity</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 1: System Topology Check</td>
<td>0:10-0:30</td>
<td>Step 1: Verify Network Element Configuration data.</td>
<td>None</td>
</tr>
<tr>
<td>(Procedure 1)</td>
<td></td>
<td>Step 2: Verify System Group Configuration data.</td>
<td></td>
</tr>
<tr>
<td>Step 2: Perform Health Check</td>
<td>0:01-0:05</td>
<td>Step 1: Verify DSR Release.</td>
<td>None</td>
</tr>
<tr>
<td>(Procedure 2)</td>
<td></td>
<td>Step 2: Verify Server status.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Step 3: Log all current alarms.</td>
<td></td>
</tr>
</tbody>
</table>

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. DCA Framework Activation Execution Overview

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours: Minutes)</th>
<th>Activity</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perform Health Check (Procedure 3)</td>
<td>0:01-0:05</td>
<td>Step 1: Verify DSR Release.</td>
<td>None</td>
</tr>
<tr>
<td>DCA Framework Activation (Procedure 4)</td>
<td>0:10-0:30</td>
<td>Step 1: Log out of NOAM GUI.</td>
<td>DCA framework is activated on DSR</td>
</tr>
</tbody>
</table>

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

### Table 5. DCA Application Activation Execution Overview

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours: Minutes)</th>
<th>Activity</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCA Framework Activation (Procedure 5)</td>
<td>0:10-0:30</td>
<td>Step 1: Log out of NOAM GUI.</td>
<td>DCA application is activated on DSR</td>
</tr>
</tbody>
</table>

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 6. Post-Feature Activation Overview

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours: Minutes)</th>
<th>Activity</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perform Health Check (Procedure 6)</td>
<td>0:01-0:05</td>
<td>Step 1: Verify Server status.</td>
<td>DCA has been activated on DSR</td>
</tr>
</tbody>
</table>

2.3 **FEATURE DEACTIVATION OVERVIEW**

2.3.1 **Pre-Feature Deactivation Overview**

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

### Table 7. Pre-Feature Deactivation Overview
### Table 8. Dca Application Deactivation Overview

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours or Minutes)</th>
<th>Activity</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deactivation Setup</td>
<td>0:10-0:30</td>
<td>0:10-0:30</td>
<td>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.</td>
</tr>
<tr>
<td>Deactivation (Procedure 8)</td>
<td>00:10-00:20</td>
<td>0:20-0:50</td>
<td>Step 1: Log out of Active NOAM GUI. Step 2: SSH into active NO. Step 3: Change directory. Step 4: Execute the feature deactivation script. Step 5: Log into Active NOAM and SOAM GUI. Step 6: Verify the DCA application folder. Step 7: Close SSH connections to both NOAMs</td>
</tr>
</tbody>
</table>

### Table 9. Dca Framework Deactivation Overview

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours or Minutes)</th>
<th>Activity</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deactivation Setup</td>
<td>0:10-0:30</td>
<td>0:10-0:30</td>
<td>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.</td>
</tr>
<tr>
<td>Deactivation (Procedure 9)</td>
<td>00:10-00:20</td>
<td>0:20-0:50</td>
<td>Step 1: Log out of Active NOAM GUI. Step 2: SSH into active NO. Step 3: Change directory. Step 4: Execute the feature deactivation script. Step 5: Log into Active NOAM and SOAM GUI. Step 6: Verify the DCA folder. Step 7: Close SSH connections to NOAM</td>
</tr>
</tbody>
</table>

### 2.3.3 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.
preparation that must be done. Times may vary due to differences in database size, network configuration and loading, user experience, and user preparation.

Table 10. Post-Feature Deactivation Overview

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours or Minutes)</th>
<th>Activity</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>This Step</td>
<td>Cum. Step</td>
<td></td>
</tr>
<tr>
<td>Perform Health Check (Procedure 10)</td>
<td>0:01-0:05</td>
<td>0:01-0:05</td>
<td>None.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Step 1: Verify Server status.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Step 2: Log all current alarms.</td>
<td></td>
</tr>
</tbody>
</table>
3.0  FEATURE ACTIVATION PREPARATION

It is expected that Oracle personnel following this Feature Activation Procedure document will activate the DCA framework first on a customer’s DSR, then activate the DCA application as required for that customer.

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

3.1  HARDWARE PREPARATION

There are no hardware changes necessary.
3.2 **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**

<table>
<thead>
<tr>
<th>STEP #</th>
<th>Description</th>
<th>Instructions</th>
</tr>
</thead>
</table>
| 1      | Verify Network Element Configuration data                                   | View the Network Elements configuration data; verify the data; save and print report:  
1. Log into the NOAM VIP GUI.  
2. Select **Configuration > Network Elements** to view Network Elements Configuration screen.  
3. Click **Report** at the bottom of the table to generate a report for all entries.  
4. Verify the configuration data is correct for your network.  
5. Save the report and/or print the report. Keep these copies for future reference. |
| 2      | Verify Server Group Configuration data                                       | View the Server Group configuration data; verify the data; save and print report:  
1. Select **Configuration > Server Group** to view Server Group screen.  
2. Click **Report** at the bottom of the table to generate a report for all entries.  
3. Verify the configuration data is correct for your network.  
4. Save the report and/or print the report. Keep these copies for future reference. |
3.3 **PERFORM HEALTH CHECK**

This procedure is part of feature activation preparation and is used to determine the health and status of the DSR 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 prior to the start of the maintenance window in which the feature activation will take place.

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

<table>
<thead>
<tr>
<th>STEP #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong></td>
<td>Verify DSR Release</td>
</tr>
<tr>
<td></td>
<td>DSR Release supports the DCA feature:</td>
</tr>
<tr>
<td></td>
<td>1. Log Into the NOAM VIP GUI.</td>
</tr>
<tr>
<td></td>
<td>2. Select <strong>Administration &gt; Software Versions</strong>; the dsr Software Versions Report screen is shown.</td>
</tr>
<tr>
<td></td>
<td>3. Verify the Eagle XG DSR RPM Version shows version 8.0.0 or greater.</td>
</tr>
<tr>
<td><strong>2</strong></td>
<td>Verify Server status</td>
</tr>
<tr>
<td></td>
<td>Verify Server status:</td>
</tr>
<tr>
<td></td>
<td>1. Select <strong>Status &amp; Manage &gt; Server</strong>; the Server Maintenance screen is shown.</td>
</tr>
<tr>
<td></td>
<td>2. Verify all Server Status is Normal (Norm) for Replication (Repl), Collection (Coll), Database (DB), High Availability (HA), and Processes (Proc).</td>
</tr>
<tr>
<td></td>
<td>3. Do not proceed to feature activation if any of the following statuses is not <strong>Norm</strong>: Repl, Coll, DB, HA, Proc. 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. Contact Engineering for assistance as necessary.</td>
</tr>
<tr>
<td></td>
<td>4. 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) if necessary.</td>
</tr>
<tr>
<td><strong>3</strong></td>
<td>Log all current alarms</td>
</tr>
<tr>
<td></td>
<td>Log all current alarms in the system:</td>
</tr>
<tr>
<td></td>
<td>1. Select <strong>Alarms &amp; Events &gt; View Active</strong>; the Alarms &amp; Events &gt; View Active screen is shown.</td>
</tr>
<tr>
<td></td>
<td>2. Click <strong>Report</strong> button to generate an Alarms report.</td>
</tr>
<tr>
<td></td>
<td>3. Save the report and print the report. Keep these copies for future reference.</td>
</tr>
<tr>
<td></td>
<td>4. Select <strong>Alarms &amp; Events &gt; View History</strong> and repeat steps 2 and 3.</td>
</tr>
</tbody>
</table>
4.0 FEATURE ACTIVATION

Before feature activation, perform the system health check in Section 4.1.1. 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.

Please read the following notes on feature activation procedures:

I. 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.

II. 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).

III. Captured data is required for future support reference.

4.1 PRE-ACTIVATION PROCEDURES

4.1.1 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 3.3 when preparing for feature activation, but it is repeated here to emphasize that it is being re-executed if Section 3.3 was performed outside the maintenance window.

Procedure 3: Perform Health Check (Pre-Feature Activation)
### 4.2 ACTIVATION PROCEDURES

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

<table>
<thead>
<tr>
<th>STEP #</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Verify DSR Release</td>
<td>Verify DSR Release supports the DCA feature:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. Log Into the NOAM VIP GUI.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Select Administration &gt; Software Versions; the dsr Software Versions Report screen is shown.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Verify the Eagle XG DSR RPM Version shows version 8.0.0 or greater.</td>
</tr>
<tr>
<td>2</td>
<td>Verify that DCA Framework is not activated</td>
<td>Verify that DCA Framework folder doesn’t exist under Diameter menu on NOAM (2-Tiered) / SOAM (3-Tiered)</td>
</tr>
<tr>
<td>3</td>
<td>Verify Server status</td>
<td>Verify Server Status:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. Select Status &amp; Manage &gt; Server; the Server Maintenance screen is shown.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Verify all Server Status is Normal (Norm) for Replication (Repl), Collection (Coll), Database (DB), High Availability (HA), and Processes (Proc).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Do not proceed to feature activation if any of the following statuses is not Norm: Repl, Coll, DB, HA, Proc. 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. Contact Engineering for assistance as necessary.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. 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 Engineering for assistance as necessary.</td>
</tr>
<tr>
<td>4</td>
<td>Log all current alarms</td>
<td>Log all current alarms in the system:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. Select Alarms &amp; Events &gt; View Active; the Alarms &amp; Events &gt; View Active screen is shown.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Click Report button to generate an Alarms report.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Save the report and/or print the report. Keep these copies for future reference.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Select Alarms &amp; Events &gt; View History and repeat steps 2 and 3.</td>
</tr>
</tbody>
</table>
4.2.1 DCA Framework Activation

Detailed steps are given in the procedure below.

Procedure 4: DCA Framework Activation

<table>
<thead>
<tr>
<th>STEP #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Log out of NOAM GUI</td>
</tr>
<tr>
<td>2</td>
<td>SSH to Active NOAM</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Change to the feature activation directory</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Execute the feature activation script</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Log into Active NOAM and SOAM GUI</td>
</tr>
<tr>
<td>6</td>
<td>Verify the DCA Folder</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Close SSH connection to Active NOAMs</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SHOULD THIS PROCEDURE FAIL, CONTACT My Oracle Support (MOS) AND ASK FOR ASSISTANCE.

4.2.2 DCA Application Activation

DCA framework must be activated before any application can be activated. Detailed steps are given in the procedure below.

Procedure 5: DCA Application Activation
This procedure verifies that the global admin has been enabled.

Check off (✓) each step as it is completed. Boxes have been provided for this purpose under each step number.

**SHOULD THIS PROCEDURE FAIL, CONTACT My Oracle Support (MOS) AND ASK FOR ASSISTANCE.**

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Log out of NOAM GUI</td>
<td>Log out of any active NOAM GUI sessions.</td>
</tr>
<tr>
<td>2.</td>
<td>SSH to Active NOAM</td>
<td>Use your SSH client to connect to the server as admusr:</td>
</tr>
<tr>
<td></td>
<td></td>
<td># ssh &lt;active NOAM XMI IP Address&gt;</td>
</tr>
<tr>
<td>4.</td>
<td>Change to the feature activation directory</td>
<td>Change to the feature activation directory:</td>
</tr>
<tr>
<td></td>
<td></td>
<td># cd /usr/TKLC/dsr/prod/maint/loaders/</td>
</tr>
<tr>
<td>5.</td>
<td>Execute the feature activation script</td>
<td>1. Execute the feature activation script:</td>
</tr>
<tr>
<td></td>
<td></td>
<td># ./featureActivateDeactivate</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Choose “Activate” and “DCA Application”.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. On being prompted for “Enter the long name for the Dca application”, enter a long name for the application.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Note: The DCA application long name shall consist of a combination of letters, numbers and spaces and shall not begin with a space. It will have a maximum of 32 characters.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. On being prompted for “Enter the short name for the Dca application”, enter a short name for the application.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Note: The DCA application short name shall consist of a combination of letters and numbers. It will have a maximum of 6 characters</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. Verify that the screen output is similar to: Appendix E</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6. Restart the DSR MP from “Main Menu: Status &amp; Manage -&gt; Server”</td>
</tr>
<tr>
<td>6.</td>
<td>Log into Active NOAM and SOAM GUI</td>
<td>Log into the Active NOAM and SOAM GUI.</td>
</tr>
<tr>
<td>7.</td>
<td>Verify the DCA Application Folder</td>
<td>Verify that DCA Application folder appears with under DCA Framework menu item on NOAM and SOAM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. Verify that the DCA Application folder with the name provided by user appears under DCA Framework menu on NOAM with sub-menu “General Options”, “Trial MP assignment” and “Application Control”.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Verify that the DCA Application folder with the name provided by user appears under DCA Framework menu on SOAM with sub-menu “General Options”, “Trial MP assignment”, “Application Control” and “System Options”.</td>
</tr>
<tr>
<td>8.</td>
<td>Close SSH connection to Active NOAMs</td>
<td>Log out of the NOAM login shells and close the SSH connections.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. Log out of the Active OAM login shell:</td>
</tr>
<tr>
<td></td>
<td></td>
<td># exit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Close the SSH connection</td>
</tr>
</tbody>
</table>
### 4.3 POST-ACTIVATION PROCEDURES

#### 4.3.1 Perform Health Check

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

**Procedure 6 : Perform Health Check (Post-Feature Activation)**

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
</table>
| 1 | Verify Server Status | Verify Server Status:  
- Select Status & Manage > Server; the Server Maintenance screen displays.  
- Verify all Server Status is Normal (Norm) for Replication (Repl), Collection (Coll), Database (DB), High Availability (HA), and Processes (Proc). |
| 2 | Log all current alarms | Log all current alarms in the system:  
- Select Alarms & Events > View Active; the Alarms & Events > View Active screen displays.  
- Click Report button to generate an Alarms report.  
- Save the report and print the report. Keep these copies for future reference.  
- Select Alarms & Events > View History and repeat steps 2 and 3.  
- Compare the logged alarms with those logged from before the feature activation. If there are any new alarms present, those new alarms should be analyzed to verify they did not result from a problem with the feature activation. Contact my Oracle Support (MOS) if necessary. |

*Check off (✓) each step as it is completed. Boxes have been provided for this purpose under each step number.*

*SHOULD THIS PROCEDURE FAIL, CONTACT My Oracle Support (MOS) AND ASK FOR ASSISTANCE.*
5.0 FEATURE DEACTIVATION

5.1 PRE-DEACTIVATION PROCEDURES

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

5.1.1 Perform Health Check

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

Procedure 7: Perform Health Check (Pre-Feature Deactivation)

<table>
<thead>
<tr>
<th>STEP #</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1      | Verify DSR Release | DSR Release supports the DCA feature:  
1. Log into the NOAM VIP GUI.  
2. Select Administration > Software Versions; the dsr Software Versions Report screen is shown.  
3. Verify the Eagle XG DSR RPM Version shows version 8.0.0 or greater. |
| 2      | Verify proper DCA feature state | Verify the proper initial state of DCA:  
1. Open the Diameter>DCA Framework folder is activated.  
2. Disable the DCA App at the "SO: Main Menu: Diameter>Maintenance>Applications" screen. |
| 3      | Verify Server status | Verify Server Status:  
1. Select Status & Manage > Server; the Server Maintenance screen is shown.  
2. Verify all Server Status is Normal (Norm) for Replication (Repl), Collection (Coll), Database (DB), High Availability (HA), and Processes (Proc).  
3. Do not proceed to feature deactivation if any of the following statuses is not Norm: Repl, Coll, DB, HA, Proc. 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 deactivation. Contact Engineering for assistance as necessary.  
4. If the Alarm (Alm) status is not Norm but only Minor alarms are present, it is acceptable to proceed with the feature deactivation. If there are Major or Critical alarms present, these alarms should be analyzed prior to proceeding with the feature deactivation. The deactivation may be able to proceed in the presence of certain Major or Critical alarms. Contact Engineering for assistance as necessary. |
| 4      | Log all current alarms | Log all current alarms in the system:  
1. Select Alarms & Events > View Active; the Alarms & Events > View Active screen is shown.  
2. Click Report button to generate an Alarms report.  
3. Save the report and/or print the report. Keep these copies for future reference.  
4. Select Alarms & Events > View History and repeat steps 2 and 3. |
### 5.2 DEACTIVATION PROCEDURES

#### 5.2.1 DCA Application Deactivation

Detailed steps are given in the procedure below

**Procedure 8 : DCA Application Deactivation**

<table>
<thead>
<tr>
<th>STEP</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Log out of NOAM GUI</td>
</tr>
<tr>
<td>2.</td>
<td>SSH to Active NOAM</td>
</tr>
<tr>
<td>3.</td>
<td>Change directory</td>
</tr>
<tr>
<td>4.</td>
<td>Execute the feature deactivation script</td>
</tr>
<tr>
<td>5.</td>
<td>Log into Active NOAM and SOAM GUI</td>
</tr>
<tr>
<td>6.</td>
<td>Verify the DCA application Folder</td>
</tr>
<tr>
<td>7.</td>
<td>Close SSH connection to both NOAMs</td>
</tr>
</tbody>
</table>
### 5.2.2 DCA Framework Deactivation

Detailed steps are given in the procedure below:

All DCA applications must be deactivated before executing the following procedure.

**Procedure 9 : DCA Framework Deactivation**

<table>
<thead>
<tr>
<th>STEP #</th>
<th>Description</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Log out of NOAM GUI</td>
<td>Log out of any active NOAM GUI sessions.</td>
</tr>
</tbody>
</table>
| 2      | SSH to Active NOAM | Use your SSH client to connect to the server as admusr:
   
   ```
   # ssh <active NOAM XMI IP Address>
   ``` |
| 3      | Change directory | Change to the feature deactivation directory:
   
   ```
   # cd /usr/TKLC/dsr/prod/maint/loaders/
   ``` |
| 4      | Execute the feature deactivation script | 1. Execute the feature activation script:
   
   ```
   # ./featureActivateDeactivate
   ```
   2. Choose “Deactivate” and “DCA Framework” options.
   3. For 3-Tiered Architecture, you can deactivate this feature on all SOAMs or on a specific SOAM.
   4. Verify that the screen output is similar to Appendix F. |
| 5      | Log into Active NOAM and SOAM GUI | Log into the Active NOAM and SOAM GUI. |
| 6      | Verify the DCA Framework Folder | Verify that DCA Framework Folder disappears.
   
   1. Verify that DCA Framework folder disappears under DSR Menu. |
| 7      | Close SSH connection to both NOAMs | Log out of the NOAM login shell and close the SSH connection.
   
   1. Log out of the Active OAM login shell:
   
   ```
   # exit
   ```
   2. Close the SSH connection (consult your software client’s documentation if necessary). |
5.3 POST-DEACTIVATION PROCEDURES

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

5.3.1 Perform Health Check

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

Procedure 10: Perform Health Check (Post-Feature Deactivation)

<table>
<thead>
<tr>
<th>S.T.E.P #</th>
<th>This procedure performs a Health Check. Check off (✓) each step as it is completed. Boxes have been provided for this purpose under each step number. SHOULD THIS PROCEDURE FAIL, CONTACT My Oracle Support (MOS) AND ASK FOR ASSISTANCE.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Verify Server status</td>
</tr>
<tr>
<td></td>
<td>Verify Server Status:</td>
</tr>
<tr>
<td></td>
<td>1. Log Into the NOAM VIP GUI</td>
</tr>
<tr>
<td></td>
<td>2. Select Status &amp; Manage &gt; Server; the Server Maintenance screen is shown.</td>
</tr>
<tr>
<td></td>
<td>3. Verify all Server Status is Normal (Norm) for Replication (Repl), Collection (Coll), Database (DB), High Availability (HA), and Processes (Proc).</td>
</tr>
<tr>
<td>2</td>
<td>Log all current alarms</td>
</tr>
<tr>
<td></td>
<td>Log all current alarms in the system:</td>
</tr>
<tr>
<td></td>
<td>1. Select Alarms &amp; Events &gt; View Active; the Alarms &amp; Events &gt; View Active view displays.</td>
</tr>
<tr>
<td></td>
<td>2. Click Report button to generate an Alarms report.</td>
</tr>
<tr>
<td></td>
<td>3. Save the report and print the report. Keep these copies for future reference.</td>
</tr>
<tr>
<td></td>
<td>4. Select Alarms &amp; Events &gt; View History and repeat steps 2 and 3.</td>
</tr>
<tr>
<td></td>
<td>5. Compare the logged alarms with those logged from before the feature activation. If there are any new alarms present, those new alarms should be analyzed to verify they did not result from a problem with the feature activation. Contact Engineering as necessary.</td>
</tr>
</tbody>
</table>
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, there are multiple layers of menus selections. Make the selections in the sequence shown below on the Support telephone menu:

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

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

MOS is available 24 hours a day, 7 days a week, 365 days a year.
Appendix B. CUSTOMER SIGN OFF

Sign-Off Record

*** Please review this entire document. ***

This is to certify that all steps required for the upgrade successfully completed without failure.

Sign your name, showing approval of this procedure, and fax this page and the above completed matrix to Oracle, FAX # 919-460-3669.

Customer: Company Name:________________ Date:_________

Site: Location:________________________________________

Customer(Print) __________________________ Phone:___________

Fax: ______________________

Start Date: _______________ Completion Date: ______________

This procedure has been approved by the undersigned. Any deviations from this procedure must be approved by both Oracle and the customer representative. A copy of this page should be given to the customer for their records. The SWOPS supervisor will also maintain a signed copy of this completion for future reference.

Oracle Signature: __________________________ Date: ______________________

Customer Signature: __________________________ Date: ______________________
Appendix C. **DCA FRAMEWORK ACTIVATION**

[admusr@HPC07-NO1 loaders]$ ./featureActivateDeactivate

Tue Feb 2 17:47:18 EST 2016::Starting featureActivateDeactivate main...
Start the Automation script, To run the Feature Activation/DeActivation on Active NO.

You want to Activate or Deactivate the Feature:
1. Activate
2. Deactivate

**Enter your choice : 1**

List of Feature you can Activate:
1. RBAR
2. FABR
3. Mediation
4. LoadGen
5. GLA
6. MAP Interworking
7. DTLS
8. **Dca Framework**
9. Dca Application

**Enter the choice : 8**

Run script to Activate DcaFramework Feature

============================================================================================================

Execution of Activation/Deactivation Process Starts

============================================================================================================

Starting Activation/Deactivation process....
Executing /usr/TKLC/dsr/prod/maint/loaders/activate/load.DcaFrameworkActivateAsourced script on HPC07-NO1

============================================================================================================

Current server is HA ACTIVE

============================================================================================================
Add Dca Framework KPI group
KPI_Group=Dca Framework
Visibility=VIS_ALL

Add Dca Framework Measurement groups
Meas_Group=Dca Framework Performance
Visibility=VIS_ALL

Add Dca Framework GUI Configuration Permissions.

Set Dca Framework Entry in the DcaFrmEngOption table
=== changed 1 records ===

There is no Standby NOAMP server configured in the Topology

The Active SO server configured in the Topology are
1. HPC07-SO1
2. ALL SOs

**Enter your choice on which SO you want to Activate or Deactivate the Feature :2**

Activate/Deactivate DcaFramework on all SOs configured in the Topology

This is a 3 Tier Setup, So run the B sourced loaders on SO server : HPC07-SO1
Executing /usr/TKLC/dsr/prod/maint/loaders/activate/load.DcaFrameworkActivateBsourced script on HPC07-SO1
FIPS integrity verification test failed.
Add Dca Framework GUI Configuration Permissions.
FIPS integrity verification test failed.

Executing the Loaders and Clearing Cache on Standby SO servers.

There is no Standby/Spare SOAMP server configured in the Topology
Appendix D. **DCA FRAMEWORK DEACTIVATION**

[admusr@HPC07-NO1 loaders]$ ./featureActivateDeactivate
Tue Feb  2 17:50:17 EST 2016::Starting featureActivateDeactivate main...
Start the Automation script, To run the Feature Activation/DeActivation on Active NO.

You want to Activate or Deactivate the Feature :
1. Activate
2. Deactivate

**Enter your choice : 2**

Which Feature you want to Deactivate :
1. RBAR
2. FABR
3. Mediation
4. LoadGen
5. GLA
6. MAP Interworking
7. DTLS
8. Dca Framework
9. Dca Application

**Enter your choice : 8**

Run script to Deactivate DcaFramework 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. HPC07-SO1
2. ALL SOs

**Enter your choice on which SO you want to Activate or Deactivate the Feature :2**

Verifying feature is activated or not on HPC07-SO1

FIPS integrity verification test failed.

=================================

DCAFRAMEWORK is activated on HPC07-SO1

=================================

Executing /usr/TKLC/dsr/prod/maint/loaders/deactivate/load.DcaFrameworkDeactivateAsourced script on HPC07-NO1

=================================

Current server is HA ACTIVE

=================================

There are active dca app on this system. exiting

=================================

There is no Mate NOAMP server configured in the Topology

=================================

Activate/Deactivate DcaFramework on all SOs configured in the Topology

=================================

This is a 3 Tier Setup, So run the B sourced loaders on SO server : HPC07-SO1

Executing /usr/TKLC/dsr/prod/maint/loaders/deactivate/load.DcaFrameworkDeactivateBsourced script on HPC07-SO1

FIPS integrity verification test failed.
There are active dca app on this system. exiting
FIPS integrity verification test failed.

=================================

Executing the Loaders and Clearing Cache on Standby SO servers.

=================================

There is no Standby/Spare SOAMP server configured in the Topology

=================================
Appendix E. **DCA APPLICATION ACTIVATION**

[admusr@HPC07-NO1 loaders]$ ./featureActivateDeactivate
Tue Feb 2 17:52:59 EST 2016::Starting featureActivateDeactivate main...

Start the Automation script, To run the Feature Activation/DeActivation on Active NO.

You want to Activate or Deactivate the Feature:
1. Activate
2. Deactivate

**Enter your choice : 1**

List of Feature you can Activate:
1. RBAR
2. FABR
3. Mediation
4. LoadGen
5. GLA
6. MAP Interworking
7. DTLS
8. Dca Framework
**9. Dca Application**

**Enter the choice : 9**

========== Start of Log Data in file /var/TKLC/log/DcaActivationTopLevel.log ==========

Log file location: /var/TKLC/log/DcaActivationTopLevel.log

**Note:**
In case of any failure please execute /usr/TKLC/dsr/prod/maint/loaders/deactivate/load.DcaDeactivationTopLevel script to revert the changes.

==============================================================================
Execution of Activation Process Starts
=================================================================================================
Dca framework is activated on the setup..Continuing
Following Dca apps are activated on the system:

**First Dca App**

**Enter the long name for the Dca application:** Second DCA App
Entered dca name Second DCA App consist of valid characters
Entered Name is Second DCA App
next available dal id is 129

**Enter the short name for the Dca application:** sda
length of shortName is 3.continuing..
Entered dca name sda consist of valid characters
Entered Name is sda

Verify that Dca Application is in the DalId table
=================================================================================================
dalId=129
birthTime=02/02/2016 17:53:22.000
name=Second DCA App
shortName=sda
activated=No

Verify that Dca Application is in the DcaDalId table
=================================================================================================
dalId=129
name=Second DCA App
shortName=sda

Executing /usr/TKLC/dsr/prod/maint/loaders/activate/load.DcaActivateAscoped script on HPC07-NO1

============= Start of Log Data in file /var/TKLC/log/DcaActivateAscoped.log ===============

Server Name : HPC07-NO1
Server Role : NETWORK_OAMP
Node Id : HPC07-NO1
HA State : Active
Cluster Role : Primary

Add Dca application entry to the DsrApplication table.

Verify that Dca Application is in the table

id=129
name=sda
unavailableAction=ContinueRouting
avpInsertion=Yes
shutdownMode=Graceful
shutdownTimer=5
resultCode=3002
vendorId=0
errorString=Dca Application Unavailable Or Degraded
resExhResultCode=3004
resExhVendorId=0
resExhErrorMessage=Dca Resource Exhausted
routeListId=-1
realm=
fqdn=
mcl=0

Add Dca Application KPI group

Add Dca Application Measurement groups

Add Permission Group headers for Dca Application

Add network configuration parameters for Dca
Execution status of activation script on HPC07-NO1: PASSED
Please check /var/TKLC/log/DcaActivateAscoped.log for more details.

Starting Activation on StandBy NOAMP Server if it exists in the topology.

HPC07-NO1 is Active and Primary NOAMP Server. So, proceeding with next NOAMP Server.

======= Activation done on all Network OAMP Servers =======

======= Starting Activation on System OAM servers =======

HPC07-SO1 is Active. So, proceeding with Activation.
FIPS integrity verification test failed.
Executing /usr/TKLC/dsr/prod/maint/loaders/activate/load.DcaActivateBscoped script on HPC07-SO1
FIPS integrity verification test failed.

Start of Log Data in file /var/TKLC/log/DcaActivateBscoped.log

Server Name : HPC07-SO1
Server Role: SYSTEM_OAM
Node Id : HPC07-SO1
HA State : Active

Add Dca application to DsrApplication. If already present then skip.

Verify that Dca application is in the table

id=129
name=sda
unavailableAction=ContinueRouting
avpInsertion=Yes
shutdownMode=Graceful
shutdownTimer=5
resultCode=3002
vendorId=0
errorString=
resExhResultCode=3004
resExhVendorId=0
resExhErrorString=Dca Resource Exhausted
routeListId=-1
realm=
fqdn=
mcl=0

Add Permission Group headers for Dca app on SOAM server

Add system configuration parameters for Dca

Execution status of activation script on HPC07-SO1: PASSED
Please check /var/TKLC/log/DcaActivateBscoped.log.HPC07-SO1 for more details.
FIPS integrity verification test failed.
FIPS integrity verification test failed.

=== changed 1 records ===

Verify that activated field is updated for Dca Application in the DalId table

dalId=129
birthTime=02/02/2016 17:53:22.000
name=Second DCA App
shortName=sda
activated=Yes

Execution of Dca Application Activation Script complete.
Appendix F. **DCA APPLICATION DEACTIVATION**

[admusr@HPC07-NO1 loaders]$ pwd
/usr/TKLC/dsr/prod/maint/loaders
[admusr@HPC07-NO1 loaders]$ ./featureActivateDeactivate

Tue Feb 2 17:59:21 EST 2016::Starting featureActivateDeactivate main...
Start the Automation script, To run the Feature Activation/DeActivation on Active NO.

You want to Activate or Deactivate the Feature:
1. Activate
2. Deactivate

**Enter your choice : 2**

Which Feature you want to Deactivate:
1. RBAR
2. FABR
3. Mediation
4. LoadGen
5. GLA
6. MAP Interworking
7. DTLS
8. Dca Framework
9. **Dca Application**

**Enter your choice : 9**

=================================================================== T-A-R-T of log DcaDeactivationTopLevel.log ===========
Log file location: /var/TKLC/log/DcaDeactivationTopLevel.log
===================================================================
Execution of Deactivation Process Starts
Following Dca apps are activated on the system
1. FDA
2. sda

**Enter the name for the Dca application to be deactivated:** sda
The name of application selected to deactivate is: sda
Dalld Table successfully updated with deactivated status.

HPC07-SO1 is Active. So, proceeding with Deactivation.
FIPS integrity verification test failed.
Executing /usr/TKLC/dsr/prod/maint/loaders/deactivate/load.DcaDeactivateBscoped script on HPC07-SO1
FIPS integrity verification test failed.

Start of Log Data in file /var/TKLC/log/DcaDeactivateBscoped.log

Server Name : HPC07-SO1
Server Role: SYSTEM_OAM
Node Id    : HPC07-SO1
HA State   : Active

Remove the ART rules corresponding to the DCA
No rules configured for the current application.

Remove Dca from DcaAppSystemUserOption table

Remove Dca Application from DsrApplicationPerMp table

Remove Dca Application from DsrApplication table

Remove permission group headers for Dca Application on SOAM server
Execution status of deactivation script on HPC07-SO1: PASSED
Please check /var/TKLC/log/DcaDeactivateBscoped.log.HPC07-SO1 for more details.
FIPS integrity verification test failed.
FIPS integrity verification test failed.

Starting Deactivation on Standby NOAMP server if present in topology.

HPC07-NO1 is Active NOAMP Server. Proceeding with next NOAMP server in the list.

Starting Deactivation on Active NOAMP server.

Executing /usr/TKLC/dsr/prod/maint/loaders/deactivate/load.DcaDeactivateAscoped script on HPC07-NO1

Server Name : HPC07-NO1
Server Role : NETWORK_OAMP
Node Id : HPC07-NO1
HA State : Active
Cluster Role : Primary

Remove Dca Application KPI groups

Remove Dca Application Measurement groups

Remove permission group headers for Dca Application
Remove logical to physical sbr db mapping from DcaLog2PhySbr and DcaLogicalSbr table

Remove Dca from DcaLifecycleNoam table

Remove Dca from DcaAppNetworkUserOption table

Remove Dca from DcaTrialMp table

Remove Dca from DsrApplicationPerMp table

Remove Dca Application from DsrApplication table

Execution status of deactivation script on HPC07-NO1: PASSED

Execution of Dca Application Deactivation Script complete.