Oracle® Communications Diameter Signaling Router Diameter Custom Applications User Guide



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ORACLE

Oracle Communications Diameter Signaling Router Diameter Custom Applications User Guide, Release 8.5.1

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1 Introduction

This section contains an overview of the available information for the Diameter Custom Applications (DCA) feature. The contents include sections on the organization, scope, and audience of the documentation, as well how to receive customer support assistance.

Revision History

Date	Description
December 2021	Not updated in this release.
October 2020	Replaced USBR with UDR throughout this document.
September 2016	Initial release of DCA

Understanding DCA

The Diameter Custom Applications (DCA) framework allows for the creation of applications on top of the Diameter Signaling Router (DSR), allowing for a faster development cycle.

DCA requires several elements to function:

- An interface that interprets a scripting language in order to manage the receipt of Diameter messages or UDR query results
- An interface that performs basic routing functions such as selecting an Application Route Table or Peer Route Table, forwarding or dropping a Diameter message, or sending a Diameter Answer
- An infrastructure to manage the DCA's business logic and the DCA application's configuration and to generate the script to be used by the interpreting interface

Intended Scope and Audience

This content is intended for personnel who plan to provision DCA.

This content does not describe how to install or replace software or hardware.

Manual Organization

This document is organized into the following chapters:

- Introduction contains general information about DCA, including overview and logic information, the organization of this content, and how to get technical assistance.
- Activation and Deactivation of DCA provides information about activating and deactivating DCA.



My Oracle Support

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

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

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

You are connected to a live agent who can assist you with My Oracle Support registration and opening a support ticket.

My Oracle Support is available 24 hours a day, 7 days a week, 365 days a year.



2 Activation and Deactivation of DCA

This chapter provides basic descriptions for activating and deactivating the DCA Framework and DCA applications.

DCA Activation

In order to use new applications for **DCA**, the DCA Framework must be activated on the NO. Activation needs to be performed only once.

Once developed, a new application then must be activated on the NO. Activation needs to be performed once per application.

Note:

There may be limits on the number of DCA applications that can be simultaneously activated. Old DCA applications may need to be deactivated in order to make room for new applications.

Activating the DCA Framework

This procedure is used to activate the DCA Framework.

- 1. Log out of any active NOAM GUI sessions.
- 2. Use an SSH client to connect to the server as **admusr**.
 - # ssh <active NOAM XMI IP Address>
- 3. Change to the feature activation directory.
 - # cd /usr/TKLC/dsr/prod/maint/loaders/
- 4. Execute the feature activation script.
 - # ./featureActivateDeactivate
 - a. Choose the Activate and DCA Framework options.
 - **b.** There is an option to choose to activate this feature on all SOAMs or on a specific SOAM.

If a new site is added or if, on some site, framework was not activated, the activation script can be executed again to add the application on new sites. The script won't have any impact on the sites on which the framework is already active.

c. Verify that the screen output is similar to:

```
[admusr@HPC07-NO1 loaders]$ ./featureActivateDeactivate
Tue Feb 2 17:47:18 EST 2016::Starting featureActivateDeactivate
main...
Start the Automation script , To run the Feature Activation/
```



```
DeActivation on Active NO.
You want to Activate or Deactivate the Feature :
1.Activate
2.Deactivate
Enter your choice : 1
List of Feature you can Activate :
1.RBAR
2.FABR
3.Mediation
4.LoadGen
5.GLA
6.MAP Interworking
7.DTLS
8.Dca Framework
9.Dca Application
Enter the choice : 8
Run script to Activate DcaFramework Feature
_____
_____
Execution of Activation/Deactivation Process Starts
_____
_____
Starting Activation/Deactivation process....
Executing /usr/TKLC/dsr/prod/maint/loaders/activate/
load.DcaFrameworkActivateAsourced script on HPC07-NO1
_____
_____
Current server is HA ACTIVE
_____
_____
_____
_____
Add Dca Framework KPI group
_____
_____
KPI Group=Dca Framework
Visibility=VIS ALL
_____
_____
==================
Add Dca Framework Measurement groups
_____
==================
Meas Group=Dca Framework Performance
Visibility=VIS ALL
_____
```



```
_____
_____
Add Dca Framework GUI Configuration Permissions.
_____
_____
==========
Set Dca Framework Entry in the DcaFrmEngOption table
_____
_____
 === changed 1 records ===
_____
==========
There is no Standby NOAMP server configured in the Topology
_____
==========
_____
_____
The Active SO server configured in the Topology are
_____
===========
1. HPC07-S01
2. ALL SOs
Enter your choice on which SO you want to Activate or Deactivate the
Feature :2
Activate/Deactivate DcaFramework on all SOs configured in the Topology
_____
_____
This is a 3 Tier Setup , So run the B sourced loaders on SO server :
HPC07-SO1
Executing /usr/TKLC/dsr/prod/maint/loaders/activate/
load.DcaFrameworkActivateBsourced script on HPC07-SO1
FIPS integrity verification test failed.
Add Dca Framework GUI Configuration Permissions.
FIPS integrity verification test failed.
_____
_____
Executing the Loaders and Clearing Cache on Standby SO servers.
_____
==========
_____
_____
There is no Standby/Spare SOAMP server configured in the Topology
_____
_____
```

- 5. Log into the Active NOAM and SOAM GUI.
- 6. Verify that DCA Framework appears as a menu item on the NOAM and SOAM.
- Log out of the NOAM login shells using the # exit command and close the SSH connections.



Post Framework Activation

Once the DCA Framework is activated, the **DCA Framework** folder and **Configuration** file becomes visible on the left hand menu as shown in Figure 2-1.

Figure 2-1 DCA Framework Menu



All the KPIs and measurements associated with the DCA Framework also become visible as shown in Figure 2-2 and Figure 2-3 respectively.

Main Menu: Stat	us & Manag	je -> KPIs								ی ا
Filter • Tasks •										Tue May 03 06:37:40 20161
Entire-Network G	remin-DAMP-1	Gremlin-DAMP-2	Gremin-DAMP-3	Gremin-DAMP-4	Gremin-NO-A	Gremlin-NO-8	Gremlin-SO1-A	Gremlin-SO1-8	Gremlin-SO2-A	
ComAgent DCA Fr	amework Serv	er								
Name	Мах	Min	Median	Average	Sum	1	Description			
Ingress Message Rate	0.00	0.00	0.00	0.00	0.00		Average Ingress M received by the DC	essage Rate (mess A Application.	lages per second)	of Diameter messages
Runtime Errors Rate	0.00	0.00	0.00	0.00	0.00		Instant Runtime Er interval)	ror Rate (runtime er	vors per second du	ring the last sampling
Completed Transactions	0.00	0.00	0.00	0.00	0.00		Diameter transacti	ions that a DCA App	successfully relays	
Transactions Discard Request	0.00	0.00	0.00	0.00	0.00		Allows the operato discarding the reg	r to determine how r uest (by comparison	many transactions a	a DCA app relay terminates by d Transactions).

Figure 2-2 DCA KPIs

Figure 2-3 DCA Measurements

Main	Menu:	Measurements	->	Report
------	-------	--------------	----	--------

Filter 👻 Info 🔹	Tasks 🔻	
filter		0
Scope:	- Network Element - 💽 🛛 - Serve	er Group - 💌 Reset
Report:	DCA Framework Exception	Interval 💽 Reset
Column Filter:	Group ComAgent Exception	Reset
Time Range:	ComAgent Performance DCA Framework Exception	▼ 2016 Jan ▼ 01 ▼ 00 ▼ 00 ▼ Reset
Go	DCA Framework Performance IDIH	
	OAM.ALARM OAM.SYSTEM	
	Server Exception	



Activating a DCA Application

This procedure is used to activate a DCA application.

- 1. Log out of any active NOAM GUI sessions.
- 2. Use an SSH client to connect to the server as admusr.

ssh <active NOAM XMI IP Address>

3. Change to the feature activation directory.

cd /usr/TKLC/dsr/prod/maint/loaders/

- 4. Execute the feature activation script.
 - # ./featureActivateDeactivate
 - a. Choose Activate and DCA Application.
 - b. Enter a long name for the new application when prompted.

Note:

The DCA application long name consists of a combination of letters, numbers, and spaces. It can't begin with a space and has a maximum of 32 characters.

c. Enter a short name for the application when prompted.

Note:

The DCA application short name consists of a combination of letters and numbers. It has a maximum of 6 characters.

d. Verify that the screen output is similar to:

```
[admusr@HPC07-NO1 loaders]$ ./featureActivateDeactivate
Tue Feb 2 17:52:59 EST 2016::Starting featureActivateDeactivate
main...
Start the Automation script , To run the Feature Activation/
DeActivation on Active NO.
You want to Activate or Deactivate the Feature :
1.Activate
2.Deactivate
Enter your choice : 1
List of Feature you can Activate :
1.RBAR
2.FABR
3.Mediation
4.LoadGen
5.GLA
```



```
6.MAP Interworking
7.DTLS
8.Dca Framework
9.Dca Application
Enter the choice : 9
=========== Start of Log Data in file /var/TKLC/log/
DcaActivationTopLevel.log =========
======S-T-A-R-
Т====================================
Log file location: /var/TKLC/log/DcaActivationTopLevel.log
Note:-
In case of any failure please execute /usr/TKLC/dsr/prod/maint/
loaders/deactivate/load.DcaDeactivationTopLevel script to revert
the changes.
_____
_____
Execution of Activation Process Starts
_____
==================
Dca framework is activated on the setup..Continuing
Following Dca apps are activated on the system:
First Dca App
Enter the long name for the Dca application: Second DCA App
Entered dca name Second DCA App consist of valid characters
Entered Name is Second DCA App
next available dal id is 129
Enter the short name for the Dca application:sda
length of shortName is 3.continuing..
Entered dca name sda consist of valid characters
Entered Name is sda
_____
Verify that Dca Application is in the DalId table
_____
dalTd=129
birthTime=02/02/2016 17:53:22.000
name=Second DCA App
shortName=sda
activated=No
_____
_____
Verify that Dca Application is in the DcaDalId table
_____
dalId=129
name=Second DCA App
shortName=sda
_____
Executing /usr/TKLC/dsr/prod/maint/loaders/activate/
load.DcaActivateAscoped script on HPC07-NO1
```



=========== Start of Log Data in file /var/TKLC/log/ DcaActivateAscoped.log ========== Server Name : HPC07-NO1 Server Role : NETWORK OAMP : HPC07-NO1 Node Id HA State : Active Cluster Role : Primary _____ Add Dca application entry to the DsrApplication table. _____ _____ Verify that Dca Application is in the table ----id=129 name=sda unavailableAction=ContinueRouting avpInsertion=Yes shutdownMode=Graceful shutdownTimer=5 resultCode=3002 vendorId=0 errorString=Dca Application Unavailable Or Degraded resExhResultCode=3004 resExhVendorId=0 resExhErrorString=Dca Resource Exhausted routeListId=-1 realm= fqdn= mcl=0 _____ _____ Add Dca Application KPI group _____ _____ Add Dca Application Measurement groups _____ _____ Add Permission Group headers for Dca Application ------_____ Add network configuration parameters for Dca _____ Execution status of activation script on HPC07-NO1: PASSED Please check /var/TKLC/log/DcaActivateAscoped.log for more details. _____ _____ Starting Activation on StandBy NOAMP Server if it exists in the topology.



```
HPC07-NO1 is Active and Primary NOAMP Server. So, proceeding
with next NOAMP Server.
====== Activation done on all Network OAMP Servers =======
====== Starting Activation on System OAM servers ======
_____
_____
HPC07-SO1 is Active. So, proceeding with Activation.
FIPS integrity verification test failed.
Executing /usr/TKLC/dsr/prod/maint/loaders/activate/
load.DcaActivateBscoped script on HPC07-S01
FIPS integrity verification test failed.
======== Start of Log Data in file /var/TKLC/log/
DcaActivateBscoped.log =========
Server Name : HPC07-SO1
Server Role: SYSTEM OAM
Node Id : HPC07-SO1
HA State : Active
_____
_____
Add Dca application to DsrApplication. If already present then
skip.
_____
_____
_____
Verify that Dca application is in the table
_____
id=129
name=sda
unavailableAction=ContinueRouting
avpInsertion=Yes
shutdownMode=Graceful
shutdownTimer=5
resultCode=3002
vendorId=0
errorString=
resExhResultCode=3004
resExhVendorId=0
resExhErrorString=Dca Resource Exhausted
routeListId=-1
realm=
fqdn=
mcl=0
_____
_____
Add Permission Group headers for Dca app on SOAM server
_____
_____
Add system configuration parameters for Dca
```

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

```
Execution status of activation script on HPC07-SO1: PASSED
Please check /var/TKLC/log/DcaActivateBscoped.log.HPC07-S01 for more
details.
FIPS integrity verification test failed.
FIPS integrity verification test failed.
_____
_____
 === changed 1 records ===
_____
Verify that activated field is udpated for Dca Application in the
DalId table
_____
dalTd=129
birthTime=02/02/2016 17:53:22.000
name=Second DCA App
shortName=sda
activated=Yes
_____
_____
_____
Execution of Dca Applicaion Activation Script complete.
_____
_____
```

- e. Restart the DSR MP from Main Menu, and then Status & Manage, and then Server.
- 5. Log into an Active NOAM and SOAM GUI.
- Verify that DCA Application folder appears under the DCA Framework menu item on an NOAM and SOAM.
 - a. Verify that the folder for the new DCA application appears under DCA Framework on an NOAM. Under the application folder has General Options, Trial MP assignment, and Application Control sub-options.
 - b. Verify that the folder for the new DCA application appears under DCA Framework on an SOAM. Under the application folder has General Options, Trial MP assignment, and Application Controll, and System Options sub-options.
- 7. Log out of the NOAM login shells using the # exit command and close the SSH connections.

Post Application Activation

When the new DCA application is activated, the application subfolder with the name provided by the user during the activation procedure becomes visible on the left side menu as shown in Figure 2-4. The application subfolder includes the pages for enabling the business logic and provisioning configuration data. The application becomes visible across DSR. For further details on a specific application, refer to the user's guide for that specific application.







Post-Activation DCA Application State

After activation, a DCA application is in the disabled state. While in the disabled state, Diameter traffic is not delivered to the application. The application must be enabled from **Diameter**, and then **Maintenance**, and then **Applications**. The application is identified by the name configured by the user during the activation of the application.

Regardless of whether or not a DCA application is enabled or disabled, no version of the application is provisioned. No version is in the production or trial state. As long as no production or trial version is available for a **DA-MP** to run, the application's operational status is unavailable (see **Diameter**, and then **Maintenance**, and then **Applications** on the SO). An Application Route Table (**ART**) must also be defined for the new application (see **Diameter**, and then **Configuration**, and then **Application Route Tables**.

Afterward, the configuration and business logic for the DCA application are provisioned.

DCA Deactivation

To deactivate DCA, an application and the DCA Framework must be removed.

Deactivating a DCA Application

This procedure is used to deactivate a DCA application.

- 1. Log out of any active NOAM GUI sessions.
- 2. Use an SSH client to connect to the server as admusr.



```
# ssh <active NO XMI IP Address>
```

3. Change to the feature deactivation directory.

```
# cd /usr/TKLC/dsr/prod/maint/loaders/
```

- 4. Execute the feature activation script.
 - # ./featureActivateDeactivate
 - a. Choose Deactivate and DCA Application.
 - b. Enter the name for the application to be deactivated when prompted.
 - c. Verify that the screen output is similar to:

```
[admusr@HPC07-NO1 loaders]$ pwd
/usr/TKLC/dsr/prod/maint/loaders
[admusr@HPC07-NO1 loaders]$ ./featureActivateDeactivate
Tue Feb 2 17:59:21 EST 2016::Starting featureActivateDeactivate
main...
Start the Automation script , To run the Feature Activation/
DeActivation on Active NO.
You want to Activate or Deactivate the Feature :
1.Activate
2.Deactivate
Enter your choice : 2
Which Feature you want to Deactivate :
1.RBAR
2.FABR
3.Mediation
4.LoadGen
5.GLA
6.MAP Interworking
7.DTLS
8.Dca Framework
9.Dca Application
Enter your choice : 9
======= S-T-A-R-T of log
DcaDeactivationTopLevel.log ========
Log file location: /var/TKLC/log/DcaDeactivationTopLevel.log
_____
======Execution of Deactivation Process Starts
_____
                                             -----
=======Following Dca apps are activated on the system
1. FDA
2. sda
Enter the name for the Dca application to be deactivated:sda
The name of application selected to deactivate is: sda
 === changed 1 records ===
_____
                   _____
DalId Table successfully updated with deactivated status.
_____
```



```
_____
_____
HPC07-S01 is Active. So, proceeding with Deactivation.
FIPS integrity verification test failed.
Executing /usr/TKLC/dsr/prod/maint/loaders/deactivate/
load.DcaDeactivateBscoped script on HPC07-S01
FIPS integrity verification test failed.
=========== Start of Log Data in file /var/TKLC/log/
DcaDeactivateBscoped.log =========
Server Name : HPC07-SO1
Server Role: SYSTEM OAM
Node Id : HPC07-SO1
HA State : Active
------
Remove the ART rules corresponding to the DCA
_____
No rules configured for the current application.
_____
Remove Dca from DcaAppSystemUserOption table
_____
 === deleted 5 records ===
_____
Remove Dca Application from DsrApplicationPerMp table
_____
 === deleted 0 records ===
_____
Remove Dca Application from DsrApplication table
_____
 === deleted 1 records ===
_____
====
Remove permission group headers for Dca Application on SOAM
server
_____
 === deleted 1 records ===
_____
Execution status of deactivation script on HPC07-SO1: PASSED
Please check /var/TKLC/log/DcaDeactivateBscoped.log.HPC07-S01
for more details.
FIPS integrity verification test failed.
FIPS integrity verification test failed.
_____
_____
_____
==================
Starting Deactivation on Standby NOAMP server if present in
topology.
_____
```

```
_____
HPC07-NO1 is Active NOAMP Server. Proceeding with next NOAMP server
in the list.
_____
Starting Deactivation on Active NOAMP server.
_____
_____
Executing /usr/TKLC/dsr/prod/maint/loaders/deactivate/
load.DcaDeactivateAscoped script on HPC07-NO1
========== Start of Log Data in file /var/TKLC/log/
DcaDeactivateAscoped.log =========
Server Name : HPC07-NO1
Server Role : NETWORK OAMP
Node Id
      : HPC07-NO1
HA State
       : Active
Cluster Role : Primary
_____
Remove Dca Application KPI groups
_____
 === deleted 1 records ===
_____
Remove Dca Application Measurement groups
_____
 === deleted 1 records ===
_____
Remove permission group headers for Dca Application
_____
 === deleted 1 records ===
_____
Remove logical to physical udr db mapping from
DcaLog2PhyUdr and DcaLogicalUdr table
_____
_____
Remove Dca from DcaLifecycleNoam table
_____
 === deleted 0 records ===
_____
Remove Dca from DcaAppNetworkUserOption table
_____
 === deleted 3 records ===
_____
Remove Dca from DcaTrialMp table
_____
 === deleted 0 records ===
_____
Remove Dca from DsrApplicationPerMp table
_____
 === deleted 0 records ===
_____
```

- d. Restart the DSR MP from Main Menu, and then Status & Manage, and then Server.
- 5. Log into an Active NOAM and SOAM GUI.
- 6. Verify that the specific DCA application folder disappears as a menu item on the NOAM and SOAM..
- Log out of the NOAM login shells using the # exit command and close the SSH connections.

Post Application Deactivation

Deactivating a DCA application is not allowed as long as versions of the the application are still in the production and/or trial states.

After deactivation, the application's GUI fold under the **DCA Framework** menu item disappears. The application is deregistered from the ART, its KPIs and measurements are no longer displayed, and are no longer reported.

Deactivating the DCA Framework

This procedure is used to deactivate the DCA Framework.

- 1. Log out of any active NOAM GUI sessions.
- 2. Use an SSH client to connect to the server as admusr.

ssh <active NO XMI IP Address>

- 3. Change to the feature deactivation directory.
 - # cd /usr/TKLC/dsr/prod/maint/loaders/
- 4. Execute the feature activation script.
 - # ./featureActivateDeactivate
 - a. Choose the Deactivate and DCA Framework options.
 - **b.** For 3-Tiered Architecture, you can deactivate this feature on all SOAMs or on a specific SOAM



c. Verify that the screen output is similar to:

```
[admusr@HPC07-NO1 loaders]$ pwd
/usr/TKLC/dsr/prod/maint/loaders
[admusr@HPC07-NO1 loaders]$ ./featureActivateDeactivate
Tue Feb 2 17:59:21 EST 2016::Starting featureActivateDeactivate
main...
Start the Automation script , To run the Feature Activation/
DeActivation on Active NO.
You want to Activate or Deactivate the Feature :
1.Activate
2.Deactivate
Enter your choice : 2
Which Feature you want to Deactivate :
1.RBAR
2.FABR
3.Mediation
4.LoadGen
5.GLA
6.MAP Interworking
7.DTLS
8.Dca Framework
9.Dca Application
Enter your choice : 9
====== S-T-A-R-T of log
DcaDeactivationTopLevel.log ========
Log file location: /var/TKLC/log/DcaDeactivationTopLevel.log
_____
======Execution of Deactivation Process Starts
_____
=======Following Dca apps are activated on the system
1. FDA
2. sda
Enter the name for the Dca application to be deactivated:sda
The name of application selected to deactivate is: sda
 === changed 1 records ===
_____
DalId Table successfully updated with deactivated status.
_____
_____
_____
HPC07-SO1 is Active. So, proceeding with Deactivation.
FIPS integrity verification test failed.
Executing /usr/TKLC/dsr/prod/maint/loaders/deactivate/
load.DcaDeactivateBscoped script on HPC07-S01
FIPS integrity verification test failed.
======== Start of Log Data in file /var/TKLC/log/
DcaDeactivateBscoped.log =========
```

```
Server Name : HPC07-SO1
Server Role: SYSTEM OAM
Node Id : HPC07-SO1
HA State : Active
_____
Remove the ART rules corresponding to the DCA
_____
No rules configured for the current application.
_____
Remove Dca from DcaAppSystemUserOption table
_____
 === deleted 5 records ===
-----
Remove Dca Application from DsrApplicationPerMp table
_____
 === deleted 0 records ===
------
Remove Dca Application from DsrApplication table
_____
 === deleted 1 records ===
_____
====
Remove permission group headers for Dca Application on SOAM
server
=== deleted 1 records ===
_____
Execution status of deactivation script on HPC07-SO1: PASSED
Please check /var/TKLC/log/DcaDeactivateBscoped.log.HPC07-S01
for more details.
FIPS integrity verification test failed.
FIPS integrity verification test failed.
_____
_____
_____
_____
Starting Deactivation on Standby NOAMP server if present in
topology.
_____
_____
HPC07-NO1 is Active NOAMP Server. Proceeding with next NOAMP
server in the list.
_____
==================
Starting Deactivation on Active NOAMP server.
_____
_____
```



```
Executing /usr/TKLC/dsr/prod/maint/loaders/deactivate/
load.DcaDeactivateAscoped script on HPC07-NO1
========= Start of Log Data in file /var/TKLC/log/
DcaDeactivateAscoped.log =========
Server Name : HPC07-NO1
Server Role : NETWORK OAMP
Node Id
      : HPC07-NO1
HA State
      : Active
Cluster Role : Primary
_____
Remove Dca Application KPI groups
_____
 === deleted 1 records ===
-----
Remove Dca Application Measurement groups
_____
 === deleted 1 records ===
_____
Remove permission group headers for Dca Application
_____
 === deleted 1 records ===
Remove logical to physical udr db mapping from
DcaLog2PhyUdr and DcaLogicalUdr table
_____
Remove Dca from DcaLifecycleNoam table
_____
 === deleted 0 records ===
_____
Remove Dca from DcaAppNetworkUserOption table
_____
 === deleted 3 records ===
_____
Remove Dca from DcaTrialMp table
_____
 === deleted 0 records ===
Remove Dca from DsrApplicationPerMp table
_____
 === deleted 0 records ===
_____
Remove Dca Application from DsrApplication table
=== deleted 1 records ===
 === deleted 1 records ===
 === deleted 1 records ===
=======
```

Execution status of deactivation script on HPC07-NO1: PASSED =========Execution of Dca Application Deactivation Script complete.



- 5. Log into an Active NOAM and SOAM GUI.
- 6. Verify that DCA Framework disappears as a menu item on the NOAM and SOAM.
- 7. Log out of the NOAM login shells using the # exit command and close the SSH connections.

Post Framework Deactivation

Deactivating the DCA Framework is not allowed as long at least one DCA application is activated in the network.

Following deactivation, the **DCA Framework** GUI folder disappears from the left hand menu.

