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

Copyright © 2017, 2018 Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

⚠️ CAUTION: Use only the Upgrade procedure included in the Upgrade Kit.

Before upgrading any system, please access My Oracle Support (MOS) (https://support.oracle.com) and review any Technical Service Bulletins (TSBs) that relate to this upgrade.

My Oracle Support (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.

See more information on My Oracle Support (MOS).
# Table of Contents

1. **Introduction** ................................................................................................................. 5  
   1.1 References .................................................................................................................. 5  
   1.2 Acronyms .................................................................................................................... 5  
   1.3 Terminology ................................................................................................................. 6  
   1.4 General Procedure Step Format .................................................................................. 6  
2. **Feature Activation Overview** ....................................................................................... 6  
   2.1 Definition of Activation for the DCA Feature ............................................................... 6  
   2.2 Feature Activation Overview ....................................................................................... 7  
      2.2.1 Pre-Feature Activation Overview ............................................................................. 7  
      2.2.2 Feature Activation Execution Overview ................................................................. 7  
      2.2.3 Post-Feature Activation Overview ......................................................................... 8  
3. **Feature Deactivation Overview** ................................................................................... 9  
   3.1 Pre-Feature Deactivation Overview ............................................................................ 9  
   3.2 Feature Deactivation Execution Overview ................................................................. 9  
   3.3 Post-Feature Deactivation Overview ......................................................................... 10  
4. **Feature Activation Preparation** .................................................................................. 11  
   4.1 System Topology Check .............................................................................................. 11  
   4.2 Perform Health Check ............................................................................................... 13  
5. **Feature Activation** ...................................................................................................... 15  
   5.1 Pre-Activation Procedure — Perform Health Check .................................................... 15  
   5.2 Activation Procedures ................................................................................................ 19  
      5.2.1 DCA Framework Activation ..................................................................................... 19  
      5.2.2 DCA Application Activation .................................................................................. 20  
      5.2.3 DCA Application Reactivation .............................................................................. 21  
   5.3 Post-Activation Procedures ....................................................................................... 23  
      5.3.1 Perform Health Check .......................................................................................... 23  
6. **Feature Deactivation** .................................................................................................. 26  
   6.1 Pre-Deactivation Procedures ...................................................................................... 26  
      6.1.1 Perform Health Check ........................................................................................... 26  
   6.2 Deactivation Procedures ............................................................................................. 28  
      6.2.1 DCA Application Deactivation ............................................................................... 28  
      6.2.2 DCA Framework Deactivation .............................................................................. 29  
   6.3 Post-Deactivation Procedures .................................................................................... 31  
      6.3.1 Perform Health Check .......................................................................................... 31
List of Tables

Table 1. Acronyms .......................................................................................................................... 5
Table 2. Terminology ...................................................................................................................... 6
Table 3. Behavior of DCA Framework and Application Activation and Deactivation ...................... 6
Table 4. Pre-Feature Activation Overview ..................................................................................... 7
Table 5. DCA Framework Activation Execution Overview .......................................................... 7
Table 6. DCA Application Activation Execution Overview ......................................................... 8
Table 7. Post-Feature Activation Overview ................................................................................... 8
Table 8. Pre-Feature Deactivation Overview ................................................................................. 9
Table 9. DCA Application Deactivation Overview ........................................................................ 9
Table 10. DCA Framework Deactivation Overview ..................................................................... 9
Table 11. 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 ............................................................................................ 13
Procedure 3: Perform Health Check (Pre-Feature Activation) .................................................... 16
Procedure 4: DCA Framework Activation ................................................................................... 19
Procedure 5: DCA Application Activation .................................................................................. 20
Procedure 6: DCA Application Reactivation ............................................................................... 21
Procedure 7: Perform Health Check (Post-Feature Activation) .................................................. 23
Procedure 8: Perform Health Check (Pre-Feature Deactivation) ................................................ 26
Procedure 9: DCA Application Deactivation .............................................................................. 28
Procedure 10: DCA Framework Deactivation .......................................................................... 29
Procedure 11: Perform Health Check (Post-Feature Deactivation) ............................................. 31
1. Introduction

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 6 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.

1.1 References

[1] DSR Software Installation and Configuration Procedure 2/2
[2] DSR C-Class Software Installation and Configuration Procedure 2/2

1.2 Acronyms

An alphabetized list of acronyms used in the document.

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Definition</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>
</tbody>
</table>
### DCA Feature Activation Procedure

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<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 Terminology

**Table 2. Terminology**

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOAM</td>
<td>Network Operations and Maintenance</td>
</tr>
<tr>
<td>SOAM</td>
<td>System Operations and Maintenance</td>
</tr>
</tbody>
</table>

#### 1.4 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).

![Figure 1. Example of a Procedure Step](image)

1. **ServerX**: Connect to the console of the server
   
   Establish a connection to the server using `cu` on the terminal server/console.
   
   ```
   $ cu -l /dev/ttyS7
   ```

#### 2. Feature Activation Overview

This section lists the required materials and information needed to execute the feature activation. In addition, Table 4 through Table 11 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 4.

#### 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 3. 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>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours:Minutes)</th>
<th>Activity Feature Activation Preparation</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Topology Check (Procedure 1)</td>
<td>0:10-0:30</td>
<td>• Verify network element configuration data</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Verify system group configuration data</td>
</tr>
<tr>
<td>Perform Health Check (Procedure 2)</td>
<td>0:01-0:05</td>
<td>• Verify DSR release</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Verify server status</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Log all current alarms</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>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours:Minutes)</th>
<th>Activity Feature Activation Execution</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perform Health Check (Procedure 3)</td>
<td>0:01-0:05</td>
<td>• Verify DSR release</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Verify proper DCA state</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Verify server status</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Log all current alarms</td>
<td></td>
</tr>
<tr>
<td>DCA Framework Activation (Procedure 4)</td>
<td>0:10-0:30</td>
<td>• Log out of NOAM GUI</td>
<td>DCA framework is activated on DSR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• SSH to Active NO</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Change to the feature activation directory</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Execute the feature activation script</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Log into active NOAM and SOAM GUI</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Verify the DCA framework folder</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Close SSH connections to both NOAMs</td>
<td></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 6. DCA Application Activation Execution Overview

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours:Minutes)</th>
<th>Activity Feature Activation Execution</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCA Framework Activation (Procedure 5)</td>
<td>0:10-0:30</td>
<td>• Log out of NOAM GUI</td>
<td>DCA application is activated on DSR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• SSH to active NO</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Change to the feature activation directory</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Execute the feature activation script</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Log into active NOAM and SOAM GUI</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Verify the DCA application folder</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Close SSH connections to both NOAMs</td>
<td></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 7. Post-Feature Activation Overview

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours:Minutes)</th>
<th>Activity Feature Activation Execution</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perform Health Check (Procedure 6)</td>
<td>0:01-0:05</td>
<td>• Verify Server status</td>
<td>DCA has been activated on DSR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Log all current alarms</td>
<td></td>
</tr>
</tbody>
</table>
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 8. Pre-Feature Deactivation Overview

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours:Minutes)</th>
<th>Activity Feature Activation Execution</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>This Step</td>
<td>Cum.</td>
<td></td>
</tr>
<tr>
<td>Perform Health Check (Procedure 7)</td>
<td>0:01- 0:05</td>
<td>0:01-0:05</td>
<td>• Verify DSR release&lt;br&gt;• Verify proper DCA state&lt;br&gt;• Verify server status&lt;br&gt;• Log current alarms</td>
</tr>
</tbody>
</table>

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 9. DCA Application Deactivation Overview

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours:Minutes)</th>
<th>Activity Feature Activation Execution</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>This Step</td>
<td>Cum.</td>
<td></td>
</tr>
<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 varies.</td>
</tr>
<tr>
<td>Deactivation (Procedure 8)</td>
<td>00:10-00:20</td>
<td>0:20-0:50</td>
<td>• Log out of active NOAM GUI&lt;br&gt;• SSH into active NO&lt;br&gt;• Change directory&lt;br&gt;• Execute the feature deactivation script&lt;br&gt;• Log into active NOAM and SOAM GUI&lt;br&gt;• Verify the DCA application folder&lt;br&gt;• Close SSH connections to both NOAMs</td>
</tr>
</tbody>
</table>

Table 10. DCA Framework Deactivation Overview
### DCA Feature Activation Procedure

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours:Minutes)</th>
<th>Activity Feature Activation Execution</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>This Step</td>
<td>Cum.</td>
<td></td>
</tr>
<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 varies.</td>
</tr>
<tr>
<td>Deactivation (Procedure 9)</td>
<td>00:10-00:20</td>
<td>0:20-0:50</td>
<td>• Log out of active NOAM GUI</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• SSH into active NO</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Change directory</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Execute the feature deactivation script</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Log into active NOAM and SOAM GUI</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Verify the DCA folder</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Close SSH connections to NOAM</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours:Minutes)</th>
<th>Activity Feature Activation Execution</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>This Step</td>
<td>Cum.</td>
</tr>
<tr>
<td>Perform Health Check (Procedure 10)</td>
<td>0:01-0:05</td>
<td>0:01-0:05</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
4. 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.

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

<table>
<thead>
<tr>
<th>STEP #</th>
<th>NOAM VIP GUI: Login</th>
<th>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:</th>
<th>Login as the guiadmin user:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>□</td>
<td>[http://&lt;Primary_NOAM_VIP_IP_Address&gt;]</td>
<td><img src="image.png" alt="Login Screen" /></td>
</tr>
</tbody>
</table>
## Procedure 1: System Topology Check

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>NOAM VIP GUI: Verify network configuration data</td>
<td>Navigate to <strong>Configuration -&gt; Networking -&gt; Networks</strong>. Click Report. Verify the configuration data is correct for your network. Save or Print this report to keep copies for future reference.</td>
</tr>
<tr>
<td>3.</td>
<td>NOAM VIP GUI: Verify server configuration</td>
<td>Navigate to <strong>Configuration -&gt; Server Groups</strong>. Click Report. Verify the configuration data is correct for your network. Save or Print this report to keep copies for future reference.</td>
</tr>
</tbody>
</table>
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 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**

<table>
<thead>
<tr>
<th>STEP #</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1. NOAM VIP GUI: Login | Establish a GUI session on the NOAM server by using the VIP address of the NOAM server. Open the web browser and enter a URL of:  
\[
\text{http://<Primary_NOAM_VIP_IP_Address>}
\]
Login as the guiadmin user:

![Oracle System Login](image)

2. NOAM VIP GUI: Verify DSR release | Navigate to Administration -> Software Versions to verify the Eagle XG DSR RPM version shows version 8.0.0 or greater.

"DCA Feature Activation Procedure"
Procedure 2: Perform Health Check

3. NOAM VIP GUI: Verify server status

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

<table>
<thead>
<tr>
<th>Appl State</th>
<th>Alm</th>
<th>DB</th>
<th>Reporting Status</th>
<th>Proc</th>
</tr>
</thead>
<tbody>
<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>
</tbody>
</table>

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

4. NOAM VIP GUI: Log current alarms

Navigate to Alarms & Events -> View Active.

Click Report.

Save or Print this report to keep copies for future reference.
**DCA Feature Activation Procedure**

**Procedure 2: Perform Health Check**

| 5. | NOAM VIP GUI: Log alarm history | Navigate to Alarms & Events -> View History. Click Report.  
| Export | Report | Clear Selections |
| Save or Print this report to keep copies for future reference. |

---

**5. Feature Activation**

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

---

**WARNING**

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

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

---

Please 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 Procedure — 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.
DCA Feature Activation Procedure

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

<table>
<thead>
<tr>
<th>STEP</th>
<th>NOAM VIP GUI:</th>
<th>NOAM (2-Tiered) VIP GUI: Verify DCA Framework folder is not present</th>
<th>SOAM (3-Tiered) VIP GUI: Verify DCA Framework folder is not present</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Login</td>
<td>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: <code>http://&lt;Primary_NOAM_VIP_IP_Address&gt;</code></td>
<td>Login as the guiadmin user:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Login as the guiadmin user:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Under Main Menu -&gt; Diameter, verify the DCA Framework folder is NOT present.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This procedure performs needed health checks. Check off (✓) each step as it is completed. Boxes have been provided for this purpose under each step number. If this procedure fails, contact My Oracle Support (MOS) and ask for assistance.
DCA Feature Activation Procedure

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

4. **NOAM VIP GUI:**
   - Verify server status

   Navigate to **Status & Manage -> Server.**

   ![Diagram](image)

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

<table>
<thead>
<tr>
<th>Appl State</th>
<th>Alm</th>
<th>DB</th>
<th>Reporting Status</th>
<th>Proc</th>
</tr>
</thead>
<tbody>
<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>
</tbody>
</table>

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

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

5. **NOAM VIP GUI:**
   - Verify server configuration

   Navigate to **Configuration -> Server Groups.**

   ![Diagram](image)

   Verify the configuration data is correct for your network.
## Procedure 3: Perform Health Check (Pre-Feature Activation)

<table>
<thead>
<tr>
<th></th>
<th>NOAM VIP GUI:</th>
<th>Navigate to</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6.</td>
<td>Log current alarms</td>
<td>Alarms &amp; Events -&gt; View Active.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><img src="image1.png" alt="Image" /></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Click <strong>Report</strong>.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><img src="image2.png" alt="Image" /></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Save</strong> or <strong>Print</strong> this report to keep copies for future reference.</td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Log alarm history</td>
<td>Alarms &amp; Events -&gt; View History.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><img src="image3.png" alt="Image" /></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Save</strong> or <strong>Print</strong> this report to keep copies for future reference.</td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Check the Upgrade Acceptance status on all servers</td>
<td>Administration -&gt; Software Management -&gt; Upgrade.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><img src="image4.png" alt="Image" /></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Note</strong>: Upgrade must be accepted on all servers before activating DCA.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Upgrade State should be <strong>Ready</strong>. If the Upgrade State is <strong>ACCEPT OR REJECT</strong>, follow [2] DSR C-Class Software Installation and Configuration Procedure 2/2 or [3] DSR Software Upgrade Guide (whichever applies) to accept the upgrade on all servers before activating DCA.</td>
<td></td>
</tr>
</tbody>
</table>
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 DCA Framework Activation

**Procedure 4: DCA Framework Activation**

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. NOAM VIP GUI: Logout</td>
<td>Log out of any active NOAM GUI sessions.</td>
</tr>
<tr>
<td>2. Establish a secure shell session on the active NOAM</td>
<td>Establish a secure shell session on the active NOAM by using the XMI VIP address. Login as the admusr. Use your SSH client to connect to the server (ex. Putty).&lt;br&gt;Note: You must consult your own software client’s documentation to learn how to launch a connection. For example:&lt;br&gt;# ssh &lt;active NO XMI VIP Address&gt;</td>
</tr>
<tr>
<td>3. DCA Activation: Change directory</td>
<td>Change to the following directory:&lt;br&gt;$ cd /usr/TKLC/dsr/prod/maint/loaders/activate</td>
</tr>
<tr>
<td>4. DCA Activation: Execute the DCA activation script</td>
<td>Run the DCA activation script by executing the following command:&lt;br&gt;# ./featureActivateDeactivate&lt;br&gt;Choose Activate and DCA Framework options. There is an option to choose to activate this feature on all SOAMs or on a specific SOAM. It is recommended to select Activate on all SOAM. Note: If a new site is added or if a SOAM site framework was not activated, the activation script can be executed again to add the application on new sites. The script does not have any impact on the sites on which the framework is already active.&lt;br&gt;Verify the screen output is similar to Appendix A.</td>
</tr>
<tr>
<td>5. NOAM VIP and SOAM VIP GUIs: Login</td>
<td>Log into the active NOAM and SOAM GUIs.</td>
</tr>
<tr>
<td>6. NOAM VIP and SOAM VIP GUIs: Verify the DCA Framework folder and Configuration sub-menu</td>
<td>On NOAM, verify the DCA Framework folder displays under the DSR Main Menu with Configuration as a sub-menu. On SOAM, verify the DCA Framework folder displays under the DSR Main Menu with Configuration as a sub-menu.</td>
</tr>
</tbody>
</table>
### Procedure 4: DCA Framework Activation

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>Instruction</th>
</tr>
</thead>
</table>
| 7.   | Close SSH connection to active NOAMs | Log out of the active NOAM login shell and close the SSH connections by executing the following command:  
`# exit`  
Close the SSH connection |

### 5.2.2 DCA Application Activation

DCA framework must be activated before any application can be activated.

### Procedure 5: DCA Application Activation

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>Instruction</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>NOAM VIP GUI: Logout</td>
<td>Log out of any active NOAM GUI sessions.</td>
</tr>
</tbody>
</table>
| 2.   | Establish a secure shell session on the active NOAM | Establish a secure shell session on the active NOAM by using the XMI VIP address. Login as the `admusr`.  
Use your SSH client to connect to the server (ex. Putty).  
**Note:** You must consult your own software client’s documentation to learn how to launch a connection. For example:  
`# ssh <active NO XMI VIP Address>` |
| 3.   | Change to the DCA activation directory | `# cd /usr/TKLC/dsr/prod/maint/loaders/` |
| 4.   | Execute the DCA activation script | Execute the feature activation script:  
`# ./featureActivateDeactivate`  
Choose **Activate** and **DCA Application**.  
When asked, select **Activate a DCA Application**.  
**Note:** The above option is not asked the DCA is not active on the system. The script goes directly to **Activate a DCA Application** mode.  
When asked, **Enter the long name for the DCA application**.  
**Note:** The DCA long name should consist of a combination of letters, numbers, and spaces and should not begin with a space. It has a maximum of 32 characters.  
When asked, **Enter the short name for the DCA application**.  
**Note:** The DCA short name should consist of a combination of letters and numbers. It has a maximum of 6 characters.  
Verify the screen looks similar to Appendix C.  
Navigate to **Status & Manage -> Server** to restart the DSR MP. |
| 5.   | NOAM VIP and SOAM VIP GUIs: Login | Log into the active NOAM and SOAM GUIs. |
Procedure 5: DCA Application Activation

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.</td>
<td><strong>NOAM VIP and SOAM VIP GUIs:</strong> Verify the DCA Application folder and sub-menus. On NOAM, verify the DCA folder with the name provided in step 4 displays under the DCA Framework menu. Sub-menus should include: General Options, Trial MP assignment, and Application Control. On SOAM, verify the DCA folder with the name provided in step 4 displays under the DCA Framework menu. Sub-menus should include: General Options, Trial MP assignment, Application Control, and System Options.</td>
</tr>
<tr>
<td>7.</td>
<td>Close SSH connection to active NOAMs. Log out of the active NOAM login shell and close the SSH connections by executing the following command: # exit Close the SSH connection.</td>
</tr>
</tbody>
</table>

5.2.3 DCA Application Reactivation

DCA Feature reactivation option is executed mainly during Disaster Recovery. It allows reactivating all the activated DCA Application in the system after Disaster Recovery procedure is executed. Detailed steps are given in the procedure below.

Procedure 6: DCA Application Reactivation

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td><strong>NOAM VIP GUI:</strong> Log out of any active NOAM GUI sessions.</td>
</tr>
<tr>
<td>2.</td>
<td>Establish a secure shell session on the active NOAM. Establish a secure shell session on the active NOAM by using the XMI VIP address. Login as the <strong>admusr</strong>. Use your SSH client to connect to the server (ex. Putty). <strong>Note:</strong> You must consult your own software client’s documentation to learn how to launch a connection. For example: # ssh &lt;active NO XMI VIP Address&gt;</td>
</tr>
<tr>
<td>3.</td>
<td>Change to the DCA activation directory. # cd /usr/TKLC/dsr/prod/maint/loaders/</td>
</tr>
</tbody>
</table>
Procedure 6: DCA Application Reactivation

<table>
<thead>
<tr>
<th>Step</th>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
</table>
| 4.   | Execute the DCA activation script | Execute the feature activation script:  
# ./featureActivateDeactivate  
Choose **Activate** and **DCA Application**.  
When asked, select **Activate a DCA Application**.  
**Note:** The above option is not asked if the DCA is not active on the system. The script goes directly to **Activate a DCA Application** mode.  
When asked, **Enter the long name for the DCA application**.  
**Note:** The DCA long name should consist of a combination of letters, numbers, and spaces and should not begin with a space. It has a maximum of 32 characters.  
When asked, **Enter the short name for the DCA application**.  
**Note:** The DCA short name should consist of a combination of letters and numbers. It has a maximum of 6 characters.  
Verify the screen looks similar to Appendix C.  
Navigate to **Status & Manage -> Server** to restart the DSR MP. |
| 5.   | NOAM VIP and SOAM VIP GUIs: Log in | Log into the active NOAM and SOAM GUIs. |
| 6.   | NOAM VIP and SOAM VIP GUIs: Verify | On NOAM, verify the DCA folder with the name provided in step 4 displays under the DCA Framework menu. Sub-menus should include: General Options, Trial MP assignment, and Application Control.  
On SOAM, verify the DCA folder with the name provided in step 4 displays under the DCA Framework menu. Sub-menus should include: General Options, Trial MP assignment, Application Control, and System Options. |
| 7.   | Close SSH connection to active NOAMs | Log out of the active NOAM login shell and close the SSH connections by executing the following command:  
# exit  
Close the SSH connection |
## 5.3 Post-Activation Procedures

### 5.3.1 Perform Health Check

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

**Procedure 7: Perform Health Check (Post-Feature Activation)**

<table>
<thead>
<tr>
<th>STEP</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1. NOAM VIP GUI: Login | Establish a GUI session on the NOAM server by using the VIP address of the NOAM server. Open the web browser and enter a URL of: [http://<Primary_NOAM_VIP_IP_Address>](http://<Primary_NOAM_VIP_IP_Address>)  
Login as the `guiadmin` user: |

![Oracle System Login](image.png)

This application is designed to work with most modern HTML5 compliant browsers and uses both JavaScript and cookies. Please refer to the Oracle Software Web Browser Support Policy for details.
Procedure 7: Perform Health Check (Post-Feature Activation)

2. **NOAM VIP GUI: Verify server status**

   - Navigate to **Status & Manage -> Server.**

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

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

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

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

3. **NOAM VIP GUI: Verify server configuration**

   - Navigate to **Configuration -> Server Groups.**

   - Verify the configuration data is correct for your network.
## Procedure 7: Perform Health Check (Post-Feature Activation)

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
</table>
| 4.   | **NOAM VIP GUI:** Log current alarms  
      Navigate to Alarms & Events -> View Active.  
      ![Diagram](image)
      Click **Report**.
      **Save** or **Print** this report to keep copies for future reference. |
| 5.   | **NOAM VIP GUI:** Log alarm history  
      Navigate to Alarms & Events -> View History.  
      Click **Report**.
      **Save** or **Print** this report to keep copies for future reference. |
6. Feature Deactivation

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 8: Perform Health Check (Pre-Feature Deactivation)

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>NOAM VIP GUI: Login Establish a GUI session on the NOAM server by using the VIP address of the NOAM server. Open the web browser and enter a URL of: http://&lt;Primary_NOAM_VIP_IP_Address&gt; Login as the guiadmin user:</td>
</tr>
</tbody>
</table>

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.

If this procedure fails, contact My Oracle Support (MOS) and ask for assistance.
**Procedure 8: Perform Health Check (Pre-Feature Deactivation)**

2. **NOAM VIP GUI:** Verify server status

   - Navigate to **Status & Manage -> Server.**

   ![Status & Manage Tree](image)

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

<table>
<thead>
<tr>
<th>Appl State</th>
<th>Alm</th>
<th>DB</th>
<th>Reporting Status</th>
<th>Proc</th>
</tr>
</thead>
<tbody>
<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>
</tbody>
</table>

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

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

3. **NOAM VIP GUI:** Verify server configuration

   - Navigate to **Configuration -> Server Groups.**

   ![Configuration Tree](image)

   Verify the configuration data is correct for your network.
Procedure 8: Perform Health Check (Pre-Feature Deactivation)

4. NOAM VIP GUI: Log current alarms

- Navigate to Alarms & Events -> View Active.
  - View Active
  - View History
  - View Trap Log

  Click Report.

  Export  Report  Clear Selections

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

5. NOAM VIP GUI: Log alarm history

- Navigate to Alarms & Events -> View History.

  Click Report.

  Export  Report  Clear Selections

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

6.2 Deactivation Procedures

6.2.1 DCA Application Deactivation

Procedure 9: DCA Application Deactivation

This procedure verifies that the feature deactivation steps have been completed. Check off (✓) each step as it is completed. Boxes have been provided for this purpose under each step number.

If this procedure fails, contact My Oracle Support (MOS) and ask for assistance.

1. NOAM VIP GUI: Logout

   Log out of any active NOAM GUI sessions.

2. Establish a secure shell session on the active NOAM

   Establish a secure shell session on the active NOAM by using the XMI VIP address. Login as the admusr.

   Use your SSH client to connect to the server (ex. Putty).

   **Note:** You must consult your own software client’s documentation to learn how to launch a connection. For example:

   # ssh <active NO XMI VIP Address>
### Procedure 9: DCA Application Deactivation

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.</td>
<td>Change to the DCA activation directory</td>
<td><code>cd /usr/TKLC/dsr/prod/maint/loaders/</code></td>
</tr>
</tbody>
</table>
| 4.   | Execute the DCA activation script | Execute the feature activation script:  
Choose **Deactivate** and **DCA Application**.  
When asked, **Enter the name for the DCA application to be deactivated.**  
Verify the screen looks similar to Appendix D.  
Navigate to **Status & Manage -> Server** to restart the DSR MP. |
| 5.   | NOAM VIP and SOAM VIP GUIs: Log in | Log into the active NOAM and SOAM GUIs. |
| 6.   | NOAM VIP and SOAM VIP GUIs: Verify the DCA Application folder and sub-menus | On NOAM, navigate to **Diameter -> DCA Framework** and verify the DCA Application folder no longer exists.  
On SOAM, navigate to **Diameter -> DCA Framework** and verify the DCA Application folder no longer exists. |
| 7.   | Close SSH connection to active NOAMs | Log out of the active NOAM login shell and close the SSH connections by executing the following command:  
`# exit`  
Close the SSH connection |

### 6.2.2 DCA Framework Deactivation

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

### Procedure 10: DCA Framework Deactivation

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>NOAM VIP GUI: Log out</td>
<td>Log out of any active NOAM GUI sessions.</td>
</tr>
</tbody>
</table>
| 2.   | Establish a secure shell session on the active NOAM | Establish a secure shell session on the active NOAM by using the XMI VIP address. Login as the **admusr**.  
Use your SSH client to connect to the server (ex. Putty).  
**Note:** You must consult your own software client’s documentation to learn how to launch a connection. For example:  
`# ssh <active NO XMI VIP Address>` |
| 3.   | Change to the DCA activation directory | `cd /usr/TKLC/dsr/prod/maint/loaders/` |
## Procedure 10: DCA Framework Deactivation

<table>
<thead>
<tr>
<th>Step</th>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
</table>
| 4.   | Execute the DCA activation script | Execute the feature activation script:  
`# ./featureActivateDeactivate`
Choose **Deactivate** and **DCA Application**.  
**Note:** For Tier 3 SOAM, this feature can be deactivated on all SOAMs or a specific SOAM.
Verify the screen looks similar to Appendix E. |
| 5.   | Log into Active NOAM and SOAM GUI | Log into the Active NOAM and SOAM GUI. |
| 6.   | Verify the DCA Framework folder | Verify the DCA Framework folder no longer exists under the Diameter menu. |
| 7.   | Close SSH connection to active NOAMs | Log out of the active NOAM login shell and close the SSH connections by executing the following command:  
`# exit`  
Close the SSH connection |
6.3 Post-Deactivation Procedures

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

6.3.1 Perform Health Check

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

Procedure 11: Perform Health Check (Post-Feature Deactivation)

<table>
<thead>
<tr>
<th>STEP #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. NOAM VIP GUI: Login</td>
<td>Establish a GUI session on the NOAM server by using the VIP address of the NOAM server. Open the web browser and enter a URL of: \http://&lt;Primary_NOAM_VIP_IP_Address&gt; Login as the guiadmin user:</td>
</tr>
</tbody>
</table>

[Image of Oracle System Login]
Procedure 11: Perform Health Check (Post-Feature Deactivation)

2. **NOAM VIP GUI:** Verify server status

Navigate to **Status & Manage -> Server.**

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

<table>
<thead>
<tr>
<th>Appliance State</th>
<th>Alarm (Alm)</th>
<th>DB Status</th>
<th>Reporting Status</th>
<th>Proc Status</th>
</tr>
</thead>
<tbody>
<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>
</tbody>
</table>

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

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

3. **NOAM VIP GUI:** Verify server configuration

Navigate to **Configuration -> Server Groups.**

Verify the configuration data is correct for your network.
### Procedure 11: Perform Health Check (Post-Feature Deactivation)

**NOAM VIP GUI:** Log current alarms

Navigate to **Alarms & Events -> View Active.**

Click **Report.**

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

<table>
<thead>
<tr>
<th>Export</th>
<th>Report</th>
<th>Clear Selections</th>
</tr>
</thead>
</table>

**NOAM VIP GUI:** Log alarm history

Navigate to **Alarms & Events -> View History.**

Click **Report.**

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

<table>
<thead>
<tr>
<th>Export</th>
<th>Report</th>
<th>Clear Selections</th>
</tr>
</thead>
</table>

### Appendix A. 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-N01
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-S01
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-S01
Executing /usr/TKLC/dsr/prod/maint/loaders/activate/load.DcaFrameworkActivateBsourced script on HPC07-S01
FIPS integrity verification test failed.
Add Dca Framework GUI Configuration Permissions.
Appendix B. DCA Framework Deactivation

[admusr@HPC07-N01 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
================================================================================
Executing the Loaders and Clearing Cache on Standby SO servers.
================================================================================
There is no Standby/Spare SOAMP server configured in the Topology
================================================================================
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 B. DCA Framework Deactivation

[admusr@HPC07-N01 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
================================================================================
Starting Activation/Deactivation process....
================================================================================
The Active SO server configured in the Topology are
1. HPC07-S01
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-S01
FIPS integrity verification test failed.
================================================================================
DCA FRAMEWORK is activated on HPC07-S01
=================================================================================================
Executing /usr/TKLC/dsr/prod/maint/loaders/deactivate/load.DcaFrameworkDeactivateAsourced script on HPC07-S01
=================================================================================================
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-S01
Executing /usr/TKLC/dsr/prod/maint/loaders/deactivate/load.DcaFrameworkDeactivateBsourced script on HPC07-S01
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 C. DCA Application Activation

[admusr@Active-NO loaders]$ ./featureActivateDeactivate
Wed Mar 1 11:34:03 EST 2017::Starting featureActivateDeactivate main...
Start the Automation script, To run the Feature Activation/DeActivation on Active NO.
You want to Activate or Deactivate the Feature:

1. Activate
2. Deactivate

Enter your choice: 1
List of Feature you can Activate:

1. RBAR
2. FABR
3. Mediation
4. LoadGen
5. GLA
DCA Feature Activation Procedure

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

1. Recover currently activated Dca Applications

2. Activate a Dca Application

Enter the choice: 2

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
Entered dca name SDA consist of valid characters

Entered Name is SDA

Verify that Dca Application is in the DalId table

dalId=129
birthTime=03/01/2017 11:34:21.000
name=Second DCA App
shortName=DCA:SDA
activated=No

Activation of Dca Application Starts.

Executing /usr/TKLC/dsr/prod/maint/loaders/activate/load.DcaActivateAscoped script on Active-NO

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

Server Name  : Active-NO
Server Role   : NETWORK_OAMP
Node Id       : Active-NO
HA State      : Active
Cluster Role  : Primary

Verify that Dca Application is in the DcaDalId table

dalId=129
name=Second DCA App
shortName=SDA

Add Dca application entry to the DsrApplication table.

Verify that Dca Application is in the table

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

Add Dca Application KPI group

Verify that Dca Application is in the KPIVisibility table
KPI_Group=DCA:SDA
Visibility=VIS_ALL

Add Dca Application Measurement groups

Verify that Dca Application is in the MeasVisibility table

Meas_Group=DCA:SDA
Visibility=VIS_ALL

Add Permission Group headers for Dca Application

Verify that Dca Application is in the app_permission_groups table

_appid=129
group_id=3729
group_name=Second DCA App Configuration Permissions

Add network configuration parameters for Dca

Verify that Dca Application is in the DcaAppNetworkUserOption table

dalId=129
name=diamAnsSub
value=process_answer

dalId=129
name=diamRecSub
value=process_request

dalId=129
name=guestReadOnly
value=true

dalId=129
name=maxSbrQuery
value=5
name=opCountEnabled
value=true

---------
dalId=129
name=opCountHandler
value=3000

---------
dalId=129
name=opCountMain
value=5000

---------
dalId=129
name=stateTTL
value=120

Execution status of activation script on Active-NO: PASSED
Please check /var/TKLC/log/DcaActivateAscoped.log for more details.

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

FIPS integrity verification test failed.
Executing /usr/TKLC/dsr/prod/maint/loaders/activate/load.DcaActivateStandByAscoped
script on Standby-NO
FIPS integrity verification test failed.

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

Server Name : Standby-NO
Server Role: NETWORK_OAMP

Verify that Dca Application is in the DcaDalId table

dalId=129
name=Second DCA App
shortName=SDA

Add Dca Application to DsrApplication.

Verify that Dca Application is in the table

id=129
name=DCA_SDA
DCA Feature Activation Procedure

| unavailableAction=ContinueRouting |
| avpInsertion=Yes |
| shutdownMode=Graceful |
| shutdownTimer=5 |
| resultCode=3002 |
| vendorId=0 |
| errorString= |
| resExhResultCode=3004 |
| resExhVendorId=0 |
| resExhErrorString=DSR Resource Exhausted |
| routeListId=-1 |
| realm= |
| fqdn= |
| mcl=0 |

=================================
Add Permission Group headers for Dca Application
=================================
Verify that Dca Application is in the app_permission_groups table
__________________________________________________________END__________________________________________________________

Execution status of activation script on Standby-NO: PASSED
Please check /var/TKLC/log/DcaActivateStandbyAscoped.log.Standby-NO for more details.
FIPS integrity verification test failed.
Active-NO 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 ======
Active-SO is Active. So, proceeding with Activation.
FIPS integrity verification test failed.
Executing /usr/TKLC/dsr/prod/maint/loaders/activate/load.DcaActivateBscoped script on Active-SO
FIPS integrity verification test failed.
======== Start of Log Data in file /var/TKLC/log/DcaActivateBscoped.log =========
Server Name : Active-SO
Server Role: SYSTEM_OAM
Node Id : Active-SO
HA State : Active


Verify that Dca Application is in the DcaDalId table

dalId=129
name=Second DCA App
shortName=SDA

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

Verify that Dca application is in the table

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

Add Permission Group headers for Dca app on SOAM server

Verify that Dca Application is in the app_permission_groups table

_appid=129
group_id=3729
group_name=Second DCA App Configuration Permissions

Add system configuration parameters for Dca

Verify that Dca Application is in the DcaAppSystemUserOption table
FIPS integrity verification test failed.
FIPS integrity verification test failed.

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

Server Name: Standby-SO
Server Role: SYSTEM_OAM
Node Id: Standby-SO

Add Permission Group headers for Dca Application

Verify that Dca Application is in the app_permission_groups table

_execution_status_of_activation_script_on_Standby-SO: PASSED
FIPS integrity verification test failed.
FIPS integrity verification test failed.

_execution_status_of_activation_script_on_Active-SO: PASSED
Please check /var/TKLC/log/DcaActivateBscoped.log.Active-SO for more details.
FIPS integrity verification test failed.
FIPS integrity verification test failed.
Appendix D. DCA Application Reactivation

[admusr@Active-NO loaders]$ ./featureActivateDeactivate
Thu Mar  2 05:17:31 EST 2017::Starting featureActivateDeactivate main...
Start the Automation script , To run the Feature Activation/DeActivation on Active NO.
You want to Activate or Deactivate the Feature :
1.Activate
2.Deactivate
Enter your choice : 1
List of Feature you can Activate :
1.RBAR
2.FABR
3.Mediation
4.LoadGen
5.GL\A
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**

**Second DCA App**

1. Recover currently activated Dca Applications
2. Activate a Dca Application

Enter your choice : 1

Recovery of all Currently Activated Dca Application Starts.

Execution of Dca Application Activation Script for First DCA App(FDA) Starts.

Executing /usr/TKLC/dsr/prod/maint/loaders/activate/load.DcaActivateAscoped script on
Active-NO

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

Server Name  : Active-NO
Server Role  : NETWORK_OAMP
Node Id      : Active-NO
HA State     : Active
Cluster Role : Primary

Verify that Dca Application is in the DcaDalId table

dalId=128
name=First DCA App
shortName=FDA

Add Dca application entry to the DsrApplication table.

Verify that Dca Application is in the table

id=128
name=DCA_FDA
unavailableAction=ContinueRouting
avpInsertion=Yes
shutdownMode=Graceful
shutdownTimer=5
resultCode=3002
vendorId=0
errorString=
resExhResultCode=3004
resExhVendorId=0
resExhErrorString=DSR Resource Exhausted
routeListId=-1
realm=
fqdn=
mcl=0
================================
Add Dca Application KPI group
================================
Given Dca Entry with KPI_Group=DCA:FDA already present in KPIVisibility table. Skipping.
==============================================
Verify that Dca Application is in the KPIVisibility table
==============================================
KPI_Group=DCA:FDA
Visibility=VIS_ALL
========================================= Add Dca Application Measurement groups
=========================================
Given Dca Entry with Meas_Group=DCA:FDA already present in MeasVisibility table. Skipping.
============================================== Verify that Dca Application is in the MeasVisibility table
==============================================
Meas_Group=DCA:FDA
Visibility=VIS_ALL
=================================================== Add Permission Group headers for Dca Application
===================================================
Given Dca Entry with _appid=128 already present in app_permission_groups table. Skipping.
==============================================
Verify that Dca Application is in the app_permission_groups table
==============================================
_appid=128
group_id=3728

group_name=First DCA App Configuration Permissions

Add network configuration parameters for Dca

Given Dca Entry with name=diamRecSub for dalId=128 already present in DcaAppNetworkUserOption table. Skipping.

Given Dca Entry with name=diamAnsSub for dalId=128 already present in DcaAppNetworkUserOption table. Skipping.

Given Dca Entry with name=stateTTL for dalId=128 already present in DcaAppNetworkUserOption table. Skipping.

Given Dca Entry with name=guestReadOnly for dalId=128 already present in DcaAppNetworkUserOption table. Skipping.

Given Dca Entry with name=maxSbrQuery for dalId=128 already present in DcaAppNetworkUserOption table. Skipping.

Given Dca Entry with name=opCountEnabled for dalId=128 already present in DcaAppNetworkUserOption table. Skipping.

Given Dca Entry with name=opCountMain for dalId=128 already present in DcaAppNetworkUserOption table. Skipping.

Given Dca Entry with name=opCountHandler for dalId=128 already present in DcaAppNetworkUserOption table. Skipping.

Verify that Dca Application is in the DcaAppNetworkUserOption table

dalId=128

name=diamAnsSub
value=process_answer

dalId=128

name=diamRecSub
value=process_request

DalId=128

name=guestReadOnly
value=true

DalId=128

name=maxSbrQuery
value=5

DalId=128

name=opCountEnabled
value=true
DalId=128
dalId=128
name=opCountHandler
value=3000
dalId=128
name=opCountMain
value=5000
dalId=128
name=stateTTL
value=120

Execution status of activation script on Active-NO: PASSED
Please check /var/TKLC/log/DcaActivateAscoped.log for more details.

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

FIPS integrity verification test failed.
Executing /usr/TKLC/dsr/prod/maint/loaders/activate/load.DcaActivateStandByAscoped
script on Standby-NO
FIPS integrity verification test failed.

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

Server Name : Standby-NO
Server Role: NETWORK_OAMP

Verify that Dca Application is in the DcaDalId table

dalId=128
name=First DCA App
selectedIndex=FDA

Add Dca Application to DsrApplication.

Verify that Dca Application is in the table

id=128
name=DCA_FDA
unavailableAction=ContinueRouting
avpInsertion=Yes
shutdownMode=Graceful
shutdownTimer=5
resultCode=3002
vendorId=0
errorString=
resExhResultCode=3004
resExhVendorId=0
resExhErrorString=DSR Resource Exhausted
routeListId=-1
realm=
fqdn=
mcl=0

===================================================
Add Permission Group headers for Dca Application
===================================================
Given Dca Entry with _appid=128 already present in app_permission_groups table. Skipping.

===================================================
Verify that Dca Application is in the app_permission_groups table
===================================================
 ámbito=128
group_id=3728
group_name=First DCA App Configuration Permissions

===================================================
Execution status of activation script on Standby-NO: PASSED
Please check /var/TKLC/log/DcaActivateStandbyScoped.log.Standby-NO for more details.
FIPS integrity verification test failed.
FIPS integrity verification test failed.
Active-NO 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 ========
Active-SO is Active. So, proceeding with Activation.
FIPS integrity verification test failed.
Executing /usr/TKLC/dsr/prod/maint/loaders/activate/load.DcaActivateBscoped script on Active-SO
FIPS integrity verification test failed.
======= Start of Log Data in file /var/TKLC/log/DcaActivateBscoped.log =======
Server Name : Active-SO
Server Role: SYSTEM_OAM
Node Id : Active-SO
HA State : Active
Given Dca application is already in DcaDalId table. Skipping.
=======================================================================
Add Dca application to DsrApplication. If already present then skip.
=======================================================================
Given Dca Entry with name=DCA_FDA already present in DsrApplication table. Skipping.
=======================================================================
Verify that Dca application is in the table
id=128
name=DCA_FDA
unavailableAction=ContinueRouting
avpInsertion=Yes
shutdownMode=Graceful
shutdownTimer=5
resultCode=3002
vendorId=0
errorString=
resExhResultCode=3004
resExhVendorId=0
resExhErrorString=DSR Resource Exhausted
routeListId=-1
realm=
fqdn=
mcl=0
=======================================================================
Add Permission Group headers for Dca app on SOAM server
=======================================================================
Given Dca Entry with _appid=128 already present in app_permission_groups table. Skipping.
=======================================================================
Verify that Dca Application is in the app_permission_groups table
_appid=128
group_id=3728
group_name=First DCA App Configuration Permissions
=======================================================================
Add system configuration parameters for Dca
=======================================================================
Given Dca Entry with name=rtErrAction for dalId=128 already present in DcaAppSystemUserOption table. Skipping.
Given Dca Entry with name=rtErrCode for dalId=128 already present in DcaAppSystemUserOption table. Skipping.

Given Dca Entry with name=rtErrString for dalId=128 already present in DcaAppSystemUserOption table. Skipping.

Given Dca Entry with name=rtErrVendorId for dalId=128 already present in DcaAppSystemUserOption table. Skipping.

Verify that Dca Application is in the DcaAppSystemUserOption table

---

dalId=128
name=rtErrActionCode
value=0
---

dalId=128
name=rtErrActionCode
value=
---

dalId=128
name=rtErrActionCode
value=
---

dalId=128
name=rtErrActionCode
value=
---

FIPS integrity verification test failed.
FIPS integrity verification test failed.

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

Server Name : Standby-SO
Server Role: SYSTEM_OAM
Node Id : Standby-SO

Add Permission Group headers for Dca Application

Given Dca Entry with _appid=128 already present in app_permission_groups table. Skipping.

Verify that Dca Application is in the app_permission_groups table

---

_appid=128
group_id=3728
group_name=First DCA App Configuration Permissions
 Execution status of activation script on Standby-SO: PASSED
 FIPS integrity verification test failed.
 Execution status of activation script on Active-SO: PASSED
 Please check /var/TKLC/log/DcaActivateBscoped.log.Active-SO for more details.
 FIPS integrity verification test failed.

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

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

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

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

 Changing 1 records
 Verify that activated field is updated for Dca Application in the DalId table

 Execution of Dca Application Activation Script for First DCA App[FDA] completes.


 Executing /usr/TKLC/dsr/prod/maint/loaders/activate/load.DcaActivateAscoped script on Active-NO

 Server Name : Active-NO
 Server Role  : NETWORK_OAMP
 Node Id     : Active-NO
 HA State    : Active
 Cluster Role : Primary

 Verify that Dca Application is in the DcaDalId table

 DalId=128
 BirthTime=03/02/2017 02:30:27.000
 Name=First DCA App
 ShortName=DCA:FDA
 Activated=Yes
Add Dca application entry to the DsrApplication table.

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

Verify that Dca Application is in the table

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

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

Add Dca Application KPI group

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

Given Dca Entry with KPI_Group=DCA:SDA already present in KPIVisibility table. Skipping.

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

Verify that Dca Application is in the KPIVisibility table

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

KPI_Group=DCA:SDA
Visibility=VIS_ALL
=================================================================================

Add Dca Application Measurement groups

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

Given Dca Entry with Meas_Group=DCA:SDA already present in MeasVisibility table. Skipping.

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

Verify that Dca Application is in the MeasVisibility table

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

Meas_Group=DCA:SDA
Visibility=VIS_ALL
=================================================================================
Add Permission Group headers for Dca Application
==================================================================================================

Given Dca Entry with _appid=129 already present in app_permission_groups table. Skipping.
==================================================================================================

Verify that Dca Application is in the app_permission_groups table
==================================================================================================

_appid=129
groupId=3729
group_name=Second DCA App Configuration Permissions
==================================================================================================

Add network configuration parameters for Dca
==================================================================================================

Given Dca Entry with name=diamRecSub for dalId=129 already present in DcaAppNetworkUserOption table. Skipping.
Given Dca Entry with name=diamAnsSub for dalId=129 already present in DcaAppNetworkUserOption table. Skipping.
Given Dca Entry with name=stateTTL for dalId=129 already present in DcaAppNetworkUserOption table. Skipping.
Given Dca Entry with name=guestReadOnly for dalId=129 already present in DcaAppNetworkUserOption table. Skipping.
Given Dca Entry with name=maxSbrQuery for dalId=129 already present in DcaAppNetworkUserOption table. Skipping.
Given Dca Entry with name=opCountEnabled for dalId=129 already present in DcaAppNetworkUserOption table. Skipping.
Given Dca Entry with name=opCountMain for dalId=129 already present in DcaAppNetworkUserOption table. Skipping.
Given Dca Entry with name=opCountHandler for dalId=129 already present in DcaAppNetworkUserOption table. Skipping.

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

Verify that Dca Application is in the DcaAppNetworkUserOption table
==================================================================================================

dalId=129
name=diamAnsSub
value=process_answer
==================================================================================================

dalId=129
name=diamRecSub
value=process_request
==================================================================================================

dalId=129
name=guestReadOnly
value=true
DalId=129
name=maxSbrQuery
value=5

DalId=129
name=opCountEnabled
value=true

DalId=129
name=opCountHandler
value=3000

DalId=129
name=opCountMain
value=5000

DalId=129
name=stateTTL
value=120

Execution status of activation script on Active-NO: PASSED
Please check /var/TKLC/log/DcaActivateAsced.log for more details.

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

FIPS integrity verification test failed.
Executing /usr/TKLC/dsr/prod/maint/loaders/activate/load.DcaActivateStandByAsced script on Standby-NO
FIPS integrity verification test failed.

===== Start of Log Data in file /var/TKLC/log/DcaActivateStandbyAsced.log =====
Server Name : Standby-NO
Server Role: NETWORK_OAMP

Verify that Dca Application is in the DcaDalId table

DalId=129
name=Second DCA App
shortName=SDA
Add Dca Application to DsrApplication.
=================================================================
Verify that Dca Application is in the table
=================================================================
id=129
name=DCA_SDA
unavailableAction=ContinueRouting
avpInsertion=Yes
shutdownMode=Graceful
shutdownTimer=5
resultCode=3002
vendorId=0
errorString=
resExhResultCode=3004
resExhVendorId=0
resExhErrorString=DSR Resource Exhausted
routeListId=-1
realm=
fqdn=
mcl=0
=================================================================
Add Permission Group headers for Dca Application
=================================================================
Given Dca Entry with _appid=129 already present in app_permission_groups table. Skipping.
=================================================================
Verify that Dca Application is in the app_permission_groups table
=================================================================
_appid=129
group_id=3729
group_name=Second DCA App Configuration Permissions
=================================================================
Execution status of activation script on Standby-NO: PASSED
Please check /var/TKLC/log/DcaActivateStandbyAscoped.log.Standby-NO for more details.
FIPS integrity verification test failed.
FIPS integrity verification test failed.
Active-NO 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 =======
Active-SO is Active. So, proceeding with Activation.
FIPS integrity verification test failed.
Executing /usr/TKLC/dsr/prod/maint/loaders/activate/load.DcaActivateBscoped script on Active-SO
FIPS integrity verification test failed.

======== Start of Log Data in file /var/TKLC/log/DcaActivateBscoped.log ============
Server Name : Active-SO
Server Role: SYSTEM_OAM
Node Id : Active-SO
HA State : Active
Given Dca application is already in DcaDalId table. Skipping.

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

Given Dca Entry with name=DCA_SDA already present in DsrApplication table. Skipping.

Verify that Dca application is in the table

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

Add Permission Group headers for Dca app on SOAM server

Given Dca Entry with appid=129 already present in app_permission_groups table. Skipping.

Verify that Dca Application is in the app_permission_groups table
DCA Feature Activation Procedure

appid=129
_group_id=3729
group_name=Second DCA App Configuration Permissions

Add system configuration parameters for Dca

Given Dca Entry with name=rtErrAction for dalId=129 already present in DcaAppSystemUserOption table. Skipping.
Given Dca Entry with name=rtErrCode for dalId=129 already present in DcaAppSystemUserOption table. Skipping.
Given Dca Entry with name=rtErrString for dalId=129 already present in DcaAppSystemUserOption table. Skipping.
Given Dca Entry with name=rtErrVendorId for dalId=129 already present in DcaAppSystemUserOption table. Skipping.

Verify that Dca Application is in the DcaAppSystemUserOption table

dalId=129
name=rtErrAction
value=0

dalId=129
name=rtErrCode
value=

dalId=129
name=rtErrString
value=

dalId=129
name=rtErrVendorId
value=

FIPS integrity verification test failed.
FIPS integrity verification test failed.

Start of Log Data in file /var/TKL/log/DcaActivateStandbyBscoped.log

Server Name : Standby-SO
Server Role: SYSTEM_OAM
Node Id : Standby-SO

Add Permission Group headers for Dca Application
Given Dca Entry with _appid=129 already present in app_permission_groups table. Skipping.

Verify that Dca Application is in the app_permission_groups table

 appellant=129
 group_id=3729
 group_name=Second DCA App Configuration Permissions

Execution status of activation script on Standby-SO: PASSED
FIPS integrity verification test failed.

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

=== changed 1 records ===

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

dalId=129
birthTime=03/02/2017 05:15:45.000
name=Second DCA App
shortName=DCA:SDA
activated=Yes


Execution of Dca Application Activation Script complete.
Appendix E. DCA Application Deactivation

```bash
[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

S-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
=== changed 1 records ===
DalId Table successfully updated with deactivated status.

HPC07-S01 is Active. So, proceeding with Deactivation.
FIPS integrity verification test failed.
Executing /usr/TKLC/dsr/prod/maint/loaders/deactivate/load.DcaDeactivateBscoped script on HPC07-S01
FIPS integrity verification test failed.
```
DCA Feature Activation Procedure

-------- Start of Log Data in file /var/TKLC/log/DcaDeactivateBscoped.log -------
Server Name : HPC07-S01
Server Role: SYSTEM_OAM
Node Id    : HPC07-S01
HA State   : Active
========================================================
Remove the ART rules corresponding to the DCA
===================================================
No rules configured for the current application.
=================================================
Remove Dca from DcaAppSystemUserOption table
=================================================
  === deleted 5 records ===
=================================================
Remove Dca Application from DsrApplicationPerMp table
=================================================
  === deleted 0 records ===
=================================================
Remove Dca Application from DsrApplication table
=================================================
  === deleted 1 records ===
=================================================
Remove permission group headers for Dca Application on SOAM server
=================================================
  === deleted 1 records ===
=================================================
Execution status of deactivation script on HPC07-S01: PASSED
Please check /var/TKLC/log/DcaDeactivateBscoped.log,HPC07-S01 for more details.
FIPS integrity verification test failed.
FIPS integrity verification test failed.
================================================================================
Starting Deactivation on Standby NOAMP server if present in topology.
================================================================================
HPC07-N01 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-N01
-------- Start of Log Data in file /var/TKLC/log/DcaDeactivateAscoped.log --------
Server Name : HPC07-NO1
Server Role : NETWORK_OAMP
Node Id : HPC07-NO1
HA State : Active
Cluster Role : Primary

====================================
Remove Dca Application KPI groups
====================================
== deleted 1 records ==

============================================
Remove Dca Application Measurement groups
============================================
== deleted 1 records ==

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

== deleted 1 records ==
Appendix F.  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.