Oracle® Communications
Diameter Signaling Router
Release 5.1/6.0/7.0/7.1
DSR CPA Feature Activation Procedure
E58663 Revision 02

MAY 2015
Oracle Communications Diameter Signaling Router CPA feature activation procedure release 5.1/6.0/7.0/7.1
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See more information on MOS in the Appendix section.
# Table of Contents

LIST OF PROCEDURES .................................................................................................................. 4
LIST OF TABLES ........................................................................................................................... 5

1.0 INTRODUCTION ..................................................................................................................... 6
  1.1 PURPOSE AND SCOPE .......................................................................................................... 6
  1.2 ACRONYMS ........................................................................................................................ 6
  1.3 GENERAL PROCEDURE STEP FORMAT ............................................................................ 7

2.0 FEATURE ACTIVATION OVERVIEW ..................................................................................... 7
  2.1 DEFINITION OF ACTIVATION FOR THE CPA FEATURE ..................................................... 8
  2.2 FEATURE ACTIVATION OVERVIEW .................................................................................. 8
     2.2.1 Pre-Feature Activation Overview ............................................................................... 8
     2.2.2 Feature Activation Execution Overview ....................................................................... 9
     2.2.3 Post-Feature Activation Overview .............................................................................. 9
  2.3 FEATURE DEACTIVATION OVERVIEW .............................................................................. 10
     2.3.1 Pre-Feature Deactivation Overview ......................................................................... 10
     2.3.2 Feature Deactivation Execution Overview .................................................................. 10
     2.3.3 Post-Feature Deactivation Overview ....................................................................... 11

3.0 FEATURE ACTIVATION PREPARATION ............................................................................... 11
  3.1 SYSTEM TOPOLOGY CHECK .............................................................................................. 12
  3.2 PERFORM HEALTH CHECK ............................................................................................... 15

4.0 FEATURE ACTIVATION ........................................................................................................... 18
  4.1 PRE-ACTIVATION PROCEDURES ...................................................................................... 19
     4.1.1 Perform Health Check ............................................................................................... 19
  4.2 ACTIVATION PROCEDURES .............................................................................................. 23
  4.3 POST-ACTIVATION PROCEDURES .................................................................................... 30
     4.3.1 Perform Health Check ............................................................................................... 30

5.0 FEATURE DEACTIVATION ..................................................................................................... 33
  5.1 PRE-DEACTIVATION PROCEDURES .................................................................................. 33
     5.1.1 PERFORM HEALTH CHECK ..................................................................................... 34

6.0 FEATURE DEACTIVATION ..................................................................................................... 37
  6.1 FEATURE DEACTIVATION ................................................................................................... 37
  6.2 POST-DEACTIVATION PROCEDURES ............................................................................... 42
     6.2.1 Perform Health Check ............................................................................................... 42

7.0 ENGINEERING NOTES .......................................................................................................... 44
  7.1.1 SAMPLE OUTPUT OF ACTIVATION ON ACTIVE NOAM ............................................... 44
  7.1.2 SAMPLE OUTPUT OF DEACTIVATION ON ACTIVE NOAM ........................................ 48

APPENDIX A. MY ORACLE SUPPORT (MOS) ........................................................................... 51
LIST OF PROCEDURES

TABLE 1 ACRONYMS .................................................................................................................................6
FIGURE 1: EXAMPLE OF A PROCEDURE STEP ..........................................................................................7
TABLE 2: PRE-FEATURE ACTIVATION OVERVIEW .....................................................................................8
TABLE 3: FEATURE ACTIVATION EXECUTION OVERVIEW .........................................................................9
TABLE 4: POST-FEATURE ACTIVATION OVERVIEW .....................................................................................9
TABLE 5: PRE-FEATURE DEACTIVATION OVERVIEW ...............................................................................10
TABLE 6: FEATURE DEACTIVATION OVERVIEW .......................................................................................10
TABLE 7: POST-FEATURE DEACTIVATION OVERVIEW ..............................................................................11
PROCEDURE 1: SYSTEM TOPOLOGY CHECK ............................................................................................12
PROCEDURE 2: PERFORM HEALTH CHECK (FEATURE ACTIVATION PREPARATION) ................................15
PROCEDURE 3: PERFORM HEALTH CHECK (PRE FEATURE ACTIVATION) ............................................19
PROCEDURE 4: FEATURE ACTIVATION ....................................................................................................23
PROCEDURE 5: PERFORM HEALTH CHECK (POST-FEATURE ACTIVATION) ...........................................30
PROCEDURE 6: PERFORM HEALTH CHECK (PRE-FEATURE DEACTIVATION) .......................................34
PROCEDURE 7: FEATURE DEACTIVATION ...............................................................................................37
PROCEDURE 8: PERFORM HEALTH CHECK (POST-FEATURE DEACTIVATION) ........................................42
LIST OF TABLES

Table 1 Acronyms ..................................................................................................................6
Figure 1: Example of a procedure step ..................................................................................7
Table 2: Pre-Feature Activation Overview ..........................................................................8
Table 3: Feature Activation Execution Overview .................................................................9
Table 4: Post-Feature Activation Overview ........................................................................9
Table 5: Pre-Feature Deactivation Overview ......................................................................10
Table 6: Feature Deactivation Overview .............................................................................10
Table 7: Post-Feature Deactivation Overview .....................................................................11
Procedure 1: System Topology Check ..............................................................................12
Procedure 2: Perform Health Check (Feature Activation Preparation) ..............................15
Procedure 3: Perform Health Check (Pre Feature Activation) ............................................19
Procedure 4: Feature Activation .......................................................................................23
Procedure 5: Perform Health Check (Post-Feature Activation) .........................................30
Procedure 6: Perform Health Check (Pre-Feature Deactivation) .......................................34
Procedure 7: Feature Deactivation ....................................................................................37
Procedure 8: Perform Health Check (Post-Feature Deactivation) .....................................42
1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

This document defines the procedure that is executed to activate the Charging Proxy Application (CPA) feature on DSR 5.1/6.0/7.0/7.1 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 CPA feature is activated during a planned maintenance window to minimize the impact to network traffic.

This document also provides a procedure to deactivate CPA after it has been activated. Please see Section 2.3 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 CPA feature is activated at a later time. CPA also requires SBR function for which software is also included in standard installation.

1.2 ACRONYMS

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>BNS</td>
<td>Broadband Networking Solutions</td>
</tr>
<tr>
<td>CPA</td>
<td>Charging Proxy Application</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>IPFE</td>
<td>Internet Protocol Front End</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>SBR</td>
<td>Session Binding Repository</td>
</tr>
<tr>
<td>SSH</td>
<td>Secure Shell</td>
</tr>
<tr>
<td>UI</td>
<td>User Interface</td>
</tr>
<tr>
<td>VIP</td>
<td>Virtual IP</td>
</tr>
<tr>
<td>VPN</td>
<td>Virtual Private Network</td>
</tr>
<tr>
<td>XMI</td>
<td>External Management Interface</td>
</tr>
</tbody>
</table>
1.3 GENERAL PROCEDURE STEP FORMAT

Figure 1: Example of a procedure step 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: Example of a procedure step).

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

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

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

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

Figure 1: Example of a procedure step

2.0 FEATURE ACTIVATION OVERVIEW

This section lists the required materials and information needed to execute the feature activation. In addition, Table 2: Pre-Feature Activation Overview through Table 7 provides estimates of the time required to execute the procedure. These tables can be used to estimate the total time necessary to complete the feature activation. The timing values shown are estimates only – use these tables to plan the timing of the activation, not to execute the procedure. The detailed procedure steps to be executed begin in Section 4.0.
2.1 DEFINITION OF ACTIVATION FOR THE CPA FEATURE

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

All software required to run CPA 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.

Prior to feature activation, there are no CPA-related menu items visible on the OAM GUI, and there is no CPA-related processing taking place on the DA-MP(s).

After feature activation, all selectable CPA-related menu items are present on the OAM GUI, allowing full CPA configuration and provisioning. Specifically, the top-level CPA folder is visible on the Main Menu, and a new entry is added to the Diameter->Maintenance->Applications table, showing CPA and its state. After activation, the DA-MP(s) are prepared to act on CPA configuration and provisioning information entered at and replicated from the NO.

Important: Once the CPA feature is activated, it is not automatically enabled. Activation simply means the mechanism for provisioning CPA behavior is in place. The CPA application functions only after CPA has been enabled (via the Diameter->Maintenance->Applications screen). CPA should not be enabled until after the appropriate provisioning data has been entered. DSR and CPA provisioning is beyond the scope of this document. Refer to the NOAM GUI Diameter and Charging Proxy Application online help for provisioning instructions.

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</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>This Step</td>
<td>Feature Activation Preparation</td>
<td></td>
</tr>
<tr>
<td>System Topology Check</td>
<td>0:00-0:20</td>
<td>Step 1: Verify Network Element Configuration data.</td>
<td>None</td>
</tr>
<tr>
<td>(Procedure 1)</td>
<td>Cum. 0:00-0:20</td>
<td>Step 2: Verify Server Group Configuration data.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Step 3: Analyze and plan DA-MP restart sequence.</td>
<td></td>
</tr>
<tr>
<td>Perform Health Check</td>
<td>0:01-0:05</td>
<td>Step 1: Verify DSR Release.</td>
<td>None</td>
</tr>
<tr>
<td>(Procedure 2)</td>
<td>Cum. 0:21-1:05</td>
<td>Step 2: Verify Server status.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Step 3: Log all current alarms.</td>
<td></td>
</tr>
</tbody>
</table>
2.2.2 Feature Activation Execution Overview

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

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours: Minutes)</th>
<th>Activity</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perform Health Check (Procedure 3)</td>
<td>0:01-0:05 0:01-0:05</td>
<td>Step 1: Verify DSR Release. Step 2: Verify proper CPA feature state. Step 3: Verify Server status. Step 4: Verify server and server group configurations. Step 5: Log all current alarms.</td>
<td>None</td>
</tr>
<tr>
<td>Feature Activation (Procedure 4)</td>
<td>0:10-0:40 0:11-0:45</td>
<td>Step 1: Log out of NOAM GUI. Step 2: SSH to Active NO. Step 3: Log in as admusr. Step 4: Change to the feature activation directory. Step 5: Execute the feature activation script. Step 6: Log into SOAM GUI. Step 7: Verify the CPA folder is present.. Step 8: Provision and confirm SBR Subresource Mapping. Step 9: Verify Maintenance screen. Step 10: Restart each active DA-MP server. Step 11: Verify Maintenance screen. Step 12: Close SSH connections to NOAM</td>
<td>CPA is activated on DSR</td>
</tr>
</tbody>
</table>

2.2.3 Post-Feature Activation Overview

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

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours: Minutes)</th>
<th>Activity</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perform Health Check (Procedure 5)</td>
<td>0:01-0:05 0:01-0:05</td>
<td>Step 1: Verify Communication Agent connections. Step 2: Verify Server status. Step 3: Log all current alarms.</td>
<td>CPA has been activated on DSR</td>
</tr>
</tbody>
</table>
2.3 FEATURE DEACTIVATION OVERVIEW

2.3.1 Pre-Feature Deactivation Overview

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

### Table 5: Pre-Feature Deactivation Overview

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours or Minutes)</th>
<th>Activity</th>
<th>Impact</th>
</tr>
</thead>
</table>

2.3.2 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 6: Feature Deactivation Overview

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours or Minutes)</th>
<th>Activity</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deactivation Setup</td>
<td>0:01-0:20</td>
<td>The reason to deactivate has a direct impact on any additional backout preparation that must be done. Since all possible reasons cannot be predicted ahead of time, only estimates are given here. Execution time will vary.</td>
<td>None.</td>
</tr>
<tr>
<td>Deactivation (Procedure 7)</td>
<td>00:10-00:40</td>
<td>Step 1: Log out of Active NOAM GUI. Step 3: SSH into active NO. Step 4: Log in as admusr Step 5: Change directory. Step 6: Execute the feature deactivation script. Step 7: Log into NOAM GUI. Step 8: Verify the CPA folder is not present Step 9: Restart each active DA-MP server. Step 10: Verify Maintenance screen. Step 11: Close SSH connections to both NOAMs</td>
<td>CPA is deactivated on DSR.</td>
</tr>
</tbody>
</table>
2.3.3 Post-Feature Deactivation Overview

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

Table 7: Post-Feature Deactivation Overview

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours or Minutes)</th>
<th>Activity</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deactivation Procedures</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>This Step</td>
<td>Cum.</td>
<td>Deactivation Procedures</td>
</tr>
</tbody>
</table>
| Perform Health Check (Procedure 8) | 0:01-0:05 | 0:01-0:05 | Step 1: Verify Server status.  
Step 2: Log all current alarms. | None.   |

3.0 FEATURE ACTIVATION PREPARATION

This section provides detailed procedures to prepare a system for CPA feature activation. These procedures are executed outside a maintenance window.
3.1 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

This procedure verifies System Topology.

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.

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

Login as the `guiadmin` user:

Oracle System Login

Welcome to the Oracle System Login.

Unauthorized access is prohibited. This Oracle system requires the use of Microsoft Internet Explorer 8.0, 9.0, or 10.0 with support for Javascript and cookies.

Oracle and Java are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.
### Procedure 1: System Topology Check

<table>
<thead>
<tr>
<th>No.</th>
<th>Task Description</th>
<th>Steps</th>
</tr>
</thead>
</table>
| 2   | **NOAM VIP GUI:** Verify Network Configuration Data | Navigate to **Main Menu -> Configuration -> Network Elements**

Click the **Report** button.

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

<table>
<thead>
<tr>
<th></th>
<th><strong>Print</strong></th>
<th><strong>Save</strong></th>
<th><strong>Back</strong></th>
</tr>
</thead>
</table>

| 3   | **NOAM VIP GUI:** Verify Server Configuration | Navigate to **Main Menu -> Configuration -> Server Groups**

Click the **Report** button.

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

<table>
<thead>
<tr>
<th></th>
<th><strong>Print</strong></th>
<th><strong>Save</strong></th>
<th><strong>Back</strong></th>
</tr>
</thead>
</table>
### Procedure 1: System Topology Check

<table>
<thead>
<tr>
<th>4</th>
<th><strong>Analyze and plan DA-MP restart sequence</strong></th>
</tr>
</thead>
</table>

Analyze system topology and plan for any DA-MPs which will be out-of-service during the feature activation sequence.

Analyze system topology gathered in Steps 2 and 3.

Determine exact sequence which DA-MP servers will be restarted (with the expected out-of-service periods).

**Note:** It is recommended that no more than 50% of the MPs be restarted at once.
3.2 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 prior to the start of the maintenance window in which the feature activation will take place.

Procedure 2: Perform Health Check (Feature Activation Preparation)

<table>
<thead>
<tr>
<th>STEP #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>This procedure provides steps to perform needed health checks.</td>
<td></td>
</tr>
<tr>
<td>Check off (✓) each step as it is completed. Boxes have been provided for this purpose under each step number.</td>
<td></td>
</tr>
<tr>
<td>If this procedure fails, contact My Oracle Support (MOS), and ask for assistance.</td>
<td></td>
</tr>
</tbody>
</table>

1. NOAM VIP GUI: Login

   Establish a GUI session on the NOAM server by using the VIP IP address of the NOAM server. Open the web browser and enter a URL of:

   \[
   \text{http://<Primary_NOAM_VIP_IP_Address>}
   \]

   Login as the \textit{guiadmin} user:

   ![Oracle System Login](image)
Procedure 2: Perform Health Check (Feature Activation Preparation)

<table>
<thead>
<tr>
<th></th>
<th>NOAM VIP GUI: Verify Server Status</th>
<th>Navigate to Main Menu -&gt; Status &amp; Manage -&gt; Server</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>App 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>
<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 prior to proceeding with the feature activation. The activation may be able to proceed in the presence of certain Major or Critical alarms. **Contact My Oracle Support (MOS) for assistance as necessary.**
**Procedure 2: Perform Health Check (Feature Activation Preparation)**

| 3 | **NOAM VIP GUI:** Log Current Alarms | Navigate to Main Menu -> Alarms & Events -> View Active |

Click on the **Report** button

![Image of Alarms & Events with options: View Active, View History, View Trap Log]

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

![Image buttons: Print, Save, Back]
4.0 FEATURE ACTIVATION

Before feature activation, perform the system health check in Section 3.2. This check ensures that the system is ready for feature activation. Performing the system health check determines which alarms are present in the system and if feature activation can proceed with alarms.

**** WARNING *****

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

If alarms are present on the server, contact My Oracle Support (MOS), and ask for assistance. 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:
  o Session banner information such as time and date.
  o System-specific configuration information such as hardware locations, IP addresses and hostnames.
  o 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”
  o 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.
4.1 PRE-ACTIVATION PROCEDURES

4.1.1 Perform Health Check

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

**Note:** The Health Check procedure below is the same as the Health Check procedure described in Section 3.2 when preparing for feature activation, but it is repeated here to emphasize that it is being re-executed if Section 3.2 was performed outside the maintenance window.

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

<table>
<thead>
<tr>
<th>STEP #</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1      | **SOAM VIP GUI:** Login | Establish a GUI session on the SOAM server by using the VIP IP address of the SOAM server. Open the web browser and enter a URL of:  

http://<Primary_SOAM_VIP_IP_Address>  

Login as the *guiadmin* user:  

![Oracle System Login](image)  

| 2      | **SOAM VIP GUI:** Verify CPA Folder is not Present | Under **Main Menu**, verify the CPA folder is NOT present. |
Procedure 3: Perform Health Check (Pre Feature Activation)

| 3 | NOAM VIP GUI: Login | Establish a GUI session on the NOAM server by using the VIP IP address of the NOAM server. Open the web browser and enter a URL of:

`http://<Primary_NOAM_VIP_IP_Address>`

Login as the `guiadmin` user:

![Oracle System Login](image)

Welcome to the Oracle System Login.

Unauthorized access is prohibited. This Oracle system requires the use of Microsoft Internet Explorer 8.0, 9.0, or 10.0 with support for Javascript and cookies.

Oracle and Java are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.
Procedure 3: Perform Health Check (Pre Feature Activation)

<table>
<thead>
<tr>
<th>No</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td><strong>NOAM VIP GUI:</strong> Verify Server Status</td>
</tr>
</tbody>
</table>

Navigate to **Main Menu -> Status & Manage -> Server**

![Server Status Menu]

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

<table>
<thead>
<tr>
<th>App 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>
<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 prior to proceeding with the feature activation. The activation may be able to proceed in the presence of certain Major or Critical alarms. Contact My Oracle Support (MOS) for assistance as necessary.
### Procedure 3: Perform Health Check (Pre Feature Activation)

<table>
<thead>
<tr>
<th>Step</th>
<th>Task</th>
<th>Instructions</th>
</tr>
</thead>
</table>
| 5    | **NOAM VIP GUI:** Verify Server Configuration | Navigate to **Main Menu -> Configuration -> Server Groups**  
Verify SBR and optional IPFE servers and server groups have been provisioned. If provisioning is required refer to the NOAM GUI online help for provisioning instructions. 

**Note:** At least 1 SBR server and SBR server group must be provisioned for CPA to function properly. |
| 6    | **NOAM VIP GUI:** Log Current Alarms | Navigate to **Main Menu -> Alarms & Events -> View Active**  
Click on the **Report** button  
**Save** or **Print** this report, keep copies for future reference. |
### 4.2 ACTIVATION PROCEDURES

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

**Procedure 4: Feature Activation**

| STEP # |  | This procedure provides steps to Activate CPA.  

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.

|  | NOAM/SOAM VIP GUI: Logout | Logout of any active NOAM and/or SOAM GUI Sessions:  

Welcome guiadmin [Logout]  

Help |
|  | NOAM VIP: Establish an SSH session | Establish an SSH session to the NOAM VIP. Login as admusr. |
|  | NOAM VIP: Navigate to the Feature Activation Directory | Navigate to the feature activation directory by executing the following command:  

```
$ cd /usr/TKLC/dsr/prod/maint/loaders/
```
Procedure 4: Feature Activation

<table>
<thead>
<tr>
<th>No.</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td><strong>NOAM VIP:</strong> Execute the Feature Activation Script</td>
</tr>
</tbody>
</table>

Run the feature activation script by executing the following command:

```
$ ./featureActivateDeactivate
```

Choose **Activate**

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

Enter your choice: [ ]

Choose **CPA**

List of Feature you can Activate:
1. CPA
2. RBAR
3. FABR
4. Mediation
5. LoadGen
6. GLA
7. MAP Interworking

Enter the choice: [ ]

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

**Note:** As an alternative, you can also activate on all SOAM sites:

The active SO server configured in the Topology are

```
1. Neta-50-I
2. NII 50-II
```

Enter your choice on which SO you want to Activate or Deactivate the Feature: [ ]

Refer to Section 7.1.1 for output Example.
### Procedure 4: Feature Activation

<table>
<thead>
<tr>
<th>Step</th>
<th>Active SOAM GUI: Login</th>
<th>Description</th>
</tr>
</thead>
</table>
| 5    | **Active SOAM GUI: Login** | Establish a GUI session on the active SOAM server by using IP address of the SOAM server. Open the web browser and enter a URL of:  

```
http://<Active_SOAM_IP_Address>
```

Login as the `guiadmin` user: |

![Oracle System Login](image)

<table>
<thead>
<tr>
<th>Step</th>
<th>Active SOAM GUI: Verify the CPA Folder is Visible</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td><strong>Active SOAM GUI: Verify the CPA Folder is Visible</strong></td>
<td>Locate and verify the CPA folder from Main Menu is visible and the configuration folder items are present</td>
</tr>
</tbody>
</table>

![Configuration folder](image)
### Procedure 4: Feature Activation

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>Instructions</th>
</tr>
</thead>
</table>
| 7 | Active SOAM GUI: Verify Application Maintenance Screen is Visible | Navigate to Main Menu -> Diameter -> Maintenance -> Applications  
Verify CPA status is uninitialized. The following data should be displayed:  
Admin State = Disabled  
Operational State = Unk  
Operational Reason = Unk  
Congestion Level = Unk  
Click the **Enable** Button if needed  
|
| 8 | Standby SOAM GUI: Repeat Verification Steps | Repeat Steps 5-7 for the Standby SOAM  
**Note:** If the verifications for the standby SOAM differ from the Active SOAM, stop and contact My Oracle Support (MOS)  
|
| 9 | Spare SOAM GUI: Verify and Activate | Repeat Steps 5-7 for any spare SOAMs present.  
For DSR 5.1, 6.0, and 7.0, you will have to run the following command to activate CPA on each spare SOAM:  
**Note:** For DSR 7.1, skip this step.  

```bash  
$ cd /usr/TKLC/dsr/prod/maint/loaders/activate  
$ ./load.cpaActivateBsourced  ```
### Procedure 4: Feature Activation

<table>
<thead>
<tr>
<th></th>
<th>SOAM VIP GUI: Login</th>
<th>Establish a GUI session on the SOAM server by using the VIP IP address of the SOAM server. Open the web browser and enter a URL of:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><strong>http://&lt;Primary_SOAM_VIP_IP_Address&gt;</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Login as the <em>guiadmin</em> user:</td>
</tr>
</tbody>
</table>

![Oracle System Login](image-url)
Procedure 4: Feature Activation

<table>
<thead>
<tr>
<th>11</th>
<th>SOAM VIP GUI: Provision and confirm SBR Subresource Mapping</th>
</tr>
</thead>
</table>

Navigate to Main Menu -> CPA -> Configuration > SBR Subresource Mapping

The SBR Subresource Mapping screen is shown.

Verify the mapping configuration. Subresources must be numbered sequentially, starting with 0 and incremented by 1.

Click Apply.

**Note:** A warning displays saying that this screen can be edited only once.

**Note:** The update will be rejected if subresources are not numbered sequentially starting with 0.

Click Confirm to apply your changes.

Once the changes are confirmed, this pane and the configurations for the SBR on the Configuration > Server Groups screen will be read only. If you need to reconfigure subresources or SBR server groups, My Oracle Support (MOS).
## Procedure 4: Feature Activation

<table>
<thead>
<tr>
<th>Step</th>
<th>Task Description</th>
</tr>
</thead>
</table>
| 12   | **SOAM VIP GUI:** Restart DA-MPs  
      | Multiple iterations of this step may be executed during the feature activation procedure. This is dependent on the number of DA-MP servers within your system. Make a written record of the number of times the step was performed. It is recommended that no more than 50% of the DA-MPs be restarted at once.  
      | Navigate to **Main Menu -> Status & Manage -> Server**  
      | ![Status & Manage Menu](image)  
      | Select the desired DA-MPs, you can use ‘Ctrl’ to select multiple DA-MPs at once.  
      | Click the **Restart** button.  
      | Verify the Server changes to the Err state and wait until it returns to the Enabled/Norm state.  
      | Repeat for the additional DA-MPs. |
| 13   | **Active SOAM GUI:** Verify Application Maintenance Screen is Visible  
      | Navigate to **Main Menu -> Diameter -> Maintenance -> Applications**  
      | ![Maintenance Menu](image)  
      | Verify CPA status is initialized. The following data should be displayed:  
      | Admin State = Enabled  
      | Operational State = Available  
      | Operational Reason = Normal  
      | Congestion Level = Normal |
4.3 POST-ACTIVATION PROCEDURES

4.3.1 Perform Health Check

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

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

<table>
<thead>
<tr>
<th>STEP #</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NOAM VIP GUI: Login</td>
</tr>
</tbody>
</table>

Establish a GUI session on the NOAM server by using the VIP IP address of the NOAM server. Open the web browser and enter a URL of:

```
http://<Primary_NOAM_VIP_IP_Address>
```

Login as the `guiadmin` user:

![Oracle System Login]

If this procedure fails, contact My Oracle Support (MOS), and ask for assistance.
Procedure 5: Perform Health Check (Post-Feature Activation)

2

NOAM VIP GUI: Verify Communication Agent Status

Navigate to Main Menu -> Communication Agent -> Maintenance -> Connection Status

For each server name displayed, verify that the Automatic Connections field displays:
X of X Inservice – where X is the number of peer server connections.

Note: If all connections are not InService contact My Oracle Support (MOS)

3

NOAM VIP GUI: Verify Server Status

Navigate to Main Menu -> Status & Manage -> Server

Verify all Server Status is Normal (Norm) for:
Alarm (Alm), Database (DB), Replication Status, and Processes (Proc).
### Procedure 5: Perform Health Check (Post-Feature Activation)

<table>
<thead>
<tr>
<th>Steps</th>
<th>NOAM VIP GUI: Log Current Alarms</th>
<th>Navigate to Main Menu -&gt; Alarms &amp; Events -&gt; View Active</th>
</tr>
</thead>
</table>

Click on the **Report** button

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

Compare this alarm report with those gathered in the pre-activation procedures. Contact My Oracle Support (MOS) if needed.
5.0 FEATURE DEACTIVATION

Execute this section only if there is a problem and it is desired to revert back to the pre-activation version of the software. In general, as long as there are no Application Routing Rules using the CPA application, deactivation will have no impact on the system. The deactivation procedure will cause all the CPA related configuration data (including the SBR Subresource Mapping configuration data and Application Routing Rules using CPA) to be removed. The crafts person must ensure that this is acceptable.

5.1 PRE-DEACTIVATION PROCEDURES

Before beginning the feature deactivation, complete the Pre-Deactivation procedure below.
5.1.1 **Perform Health Check**
This procedure is used to determine the health and status of the DSR network and servers.

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

<table>
<thead>
<tr>
<th>STEP #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>This procedure performs a Health Check.</td>
<td></td>
</tr>
</tbody>
</table>

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. **SOAM VIP GUI: Login**
   
   Establish a GUI session on the SOAM server by using the VIP IP address of the SOAM server. Open the web browser and enter a URL of:
   
   `http://<Primary_SOAM_VIP_IP_Address>`

   Login as the *guiadmin* user:

   ![Login](image)

   *Oracle System Login*
### Procedure 6: Perform Health Check (Pre-Feature Deactivation)

<table>
<thead>
<tr>
<th></th>
<th>SOAM VIP GUI: Verify the CPA Folder is Visible</th>
<th>Locate and verify the CPA folder from Main Menu is visible and the configuration folder items are present</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td><strong>SOAM VIP GUI:</strong></td>
<td><img src="image1.png" alt="Image" /></td>
</tr>
<tr>
<td></td>
<td><strong>Verify the CPA Folder is Visible</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Note:</strong> It should only be present after feature activation, so if it is not present, then the feature is already deactivated and there is no need to complete this deactivation procedure.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>NOAM VIP GUI: Login</th>
<th>Establish a GUI session on the NOAM server by using the VIP IP address of the NOAM server. Open the web browser and enter a URL of:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td><strong>NOAM VIP GUI:</strong></td>
<td><img src="image2.png" alt="Image" /></td>
</tr>
<tr>
<td></td>
<td><strong>Login</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>http://&lt;Primary_NOAM_VIP_IP_Address&gt;</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Login as the <em>guiadmin</em> user:</td>
</tr>
</tbody>
</table>
Procedure 6: Perform Health Check (Pre-Feature Deactivation)

4. **NOAM VIP GUI: Verify Server Status**
   - Navigate to **Main Menu -> Status & Manage -> Server**
   - Verify all Server Status is Normal (Norm) for:
     - Alarm (Alm), Database (DB), Replication Status, and Processes (Proc).

5. **NOAM VIP GUI: Log Current Alarms**
   - Navigate to **Main Menu -> Alarms & Events -> View Active**
   - Click on the **Report** button
   - **Save** or **Print** this report, keep copies for future reference.

Compare this alarm report with those gathered in the pre-activation procedures. Contact My Oracle Support (MOS) if needed.
6.0 FEATURE DEACTIVATION

6.1 FEATURE DEACTIVATION

Detailed steps are given in the procedure below

Procedure 7: Feature Deactivation

<table>
<thead>
<tr>
<th>STEP #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>This procedure provides steps to Deactivate CPA.</td>
<td></td>
</tr>
</tbody>
</table>

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 | SOAM VIP GUI: Login |

Establish a GUI session on the SOAM server by using the VIP IP address of the SOAM server. Open the web browser and enter a URL of:

```
http://<Primary_SOAM_VIP_IP_Address>
```

Login as the `guiadmin` user:

![Oracle System Login](image)
## Procedure 7: Feature Deactivation

<table>
<thead>
<tr>
<th>Step</th>
<th>Task Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td><strong>Active SOAM GUI:</strong> Disable CPA Application</td>
</tr>
<tr>
<td></td>
<td>Navigate to <strong>Main Menu -&gt; Diameter -&gt; Maintenance -&gt; Applications</strong></td>
</tr>
<tr>
<td></td>
<td><img src="image" alt="Screenshot" /></td>
</tr>
<tr>
<td></td>
<td>Select the CPA applications to disable.</td>
</tr>
<tr>
<td></td>
<td><img src="image" alt="Table" /></td>
</tr>
<tr>
<td></td>
<td>Click the <strong>Disable</strong> button.</td>
</tr>
<tr>
<td></td>
<td><img src="image" alt="Buttons" /></td>
</tr>
<tr>
<td></td>
<td>The following application state should appear:</td>
</tr>
<tr>
<td></td>
<td><img src="image" alt="Table" /></td>
</tr>
<tr>
<td>3</td>
<td><strong>NOAM/SOAM VIP GUI:</strong> Logout</td>
</tr>
<tr>
<td></td>
<td>Logout of any active NOAM and/or SOAM GUI Sessions:</td>
</tr>
<tr>
<td></td>
<td><img src="image" alt="Welcome guiadmin" /></td>
</tr>
<tr>
<td>4</td>
<td><strong>NOAM VIP:</strong> Establish an SSH session</td>
</tr>
<tr>
<td></td>
<td>Establish an SSH session to the NOAM VIP. Login as <strong>admusr</strong>.</td>
</tr>
<tr>
<td>5</td>
<td><strong>NOAM VIP:</strong> Navigate to the Feature Activation Directory</td>
</tr>
<tr>
<td></td>
<td>Navigate to the feature activation directory by executing the following command:</td>
</tr>
<tr>
<td></td>
<td><code>$ cd /usr/TKLC/dsr/prod/maint/loaders/</code></td>
</tr>
</tbody>
</table>
**Procedure 7: Feature Deactivation**

<table>
<thead>
<tr>
<th>No</th>
<th>NOAM VIP: Execute the Feature Activation Script</th>
</tr>
</thead>
</table>

Run the feature activation script by executing the following command:

```
$ ./featureActivateDeactivate
```

Choose **Deactivate**

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

Enter your choice: 
```

Choose **CPA**

```
List of features you can activate:
1. CPA
2. RBAR
3. FABR
4. Mediation
5. LoadGen
6. GLA
7. MAP Interworking

Enter the choice: 
```

Choose the SOAM site for which the application will be Deactivated:

**Note:** As an alternative, you can also deactivate on all SOAM sites:

```
The active SO server configured in the topology are

1. Cetta-50-2
2. Mik-SOA

Enter your choice on which SO you want to activate or deactivate the feature: 
```

Refer to **Section 7.1.2** for output Example.
### Procedure 7: Feature Deactivation

<table>
<thead>
<tr>
<th>Step</th>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
</table>
| 7    | Active SOAM GUI: Login | Establish a GUI session on the active SOAM server by using IP address of the SOAM server. Open the web browser and enter a URL of:  

   ```text
   http://<Active_SOAM_IP_Address>
   ```  

   Login as the `guiadmin` user: |
| 8    | Active SOAM GUI: Verify the CPA Folder | Verify the CPA folder is not visible. |
| 9    | Standby SOAM GUI: Repeat Verification Steps | Repeat **Steps 7-8** for the Standby SOAM  

   **Note:** If the verifications for the standby SOAM differ from the Active SOAM, stop and contact My Oracle Support (MOS) |
| 10   | Spare SOAM GUI: Verify and Activate | Repeat **Steps 7-8** for any spare SOAMs present.  

   For DSR 5.1, 6.0, and 7.0, you will have to run the following command to Deactivate CPA on each spare SOAM:  

   **Note:** For DSR 7.1, skip this step.  

   ```bash
   $ cd /usr/TKLC/dsr/prod/maint/loaders/deactivate  
   $ ./load.cpaDeactivateBsourced
   ```
Procedure 7: Feature Deactivation

|   | SOAM VIP GUI: Restart DA-MPs | Multiple iterations of this step may be executed during the feature activation procedure. This is dependent on the number of DA-MP servers within your system. Make a written record of the number of times the step was performed. It is recommended that no more than 50% of the DA-MPs be restarted at once. Navigate to **Main Menu -> Status & Manage -> Server**

Select the desired DA-MPs, you can use 'Ctrl' to select multiple DA-MPs at once.

Click the **Restart** button.

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

Repeat for the additional DA-MPs.

|   | SOAM VIP GUI: Verify Maintenance Screen | Navigate to **Main Menu -> Diameter -> Maintenance -> Applications**

Verify the CPA application is not present. |
6.2 POST-DEACTIVATION PROCEDURES

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

6.2.1 Perform Health Check
This procedure is used to determine the health and status of the DSR network and servers.

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

<table>
<thead>
<tr>
<th>Step #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>NOAM VIP GUI: Login</td>
</tr>
</tbody>
</table>

Establish a GUI session on the NOAM server by using the VIP IP address of the NOAM server. Open the web browser and enter a URL of:

```plaintext
http://<Primary_NOAM_VIP_IP_Address>
```

Login as the `guiadmin` user:
Procedure 8: Perform Health Check (Post-Feature Deactivation)

3  NOAM VIP GUI: Verify Server Status

Navigate to **Main Menu -> Status & Manage -> Server**

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

<table>
<thead>
<tr>
<th>App 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>
<tr>
<td>Disabled</td>
<td>Norm</td>
<td>Norm</td>
<td>Norm</td>
<td>Norm</td>
</tr>
</tbody>
</table>

4  NOAM VIP GUI: Log Current Alarms

Navigate to **Main Menu -> Alarms & Events -> View Active**

Click on the **Report** button

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

Compare this alarm report with those gathered in the pre-Deactivation procedures. Contact My Oracle Support (MOS) if needed.
7.0 ENGINEERING NOTES

7.1.1 SAMPLE OUTPUT OF ACTIVATION ON ACTIVE NOAM

Run script to Activate cpa Feature

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

Execution of Activation/Deactivation Process Starts

```
Starting Activation/Deactivation process....
```

Executing `/usr/TKLCL/dsr/prod/maint/loaders/activate/load.cpaActivateAsourced script on HPC02-NO2`

Add CPA KPI group to table KPIVisibility
```
KPI_Group=CPA
Visibility=VIS_SO
```

Add CPA Measurement groups to table MeasVisibility
```
Meas_Group=CPA Performance
Visibility=VIS_SO
```
```
Meas_Group=CPA Exception
Visibility=VIS_SO
```
```
Meas_Group=CPA Session DB
Visibility=VIS_SO
```

Add CPA GUI permission group to table app_permission_groups
```
_appid=17
```
```
_group_id=8000
```
```
_group_name=CPA Configuration Permissions
```

Add CPA GUI permission group to table app_permission_groups
```
_appid=17
```

Starting to Execute the Loaders on StandBy server

Executing `/usr/TKLCL/dsr/prod/maint/loaders/activate/load.cpaActivateAsourced script on HPC02-NO1`

Add CPA GUI permission group to table app_permission_groups
```
_appid=17
```
group_id=8000
group_name=CPA Configuration Permissions
========================================
KPI_Group=SBR
Visibility=VIS_SO
========================================
Meas_Group=SBR Performance
Visibility=VIS_SO
========================================
Meas_Group=SBR Exception
Visibility=VIS_SO
========================================
The Active SO server configured in the Topology are

1. HPC02
2. ALL SOs

Enter your choice on which SO you want to Activate or Deactivate the Feature : 1

This is a 3 Tier Setup, So run the B sourced loaders on SO server : HPC02

Executing /usr/TKLC/dsr/prod/maint/loaders/activate/load.cpaActivateBsourced script on HPC02

Add CPA to DsrApplication table.
If already present, no update will occur

id=5
ame=CPA
unavailableAction=SendAnswer
avpInsertion=No
shutdownMode=Graceful
shutdownTimer=5
resultCode=3004
vendorId=0
errorString=CPA Unavailable
resExhResultCode=3004
resExhVendorId=0
resExhErrorString=DSR Generated Answer
routeListId=65535
realm=
fqdn=
mcl=0

Add Common CPA DSR Application measurements to table MeasRptGroup

repgrp=DSR Application Exception
measid=10704
subgrp=

repgrp=DSR Application Exception
measid=10705
subgrp=

repgrp=DSR Application Performance
measid=10700
subgrp=

repgrp=DSR Application Performance
measid=10701

repgrp=DSR Application Exception
measid=10704
subgrp=

repgrp=DSR Application Performance
measid=10700
subgrp=

repgrp=DSR Application Performance
measid=10701
Add CPA GUI permission group to table app_permission_groups

appid=17
group_id=8000
group_name=CPA Configuration Permissions

Executing the Loaders and Clearing Cache on Standby SO servers.

Starting to Execute the Loaders on Standby server

Executing /usr/TKLC/dsr/prod/maint/loaders/activate/load.cpaActivateBsourced script on HPC02-S01

Current server is HA STANDBY

Add Common CPA DSR Application measurements to table MeasRptGroup

repgrp=DSR Application Exception
measid=10704
subgrp=

repgrp=DSR Application Exception
measid=10705
subgrp=

repgrp=DSR Application Performance
measid=10700
  subgrp=
  =
  repgrp=DSR Application Performance
measid=10701
  subgrp=
  =
  repgrp=DSR Application Performance
measid=10702
  subgrp=
  =
  repgrp=DSR Application Performance
measid=10703
  subgrp=
  =
  repgrp=DSR Application Performance
measid=10706
  subgrp=
  =
  repgrp=DSR Application Performance
measid=10707
  subgrp=
  =
  repgrp=DSR Application Performance
measid=10708
  subgrp=
  =
  repgrp=DSR Application Performance
measid=10709
  subgrp=
  =
  repgrp=DSR Application Performance
measid=10745
  subgrp=
  =
  repgrp=DSR Application Performance
measid=10746
  subgrp=
  =
  repgrp=DSR Application Performance

Add CPA GUI permission group to table app_permission_groups

  _appid=17
  group_id=8000
  group_name=CPA Configuration Permissions

Do you want to activate/deactivate this feature on another System OAM Server[Y/N] : n
{admusr@HPC02-NO2 loaders]$


Enter your choice : 1
Run script to Deactivate cpa Feature

Execution of Activation/Deactivation Process Starts
Starting Activation/Deactivation process....
The Active SO server configured in the Topology are
1. HPC02-SO2
2. ALL SOs
Enter your choice on which SO you want to Activate or Deactivate the Feature :1
Verifying feature is activated or not on HPC02-SO2
CPA is activated on HPC02-SO2
Executing /usr/TKLC/dsr/prod/maint/loaders/deactivate/load.cpaDeactivateAsourced script on HPC02-SO2
Removing CPA KPI group from table KPIVisibility
Removing CPA Measurement Groups from table MeasVisibility
Verifying CPA KPI group has been deleted from table KPIVisibility
Verifying CPA Measurement Groups have been deleted from table MeasVisibility
Removing CPA GUI permissions from table app_permission_groups
Removing CPA GUI permissions from table app_permission_groups

== deleted 1 records ==

---

---
Starting to Execute the Loaders on StandBy server

Executing /usr/TKLC/dsr/prod/maint/loaders/deactivate/load.cpaDeactivateAsourced script on HPC02-M01

Verifying CPA KPI group has been deleted from table KPIVisibility

Verifying CPA Measurement Groups have been deleted from table MeasVisibility

Removing CPA GUI permissions from table app_permission_groups

Removing CPA GUI permissions from table app_permission_groups

This is a 3 Tier Setup, So run the B sourced loaders on SO server : HPC02-S02

Executing /usr/TKLC/dsr/prod/maint/loaders/deactivate/load.cpaDeactivateBsourced script on HPC02-S02

Current server is HA ACTIVE

Removing CPA from the DsrApplicationPerMp table

Removing CPA from the DsrApplication table

Removing CPA DSR Application measurements from table MeasRptGroup

Removing Rule appRuleId=5 from the AppRuleCondition Table

Removing all ART rules pointing to CPA in table AppRouteRule

Removing all ART rules pointing to CPA in table AppRouteRule

Removing CPA from the DsrApplicationPerMp table

Removing CPA from the DsrApplication table

Removing CPA DSR Application measurements from table MeasRptGroup
Verifying CPA data has been deleted. No db data will be displayed if successful

Verifying CPA ART data has been deleted from table AppRouteRule

Verifying dsrAppId=5 [CPA] has been removed from the DsrApplicationPerMp Table

Verifying CPA has been removed from the DsrApplication Table

Verifying CPA GUI permissions have been deleted from table app_permission_groups

- appid=17
  - group_id=8000
  - group_name=CPA Configuration Permissions

Verifying CPA DSR Application measurements have been deleted from table MeasRptGroup

VERIFICATION COMPLETE

Removing CPA GUI permissions from table app_permission_groups

Executing the Loaders and Clearing Cache on Standby SO servers.

Starting to Execute the Loaders on Standby server

Executing /usr/TKLC/dsr/prod/maint/loaders/deactivate/load.cpaDeactivateBsourced script on HPC02-S01

Current server is HA STANDBY

Removing CPA DSR Application measurements from table MeasRptGroup

Verifying CPA data has been deleted. No db data will be displayed if successful

Verifying CPA ART data has been deleted from table AppRouteRule

Verifying dsrAppId=5 [CPA] has been removed from the DsrApplicationPerMp Table

Verifying CPA has been removed from the DsrApplication Table

Verifying CPA GUI permissions have been deleted from table app_permission_groups

- appid=17
  - group_id=8000
  - group_name=CPA Configuration Permissions
Verifying CPA DSR Application measurements have been deleted from table MeasRptGroup
VERIFICATION COMPLETE

Removing CPA GUI permissions from table app_permission_groups

--- deleted 1 records ---
--- deleted 1 records ---

Do you want to activate/deactivate this feature on another System OAM Server[Y/N] : n

APPENDIX A. MY ORACLE SUPPORT (MOS)

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

Call the CAS main number at 1-800-223-1711 (toll-free in the US), or call the Oracle Support hotline for your local country from the list at http://www.oracle.com/us/support/contact/index.html.

When calling, there are multiple layers of menus selections. Make the selections in the sequence shown below on the Support telephone menu:

1) For the first set of menu options, select 2, “New Service Request”. You will hear another set of menu options.

2) In this set of menu options, select 3, “Hardware, Networking and Solaris Operating System Support”. A third set of menu options begins.

3) In the third set of options, select 2, “Non-technical issue”. Then you will be connected to a live agent who can assist you with MOS registration and provide Support. Identifiers. Simply mention you are a Tekelec Customer new to MOS.