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

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1. Introduction

1.1 Purpose and Scope

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

This document also provides a procedure to deactivate MAP-Diameter IWF after it has been activated. Please see Section 6 for a discussion of deactivation.

No additional software installation is required before executing this procedure. The standard DSR installation procedure has loaded all of the required software, even if the MAP-Diameter feature is activated later.

1.2 Acronyms and Terms

An alphabetized list of acronyms used in the document.

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA-MP</td>
<td>Diameter Agent Message Processor</td>
</tr>
<tr>
<td>DB</td>
<td>Database</td>
</tr>
<tr>
<td>DIH</td>
<td>Diameter Intelligent Hub</td>
</tr>
<tr>
<td>DM-IWF</td>
<td>Diameter Interworking Function. The DSR Application, which resides on a DA-MP, which manages Diameter transactions between the local DRL instance and the MD-IWFs on the SS7-MPs.</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>IDIH</td>
<td>Integrated DIH</td>
</tr>
<tr>
<td>IP</td>
<td>Internet Protocol</td>
</tr>
<tr>
<td>IWF</td>
<td>InterWorking Function</td>
</tr>
<tr>
<td>MAP</td>
<td>Mobile Application Part</td>
</tr>
<tr>
<td>MD-IWF</td>
<td>MAP Interworking Function. The TCAP application, which resides on a SS7-MP, which performs (1) the interworking of Diameter transactions received from DA-MPs to SS7-MAP transactions initiated towards SS7 network nodes and (2) the interworking of SS7-MAP transactions received from SS7 network nodes to Diameter transactions initiated towards Diameter Nodes via MD-IWFs on DA-MPs.</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>NOAM</td>
<td>Network OAM</td>
</tr>
</tbody>
</table>
### Acronym | Definition
---|---
OAM | Operations, Administration and Maintenance
RMS | Rack Mounted Server
SOAM | System OAM
SSH | Secure Shell
UI | User Interface
VIP | Virtual IP
VPN | Virtual Private Network
XMI | External Management Interface

#### 1.3 General Procedure Step Format
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.*

#### Figure 1: Example of a Procedure Step

|   |  
|---|---
| **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
Table 5 and Table 9 provide a high-level overview of the actual activation and deactivation process on DSR. The reader is also invited to review the sample screens and the corresponding OAM topology to get a feel for how MAP-Diameter IWF is deployed in terms of OAM hierarchy.

This section lists the required materials and information needed to execute the feature activation. In addition, Table 4 through Table 9 provide estimates of the time required to execute the procedure. These tables can be used to estimate the total time necessary to complete the feature activation. The timing values shown are estimates only – use these tables to plan the timing of the activation, **not** to execute the procedure. The detailed procedure steps to be executed begin in Section 5.
2.1 Definition of Activation for the Map-Diameter Feature

This section briefly defines what activation means with respect to the MAP-Diameter IWF feature. In general, activation of a feature refers to the initialization of the feature on DSR making it possible to further configure and provision the feature on DSR.

MAP-Diameter IWF feature consists of two (co-operating) DSR Applications:

- DM-IWF - the DSR Application that runs on DA-MPs; and
- MD-IWF – the DSR Application that runs on SS7-MPs

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

Prior to MAP-Diameter IWF feature activation, there are no MAP-Diameter IWF related menu items visible on the SOAM GUI or NOAM GUI, and there is no MAP-Diameter IWF related processing taking place on the DA-MPs or SS7-MPs.

After feature activation, all selectable MAP-Diameter IWF related menu items are present on the SOAM and NOAM GUI, allowing full MAP-Diameter IWF configuration and provisioning. Specifically, for MAP-Diameter IWF, the top-level MAP-Diameter IWF folder is visible on the Main Menu on the NOAM, under which, the “Configuration” folder with MD-IWF Options, Diameter Realm, Diameter Identity, GTA Range to PC and MAP Exception screens shall be visible.

![Figure 2: Example of MAP Interworking Folder on NOAM](image)

On the SOAM, the MAP-Diameter IWF folder shall be visible, which shall have a Configuration folder with DM-IWF Options and Diameter Exception screens. In addition, the SS7/Sigtran and Transport Manager folders are visible.

![Figure 3: Example of MAP Interworking Folder on SOAM](image)

![Figure 4: Example of SS7/Sigtran Folder on SOAM](image)
On SOAM, new entries are added to the **Diameter -> Maintenance -> Applications** screen, showing the state of the two DSR Application components (DM-IWF and MD-IWF) that make up the MAP-Diameter IWF feature.

<table>
<thead>
<tr>
<th>Application Name</th>
<th>MP Server Hostname</th>
<th>Admin State</th>
<th>Operational Status</th>
<th>Operational Reason</th>
<th>Congestion Level</th>
<th>Time of Last Update</th>
</tr>
</thead>
<tbody>
<tr>
<td>DM-IWF</td>
<td>ZombieDAM P1</td>
<td>Disabled</td>
<td>Unavailable</td>
<td>ShutDown</td>
<td>Normal</td>
<td>2016-Nov-08 13:19:37 EST</td>
</tr>
<tr>
<td>DM-IWF</td>
<td>ZombieDAM P2</td>
<td>Disabled</td>
<td>Unavailable</td>
<td>ShutDown</td>
<td>Normal</td>
<td>2016-Nov-08 13:19:37 EST</td>
</tr>
<tr>
<td>MD-IWF</td>
<td>ZombieSS7 MP1</td>
<td>Disabled</td>
<td>Unavailable</td>
<td>ShutDown</td>
<td>Normal</td>
<td>2016-Nov-08 13:19:37 EST</td>
</tr>
</tbody>
</table>

**Important:** Once the MAP-Diameter IWF feature is activated, it is not automatically enabled. Activation simply means the mechanism for provisioning MAP-Diameter IWF behavior is in place. The DA-MP(s) and SS7-MP(s) will act on provisioning information and begin providing service only after the DM-IWF and MD-IWF DSR applications have been enabled (via the **Diameter -> Maintenance -> Applications** screen).

The SS7-MP(s) will act on provisioning information and begin providing service only after the MD-IWF DSR application has been enabled (via the **Diameter -> Maintenance -> Applications** screen).

The crafts person shall be offered a choice whether to activate the DSR Application for each of the B-level OAMs (SOAMs) subtending from the A-level OAM (NOAM). It is possible to activate the DSR Application on only some of the B-level OAMs (SOAMs).

If the crafts person selects to activate a MAP-Diameter IWF on a given B-level OAM (SOAM), all DA and SS7 MPs under that B-level OAM shall have the DSR Application activated. There is no option to exclude some activation MAP-Diameter IWF for some DA or SS7 MPs under that B-level OAM (SOAM).

If the crafts person selects not to activate MAP-Diameter IWF on a given B-level OAM (SOAM), none of the DA or SS7 MPs under that B-level OAM (SOAM) shall have MAP-Diameter IWF activated. There is no option to activate MAP-Diameter IWF only for some DA or SS7 MPs in under that B-level OAM (SOAM).

Once MAP-Diameter IWF is activated on a given B-level OAM (SOAM) in this fashion, it is possible to deactivate MAP-Diameter IWF on that specific B-level OAM (SOAM) or on all SOAMs at a later time.
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 2. Pre-Feature Activation Overview

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours:Minutes)</th>
<th>Feature Activation Preparation Procedures</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>This Step</td>
<td>Cum.</td>
<td></td>
</tr>
<tr>
<td>System Topology Check (Procedure 1)</td>
<td>0:00-0:20</td>
<td>0:00-0:20</td>
<td>• Verify Network Element Configuration data.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Verify System Group Configuration data.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Analyze and plan DA-MP restart sequence.</td>
</tr>
<tr>
<td>Perform Health Check (Procedure 2)</td>
<td>0:01-0:05</td>
<td>0:01-0:25</td>
<td>• Verify DSR release.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Verify server status.</td>
</tr>
<tr>
<td></td>
<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 3. Feature Activation Execution Overview

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours:Minutes)</th>
<th>Feature Activation Execution Procedures</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 2)</td>
<td>0:01-0:05</td>
<td>0:01-0:05</td>
<td>• Verify DSR release.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Verify proper feature state for MAP-Diameter IWF.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Verify server status.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Log all current alarms.</td>
</tr>
</tbody>
</table>
### Feature Activation Procedure

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours:Minutes)</th>
<th>Feature Activation Execution Procedures</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>This Step</td>
<td>Cum.</td>
<td></td>
</tr>
<tr>
<td>Feature Activation (Procedure 4)</td>
<td>0:10-0:40</td>
<td>0.11-0:50</td>
<td>• Log out of NOAM/SOAM GUI.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• SSH to active NOAM.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Login as admusr.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Change directory to /usr/TKLC/dsr/prod/maint/loaders/</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Execute the feature activation script.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Log into SOAM GUI</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Verify GUI folders relevant to MAP-Diameter IWF.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Verify Maintenance screens.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Log into NOAM GUI</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Verify GUI folders relevant to MAP-Diameter IWF</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Restart each active DA-MP and SS7-MP server.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Verify Maintenance screen.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MAP-Diameter IWF is activated</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 4. Post-Feature Activation Overview**

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours:Minutes)</th>
<th>Feature Activation Completion Procedures</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perform Health Check (Procedure 5)</td>
<td>This Step</td>
<td>Cum.</td>
<td>• Verify server status.</td>
</tr>
<tr>
<td></td>
<td>0:01-0:05</td>
<td>0:01-0:05</td>
<td>• Log all current alarms.</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 5. Pre-Feature Deactivation Overview

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours:Minutes)</th>
<th>Deactivation Preparation Procedures</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 6)</td>
<td>0:01-0:05</td>
<td>0:01-0:05</td>
<td>• Verify DSR release.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Verify proper MAP-Diameter IWF feature state.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Verify server status.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• 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 6. Feature Deactivation Overview

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Elapsed Time (Hours:Minutes)</th>
<th>Deactivation Procedures</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 will vary.</td>
</tr>
</tbody>
</table>
## Deactivation Procedures

### Impact

**MAP-Diameter IWF is deactivated**

### Deactivation Procedures

- Log out of active NOAM/SOAM GUI.
- SSH into active NOAM.
- Login as admusr.
- Change directory to `/usr/TKLC/dsr/prod/maint/loaders/`
- Execute the feature deactivation script.
- Log into NOAM GUI
- Restart each active DA-MP and SS7-MP server.
- Log into SOAM GUI
- Verify the GUI folders for MAP-Interworking.
- Log into NOAM GUI (if not already logged in).
- Verify GUI folders for MAP-Interworking.

### 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:Minutes)</th>
<th>Post Deactivation Procedures</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perform Health Check (Procedure 9)</td>
<td>0:01-0:05</td>
<td>• Verify server status.</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Log all current alarms.</td>
<td></td>
</tr>
</tbody>
</table>
4. Feature Activation Preparation

This section provides detailed procedures to prepare a system for MAP-Diameter IWF feature activation. These procedures are executed outside a maintenance window.

4.1 Hardware Requirements

4.1.1 DA-MP

DM-IWF, a component of the MAP-Diameter IWF feature, is the DSR application that runs on the DA-MPs. DM-IWF has specific requirements with respect to supported hardware types and minimum memory requirement. If MAP-Diameter IWF feature is activated on a DA-MP, which does not meet these minimum requirements, the “dsr” process shall fail to come up on such DA-MPs. Hence, it is imperative that the crafts person verify that the minimum DM-IWF hardware requirements are met before activating this feature. Detailed information on the procedure to verify hardware requirements shall be provided later.

If the DA-MP hardware or memory does not meet the requirements, contact My Oracle Support (MOS) for assistance on upgrading the hardware and/or memory. It is the responsibility of the crafts person to ensure all DA-MPs under the SOAM(s) on which MAP-Diameter IWF is to be activated comply with the hardware and minimum memory requirements prior to activating MAP-Diameter IWF.

Table 8. DA-MP (DM-IWF) Hardware Requirements

<table>
<thead>
<tr>
<th>Supported Hardware Types for DA-MP</th>
<th>Minimum Memory Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMS (Virtualized MP - TVOE guest)</td>
<td>24GB (24576 MB)</td>
</tr>
<tr>
<td>G8 (BL460 Gen8 HP C-class (half height) server blade)</td>
<td>64GB (65536 MB)</td>
</tr>
<tr>
<td>G9 (BL460 Gen9 HP C-class (half height) server blade) – DSR 7.1+ Only</td>
<td>64GB (65536 MB)</td>
</tr>
</tbody>
</table>

4.1.2 SS7-MP

MD-IWF, a component of the MAP-Diameter IWF feature, is the DSR application that runs on the SS7-MPs. MD-IWF has specific requirements with respect to supported hardware types and minimum memory requirement. If MAP-Diameter IWF feature is activated on an SS7-MP, which does not meet these minimum MD-IWF requirements, the “mapiwf” process shall fail to come up on such SS7-MPs. Hence, it is imperative that the crafts person verify that the minimum DM-IWF hardware requirements are met before activating this feature. The detailed procedure to verify hardware requirements for SS7-MPs shall be presented later.

If the SS7-MP hardware or memory does not meet the requirements, contact My Oracle Support (MOS) for assistance on upgrading the hardware and/or memory. It is the responsibility of the crafts person to ensure that all SS7-MPs under the SOAM(s) on which MAP-Diameter IWF is to be activated comply with the minimum hardware requirements before activating MAP-Diameter IWF.

Table 9. SS7-MP (MD-IWF) Hardware Requirements

<table>
<thead>
<tr>
<th>Supported Hardware Types for SS7-MP</th>
<th>Minimum Memory Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMS (Virtualized MP – TVOE guest)</td>
<td>24GB (24576 MB)</td>
</tr>
<tr>
<td>G8 (BL460 Gen8 HP C-class (half height) server blade)</td>
<td>128GB (65536 MB)</td>
</tr>
<tr>
<td>G9 (BL460 Gen9 HP C-class (half height) server blade) – DSR 7.1+ Only</td>
<td>128GB (65536 MB)</td>
</tr>
</tbody>
</table>
4.2 System Topology and Hardware Check

This procedure is part of feature activation preparation and is used to verify the system topology of the DSR network and servers and to validate that the MP servers meet the hardware type requirement and minimum memory requirement for MAP-Diameter IWF feature.

<table>
<thead>
<tr>
<th>Table 10. List of SOAM Server Groups supporting MAP-Diameter IWF</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOAM Server Group Name</td>
</tr>
<tr>
<td>------------------------</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Table 11. Checklist for DA-MP information</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOAM Server Group Name</td>
</tr>
<tr>
<td>------------------------</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

Duplicate this checklist, once for each SOAM Server Group on which MAP-Diameter IWF is being set up.

<table>
<thead>
<tr>
<th>Table 12. Checklist for SS7-MP information</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOAM Server Group Name</td>
</tr>
<tr>
<td>------------------------</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

Duplicate this checklist, once for each SOAM Server Group on which MAP-Diameter IWF is being set up. If there are more than one SS7-MP Server Groups configured under the SOAM Server Group, duplicate this checklist for each SOAM Server Group – SS7-MP Server Group combination.
The following table maps the output of the command `cat /var/TKLC/hardware/hw_id` (executed on DA or SS7 MP servers) to a concise hardware type.

**Table 13. Hardware ID to Hardware Type Mapping for MP servers**

<table>
<thead>
<tr>
<th>Hardware ID</th>
<th>Hardware Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>ProLiantBL460cGen8</td>
<td>G8</td>
</tr>
<tr>
<td>ProLiantBL460cGen9</td>
<td>G9</td>
</tr>
<tr>
<td>KVM</td>
<td>RMS</td>
</tr>
</tbody>
</table>

For the SS7-MP server group, there is currently a limitation of one SS7-MP per server group (this limitation is required due to how the SS7 stack operates). The only SS7-MP server group configuration supported is N+0 (Active/Active) where N=1. This also implies that if more than one SS7-MP needs to be provisioned under an SOAM server group, it shall require multiple SS7-MP server groups to be configured under the SOAM server group. The crafts person should keep this in mind.

Note that the hardware ID referred to here, is the hardware ID obtained by logging on to the MP. In case of RMS setups, this is a virtualized MP (TVOE guest), not the TVOE host machine. To clarify this distinction, please review the following example. The TVOE host machine below has the following information, which is a DL380 based machine with 128GB (131072 MB) of memory.

```
[admusr@hubtones1-TVOE ~]# cat /var/TKLC/hardware/hw_id
ProLiantDL380pGen8
[admusr@hubtones1-TVOE ~]# sudo dmidecode --type 17 | grep -e "Size:\ [0-9]" | sed -e "s/.*: //g" -e "s/ .*//g" | paste -sd+ | bc
131072
```

Here is the output from a virtualized MP hosted on this machine. This is the information of interest to us. This virtualized MP has 24GB (24576MB) of memory:

```
[admusr@HUBTONES-MP1 ~]# cat /var/TKLC/hardware/hw_id
KVM
[admusr@HUBTONES-MP1 ~]# sudo dmidecode --type 17 | grep -e "Size:\ [0-9]" | sed -e "s/.*: //g" -e "s/ .*//g" | paste -sd+ | bc
24576
```
## Procedure 1.  System Topology Check

<table>
<thead>
<tr>
<th>Step #</th>
<th>Procedure</th>
</tr>
</thead>
</table>
| 1.     | **NOAM VIP GUI:** Establish a GUI session on the NOAM server by using the VIP address of the NOAM server. Open the web browser and enter a URL of:  

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

Login as the *guiadmin* user: |

![Oracle System Login](image)
## Procedure 1. System Topology Check

### 2. NOAM VIP GUI: Verify network configuration data

Navigate to **Configuration -> Networking -> Networks.**

Select the site network element tab:

<table>
<thead>
<tr>
<th>Network Name</th>
<th>Network Type</th>
<th>Default</th>
<th>Locked</th>
</tr>
</thead>
<tbody>
<tr>
<td>XMI</td>
<td>OAM</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>IIM</td>
<td>OAM</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>xsr1</td>
<td>Signaling</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>xsr2</td>
<td>Signaling</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>xsr3</td>
<td>Signaling</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Click **Report.**

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

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

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

Click **Report.**

Verify the configuration data is correct for your network. **Save** or **Print** this report to keep copies for future reference.
## Procedure 1. System Topology Check

<table>
<thead>
<tr>
<th>Step</th>
<th>Task Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.</td>
<td>Identify the B-level OAM (SOAM) server groups and hostnames on which MAP-Diameter IWF needs to be activated. There can be multiple B-level OAM (SOAM) server groups under the parent A-level OAM (NOAM) server group. Identify which of these SOAM server groups need MAP-Diameter IWF activated. Review server configuration information obtained in Step 2 (Verify Server Configuration data). Identify all servers with a Role of System OAM. Record the Server Group name for these servers. <strong>Hint:</strong> This item can be done using the filter on the Configuration -&gt; Servers screen, filtering for the Role of System OAM, and recording the common Server Group names. For each SOAM Server Group identified in item #2, discuss with System Engineering or Network Planning and identify the SOAM Server Groups on which MAP-Diameter IWF needs to be activated. Update the checklist specified in <strong>Table 10.</strong> List of SOAM Server Groups supporting MAP-Diameter IWF. For each SOAM Server Group identified, document the SOAM servers in that server group in this checklist. Save the checklist for future reference.</td>
</tr>
</tbody>
</table>
| 5.   | Verify MP server group configuration. For each OAM Server Group of interest, verify there is an appropriately provisioned DA-MP server group and SS7-MP server group to support MAP-Diameter IWF.  
- Review Server Group Configuration information obtained in Step 3 (Verify Server Group Configuration data). Refer to the checklist **Table 10.** List of SOAM Server Groups supporting MAP-Diameter IWF created in Step 4. These are the OAM Server Groups to review. Enter each OAM Server Group in a separate copy of **Table 11.** Checklist for DA-MP information and **Table 12.** Checklist for SS7-MP information in the column SOAM Server Group Name. **Hint:** You may need multiple copies of these tables, one copy for each SOAM server group on which MAP-Diameter IWF is activated. In this case, obtain multiple blank copies of the two tables in advance.  
- For each OAM Server Group identified in item #1 as the OAM parent server group, discuss with System Engineering or Network Planning and identify one Server Group at Level C, Function **DSR (multi-active cluster),** which has at least one DA-MP server provisioned. This is used as the DA-MP Server Group. Record this (DA-MP) Server Group name and the list of DA-MPs in the DA-MP Server Group in the corresponding copy of Table 11. Checklist for DA-MP information in the column.  
- For each OAM Server Group identified as the OAM parent server group, discuss with System Engineering or Network Planning and identify one Server Group at Level C, Function **SS7-IWF,** which has at least one SS7-MP server provisioned. This is used as the SS7-MP Server Group. Record this (SS7-MP) Server Group name and the list of SS7-MPs in the SS7-MP Server Group in the corresponding copy of Table 12. Checklist for SS7-MP information in the column. All the DA-MPs and SS7-MPs that will support MAP-Diameter IWF have now been identified. |
**Procedure 1.  System Topology Check**

<table>
<thead>
<tr>
<th></th>
<th>DA-MP: Verify hardware and memory requirements</th>
</tr>
</thead>
</table>
| 6. | After completing this step, if any MP has been identified that does not meet these requirements, **DO NOT** activate MAP-Diameter IWF. Instead, contact My Oracle Support (MOS) to upgrade the hardware or memory (as need be) to meet the requirements.  
  - Review your copies of Table 11. Checklist for DA-MP information, which provide an exhaustive list all DA-MP servers that support MAP-Diameter IWF.  
  - For each listed DA-MP server, execute the following steps:  
  1. Log into the DA-MP server. A typical login session may look like this; however, the display may differ based on the login procedure and your setup:  
     
     ```
     $ ssh <XMI IP Address of DA-MP>
     ```
  2. Execute the following command to identify the hardware type. Review the output of this command, compare it with the Hardware ID column in Table 13. Hardware ID to Hardware Type Mapping and enter the corresponding hardware type for the DA-MP Hostname in Table 11. Checklist for DA-MP information. If no matching entry is found, enter **Unsupported Hardware**.  
     
     ```
     $ cat /var/TKLC/hardware/hw_id
     ```
  3. Execute the following command to determine the amount of memory (in MB) on the DA-MP server. Enter the output of this command in the Memory column against the DA-MP hostname in Table 11. Checklist for DA-MP information.  
     
     ```
     sudo dmidecode --type 17 | grep -e "Size: \[0-9]\" | sed -e "s/.*: //g" -e "s/ .*/g" | paste -sd+ | bc
     ```
     Example output:  
     24576 (MB) corresponds to 24GB (24576 / 1024)
  4. Compare your completed copies of Table 11. Checklist for DA-MP information against Table 8. DA-MP (DM-IWF) Hardware Requirements. If any DA-MP hardware type is not listed under the supported hardware types, or if the memory on the DA-MP does not meet the minimum memory requirement for that hardware type:  
     **STOP**
     
     Your hardware does not meet minimum hardware and memory requirements for MAP-Diameter IWF. Contact My Oracle Support (MOS) if necessary.
### Procedure 1. System Topology Check

#### 7. SS7-MP: Verify hardware and memory requirements

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>After completing this step, if any MP has been identified that does not meet these requirements, <strong>DO NOT</strong> activate MAP-Diameter IWF. Instead, contact My Oracle Support (MOS) to upgrade the hardware or memory (as need be) to meet the requirements.</td>
</tr>
<tr>
<td></td>
<td>- Review your copies of Table 12. Checklist for SS7-MP information, which provide an exhaustive list of all SS7-MP servers that support MAP-Diameter IWF.</td>
</tr>
<tr>
<td></td>
<td>- For each listed SS7-MP server, execute the following steps:</td>
</tr>
<tr>
<td></td>
<td>1. Log into the SS7-MP server. A typical login session may look like this; however, the display may vary based on the login procedure and your setup:</td>
</tr>
<tr>
<td></td>
<td><code>$ ssh &lt;XMI IP Address of SS7-MP&gt;</code></td>
</tr>
<tr>
<td></td>
<td>2. Execute the following command to identify the hardware type. Review the output of this command, compare it with the Hardware ID column in Table 13. Hardware ID to Hardware Type Mapping and enter the corresponding hardware type for the DA-MP Hostname in Table 11. Checklist for DA-MP information. If no matching entry is found, enter <strong>Unsupported Hardware</strong>.</td>
</tr>
<tr>
<td></td>
<td><code>$ cat /var/TKLC/hardware/hw_id</code></td>
</tr>
<tr>
<td></td>
<td>3. Execute the following command to determine amount of memory (in MB) on the SS7-MP server. Enter the output of this command in the Memory column against the DA-MP hostname in Table 12. Checklist for SS7-MP information.</td>
</tr>
<tr>
<td></td>
<td>`$ sudo dmidecode --type 17</td>
</tr>
<tr>
<td></td>
<td>Example output:</td>
</tr>
<tr>
<td></td>
<td>24576 (MB) corresponds to 24GB (24576 / 1024).</td>
</tr>
<tr>
<td></td>
<td>4. Compare your completed copies of Table 12. Checklist for SS7-MP information against Table 9. SS7-MP (MD-IWF) Hardware Requirements. If any SS7-MP hardware type is not listed under the supported hardware types, or if the memory on the SS7-MP does not meet the minimum memory requirement for that hardware type:</td>
</tr>
<tr>
<td></td>
<td>**** STOP *****</td>
</tr>
<tr>
<td></td>
<td>Your hardware does not meet minimum hardware and memory requirements for MAP-Diameter IWF. Contact My Oracle Support (MOS) if necessary.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.</td>
<td>Analyze system topology and plan for any DA-MPs and SS7-MPs, which will be out-of-service during the feature activation sequence.</td>
</tr>
<tr>
<td></td>
<td>Analyze system topology gathered in this procedure.</td>
</tr>
<tr>
<td></td>
<td>Determine the exact sequence which DA-MP and SS7-MPs servers will be restarted (with the expected out-of-service periods).</td>
</tr>
</tbody>
</table>
4.3 Perform Health Check

This procedure is part of feature activation preparation and is used to determine the health and status of the DSR release network and servers. This may be executed multiple times but must also be executed at least once within the time frame of 24-36 hours 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>
</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>  
Login as the guiadmin user: |

[Login screen image]

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 2. Perform Health Check (Feature Activation Preparation)

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

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

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

   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.

3. **NOAM VIP GUI:** Log current alarms

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

   **Click Report.**

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

Before feature activation, perform the system health check in Section 4.3. This check ensures that the system is ready for feature activation. Performing the system health check determines which alarms are present in the system and if feature activation can proceed with alarms.

**** WARNING ******

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

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

Please read the following notes on feature activation procedures:

- 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 YYYYY”
  - Aesthetic differences unrelated to functionality such as browser attributes: window size, colors, toolbars and button layouts.
- After completing each step and at each point where data is recorded from the screen, the technician performing the feature activation must initial each step. A check box should be provided. For procedures which are executed multiple times, the check box can be skipped, but the technician must initial each iteration the step is executed. The space on either side of the step number can be used (margin on left side or column on right side).
- Captured data is required for future support reference.

5.1 Pre-Activation Procedures

This procedure determines the health and status of the network and servers. It 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 4.3 when preparing for feature activation, but it is repeated here to emphasize that it is being re-executed if Section 4.3 was performed outside the maintenance window.
## Procedure 3. Perform Health Check (Pre Feature Activation)

<table>
<thead>
<tr>
<th>STEP</th>
<th>NOAM VIP GUI: Login</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</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:</td>
<td><img src="image" alt="Oracle System Login" /></td>
</tr>
<tr>
<td></td>
<td>Login as the <code>guiadmin</code> user:</td>
<td>http://&lt;Primary_NOAM_VIP_IP_Address&gt;</td>
</tr>
<tr>
<td></td>
<td>Under <strong>Main Menu</strong>, verify the MAP-Diameter IWF folder is <strong>NOT</strong> present.</td>
<td></td>
</tr>
</tbody>
</table>
Procedure 3. Perform Health Check (Pre Feature Activation)

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

   Navigate to **Status & Manage -> Server**.
   - Verify all Server Status is Normal (Norm) for:
     - Alarm (Alm)
     - Database (DB)
     - Replication Status
     - Processes (Proc)

<table>
<thead>
<tr>
<th>State</th>
<th>Alm</th>
<th>DB</th>
<th>Reporting States</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.

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

   Navigate to **Configuration -> Server Groups**.
   - Verify the configuration data is correct for your network.
Procedure 3.  Perform Health Check (Pre Feature Activation)

5. **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.

5.2 Activation Procedures

This section provides the detailed procedure steps for MAP-Diameter feature activation execution. Execute this procedure inside a maintenance window.

Procedure 4.  Feature Activation

<table>
<thead>
<tr>
<th>STEP</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td><strong>NOAM/SOAM VIP GUI:</strong> Logout of any active NOAM and/or SOAM GUI sessions:</td>
</tr>
<tr>
<td></td>
<td>Logout of any active NOAM and/or SOAM GUI sessions:</td>
</tr>
<tr>
<td></td>
<td>Establish an SSH session to the NOAM VIP. Login as admusr.</td>
</tr>
<tr>
<td>3.</td>
<td><strong>NOAM VIP:</strong> Navigate to the feature activation directory by executing the following command:</td>
</tr>
<tr>
<td></td>
<td>Navigate to the feature activation directory by executing the following command:</td>
</tr>
<tr>
<td></td>
<td>$ cd /usr/TKLC/dsr/prod/maint/loaders/</td>
</tr>
</tbody>
</table>
### Procedure 4. Feature Activation

<table>
<thead>
<tr>
<th>Step</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
```

Select **Activate**.

Enter your choice:

Select **MAP Interworking**.

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

Select 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. Jetta-30-2
2. ALL 509
```

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

Refer to Section 0 for output example.
### Procedure 4. Feature Activation

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
</table>
| 5.   | **Active NOAM GUI: Login** Establish a GUI session on the active NOAM server by using IP address of the NOAM server. Open the web browser and enter a URL of:  
  \[
  \text{http://<Active\_NOAM\_IP\_Address>}
  \]
  Login as the *guiadmin* user: |
| 6.   | **Active NOAM GUI: Verify the Map-Diameter IWF folder is visible** Locate and verify the Map-Diameter IWF folder from Main Menu is visible and the configuration folder items are present.  
  - MAP-Diameter IWF  
    - Configuration  
      - MD-IWF Options  
      - Diameter Realm  
      - Diameter Identity GTA  
      - GTA Range to PC  
      - Map Exception  
      - CCNDC Mapping |
| 7.   | **Active DR NOAM: Establish an SSH session** Establish an SSH session to the DR-NOAM. Login as *admusr*. |
### Procedure 4. Feature Activation

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
<th>Details</th>
</tr>
</thead>
</table>
| 8.   | Active DR NOAM: Navigate to the feature activation directory | Navigate to the feature activation directory by executing the following command:  

```bash
$ cd /usr/TKLC/dsr/prod/maint/loaders/activate  
$ sudo./load.mapinterworkingActivateAsourced
```

For MAP-Diameter, repeat this step for the standby DR-NOAM. Refer to section 7.2 for sample output.

|   | Standby NOAM GUI: Repeat verification steps | Repeat Steps 5-6 for the standby NOAM and DR-NOAMs.  
**Note:** If the verifications for the standby NOAM differs from the active NOAM, stop and contact My Oracle Support (MOS). |
|   | 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: |

|   | Active SOAM GUI: Verify the Map-Diameter IWF folder is visible | Locate and verify the Map-Diameter IWF folder from Main Menu is visible and the configuration folder items are present.  
- MAP-Diameter IWF  
- Configuration  
  - DM-IWF Options  
  - Diameter Exception |
### Procedure 4. Feature Activation

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
</table>
| 12. | **Active SOAM GUI:** Verify application maintenance screen is visible. Verify the DM-IWF Application is present in the Application Status screen. Navigate to **Diameter -> Maintenance -> Applications.** Verify DSR Application Name **DM-IWF** status on each DA-MP server. The following data should be displayed:  
  - MP Server Hostname = *<Refer to Table 13 Checklist>*
  - Admin State = Disabled
  - Operational State = Unk
  - Operational Reason = Unk
  - Congestion Level = Unk

Verify DSR Application Name **DM-IWF** status on each SS7-MP server. The following data should be displayed:  
  - MP Server Hostname = *<Refer to table 14 Checklist>*
  - Admin State = Disabled
  - Operational State = Unk
  - Operational Reason = Unk
  - Congestion Level = Unk |
| 13. | **SOAM VIP GUI:** Login  
Establish a GUI session on the SOAM server by using the VIP address of the SOAM server. Open the web browser and enter a URL of:  
http://<Primary_SOAM_VIP_IP_Address>  
Login as the *guiadmin* user: |
### Feature Activation

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.</td>
<td><strong>SOAM VIP GUI:</strong> Restart DA-MPs/SS7-MPs&lt;br&gt;Multiple iterations of this step may be executed during the feature activation procedure. This is dependent on the number of DA-MP and SS7-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/SS7-MPs be restarted at once. Navigate to <strong>Main Menu -&gt; Status &amp; Manage -&gt; Server</strong>&lt;br&gt;Select the desired DA-MPs/SS7-MPs, you can use ‘Ctrl’ to select multiple DA-MPs/SS7-MPs at once. Click <strong>Restart</strong>.&lt;br&gt;Click <strong>OK</strong> to confirm.&lt;br&gt;Verify the server changes to the Err state and wait until it returns to the Enabled/Norm state. Repeat for the additional DA-MPs/SS7-MPs.</td>
</tr>
<tr>
<td>15.</td>
<td><strong>Active SOAM GUI:</strong> Verify Application Maintenance Screen is Visible&lt;br&gt;Verify the Map-Diameter IWF Application is present in the Application Status screen.&lt;br&gt;Navigate to <strong>Diameter -&gt; Maintenance -&gt; Applications.</strong>&lt;br&gt;Verify Map-Diameter IWF status is initialized. The following data should display:&lt;br&gt;Admin State = Disabled&lt;br&gt;Operational State = Unavailable&lt;br&gt;Operational Reason = Shut Down&lt;br&gt;Congestion Level = Normal</td>
</tr>
</tbody>
</table>

![Application Status Screen](image-url)
5.3 Post-Activation Procedures

This procedure determines the health and status of the DSR release network and servers.

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

<table>
<thead>
<tr>
<th>STEP</th>
<th>Description</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 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)

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 server status

Navigate to Status & Manage -> Server.

- Status & Manage
  - Network Elements
  - Server
  - HA
  - Database
  - KPIs
  - Processes

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

<table>
<thead>
<tr>
<th>Status</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>

3. □ NOAM VIP GUI: Log current alarms

Navigate to Alarms & Events -> View Active.

- Alarms & Events
  - View Active
  - View History
  - View Trap Log

Click Report.

Save or Print this report to 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. 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 MAP-Diameter IWF application (specifically DM-IWF), it has no impact on the system and does not need to be deactivated.

6.1 Pre-Deactivation Procedures

Before beginning the feature deactivation, remove the SS7 configuration before deactivating the MAP-Diameter IWF application. Deactivating the MAP-Diameter IWF application (without removing configuration data or performing DR on the complete site) preserves the MAP-Diameter IWF application configuration data in the database. When re-activating the MAP-Diameter IWF application, all existing MAP-Diameter IWF application configuration data remains intact.

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>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:</td>
</tr>
<tr>
<td></td>
<td>http://&lt;Primary_NOAM_VIP_IP_Address&gt;</td>
</tr>
<tr>
<td></td>
<td>Login as the guiadmin user:</td>
</tr>
</tbody>
</table>

![Oracle System Login](image)
2. **NOAM VIP GUI:** Verify server status

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

   - Status & Manage
     - Network Elements
     - Server
     - HA
     - Database
     - KPIs
     - Processes

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

   

<table>
<thead>
<tr>
<th>Appliance 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>

3. **NOAM VIP GUI:** Log current alarms

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

   - Alarms & Events
     - View Active
     - View History
     - View Trap Log

   Click **Report.**

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

   Compare this alarm report with those gathered in the pre-activation procedures. Contact My Oracle Support (MOS) if needed.
### 6.2 Feature Deactivation

**Procedure 7. Feature Deactivate**

<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 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)

  *This procedure provides steps to Deactivate Map-Diameter IWF. 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 7. Feature Deactivate

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
</table>
| 2.   | **Active SOAM GUI:** Disable Map-Diameter IWF application  
    Navigate to Diameter -> Maintenance -> Applications.  
    Select the DM-IWF and MD-IWF applications to disable.  
    Click Disable.  
    Click OK to confirm. |
| 3. | **NOAM/NOAM VIP GUI:** Logout  
    Logout of any active NOAM and/or SOAM GUI sessions: |
| 4. | **NOAM VIP:** Establish an SSH session  
    Establish an SSH session to the NOAM VIP. Login as **admusr**. |
| 5. | **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 7.  Feature Deactivate

6.  NOAM VIP:  Execute the feature activation script

| Run the feature activation script by executing the following command: |
| $ ./featureActivateDeactivate |
| Select Deactivate. |
| You want to Activate or Deactivate the Feature: |
| 1. Activate |
| 2. Deactivate |
| Enter your choice: |

Select MAP Interworking.

| Which Feature you want to DeActivate: |
| 1. RBAR |
| 2. FABR |
| 3. Mediation |
| 4. LoadGen |
| 5. GLA |
| 6. MAP Interworking |
| 7. DTL5 |
| 8. DCA Framework |
| 9. DCA Application |

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

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

<table>
<thead>
<tr>
<th>The Active S0 server configured in the Topology are</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Jetta-S0-2</td>
</tr>
<tr>
<td>2. ALL 30s</td>
</tr>
<tr>
<td>Enter your choice on which S0 you want to Activate or Deactivate the Feature:</td>
</tr>
</tbody>
</table>

Refer to Section 7.2 for output example.
# Procedure 7. Feature Deactivate

<table>
<thead>
<tr>
<th>Step</th>
<th>Active NOAM GUI: Login</th>
<th>Standby NOAM GUI: Repeat verification steps</th>
</tr>
</thead>
</table>
| 7.   | Establish a GUI session on the active NOAM server by using IP address of the NOAM server. Open the web browser and enter a URL of:  
   ```
   http://<Active_NOAM_IP_Address>
   ```  
   Login as the `guiadmin` user:  
   ![Oracle System Login](image)  
   | Repeat Steps 7-8 for the standby NOAM.  
   **Note:** If the verifications for the standby NOAM differ from the active NOAM, stop and contact My Oracle Support (MOS) |
| 8.   | Verify the Map-Diameter IWF folder is not visible under Main Menu.  
   | |
| 9.   | Repeat verification steps | 
### Procedure 7. Feature Deactivate

<table>
<thead>
<tr>
<th></th>
<th>SOAM VIP GUI: Login</th>
<th>Establish a GUI session on the SOAM server by using the VIP address of the SOAM server. Open the web browser and enter a URL of:</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.</td>
<td><strong>http://&lt;Primary_SOAM_VIP_IP_Address&gt;</strong></td>
<td>Login as the <em>guiadmin</em> user:</td>
</tr>
</tbody>
</table>

#### 11. Active SOAM GUI: Verify the Map-Diameter IWF Folder is not visible

Verify the Map-Diameter IWF folder is not visible under Main Menu.

#### 12. Standby SOAM GUI: Repeat Verification Steps

Repeat **Steps 10-11** for the standby SOAM

**Note:** If the verifications for the standby SOAM differ from the active SOAM, stop and contact My Oracle Support (MOS)
### Procedure 7. Feature Deactivate

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
</table>
| 13.  | **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 **Status & Manage -> Server**.  

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

Click **Restart**.  

Click **OK** to confirm.  

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

Repeat for the additional DA-MPs. |
| 14.  | **SOAM VIP GUI: Verify Maintenance Screen**  

Navigate to **Diameter -> Maintenance -> Applications**.  

Verify the DM-IWF and MD-IWF applications are not present. |
### 6.3 Post-Deactivation Procedures

To complete a deactivation, complete the post-deactivation procedure. This procedure is used to determine the health and status of the 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. 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:</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](image-url)
Procedure 8. Perform Health Check (Post-Feature Deactivation)

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

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

   ![Status & Manage]
   - Network Elements
   - Server
   - HA
   - Database
   - KPIs
   - Processes

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

<table>
<thead>
<tr>
<th>Status</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>

3. **NOAM VIP GUI:** Log current alarms

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

   ![Alarms & Events]
   - View Active
   - View History
   - View Trap Log

   Click **Report.**

   **Save** or **Print** this report to 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. Engineering Notes

**FIPS integrity verification test failed**: In DSR 7.1+, you may see ‘FIPs integrity verification test failed’ message displayed during the activation/Deactivation output, this message is expected and harmless.

7.1 Sample Output of Activation (Active NOAM)

```
[admusr@NO1 loaders]$ ./featureActivateDeactivate
Fri Nov 10 01:42:40 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
6. MAP Interworking
7. DTLS
8. DCA Framework
9. DCA Application

Enter the choice : 6

Run script to Activate mapinterworking Feature
--------------------------------------------------------------------------------------S-T-A-R-T--------------------------------------------------------------------------------------
Execution of Activation/Deactivation Process Starts
================================================================================
Starting Activation/Deactivation process....
Executing
/usr/TKLC/dsr/prod/maint/loaders/activate/load.mapinterworkingActivateAsourced script on NO1
================================================================================
Current server is HA ACTIVE
--------------------------------------------------------------------------------------
```
Activating SS7 (A-sourced)

```plaintext
========== Start of Log Data in file /var/TKLC/log/ss7ActivateAscoped.log ==========
Local Records Added successfully
Replicated Records Added successfully
SS7 marked activated in LongParam
==========
```

Verify that DM-IWF and MD-IWF is in the table

```plaintext
id=7
name=DM-IWF
unavailableAction=SendAnswer
avpInsertion=Yes
shutdownMode=Graceful
shutdownTimer=15
resultCode=3002
vendorId=0
terminalString=DM-IWF Unavailable
resExhResultCode=3004
resExhVendorId=0
resExhTerminalString=DM-IWF Resource Exhausted
routeListId=-1
realm=
fqdn=
mcl=0
class=
```

```plaintext
id=12
name=MD-IWF
unavailableAction=ContinueRouting
avpInsertion=Yes
shutdownMode=Graceful
shutdownTimer=15
resultCode=3002
vendorId=0
terminalString=MD-IWF Unavailable
resExhResultCode=3004
resExhVendorId=0
resExhTerminalString=MD-IWF Resource Exhausted
routeListId=-1
realm=
```
fqdn=
mcl=0

Adding DM-IWF Routed Service Configuration.

id=15
name=DMIWFSvc
preDefined=No
editableOnGui=Yes
birthTime=12/31/1969 19:00:00.000

Adding MD-IWF Routed Service Configuration.

id=16
name=MDIWFSvc
preDefined=No
editableOnGui=Yes
birthTime=12/31/1969 19:00:00.000

Add DM-IWF and MD-IWF KPI group

KPI_Group=DM-IWF
Visibility=VIS_SO

KPI_Group=MD-IWF
Visibility=VIS_SO

Display common DSR Application measurements for DM-IWF.

Add DM-IWF and MD-IWF Measurement groups

Meas_Group=DM-IWF Performance
Visibility=VIS_SO

Meas_Group=DM-IWF Exception
Visibility=VIS_SO

Meas_Group=MD-IWF Performance
Visibility=VIS_SO
=================================
Meas_Group=MD-IWF Exception
Visibility=VIS_SO
=================================
Meas_Group=MD-IWF SS7 Performance
Visibility=VIS_SO
=================================
Meas_Group=MD-IWF Diam Performance
Visibility=VIS_SO
Add DM-IWF and MD-IWF GUI Configuration Permissions.
______________________________
appid=17
group_id=8500
group_name=MAP Interworking Configuration Permissions
Starting to Execute the Loaders on Mate server
Executing /usr/TKLC/dsr/prod/maint/loaders/activate/load.mapinterworkingActivateAsourced script on E1B280NOAM2
FIPS integrity verification test failed.
Current server is HA STANDBY
Activating SS7 (A-sourced)
Local Records Added succesfully
Update to the replicated tables allowed only on Active NOAMP server
Verify that DM-IWF and MD-IWF is in the table
id=7
name=DM-IWF
unavailableAction=SendAnswer
avpInsertion=Yes
shutdownMode=Graceful
shutdownTimer=15
resultCode=3002
vendorId=0
errorString=DM-IWF Unavailable
resExhResultCode=3004
resExhVendorId=0
resExhErrorString=DM-IWF Resource Exhausted
routeListId=-1
realm=
fqdn=
mcl=0

id=12
name=MD-IWF
unavailableAction=ContinueRouting
avpInsertion=Yes
shutdownMode=Graceful
shutdownTimer=15
resultCode=3002
vendorId=0
errorString=MD-IWF Unavailable
resExhResultCode=3004
resExhVendorId=0
resExhErrorString=MD-IWF Resource Exhausted
routeListId=-1
realm=
fqdn=
mcl=0

KPI_Group=DM-IWF
Visibility=VIS_SO

KPI_Group=MD-IWF
Visibility=VIS_SO

Display common DSR Application measurements for DM-IWF.
Meas_Group=DM-IWF Exception
Visibility=VIS_SO

Meas_Group=MD-IWF Performance
Visibility=VIS_SO

Meas_Group=MD-IWF Exception
Visibility=VIS_SO

Meas_Group=MD-IWF SS7 Performance
Visibility=VIS_SO

Meas_Group=MD-IWF Diam Performance
Visibility=VIS_SO

Add DM-IWF and MD-IWF GUI Configuration Permissions.

FIPS integrity verification test failed.

The Active SO server configured in the Topology are

1. E1B380SOAM1
2. ALL SOs

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

Activate/Deactivate mapinterworking on all SOs configured in the Topology

This is a 3 Tier Setup, So run the B sourced loaders on SO server : E1B380SOAM1

Executing
/usr/TKLC/dsr/prod/maint/loaders/activate/load.mapinterworkingActivateBscoped script on E1B380SOAM1

FIPS integrity verification test failed.

Current server is HA ACTIVE

Activating SS7 (B-sourced)

Start of Log Data in file /var/TKLC/log/ss7ActivateBscoped.log
Local Records Added successfully

Add DM-IWF and MD-IWF to DsrApplication.

Add StackConfigParams default option for Route On GT Action.

Verify that MAPIWF is in the table

id=7
name=DM-IWF
unavailableAction=SendAnswer
avpInsertion=Yes
shutdownMode=Graceful
shutdownTimer=15
resultCode=3002
vendorId=0
errorString=DM-IWF Unavailable
resExhResultCode=3004
resExhVendorId=0
resExhErrorString=DM-IWF Resource Exhausted
routeListId=-1
realm=
fqdn=
mcl=0

id=12
name=MD-IWF
unavailableAction=ContinueRouting
avpInsertion=Yes
shutdownMode=Graceful
shutdownTimer=15
resultCode=3002
vendorId=0
errorString=MD-IWF Unavailable
resExhResultCode=3004
resExhVendorId=0
resExhErrorString=MD-IWF Resource Exhausted
routeListId=-1
realm=
fqdn=
mcl=0
================================================================================================
Add DM-IWF and MD-IWF GUI Configuration Permissions.
================================================================================================
appid=17
group_id=8500
group_name=MAP Interworking Configuration Permissions
================================================================================================
FIPS integrity verification test failed.
================================================================================================
Executing the Loaders and Clearing Cache on Standby SO servers.
================================================================================================
There is no Standby/Spare SOAMP server configured in the Topology

7.2 Sample Output of Activation (Active and Standby DR NOAM)

[admusr@dublin-dsr-drno-b ~]$ cd /usr/TKLC/dsr/prod/maint/loaders/activate
[admusr@dublin-dsr-drno-b activate]$ sudo ./load.mapinterworkingActivateAsourced
================================================================================================
Current server is HA STANDBY
================================================================================================
Activating SS7 (A-sourced)
=====tart of Log Data in file /var/TKLC/log/ss7ActivateAscoped.log =====
Local Records Added succesfully
Update to the replicated tables allowed only on Active NOAMP server
================================================================================================
Verify that DM-IWF and MD-IWF is in the table
================================================================================================
id=7
name=DM-IWF
unavailableAction=SendAnswer
avpInsertion=Yes
shutdownMode=Graceful
shutdownTimer=15
resultCode=3002
vendorId=0
errorString=DM-IWF Unavailable
resExhResultCode=3004
resExhVendorId=0
resExhErrorString=DM-IWF Resource Exhausted
routeListId=-1
realm=
fqdn=
mcl=0
=================================
id=12
name=MD-IWF
unavailableAction=ContinueRouting
avpInsertion=Yes
shutdownMode=Graceful
shutdownTimer=15
resultCode=3002
vendorId=0
errorString=MD-IWF Unavailable
resExhResultCode=3004
resExhVendorId=0
resExhErrorString=MD-IWF Resource Exhausted
routeListId=-1
realm=
fqdn=
mcl=0
=================================
KPI_Group=DM-IWF
Visibility=VIS_SO
=================================
KPI_Group=MD-IWF
Visibility=VIS_SO
=================================
Display common DSR Application measurements for DM-IWF.
Meas_Group=DM-IWF Performance
Visibility=VIS_SO
Meas_Group=DM-IWF Exception
Map-Diameter Feature Activation Procedure

Visibility=VIS_SO
=================================
Meas_Group=MD-IWF Performance
Visibility=VIS_SO
=================================
Meas_Group=MD-IWF Exception
Visibility=VIS_SO
=================================
Meas_Group=MD-IWF SS7 Performance
Visibility=VIS_SO
=================================
Meas_Group=MD-IWF Diam Performance
Visibility=VIS_SO
===========================================================================
Add DM-IWF and MD-IWF GUI Configuration Permissions.
==========================================================================
_appid=17
group_id=8500
group_name=MAP Interworking Configuration Permissions
=====================================================================
[admusr@dublin-dsr-drno-b activate]$
[admusr@dublin-dsr-drno-a ~]$ cd /usr/TKLC/dsr/prod/maint/loaders/activate
[admusr@dublin-dsr-drno-a activate]$ sudo ./load.mapinterworkingActivateAsourced
=====================================================================
Current server is HA STANDBY
Activating SS7 (A-sourced)
=====================================================================
Update to the replicated tables allowed only on Active NOAMP server
Verify that DM-IWF and MD-IWF is in the table
id=7
name=DM-IWF
unavailableAction=SendAnswer
avpInsertion=Yes
shutdownMode=Graceful
shutdownTimer=15
resultCode=3002
vendorId=0
errorString=DM-IWF Unavailable
resExhResultCode=3004
resExhVendorId=0
resExhErrorString=DM-IWF Resource Exhausted
routeListId=-1
realm=
fqdn=
mcl=0
=================================
id=12
name=MD-IWF
unavailableAction=ContinueRouting
avpInsertion=Yes
shutdownMode=Graceful
shutdownTimer=15
resultCode=3002
vendorId=0
errorString=MD-IWF Unavailable
resExhResultCode=3004
resExhVendorId=0
resExhErrorString=MD-IWF Resource Exhausted
routeListId=-1
realm=
fqdn=
mcl=0
=================================
KPI_Group=DM-IWF
Visibility=VIS_SO
=================================
KPI_Group=MD-IWF
Visibility=VIS_SO

Display common DSR Application measurements for DM-IWF.

Meas_Group=DM-IWF Performance
Visibility=VIS_SO

Meas_Group=DM-IWF Exception
Visibility=VIS_SO

Meas_Group=MD-IWF Performance
Visibility=VIS_SO

Meas_Group=MD-IWF Exception
Visibility=VIS_SO

Meas_Group=MD-IWF SS7 Performance
Visibility=VIS_SO

Meas_Group=MD-IWF Diam Performance
Visibility=VIS_SO

Add DM-IWF and MD-IWF GUI Configuration Permissions.

_appid=17
group_id=8500
group_name=MAP Interworking Configuration Permissions

[admusr@dublin-dsr-drno-a activate]$
Enter your choice : 2
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 your choice : 6
Run script to Deactivate mapinterworking Feature
=========================================================================
Starting Activation/Deactivation process....
Executing
/usr/TKLC/dsr/prod/maint/loaders/deactivate/load.mapinterworkingDeactivateAsourced
script on NO1
Current server is HA ACTIVE
=== deleted 1 records ===
Verify MD-IWF is not present in the DsrApplication table
=== deleted 1 records ===
Verify DM-IWF is not present in the DsrApplication table
DM-IWF Feature is not Activated
MD-IWF Feature is not Activated
=== deleted 0 records ===
=== deleted 0 records ===
Verify DM-IWF and MD-IWF are not present in the DsrApplication table
=================================================================================================

Hiding DM-IWF and MD-IWF KPI groups
================================================================================
== deleted 1 records ==
== deleted 1 records ==
================================================================================

Hiding DM-IWF and MD-IWF measurement groups
================================================================================
== deleted 1 records ==
== deleted 1 records ==
== deleted 1 records ==
== deleted 1 records ==
== deleted 1 records ==
================================================================================

Removing MAP Interworking GUI permissions.
================================================================================
== deleted 1 records ==
================================================================================

Removing DMIWFSvc and MDIWFSvc COM Agent Loader Entries
================================================================================
Thu Apr 17 03:09:15 EDT 2014
Deactivating DMIWFSvc

Removing DMIWFSvc

id=11
name=DMIWFSvc
preDefined=No
editableOnGui=Yes
birthTime=12/31/1969 19:00:00.000
================================================================================
== deleted 1 records ==
DMIWFSvc Deactivation is complete.

Deactivating MDIWFSvc

Removing MDIWFSvc

id=12
name=MDIWFSvc
preDefined=No
editableOnGui=Yes
birthTime=12/31/1969 19:00:00.000

=== deleted 1 records ===
MDIWFSvc Deactivation is complete.

Starting to Execute the Loaders on Standby server

Executing
/usr/TKLC/dsr/prod/maint/loaders/deactivate/load.mapinterworkingDeactivateAsourced
script on NO2

Password:

Current server is HA STANDBY

Verify MD-IWF is not present in the DsrApplication table

Verify DM-IWF is not present in the DsrApplication table

Verify DM-IWF and MD-IWF are not present in the DsrApplication table

Removing MAP Interworking GUI permissions.

=== deleted 1 records ===

The Active SO server configured in the Topology are

1. SO1
2. ALL SOs

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

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

Executing
/usr/TKLC/dsr/prod/maint/loaders/deactivate/load.mapinterworkingDeactivateBsourced
script on SO1

Current server is HA ACTIVE
Removing all ART rules pointing to DM-IWF

== deleted 0 records ==

Removing applicationId=7(DM-IWF) and applicationId=12(MD-IWF) from the DSR Application Per Mp Table

== deleted 0 records ==
== deleted 0 records ==
== deleted 1 records ==
== deleted 1 records ==

Verify DM-IWF entries not present in AppRoutRule table

Verify DM-IWF and MD-IWF are not present in the DsrApplicationPerMp table

Verify DM-IWF and MD-IWF are not present in the DsrApplication table

Removing common DSR Application measurements for DM-IWF

== deleted 10 records ==

Removing MAP Interworking GUI permissions.

== deleted 1 records ==

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.mapinterworkingDeactivateBsourced script on SO2

Password:

Current server is HA STANDBY
MD-IWF Feature is not Activated

Removing all ART rules pointing to DM-IWF

Removing applicationId=7(DM-IWF) and applicationId=12(MD-IWF) from the DSR Application Per Mp Table

Verify DM-IWF entries not present in AppRoutRule table

Verify DM-IWF and MD-IWF are not present in the DsrApplicationPerMp table

Verify DM-IWF and MD-IWF are not present in the DsrApplication table

Removing common DSR Application measurements for DM-IWF

Removing MAP Interworking GUI permissions.

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

[admusr@NO1 loaders]$
Appendix A. My Oracle Support (MOS)

MOS ([https://support.oracle.com](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](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.