

Oracle® Enterprise Manager

Connector Framework Release Notes

10g Release 2 (10.2.0.2)

B31145-01

September 2006

These release notes describe:

- How to access the documentation
- Key features of the Connector Framework
- Prerequisites before using the Connector Framework
- How to install the Connector Framework
- Configuring and using the Connector Framework
- Known issues for this release

Documentation Description and Access

You can access the documentation for the Connector Framework from the Oracle Technology Network (OTN). You can find data sheets, the certification matrix, and other documentation in the OTN under Enterprise Manager and in Metalink.

Key Features

The Connector Framework provides clients with the following capabilities:

- Query Enterprise Manager data through a unified web services interface.
- Request Enterprise Manager to create a Real Application Clusters (RAC) database through a web services interface.
- Request Enterprise Manager to add nodes to existing RAC databases through a web services interface.
- Request Enterprise Manager to delete nodes from existing RAC databases through a web services interface.

Prerequisites

The Connector Framework has the following system requirements:

- Oracle Enterprise Manager Management Server version 10.2.0.2
- Oracle Enterprise Manager Management Agent version 10.2.0.2
- Oracle Database version 10.2.0.2

For the Connector Framework to function properly, you need to set up `emcli`. For a procedure on how to do this, see the *Oracle Enterprise Manager Connector Framework Integration Guide (B31191-01)*.

For security purposes, the OMS should be set up using HTTPS.

Installing the Connector Framework

The Connector Framework is installed to the OMS home. The `$ORACLE_HOME` in the procedure below refers to the OMS home. To download and install the Connector Framework, do the following:

1. Download the Connector Framework installable files from OTN by clicking **Downloads**, then **Enterprise Manager**.

2. Stop OMS by running:

```
$ORACLE_HOME/opmn/bin/opmnctl stopall
```

3. Start the Oracle Universal Installer (OUI) by running the following command:

For Linux or Unix:

```
$ORACLE_HOME/oui/bin/runInstaller
```

For Windows:

```
$ORACLE_HOME\oui\bin\setup
```

4. When prompted by OUI, locate `products.xml` in the installation source directory:

```
connectors/framework/10.2.0.2/1.0/source/Disk1/stage
```

5. Follow the instructions in the OUI screens.

6. Access the Enterprise Manager web console from one of the following URLs:

```
http://server:port/em/connector/ManagementService
```

```
https://server:port/em/connector/ManagementService
```

Uninstalling the Connector Framework

The Connector Framework is installed to the OMS home. The `$ORACLE_HOME` in the procedure below refers to the OMS home. To uninstall the Connector Framework, do the following:

1. Stop OMS by running:

```
$ORACLE_HOME/opmn/bin/opmnctl stopall
```

2. Start the Oracle Universal Installer (OUI) by running the following command:

For Linux or Unix:

```
$ORACLE_HOME/oui/bin/runInstaller
```

For Windows:

```
$ORACLE_HOME\oui\bin\setup
```

3. Click **Deinstall Products...**, open the list under OMS home, then open the list under the connector to be uninstalled.
4. Select the connector to be uninstalled and **Connector Framework 1.0.0.0.0** under it, then click the **Remove...** button.
5. Click **Yes** for confirmation, then exit OUI.
6. Manually delete the following section from `$ORACLE_HOME/j2ee/OC4J_EM/applications/em/em/WEB-INF/web.xml`:

Example 1 Code for Management Service Interface for Connector Framework

```
<description>Management Service Interface for Connector
Framework</description>
<servlet>
  <servlet-name>ManagementService</servlet-name>
  <servlet-class>oracle.j2ee.ws.StatelessJavaRpcWebService</servlet-class>
  <init-param>
    <param-name>class-name</param-name>
    <param-value>oracle.sysman.connector.base.mgmtsvc.
      ManagementServiceImpl</param-value>
  </init-param>
  <init-param>
    <param-name>interface-name</param-name>
    <param-value>oracle.sysman.connector.base.mgmtsvc.
      IManagementService</param-value>
  </init-param>
</servlet>
<servlet-mapping>
  <servlet-name>ManagementService</servlet-name>
  <url-pattern>/connector/ManagementService</url-pattern>
</servlet-mapping>
<session-config>
  <session-timeout>35</session-timeout>
</session-config>
<mime-mapping>
  <extension>html</extension>
  <mime-type>text/html</mime-type>
</mime-mapping>
<mime-mapping>
  <extension>txt</extension>
  <mime-type>text/plain</mime-type>
</mime-mapping>
```

7. Start OMS by running:

```
$ORACLE_HOME/opmn/bin/opmnctl startall
```

Configuring and Using the Connector Framework

To understand how to configure and use Connector Framework release 10.2.0.2, refer to the *Oracle Enterprise Manager Connector Framework Integration Guide* (B31191-01). The Enterprise Manager documentation library for this release is located at the following URL:

```
http://download-west.oracle.com/docs/cd/
B16240_01/doc/nav/portal_booklist.htm
```

Known Issues

The following universal limitations and known issues apply to this release of the Connector Framework.

Universal Limitations

- Only CFS and ASM storage types are currently supported.
- Only one disk group is currently permitted. Consequently, you need to disable `flash_recovery` when manually installing RAC.
- The Connector Framework only supports English in the Enterprise Manager credential user name, CRS/RAC AggregateTarget name, and node target name.
- The system integrated with Enterprise Manager through the Connector Framework should create the RAC database through the software library image before it can add a node to the RAC.
- Enterprise Manager does not currently provide context-sensitive help for the Connector Framework. This feature will be supported in the future.
- The OS credential for all the hosts in the cluster must be the same.
- After deleting a node, the deleted node must be added back first before adding any other node.
- The first node in the RAC (the one specified in the `Create RAC` job) cannot be deleted through the connector.
- For the Linux platform:
 - The user running jobs on the target machine must be in the `oinstall` group.
 - With CFS storage, the `rac_database` aggregate target name must be in uppercase.
- For the Windows platform:
 - The `rac_database` aggregate target name and the database instance name must be in uppercase.
 - The `oms_delete_all_targets` property must be set to true for `Delete Node` jobs.

Patches

The following known issues have available patches.

EMCLI modify_target Does not Propagate Monitoring Credentials to Agent (Generic Platform)

When you create a RAC database or add a new node, you cannot automatically set the monitoring credential for the Agent.

Install the following OMS patch:

MetaLink 5186115: `p5186115_10202_GENERIC.zip`

(Bug 5186115)

VIPCA States that the Interface is Not Public (Linux and Windows Platforms)

You cannot create a RAC if the public interfaces are on a private network.

For the Linux platform, install the following database patch:

MetaLink 5256865: p5256865_10202_LINUX.zip

For the Windows platform, install the following database patch:

MetaLink 5383042: p5383042_10202_WINNT.zip

There are three issues for patch MetaLink 5256865. Follow the steps below as a workaround:

1. Before applying the patch, comment out the following line in file 5256865/custom/scripts/postrootpatch.sh:

```
$CHMOD u-w $CH/lib/* (line 237)
```
2. Before applying the patch, add the two entries `cv/remenv/exectask` and `cv/remenv/exectask.sh` to both of the following files:

```
5256865/custom/scripts/postpatch.sh (line 29)
```

```
5256865/custom/scripts/prepatch.sh (line 86)
```
3. After applying the patch, edit file `$DB_HOME/bin/cluvfy` to set `ORA_CRS_HOME` to the correct `CRS_HOME`.

(Bug 4437727)

Creating CRS Clone SWLIB COMP fails if "Files to Exclude" Filed is not Empty (Windows Platform)

Install the following Agent patch:

MetaLink 5218082: p5218082_10202_GENERIC.zip

The Agent patch should be applied to the target computers to run the RAC provisioning jobs.

(Bug 5218082)

Clone Job Does not Exit if Postscript Fails (Windows Platform)

Install the following OMS patch:

MetaLink 5467873: p5467873_10202_GENERIC.zip

Install the following Agent patch:

MetaLink 5533210: p5533210_10202_GENERIC.zip

The Agent patch should be applied to both the Enterprise Manager server and the target computers to run the RAC provisioning jobs.

(Bug 5467873)

RAC Issues

The following sections document known issues pertaining to RAC.

RAC Database Instance Name Becomes Uppercase (Windows Platform)

The workaround is to use an uppercase database instance name.

(Bug 5439927)

Example 2 Workaround in the Request Model for 5439927

```
<AggregateTarget>
  <Name>RAC1</Name>
  <Type>rac_database</Type>
  <Target>
    <Name>RAC1_RAC11</Name>
    <Type>oracle_database</Type>
    ...
  </Target>
  <Property>
    <Name>gdbName</Name>
    <Value>RAC1</Value>
  </Property>
  <Property>
    <Name>sid</Name>
    <Value>RAC1</Value>
  </Property>
  ...
</AggregateTarget>
```

File under DB Home Cannot be Removed When Deleting Node from RAC for Windows (Windows Platform)

The workaround is to set the `oms_delete_all_targets` property to be true in the `rac_database` aggregate target. Otherwise, restart the target and manually delete DB HOME.

(Bug 5513165)

Example 3 Workaround in the Request Model for 5513165

```
<AggregateTarget>
  <Name>RAC1</Name>
  <Type>rac_database</Type>
  <Target>
    ...
  </Target>
  <Property>
    <Name>oms_delete_all_targets</Name>
    <Value>>true</Value>
  </Property>
</AggregateTarget>
```

API to Remove Membership from a CRS Cluster (Generic Platform)

After you remove a node from an existing RAC, the host target still remains in the cluster target. You must manually remove the host target from this cluster target before you reuse this host.

The workaround is to set the `oms_delete_all_targets` property to be true in the `rac_database` aggregate target. Otherwise, you will need to manually delete the host from the cluster through Enterprise Manager as follows:

1. From Enterprise Manager, select the **Targets** tab, then the **All Targets** tab.
2. Select the **Cluster** target from the Search drop-down list, then click **Go**.
3. Select the target, then click **Configure**. The Configure Target page appears.
4. Remove the membership of the node you removed from the RAC, then click **Update**.

(Bug 5166979)

Example 4 Workaround in the Request Model for 5166979

```
AggregateTarget>
  <Name>RAC1</Name>
  <Type>rac_database</Type>
  <Target>
    ...
  </Target>
  <Property>
    <Name>oms_delete_all_targets</Name>
    <Value>>true</Value>
  </Property>
</AggregateTarget>
```

RACDeleteNode has Message "Error: Could not Read any NLS Message Catalog!" (Windows Platform)

This error message appears at steps S3 and S5 for the `Delete Node` job for the Windows platform. It does not affect the job execution.

(Bug 5503758)

DBCA Issues

The following sections document known issues pertaining to DBCA.

DBCA Silent Mode Registers the Database Instance Name in Lowercase (Windows Platform)

The workaround is to change the database instance to lowercase for DBCA. The Connector Framework automatically takes care of this.

(Bug 5451904)

DBCA (Silent) Registers Cluster Database Name in Uppercase when Creating CFS RAC

(Generic Platform)

Workaround for the Linux platform:

Use uppercase letters for the `rac_database` aggregate target name when the storage is CFS.

Workaround for the Windows platform:

Use uppercase letters for the `rac_database` aggregate target name whether or not the storage is CFS. The Connector Framework changes the `gdb` name to uppercase for DBCA in case you forget to do so.

(Bug 5359240)

Example 5 Workaround in the Request Model for 5359240

```
<AggregateTarget>
  <Name>RAC1</Name>
  <Type>rac_database</Type>
  <Target>
    <Name>RAC1_RAC11</Name>
    <Type>oracle_database</Type>
    ...
  </Target>
  <Property>
    <Name>gdbName</Name>
    <Value>RAC1</Value>
  </Property>
  <Property>
    <Name>sid</Name>
    <Value>RAC1</Value>
  </Property>
  ...
</AggregateTarget>
```

Password File is not Generated When DBCA Creates or Adds an Instance in Silent Mode (Windows Platform)

The workaround is to use `orapwd` to generate the password file for the database instance and ASM instance if the storage type is ASM. The Connector Framework automatically takes care of this.

(Bug 5451945)

Other Issues

The following sections document issues unrelated to RAC or DBCA.

PERLBIN is not Properly Resolved for Host CMD and Job on Linux OMS to NT Agent (Windows Platform)

The workaround is to pass in `%perlbin%` as an argument. The Connector Framework automatically takes care of this.

(Bug 5099754)

CVU does not Allow Private IP for Public (Generic Platform)

The workaround is to use different CVU commands for the Linux platform. The Connector Framework automatically takes care of this.

The Windows platform does not require a workaround, because the exit code of CVU would be zero even when the command fails (bug 5467164).

(Bug 5513197)

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