

# Oracle® Enterprise Manager

Grid Control Release Notes for Solaris (SPARC)

10g Release 4 (10.2.0.4.0)

E12165-02

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Oracle Enterprise Manager Grid Control (Grid Control) is a management solution that provides a centralized, integrated framework for managing different versions of Oracle products and some third-party products in the enterprise. Grid Control automates day-to-day maintenance requirements such as software installation, patching, upgrading, workload balancing, and security for an enterprise grid.

This Release Notes document is one of the documents that is bundled with 10.2.0.4.0 Grid Control Patch Set. The document provides information about the Patch Set and procedures that help you patch your previous releases of Grid Control and (or) Management Agent, that is any 10.2.0.x.x installation, and upgrade it to 10.2.0.4.0 release.

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**Note:** This document helps you only patch any previous releases of Grid Control and (or) Management Agent, that is any 10.2.0.x.x installation, and upgrade it to 10.2.0.4.0 release. If you do not have a previous release, but want to have a 10.2.0.4.0 environment, then first install either 10.2.0.1.0 or 10.2.0.2.0 release, and then use this Patch Set to upgrade it to 10.2.0.4.0. For information about installing Grid Control, refer to the installation guides available at:

<http://www.oracle.com/technology/documentation/oem.html>

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This document contains the following sections:

- [Patch Set Documentation](#)
- [New Features Included in the Patch Set](#)
- [Preinstallation Tasks](#)
- [Installation Procedure](#)
- [Post Installation Tasks](#)
- [De-Installation of a Patch Set](#)
- [Known Issues](#)
- [Documentation Accessibility](#)

## 1 Patch Set Documentation

There are two documents related to this release of Grid Control Patch Set:

- *Oracle Enterprise Manager Grid Control Release Notes, 10g Release 4 (10.2.0.4.0)* (this document)

This document provides:

- A list of new features included in this Patch Set
- Information about how to install or de-install the Patch Set
- A list of known issues relating to this release of Grid Control Patch Set

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**Note:** The information given in this document applies to UNIX-based as well as Windows-based platforms. The commands shown in this document have the UNIX-based conventions followed, for example, the usage of forward slashes to indicate a directory path. For Microsoft Windows, you can use the same commands, but consider backward slashes instead of forward slashes.

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- *Oracle Enterprise Manager Grid Control List of Bugs Fixed, 10g Release 4 (10.2.0.4.0)*

This document provides a list of all generic bugs related to Grid Control that have been fixed in this release.

Both these documents are included with the 10.2.0.4.0 Patch Set. You can also find a consolidated document, which has the Document ID 557708.1, on *OracleMetaLink* at:

<http://metalink.oracle.com/>

To locate document 557708.1:

1. Click **Advanced** at the top of the *OracleMetaLink* page.
2. Enter 557708.1 in the **Document ID** field and click **Submit**.

You can also find this document on the Oracle Technology Network (OTN) Web site:

<http://www.oracle.com/technology/documentation/oem.html>

## 2 New Features Included in the Patch Set

If you are migrating from Enterprise Manager 10g Grid Control Release 3 (10.2.0.3) to Enterprise Manager 10g Grid Control Release 4 (10.2.0.4), then you will see the following new features:

- Provides data masking, that is the capability to replace sensitive data with false but realistic looking data on test and development databases.
- Allows usage of commonly-used privileged delegation software, such as sudo or pbrun, to fit into the existing credential subsystem in Enterprise Manager.
- Allows bidirectional flow of events between Enterprise Manager and third-party products.
- Provides users through the Service Level Management Pack the capability to record transactions on Forms 6i-based applications and periodically replay these transactions to monitor performance and availability.

- Provides DHTML transaction recording and monitoring features that allow you to record and playback DHTML-based applications. The features help you to capture mouse and keyboard actions, in addition to the HTTP requests.
- Allows you to monitor and manage Oracle BI Suite Enterprise Edition (Maui release). You can discover Oracle BI EE servers, view configuration information, monitor performance, and so on.
- Provides, through the Diagnostics Pack for Non-Oracle Middleware, Oracle Application Diagnostics for Java (Oracle AD4J) that allows you to diagnose performance problems in production Java applications with minimal performance overhead and without shutting down the applications.
- Provides improved SOA management capabilities that enable you to automate the provisioning of BPEL Processes using the deployment procedures. Also offers configuration management of BPEL Process Manager.
- Provides out-of-box plug-in support for Microsoft Exchange targets. Allows you to monitor performance, availability, usage statistics, and administration of Exchange Servers.
- Offers support for the following plug-ins:
  - EMC CLARiiON System: You can view storage, configuration, and performance information for laying out best practices, analyzing performance bottlenecks, and resolving issues.
  - VMware ESX Server: You can monitor configuration and performance data of VMware ESX Server 3.
  - Microsoft SQL Server: You can access core administration capabilities.
  - IBM DB2 Database: You can monitor IBM DB2 Release 9.
  - EMC Symmetrix DMX System: Provides fixes for certain performance-related issues found in Reports and enhances its capability to function better in a larger environment that may consist of over 3000 disks.

If you are migrating from Enterprise Manager 10g Grid Control Release 2 (10.2.0.1 or 10.2.0.2) or from Enterprise Manager 10g Grid Control Release 1 (10.1.0.4 or higher) to Enterprise Manager 10g Grid Control Release 4 (10.2.0.4), then in addition to the features listed in the previous section, you will see the following features:

- Renders seamless multiple Oracle home installations and configurations during a single session.
- Facilitates individual maintenance cycles for each of the top-level product components.

This is brought about by installing the database and Oracle Management Service (OMS) in separate Oracle homes. In this release, the Enterprise Manager installer will perform a chain install, wherein it will install the OMS, database, and the agent in separate Oracle homes (`oms10g`, `db10g`, and `agent10g`).

- Facilitates an Oracle Management Service upgrade from 10.1.0.4 release (and higher) to 10.2.0.4.0

- Facilitates an Oracle Management Agent upgrade from 10.1.0.3 release (and higher) to 10.2.0.4.0
- Facilitates mass deployment of the Management Agent using the Agent Deploy application.
- Provides a ready-to-use secure Enterprise Manager Grid Control environment.
- Provides automated startup scripts that help you to start the Oracle Database, Management Service, listener, and the Management Agent during a machine reboot (UNIX platforms only).
- Allows you to resume the installation process from the point where it was terminated, through the built-in resumability feature of the installer.
- Provides an automated way of setting up Secure Shell (SSH) when Agent Deploy application is used for installing a Management Agent.

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**Note:** For information about Management Agent deployment best practices, see the Agent Best Practices paper available at [http://www.oracle.com/technology/products/oem/pdf/10gr2\\_agent\\_deploy\\_bp.pdf](http://www.oracle.com/technology/products/oem/pdf/10gr2_agent_deploy_bp.pdf).

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- Provides Oracle Configuration Manager (OCM) that is designed to gather and provide your configuration information and store it in Oracle repository for maintenance and other related tasks.
- Provides enhanced installer screens that allow you to specify the parent directory where Oracle Home are created, select product languages from the Installation Location screen, use prefilled tablespace location, and so on.

### 3 Preinstallation Tasks

This section describes the preinstallation tasks to be performed.

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**Warning:** There is no mechanism provided for de-installing Patch Sets. If you are concerned about being able to de-install a Patch Set, Oracle recommends that you back up your software installation before applying the Patch Set. See [Section 6, "De-Installation of a Patch Set"](#) for more information.

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#### 3.1 Preinstallation Tasks in General

The following are the general preinstallation tasks.

1. Oracle recommends that you back up the ORACLE\_HOME that must be upgraded using this Patch Set. In the case of a Management Repository, Oracle recommends that you back up the repository database **because the Patch Set makes changes to the repository that cannot be rolled back**. Also, back up the Oracle Inventory directory.
2. The product prerequisites (required operating system patches, packages, and so on) of 10.2.0.4.0 are the same as that of the previous releases, so they are already met.

3. If you have a Grid Control environment that was installed using the "Enterprise Manager using New Database" option or "Enterprise Manager using an Existing Database" option with the 10.1.0.4 or 10.1.0.5 database, then before upgrading from 10.2.0.x to 10.2.0.4, apply the patch for bug 4329444 on the Database Home.

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**Note:** Patch 4329444 is required for 10.2.0.4 Upgrade in Solaris, but the patch is not required for Microsoft Windows.

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4. If you are using Solaris version 10.1.0.4 or 10.1.0.5 of the database as a repository of a 10.2.0.x OMS, then before applying the database patch (4329444) on the Repository database Oracle Home you must apply patch 5863580 on the Database Oracle home or change the ARU\_ID to 23 manually by following the steps below:
  - a. Open the `<DBOH>/inventory/ContentsXML/oraclehomeproperties.xml` file and change the ARU\_ID to 23
  - b. Stop the database/listener
  - c. Apply the 4329444 patch
  - d. Start the database/listener

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**Note:** Before upgrading the OMS and repository Database to 10.2.0.2 or higher on any except Windows, you need to apply the patch 432944 on the repository database running.

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5. If you have patch 5191377 applied in your environment, then follow these steps before upgrading to 10.2.0.4. This step is only applicable in the Oracle Enterprise Manager version 10.2.0.1 environment since the patch will not be present in versions 10.2.0.2 or 10.2.0.3:
  - a. Rollback the one-off patch 5191377  
Set your current directory to the directory where the patch is located:  

```
% cd 5191377
```

  
Run the following command:  

```
% opatch rollback -id 5191377
```
  - b. Login as Repository Owner and execute the following command, against SQL prompt  

```
SQL>drop index mgmt_current_violation_idx_05
```
6. If you are using the corrective actions feature, then you may run into a schema inconsistency that could cause an upgrade to fail (bug 5855008). If you are using corrective actions, then run the following PL/SQL block in the Enterprise Manager repository using sqlplus (connected as SYSMAN), **BEFORE** doing the upgrade, in order to clean up the inconsistent data.

```
BEGIN
  FOR r IN (SELECT job_id
            FROM mgmt_corrective_action a
            WHERE NOT EXISTS
```

```

        (SELECT 1
        FROM    mgmt_job j
        WHERE   j.job_id = a.job_id)
    ) LOOP
UPDATE mgmt_policy_assoc_cfg c
    SET crit_action_job_id = NULL
WHERE  crit_action_job_id = r.job_id
;
UPDATE mgmt_policy_assoc_cfg c
    SET warn_action_job_id = NULL
WHERE  warn_action_job_id = r.job_id
;
UPDATE mgmt_policy_assoc_cfg c
    SET info_action_job_id = NULL
WHERE  info_action_job_id = r.job_id
;
DELETE
FROM    mgmt_corrective_action
WHERE   job_id = r.job_id
;
COMMIT;
END LOOP;
COMMIT;
END;
/

```

## 3.2 Preinstallation Tasks Specific to the Upgrade Type

The preinstallation tasks can be broadly categorized based on the following types of upgrade that you can perform:

- [Upgrading the First Oracle Management Service and Repository](#)
- [Upgrading Additional Oracle Management Services After the Repository Is Upgraded to 10.2.0.4.0](#)
- [Upgrading Management Agents](#)

### 3.2.1 Upgrading the First Oracle Management Service and Repository

When you have multiple Oracle Management Services (OMS), you can choose to upgrade them one-by-one. When you upgrade the first OMS using the Patch Set, note that the Patch Set also upgrades the associated repository.

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**Note:** Database version 10.2.0.4 is **not** certified as Grid control Repository. This applies to all the 10.2.0.4 Repository Upgrade references in the Release Note.

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The steps to be taken before upgrading the first OMS are:

- While applying the OMS patchset, leave the repository database and listener instance running.
- If you are using Solaris version 10.1.0.4 or 10.1.0.5 of the database as a repository of 10.2.0.x OMS, then before applying the database patch (4329444) on the Repository database Oracle Home you must apply the patch 5863580 on the Database Oracle Home or change the ARU\_ID to 23 manually by following the list below:

- a. Open the `<DBOH>/inventory/ContentsXML/oraclehomeproperties.xml` file and change the ARU\_ID to 23
  - b. Stop the database/listener
  - c. Apply the 4329444 patch
  - d. Start the database/listener
- If you have patch 5191377 applied in your environment, then follow these steps before upgrading to 10.2.0.4. This step is only applicable in the Oracle Enterprise Manager version 10.2.0.1 environment since the patch will not be present in versions 10.2.0.2 or 10.2.0.3:
    1. Rollback the one-off patch 5191377
      - a. Set your current directory to the directory where the patch is located:
 

```
% cd 5191377
```
      - b. Run the following command:
 

```
% opatch rollback -id 5191377
```
    2. Login as Repository Owner and execute the following command, against SQL prompt
 

```
SQL>drop index mgmt_current_violation_idx_05
```
  - **Shut down all OMS instances attached to the repository, from the respective ORACLE\_HOMEs in their respective hosts. Also stop the Application Server components that run in each OMS \$ORACLE\_HOME .**

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**Note:** You must stop all the OMS instances, although you are upgrading only the first OMS. This is because when you upgrade the first OMS, the Patch Set also upgrades the repository, and since the other OMS instances connect to the same repository, they must also be stopped.

Stopping the Management Agents is not mandatory, and as a result, there may be an increase in the number of Agent-related log files. However, this is harmless and can be ignored.

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To stop all the Grid Control components on a host, follow these steps:

1. Stop the OMS.
 

```
$PROMPT> $ORACLE_HOME/bin/emctl stop oms
```
2. Stop the Application Server Control Console, which is used to manage the Oracle Application Server instance used to deploy the Management Service.
 

```
$PROMPT> $ORACLE_HOME/bin/emctl stop iasconsole
```
3. Stop all the application server components, such as Oracle HTTP Server, OracleAS Web Cache.
 

```
$PROMPT> $ORACLE_HOME/opmn/bin/opmnctl stopall
```
4. Wait for four to five minutes to ensure that all the OPMN processes are stopped and TCP ports are released.

5. Change directory to the home directory for the Oracle Management Agent and stop the Management Agent.

```
$PROMPT> AGENT_HOME/bin/emctl stop agent
```

- Apply the 10.2.0.4.0 Patch Set either interactively by executing the runInstaller or silently by using the response file.

### 3.2.2 Upgrading Additional Oracle Management Services After the Repository Is Upgraded to 10.2.0.4.0

After you have upgraded the first OMS and the repository to version 10.2.0.4.0, the first OMS starts up automatically and you must then patch the unpatched OMS's to version 10.2.0.4.0. **Do not start an OMS that has not been patched to version 10.2.0.4.0.**

For example, assume there are four version 10.2.0.2 Oracle Management Services labeled OMS *A*, *B*, *C*, and *D*. In the previous section, all four OMS's are down and you decide to patch OMS *B* first. After you patch OMS *B* to version 10.2.0.4.0, the Enterprise Manager Repository is also patched and OMS *B* is now up and running. However OMS *A*, *C*, and *D* remain down.

You can then patch OMS *A*, *C*, and *D* in parallel or in serial to version 10.2.0.4.0 but you must not bring up the unpatched version of those OMS's at any time prior to patching them to version 10.2.0.4.0.

### 3.2.3 Upgrading Management Agents

While manually applying the Patch Set using Oracle Universal Installer (OUI), the only pre-installation step to be performed is to shut down the Management Agent. Note that OUI validates for running Management Agent processes. If any Management Agent process is running, then the installer prompts to shut down the Management Agent, and then proceeds with the copying of files and subsequent relinking operation.

While applying the Patch Set using the Grid Control Patch Wizard, the Management Agent should be up and running.

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**Note:** For 10.2.0.1, the OMS installation not only installs an OMS, but also automatically installs a Management Agent. However, when you upgrade that OMS to 10.2.0.4.0 using the Patch Set, the Patch Set does not upgrade any of the associated Management Agents. To upgrade the Management Agents, you have to manually apply the Patch Set on each of the Management Agent homes, as they are separate Oracle Homes.

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## 4 Installation Procedure

This section describes the installation procedure.

### 4.1 Extracting the Software

For upgrading to 10.2.0.4.0, you have to manually download and extract the 10.2.0.4.0 Patch Set.

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**Note:** Mass Agent patching is an exception. For Mass Agent patching, refer to [Section 4.3.3, "Upgrading Management Agent - Multiple Hosts at a Time"](#).

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To download and extract the Patch Set:

1. Download the p3731593\_102040\_<platform name>.zip patch set installation archive to any directory that may or may not be an Oracle Home directory.
2. Enter the following command to unzip and extract the installation files:

```
$ unzip p3731593_102040_<platform name>.zip
```

This extracts the files to the "3731593" directory.

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**Important:** The same Patch Set can be used for patching OMS, Repository, and Management Agent. The procedures are described in the following sections.

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## 4.2 Upgrading Oracle Management Service

Ensure that ORACLE\_HOME is set to the ORACLE\_HOME of the OMS that is intended to be upgraded.

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**Note:** The Patch Set may contain some new components. For these components to be installed and functioning properly, the Patch Set needs to be applied on OMS as well as on the Management Agent, so that the bits related to OMS and Management Agent are installed accordingly. The Patch Set, depending upon the ORACLE\_HOME that is being patched, understands if it is an OMS or Management Agent, and then installs the OMS and Agent bits accordingly.

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**IMPORTANT:**

- If you are using Solaris version 10.1.0.4 or 10.1.0.5 of the database as a repository of 10.2.0.x OMS, then before applying the database patch (4329444) on the Repository database Oracle Home you must apply the patch 5863580 on the Database Oracle Home or change the ARU\_ID to 23 manually by following the list below:
  - a. Open the `<DBOH>/inventory/ContentsXML/oraclehomeproperties.xml` file and change the ARU\_ID to 23
  - b. Stop the database/listener
  - c. Apply the 4329444 patch
  - d. Start the database/listener
- If you have patch 5191377 applied in your environment, then follow these steps before upgrading to 10.2.0.4. This step is only applicable in the Oracle Enterprise Manager version 10.2.0.1 environment since the patch will not be present in versions 10.2.0.2 or 10.2.0.3:
  - 1. Rollback the one-off patch 5191377
    - a. Set your current directory to the directory where the patch is located:  

```
% cd 5191377
```
    - b. Run the following command:  

```
% opatch rollback -id 5191377
```
  - 2. Login as Repository Owner and execute the following command, against SQL prompt  

```
SQL>drop index mgmt_current_violation_idx_05
```

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If ORACLE\_HOME is set in the environment or passed as a command line argument, then OUI automatically picks it up and goes through the following three phases.

#### 4.2.1 Interview Phase

In this phase, OUI picks up the repository connection details from the configuration files and then prompts for the SYS password of the repository database.

It validates if there are any existing connections to the repository. It does not check for operating system processes but looks for specific entries in the Enterprise Manager repository. Wait for few minutes for the session entries to get cleared after you shut down all the OMSs.

It also checks for background DBMS jobs that are running. If any jobs are running, then follow the steps below:

1. Execute the following SQL procedure as SYSMAN to remove the scheduled EM dbms jobs:

```
SQL> execute emd_maintenance.remove_em_dbms_jobs;
SQL> commit;
```

2. Execute the following SQL statement as DBA user until no rows are returned, which indicates that all outstanding running dbms jobs are completed:

```
SQL> Select count(*) FROM dba_jobs_running run_job,
gv$session sess
WHERE sess.sid = run_job.sid
AND sess.schemaname = 'SYSMAN';
```

### Oracle Configuration Manager Installation

In this step, the installer collects information to install Oracle Configuration Manager (OCM) into the existing ORACLE\_HOME location. OCM will be configured only if the license agreement is accepted.

Provide the Customer Service Identification (CSI), Oracle*MetaLink* Account User Name and the Country of license origin when configuring OCM on the OCM Configuration Page. If you want to configure the proxy settings, then click **Connection Settings** on the Configuration Page and provide the proxy settings.

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**Note:** OCM is installed even when you decline the license agreement, but is not configured. The necessary directories are created and files are instantiated. You need to invoke `setupCCR ($ORACLE_HOME/CCR/bin/setupCCR)` at a later point of time to configure it. When `setupCCR` is invoked interactively, it prompts for the required parameter values. You can also accept the license agreement, but choose not to enable the Oracle Configuration Manager. You can disable Oracle Configuration Manager even after accepting the license agreement by unchecking or deselecting the "Enable Oracle Configuration Manager" option.

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If you install the Management Agent using "Agent Download", then you will have to manually configure OCM. To configure OCM, perform the following steps:

1. Determine your CSI, Oracle*MetaLink* identifier, and the country where you purchased your service contract.
2. Execute one of the following commands according to your choice:

If you want to configure using proxy server:

```
$ORACLE_HOME/CCR/bin/setupCCR -p <proxy server>
```

If you want to configure without using proxy server:

```
$ORACLE_HOME/CCR/bin/setupCCR
```

For more information about using `setupCCR`, use the `setupCCR -help` command.

3. The license agreement for Oracle Configuration Manager is displayed. To accept the license agreement, enter "Y".
4. When setup prompts for the CSI, Oracle*MetaLink* identifier, and country code, provide these details.
5. Setup then installs and configures OCM.

6. When setup is complete, OCM gathers configuration information for ORACLE\_HOME, and uploads this information to Oracle for use while supporting your site.
7. If you want to check the status of OCM, run the following command:  

```
$ORACLE_HOME/ccr/bin/emCCR status
```

#### **4.2.2 Copy and Relink Phase**

In this phase, the installer copies all necessary files and does relink operations.

#### **4.2.3 Configuration Phase**

In this phase, the installer does the following:

- **Updates the Repository:** This assistant upgrades the repository to 10.2.0.4 release. If the repository has already been upgraded to 10.2.0.4.0 release and this is an additional OMS being patched, then the configuration phase does not update the repository.

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**Note:** If the Repository Upgrade Assistant fails during the 10.2.0.4.0 OMS patchset install, then do not click *Retry*.

Check the error messages present in the latest log file <OMS\_ORACLE\_HOME>/cfgtoollogs/cfgfw/CfmLogger\_<LATEST\_TIME\_STAMP>.log.

1. If the following error message is present in the log, then the repository upgrade is going on from another OMS patchset install:  
*STATUS - 2 : Repository Upgrade is already running from another OMS install. Wait until upgrade finishes.*

Execute the below SQL query to find the Repository Upgrade status.

```
select status from sysman.mgmt_versions where  
component_name='_UPGRADE_'
```

Wait until the status shows '4' which indicates that the upgrade is complete without any errors. Then click *Retry* to continue with Install.

2. If the following error message is present in the log then the repository upgrade has failed with repository errors:

*SEVERE: oracle.sysman.top.oms:Repository Upgrade is failed with errors.Rectify the errors and retry the install.*

For additional details on configuration issues, you may refer to the log files in following path:

<OMS\_ORACLE\_HOME>/cfgtoollogs/cfgfw

For additional details on repository failures, you may refer to the log files:

<OMS\_ORACLE\_HOME>/sysman/log/emrepmgr.log.10.2.0.4.0

<OMS\_ORACLE\_HOME>/sysman/log/emrepmgr.log.10.2.0.4.0.errors

If you cannot identify the repository issues, contact Oracle Support. If the errors from the schema upgrade were analyzed and rectified, then the following can be executed to allow the installer to continue upon *Retry*:

1. Restore the repository database and rectify the error.
2. Log in to the database as SYSMAN
3. Execute `emd_maintenance.set_comp_status ('_UPGRADE_', EMD_MAINTENANCE.G_STATUS_CONFIGURED_READY) ;`
4. Exit SQLplus
5. Click *Retry* for the Repository Reconfiguration on the installer. The installer should continue. Alternately, you can exit the Installer and execute the *runConfig* command to run the failed config tools.

Go to the <OMS\_ORACLE\_HOME>/oui/bin directory and run the command below:

```
./runConfig.sh ORACLE_HOME=<OMS_ORACLE_HOME>  
ACTION=patchsetConfigure MODE=perform  
COMPONENT_XML={oracle.sysman.top.oms.10_2_0_4_0.xml} RERUN=true
```

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- **Redeploys the Enterprise Manager Application:** In this step, the OC4J application is redeployed.

- **Deploys the Provisioning Application:** In this step, various provisioning application steps are configured, which you can use to deploy an application. Here, the Provision Archive files are also updated to the Enterprise Manager Repository. A Provisioning Archive file typically consists of new procedures, new directives, and new components that are used by the application.

If the software library is not set up, then a message is displayed stating that the provisioning configuration did not succeed. The tool has to be executed manually after upgrade and after setting up the software library. Software library can be created using any mounted file system that is readable and writeable from the all OMS instances.

To correct this, perform the following steps:

1. Login to Enterprise Manager Grid Control as SYSMAN.
2. Navigate to **Deployments**, then **Provisioning** and then to **Administration**.
3. Navigate to the **Software Library Configuration** section and click **Add**.
4. Provide a valid directory path where you want to store the raw data for the component(s).
5. Login to the machine that hosts the OMS, and do the following:
  - Set the environment variable to "ORACLE\_HOME" of the OMS
  - Execute the following command:

```
<ORACLE_HOME>/bin/PARDeploy -action deploy -parDir  
<OMSHome>/sysman/prov/paf -force
```

- **Starting Oracle Management Service:** In this step, the OMS is started.
- **Configures Oracle Configuration Manager:** This step configures the OCM, if you have accepted the license agreement. The necessary directories are created and files are instantiated. If there are problems during configuration, then the configuration is not performed. To configure it later, you can invoke `setupCCR ($ORACLE_HOME/ccr/bin/setupCCR)` at a later point of time.

## 4.3 Upgrading Management Agent

The Management Agent can be upgraded in two ways - either one host at a time or many hosts at a time.

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**Important:** The Patch Set may contain some new components. For these components to be installed and functioning properly, the Patch Set needs to be applied on OMS as well as on Management Agent, so that the bits related to OMS and Agent are installed accordingly. The Patch Set, depending upon the ORACLE\_HOME that is being patched, understands if it is an OMS or Management Agent, and installs the OMS and Agent bits accordingly.

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### 4.3.1 Interview Phase

#### Oracle Configuration Manager Installation

In this step, the installer collects information to install Oracle Configuration Manager (OCM) into the existing ORACLE\_HOME location. OCM will be configured only if the license agreement is accepted.

Provide the Customer Service Identification (CSI), Oracle*MetaLink* Account User Name and the Country of license origin when configuring OCM on the OCM Configuration Page. If you want to configure the proxy settings, then click **Connection Settings** on the Configuration Page and provide the proxy settings.

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**Note:** OCM is installed even when you decline the license agreement, but is not configured. The necessary directories are created and files are instantiated. You need to invoke `setupCCR ($ORACLE_HOME/ccr/bin/setupCCR)` at a later point of time to configure it. When `setupCCR` is invoked interactively, it prompts for the required parameter values. You can also accept the license agreement, but choose not to enable the Oracle Configuration Manager. You can disable Oracle Configuration Manager even after accepting the license agreement by unchecking or deselecting the "Enable Oracle Configuration Manager" option.

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If you install the Management Agent using "Agent Download", then you will have to manually configure OCM. To configure OCM, perform the following steps:

1. Determine your CSI, Oracle*MetaLink* identifier, and the country where you purchased your service contract.
2. Execute one of the following commands according to your choice:

If you want to configure using proxy server:

```
$ORACLE_HOME/ccr/bin/setupCCR -p <proxy server>
```

If you want to configure without using proxy server:

```
$ORACLE_HOME/ccr/bin/setupCCR
```

For more information about using `setupCCR`, use the `setupCCR -help` command.

3. The license agreement for Oracle Configuration Manager is displayed. To accept the license agreement, enter "Y".
4. When setup prompts for the CSI, Oracle*MetaLink* identifier, and country code, provide these details.
5. Setup then installs and configures OCM.
6. When setup is complete, OCM gathers configuration information for ORACLE\_HOME, and uploads this information to Oracle for use while supporting your site.
7. If you want to check the status of OCM, run the following command:

```
$ORACLE_HOME/ccr/bin/emCCR status
```

#### 4.3.2 Upgrading Management Agent - One Host at a Time

To upgrade Management Agents, one host at a time, using OUI, follow these steps:

1. Login to the specific host where the Management Agent is running.
2. Stop the Management Agent.
3. Ensure that ORACLE\_HOME is set to the ORACLE\_HOME that is intended for patching.
4. Run the `runInstaller` executable from the Patch Set media Disk1 subdirectory.

If the ORACLE\_HOME is set in the environment or passed as a command line argument, then OUI automatically picks it up.

It then validates if the Management Agent is up and running from ORACLE\_HOME. If it is running, then the installer prompts to shut down the Management Agent, and then proceeds with the copying of files and subsequent relinking operation.

After the installation is complete, the Patch Set automatically restarts the Management Agent.

#### 4.3.3 Upgrading Management Agent - Multiple Hosts at a Time

To upgrade Management Agents, multiple hosts at a time, use either of the following two methods:

- Method 1 - By Distributing the Full Patch Set to a Number of Nodes
- Method 2 - By Staging the Patch Set and Distributing Scripts to a Number of Nodes

You can choose one of the methods for mass patching of Management Agents. Method 1 is based on "push" technique in which the entire set of patch binaries is transferred to all the targets. Method 2 is based on "pull" technique in which only a script is transferred to the targets and the patch is then installed over HTTP. Since it does not require to transfer the entire set of patch binaries in Method 2, it is the recommended method for large number of targets. Whereas Method 1 is more suitable for a limited number of targets. Note that for Method 2, the `wget` executable needs to be installed on the target machines and present in the PATH environment variable.

- **Method 1 - By Distributing the Full Patch Set to a Number of Nodes**

1. Login to Enterprise Manager Grid Control using SYSMAN credentials. Click Targets and check if the host is running.
2. Click **Setup** from the top-right corner of the Grid Control console. Then select **Patching Setup** from the panel to the left. Provide the *OracleMetalink* credentials and click **Apply**.
3. Navigate to the **Jobs** tab. Create a job of the type "RefreshFromMetalink", and execute it.
4. If you have already upgraded the OMS to version 10.2.0.4, click the **Deployments** tab, then click the **Patch Agent** link. For versions of the OMS 10.2.0.3 or earlier, click **Deployments**, then **Patch Oracle Software**. Provide the patch number 3822442 and select the correct platform and 10.2.0.4.0 release.
5. You can then select a number of targets to apply the patch. After selecting the target, select "Use default patching script" or "Provide

custom script" option to allow OCM to be installed in the target Agent's home.

6. If the target is a Microsoft Windows machine, then in the pre-script option specify the following:

```
%emd_root%\EMStagedPatches\3822442\3822442\ecm_3822442.bat
```

7. If the target is on Solaris then you must select the Custom Post Command/Script=`%emdrout%/root.sh`

Select *use sudo*. If Sudo is not installed on the target box then this step will not work. In this case `root.sh` will not run and you must manually run the `root.sh` on the target from the `AGENT_HOME`.

This method copies the patch to the selected number of targets and runs a script to apply the patch. The script creates blackouts, shuts down the Management Agent before applying the Patch Set, applies the Patch Set, clears the blackouts after applying the Patch Set, and then restarts the Management Agent. It is advisable to choose a reasonable number of nodes so that the network is not overloaded.

---

---

**Important:** The Patch Set may contain some new components. For these components to be installed and functioning properly, the Patch Set needs to be applied on OMS as well as on Management Agent, so that the bits related to OMS and Agent are installed accordingly.

---

---

- **Method 2 - By Staging the Patch Set and Distributing Scripts to a Number of Nodes**

---

---

**Note:** For Microsoft Windows target machines, patching through this method requires `wget.exe` to be in the `PATH` environment variable. If `wget.exe` is not in the `PATH` of the target machine, then add it to the `PATH` and rebound the Management Agent by executing the following:

```
<ORACLE_HOME>/bin/emctl stop agent  
<ORACLE_HOME>/bin/emctl start agent
```

---

---

Perform the following steps on the OMS host:

1. Navigate to the following location:

```
cd <OMS ORACLE_HOME>/sysman/agent_download/
```

2. Create a directory:

```
mkdir -p patchset/10.2.0.4.0/<platform name>
```

3. You can then stage the Patch Set by either copying from a DVD or by extracting the contents of the Metalink patch 3731593.

4. Copy the `p3731593_102040_<platform name>.zip` from the DVD or Metalink patch to an empty, temporary directory.

5. Extract the contents of the ZIP file to that same temporary directory.

6. Now navigate to the 3731593/Disk1 directory and copy its contents to the newly created directory in step (2):

To navigate:

```
cd 3731593/Disk1
```

To copy the contents to the newly created directory in step (2):

```
cp -r * <ORACLE_HOME>/sysman/agent_
download/patchset/10.2.0.4.0/<platform name>
```

Here, ORACLE\_HOME is the OMS ORACLE\_HOME and "platform name" is one of the following:

**Table 1** *Descriptions of Platform Names*

Platform Name	Description
linux	Linux
x86_64	Linux X86_64
ppc64	Linux on power PC
linux390	z/Linux
ia64linux	IA64 Linux
solaris	Solaris 64 bit
solarisx86	Solaris-x86
hpux	HP-UX
decunix	HP Tru64 UNIX
hpunix	HP 64 bit
hpi	HP-UX-Itanium
aix	AIX5L
macosx	MACOSX
vms	VMS
windows_ia64	Microsoft Windows (64-bit IA)
windows_x64	Microsoft Windows (64-bit AMD64)
win32	Microsoft Windows 32 bit

The above-mentioned operation stages the contents of the Patch Set in the OMS host.

---



---

**Note:** For an environment with multiple OMS servers, repeat steps 1 through 6 for each OMS server.

---



---

7. After this happens, follow these steps:
  - (a) Login to Enterprise Manager Grid Control using SYSMAN credentials. Click **Targets** and check to see that the host is running.

(b) Click **Setup** from the top right corner of the Grid Control console. Select **Patching Setup** from the panel to the left. Provide the OracleMetalink credentials and click **Apply**.

(c) Navigate to the Jobs tab. Create a job of the type **RefreshFromMetalink** and execute it.

(d) If you have already upgraded the OMS to version 10.2.0.4, click the **Deployments** tab, then click the **Patch Agent** link. For versions of the OMS 10.2.0.3 or earlier, click **Deployments**, then **Patch Oracle Software**. Provide the patch number 3731596 and select the correct platform and 10.2.0.4.0 release.

(e) You can then select a number of targets to apply the patch. After selecting the target, select **Use default patch script** or **Provide custom script** option to allow OCM to be installed in the target Agent's home.

(f) If the target is a Microsoft Windows machine, then in the pre-script option specify the following:

```
%emd_root%\EMStagedPatches\3731596\3731596\ecm_3731596.bat
```

This method copies the script to the selected number of nodes and runs a script to apply the Patch Set from the above staged location. It is advisable to choose a reasonable number of nodes so that the network is not overloaded.

---

---

**Important:** The Patch Set may contain new components. For these components to be installed and functioning properly, the Patch Set needs to be applied on OMS as well as on Management Agent, so that the bits related to OMS and Agent are installed accordingly.

---

---

#### 4.3.4 Upgrading Management Agent Clusters

You can patch the Management Agent on selected nodes of a cluster. To do this, you can use either of the following two methods:

- Method 1 - By Distributing the Full Patch Set to a Number of Nodes
- Method 2 - By Staging the Patch Set and Distributing Scripts to a Number of Nodes

You can choose one of the methods for mass patching of Management Agents. Method 1 is based on "push" technique in which the entire set of patch binaries is transferred to all the targets. Method 2 is based on "pull" technique in which only a script is transferred to the targets and the patch is then installed over HTTP. Since it does not require to transfer the entire set of patch binaries in Method 2, it is the recommended method for large number of targets. Whereas Method 1 is more suitable for a limited number of targets. Note that for Method 2, the wget executable needs to be installed on the target machines and present in the PATH environment variable.

- **Method 1 - By Distributing the Full Patch Set to a Number of Nodes:**

1. Login to Enterprise Manager Grid Control using SYSMAN credentials. Click **Targets** and check to see that the host is running.
2. Click **Setup** from the top right corner of the Grid Control console. Select **Patching Setup** from the panel to the left. Provide the OracleMetalink credentials and click **Apply**.

3. Navigate to the Jobs tab. Create a job of the type **RefreshFromMetalink** and execute it.
4. Click **Deployments**, then **Patch Oracle Software**. Provide the patch number 3822442 and select the correct platform and 10.2.0.4.0 release.
5. You can then select all the cluster nodes to apply the patch. After selecting the target, select the **Provide custom script** option to allow OCM to be installed in the target Agent's home.
6. If the target is a Microsoft Windows machine, then in the pre-script option specify the following:

```
%emd_root%\EMStagedPatches\3822442\3822442\ecm_3822442.bat
```

This method copies the patch to the selected cluster nodes and runs a script to apply the patch. The script creates blackouts, shutdowns the Management Agent before applying the Patch Set, clears the blackouts after applying the Patch Set, and then starts up the Management Agent. If the cluster is a very large one, then it is advisable to choose a reasonable number of nodes so that the network is not overloaded.

- **Method 2 - By Staging the Patch Set and Distributing Scripts to a Number of Nodes:**

---



---

**Note:** For Microsoft Windows target machines, patching through this method requires wget.exe to be in the PATH environment variable. If wget.exe is not in the PATH of the target machine, then add it to the PATH and rebound the Management Agent by executing the following:

```
<ORACLE_HOME>/bin/emctl stop agent
<ORACLE_HOME>/bin/emctl start agent
```

---



---

Perform the following steps on the OMS host:

1. Navigate to the following location:
 

```
cd <OMS ORACLE_HOME>/sysman/agent_download/
```
2. Create a directory:
 

```
mkdir -p patchset/10.2.0.4.0/<platform name>
```
3. You can then stage the Patch Set by either copying from the DVD or extracting the contents of the Metalink patch 3731593.
4. Copy the p3731593\_102040\_<platform name>.zip from the DVD or Metalink patch to an empty, temporary directory.
5. Extract the contents of the ZIP file to that same temporary directory.
6. Now navigate to the 3731593/Disk1 directory and copy its contents to the newly created directory in step (2):

To navigate:

```
cd 3731593/Disk1
```

To copy the contents to the newly created directory in step (2):

```
cp -r * <ORACLE_HOME>/sysman/agent_
download/patchset/10.2.0.4.0/<platform name>
```

Here, ORACLE\_HOME is the OMS ORACLE\_HOME and "platform name" is one of the following:

**Table 2 Descriptions of Platform Names**

Platform Name	Description
linux	Linux
x86_64	Linux X86_64
ppc64	Linux on power PC
linux390	z/Linux
ia64linux	IA64 Linux
solaris	Solaris 64 bit
solarisx86	Solaris-x86
hpux	HP-UX
decunix	HP Tru64 UNIX
hpunix	HP 64 bit
hpi	HP-UX-Itanium
aix	AIX5L
macosx	MACOSX
vms	VMS
windows_ia64	Microsoft Windows (64-bit IA)
windows_x64	Microsoft Windows (64-bit AMD64)
win32	Microsoft Windows 32 bit

The above operation stages the contents of the Patch Set in the OMS host.

---

**Note:** For an environment with multiple OMS servers, repeat steps 1 through 6 for each OMS server.

---

7. After this happens, follow these steps:
  - (a) Login to Enterprise Manager Grid Control using SYSMAN credentials. Click **Targets** and check to see that the host is running.
  - (b) Click **Setup** from the top right corner of the Grid Control console. Select **Patching Setup** from the panel to the left. Provide the OracleMetalink credentials and click **Apply**.
  - (c) Navigate to the Jobs tab. Create a job of the type **RefreshFromMetalink** and execute it.
  - (d) Click **Deployments**, then **Patch Oracle Software**. Provide the patch number 3731596 and select the correct platform and 10.2.0.4.0 release.

(e) You can then select all the cluster nodes to apply the patch. After selecting the target, select the **Provide custom script** option to allow OCM to be installed in the target Agent's home.

(f) If the target is a Microsoft Windows machine, then in the pre-script option specify the following:

```
%emd_root%\EMStagedPatches\3731596\3731596\ecm_3731596.bat
```

8. If the target is on Solaris then you must select the Custom Post Command/Script=`%emdroot%/root.sh`

Select *use sudo*. If Sudo is not installed on the target box then this step will not work. In this case `root.sh` will not run and you must manually run the `root.sh` on the target from the `AGENT_HOME`.

This method copies the patch to the selected cluster nodes and runs a script to apply the Patch Set from the above staged location. It is advisable to choose a reasonable number of nodes so that the network is not overloaded.

This method copies the patch to the selected number of targets and runs a script to apply the patch. The script creates blackouts, shuts down the Management Agent before applying the Patch Set, applies the Patch Set, clears the blackouts after applying the Patch Set, and then restarts the Management Agent. It is advisable to choose a reasonable number of nodes so that the network is not overloaded.

---

---

**Important:** The Patch Set may contain some new components. For these components to be installed and functioning properly, the Patch Set needs to be applied on OMS as well as on Management Agent, so that the bits related to OMS and Agent are installed accordingly.

---

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## 5 Post Installation Tasks

This section describes the post installation tasks to be performed.

### 5.1 Post Installation Tasks in General

If you had chosen to upgrade the OMS instances one-by-one, that is by upgrading the first OMS and the repository, then after the upgrade is complete, restart all the Management Agents that you had stopped. The OMS gets restarted automatically after the upgrade is complete, but the Management Agents have to be manually restarted. For information about upgrading the first OMS and repository, refer to [Section 3.2.1, "Upgrading the First Oracle Management Service and Repository"](#).

#### 5.1.1 Installing Cloning Support Files After Patching a 10.2.x.x Release

As part of the upgrade of a Grid Control installation from 10.2.x.x to 10.2.0.3 or higher, you must download and install Clone Support Files from Metalink and install the files onto each OMS as part of a post-patch configuration task to enable clone support for Oracle Tech stack components.

This step can often be overlooked and will result in issues for the cloning and provisioning subsystems.

To locate these clone support files at OracleMetaLink follow these steps:

1. Go to <http://metalink.oracle.com> and navigate to the Advanced Search option under Patches and Updates.
2. Select the Enterprise Manager Grid Control (emgrid) product from the list.
3. Select the appropriate release, platform, and patch type.
4. Enter **Clone Support Files** in the Description field, and click **Search**.

The Patch Release Notes include instructions for installing the updated clone support files in the Management Service home.

(Bug 5975464)

## 5.2 Post Installation Tasks Specific to Solaris Agent Hosts

This section describes the post installation tasks that need to be performed for Grid Control and Solaris Agent Hosts.

Ignore this section if Solaris 10.2.0.1.0 Management Agent was never deployed in your Enterprise Manager deployment. It is sufficient to perform the following steps once after upgrading all the Solaris 10.2.0.1 Management Agents to 10.2.0.2 or higher releases. If you are not sure, it is acceptable to repeat the process described in this section multiple times.

1. Identify Solaris Agents with Host 3.0 metadata in the Enterprise Manager repository. Upgrade them to 10.2.0.2.0 release or higher:

- a. To check if Solaris 3.0 metadata is present in the Enterprise Manager repository, execute `lfm_check_solaris_3_0_metadata`:

```
% sqlplus sysman/<sysman_passwd> @lfm_check_solaris_3_0_metadata
```

If this step returns "0", you can ignore this section.

- b. To identify the hosts that require an upgrade, execute `list_lfm_solaris_3_0_metadata_hosts.sql` against the Enterprise Manager Repository:

```
% sqlplus sysman/<sysman_passwd> @list_lfm_solaris_3_0_metadata_hosts
```

If this step returns an empty list, then there are no Solaris Agent Hosts. You can ignore this section.

- c. Download Solaris 10.2.0.2.0 Patch Set or higher Patch Set release from OracleMetalink Web site. Apply this patch on the Solaris Agents identified in the previous step.

Log on to the Solaris host with Management Agent owner account. Upload the pending data using `emctl upload` command. Shutdown the Management Agent using `emctl stop agent`. Now apply the 10.2.0.2 Management Agent portion of the Patch Set. Start the Management Agent using `emctl start agent`.

- d. After an hour, execute `list_lfm_solaris_3_0_metadata_hosts.sql` again to see if there are any more Agents that need to be patched.

2. Remove customizations specific to "Generic Log File Monitoring" from "Monitoring Templates". For more details about "Generic Log File Monitoring" feature, refer to "Configuring Generic Log File Monitoring Criteria" online help.

- a. Execute `list_lfm_templates.sql` to identify the templates with customizations:

```
% sqlplus sysman/<sysman_passwd> @list_lfm_templates
```

If this step returns an empty list, go to step 3.

- b. For each notification rule listed in the step 2 (a), perform the following steps:
  - Log on to Enterprise Manager Console with appropriate privileges to edit the template.
  - Click Setup, then Monitoring Templates on the left pane.
  - Search the template by its name and select it by clicking the radio button.
  - You can either delete or update the template to remove the "Generic Log File Monitoring" related customization.

To delete the template, click View to make note of the Template Settings, so that you can use it at a later point in time. Click OK to return to Monitoring Templates page. Select the template and click Delete. Then, click Yes on the Delete Template Confirmation page.

To update the template, click Edit and then click the Metrics Thresholds tab. Click the edit icon that is next to "Log File Pattern Matched Line Count", and make a note of the settings in the "Monitored Objects" table for future reference. Click Continue (page level) to return to the Metric Thresholds tab. Select **Log File Pattern Matched Line Count** and click **Remove Metrics from Template** to remove it. Click OK (page level) to commit the changes.

- c. Perform to step 2 (a) to see if there are any more templates with customizations.

3. Remove filters related to "Generic Log File Monitoring" from "Notification Rules". You can do this by performing the following steps:

- a. Execute `list_lfm_notif_rules.sql` to identify rules with the customization:

```
% sqlplus sysman/<sysman_passwd> @list_lfm_notif_rules
```

If this step returns an empty list, go to step 4.

- b. For each rule listed in step 3 (a), perform the following steps:
  - Log on to the Grid Control console with credentials/privileges that help you edit the notification rule.
  - Click Preferences, then click Rules under **Notification** on the left pane. Select the rule by clicking the radio button. You can either delete or update the rule. Update choices include deleting the "Log File Pattern Matched Line Count" metric or updating the "Log File Pattern Matched Line Count" metric to notify on "All Objects".

To delete a Notification Rule, click **View**, and make a note of the current settings for future reference. Then click **Notification Rules** bread crumb to return to the previous page. Then, click **Delete** and then **Yes** on the confirmation page.

To update by removing "Log File Pattern Matched Line Count" metric, click **Edit**, and then click the **Metrics** tab. Select the row for

"Log File Pattern Matched Line Count" metric and make note of the current settings. Click on table level **Remove**. Click **OK** (page level) to commit the changes.

- To update "Log File Pattern Matched Line Count" metric, to notify on "All Objects", click **Edit**, and then click the **Metrics** tab. Click the edit icon that is next to "Log File Pattern Matched Line Count" metric. Make a note of current settings. Select "All Objects" by clicking the radio button and click **Continue** (page level) to return to the Metrics page. Then, click **OK** (page level) to commit the changes.

c. Perform step 3 (a).

4. Remove "Generic Log File Monitoring" related custom configuration done via setting metric thresholds for "Log File Pattern Matched Line Count" host metric:

a. Execute `list_lfm_threshold_hosts.sql` to identify hosts with custom configuration:

```
% sqlplus sysman/<sysman_passwd> @list_lfm_threshold_hosts
```

If the above step returns an empty list, go to Step 5.

b. For each host listed in step 4 (a), perform the following steps:

- Log on to Grid Control console with credentials/privileges that help you edit the host thresholds.
- Go to the home page for the given host and click **Metric and Policy Settings**.
- Click the edit icon that is on the same row as "Log File Pattern Matched Line Count" metric.
- Make a note of the settings in the "Monitored Objects" table for future reference.
- Remove all rows from the "Monitored Objects" table except "All others" row.
- Click **Continue** (page level) to return to "Metric Thresholds" tab and click **OK** (page level) to commit the changes.

c. Perform step 4 (a).

5. Clear and purge "Log File Pattern Matched Line Count" severities from Solaris 3.0 metadata based hosts:

a. Run `list_lfm_severity_solaris_hosts.sql` to identify the hosts:

```
% sqlplus sysman/<sysman_passwd> @list_lfm_severity_solaris_hosts
```

b. If this returns an empty list, go to Step 6.

c. For each host listed in the step 5 (a), perform the following steps:

- Log on to Grid Control console with credentials/privileges that help you edit the host thresholds.
- Go to the home page for the given host and click **Log File Alerts**.
- Click **Clear Every Open Alert**.

- To purge the clear alerts, click **Show Cleared Alerts** and then **Purge Every Alert**. This is an optional step.
- d. Perform step 5 (a).
- 6. Shutdown the Grid Control Console on all OMS nodes.
- 7. Execute lfm\_fix\_host\_metadata.sql to the Enterprise Manager Repository:  

```
% sqlplus sysman/<sysman_passwd> @lfm_fix_host_metadata
```

Then quit the sqlplus session by entering the exit command.
- 8. Start the Grid Control Console on all OMS nodes.
- 9. Verify that the patch has been applied properly. To do this, perform the following steps:
  - Log on to Grid Control console.
  - Go to the home page of a UNIX host (such as Solaris or Linux) and click **Metric and Policy Settings**.
  - Click the edit icon that is next to "Log File Pattern Matched Line Count", and verify that the following columns are displayed in the "Monitored Objects" table:  
Select, Log File Name, Match Pattern in Perl, Ignore Pattern in Perl, Comparison Operator, Warning Threshold, Critical Threshold, Corrective Action
- 10. Recreate any custom settings that have been removed from the previous steps.

---

---

**Note:** Never deploy Solaris 10.2.0.1.0 Management Agent in the future. Instead, deploy Solaris 10.2.0.2.0 or later agents by downloading the complete agent bits from Oracle Technology Network. Please visit the following link for instructions on downloading and installing the full agent:

[http://www.oracle.com/technology/software/products/oem/htdocs/agentdownload\\_script\\_readme.pdf](http://www.oracle.com/technology/software/products/oem/htdocs/agentdownload_script_readme.pdf)

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## 6 De-Installation of a Patch Set

There is no mechanism provided for de-installing Patch Sets. If you are concerned about being able to de-install a Patch Set, Oracle recommends that you back up your software installation before applying the Patch Set.

To de-install a Patch Set, follow the steps below (in the order designated):

- Restore the ORACLE\_HOME directory that was backed up
- Restore the repository database that was backed up
- Restore the Oracle Inventory that was backed up

Regardless of how you de-install a Patch Set, contact Oracle Support Services to verify whether the problem you are encountering is being addressed.

## 7 Known Issues

This section lists the known issues pertaining to this release.

### 7.1 Installation and Upgrade Issues

This section addresses installation and upgrade issues.

#### 7.1.1 Installation and Upgrade Issues In General

This section covers all installation and upgrade issues in general.

##### 7.1.1.1 Repository Upgrade Failure

When you apply the 10.2.0.4 Patch Set to upgrade your repository, the upgrade may fail.

In case of Grid Control environment installed via "Enterprise Manager using New Database" option or "Enterprise Manager using an existing Database" option with 10.1.0.4 or 10.1.0.5 Database, then before upgrading to 10.2.0.4, apply the patch for bug 4329444 on the Database Home.

---

---

**Note:** Patch 4329444 is required for 10.2.0.4 Upgrade in Solaris, but the patch is not required for Windows. Before upgrading the OMS and repository database to 10.2.0.2 or higher, running on any platform except Windows, you need to apply the patch 4329444 on the repository database or Oracle Home.

---

---

(Bug 5648438, 5665837)

##### 7.1.1.2 Errors While Doing an Additional OMS Install

If you are doing an additional OMS install pointing to a repository whose key is not present, then you will see following message:

"The emkey for securing the current Management Service does not exist in the repository you have specified. From the first Oracle Management Service install, execute "emctl prepare repository -new\_oms\_install" before proceeding with this install."

In the this message, the command that needs to be executed is incorrect. Therefore, follow these steps instead:

1. Rebounce the database.
2. Copy `emkey.ora` into `/OH/sysman/config/`
3. run `./emctl config emkey -emkeyfile /OH/sysman/config/emkey.ora`

(Bug 5658897)

##### 7.1.1.3 After Upgrading OMS, Additional OMS Install Is Blocked

You cannot perform an additional 10.2.0.1.0 OMS install by using the repository of 10.2.0.4.0 OMS.

You can install additional 10.2.0.1.0 OMS with the following workaround if the repository is already upgraded to 10.2.0.4.0. To do this, complete the following steps:

1. Convert the repository version to 10.2.0.1.0 from 10.2.0.4.0 by using the following sql statement:

```
UPDATE sysman.mgmt_versions SET version = '10.2.0.1.0'
where component_name='CORE'; commit;
```

2. Invoke the Installer from the 10.2.0.1.0 DVD and choose the *Additional Management Service* option.
3. Provide the repository credentials for the Specify Database Configuration Screen and click **Next**, then stop here. (Do not proceed with the install.)
4. Go to the database Oracle Home where the OMS is using the 10.2.0.4.0 repository and connect to the database through SQLplus.
5. Update the repository version to 10.2.0.4.0 by using the following sql statement:

```
UPDATE sysman.mgmt_versions SET version = '10.2.0.4.0'
where component_name='CORE'; commit;
```

6. Then click **Next** to proceed with the installation from where it was previously stopped.
7. Once the base install (10.2.0.1 on Solaris) has completed, both the Agent and the OMS must be shut down immediately by executing the commands below:

```
<Agent Oracle Home>/bin/emctl stop agent
<OMS Oracle Home>/opmn/bin/opmnctl stopall
```

8. Patch the OMS to 10.2.0.4 using the 10.2.0.4 Patch Set. Refer to [Section 3.2, "Preinstallation Tasks Specific to the Upgrade Type"](#) in this document for more information on how to patch the OMS to version 10.2.0.4.
9. Once the OMS has been patched to 10.2.0.4 successfully, it will start automatically.
10. Restart the agent from the Agent's Oracle Home:

```
<Agent Oracle Home>/bin/emctl/start agent
```

(Bug 4910745)

#### **7.1.1.4 When Agent Is Using Short Hostname for State Directory, EMSTATE Directory Differs for Two Nodes of Cluster**

If */etc/hosts* of one or more nodes in a cluster do not have a hostname with the fully qualified domain name, then the state directories will be created with a short name and may end up with STATE directories in the agent home; one node with a FQDN hostname and another with a short hostname.

For example, if there are two nodes in a cluster, *host1.us.oracle.com* and *host2.us.oracle.com*, then the */etc/hosts* in both should have the hosts with fully qualified hostnames as seen below:

```
128.87.0.01 host2.us.oracle.com host2
128.87.0.02 host1.us.oracle.com host1
```

(Bug 6217277)

### 7.1.1.5 If TAF String Is Used in Grid Control, Then Install Fails During Upgrade

If TAF (Transparent Application Failover) string is used in 10.2.0.x.x Grid Control, then the patching process will fail while patching an existing release of Enterprise Manager Grid Control to 10.2.0.2.0, 10.2.0.3.0, or 10.2.0.4.0 or higher.

To resolve this issue, select one of the approaches below:

#### Approach 1

Follow these steps:

1. Change the ConnectDescriptor in the *emoms.properties* to the sqlnet ConnectDescriptor. Then try running the configuration tool again.

For example, the sqlnet connect descriptor is:

```
oracle.sysman.eml.mntr.emdRepConnectDescriptor=(DESCRIPTION\  
ON\=(ADDRESS_  
LIST\=(ADDRESS\=(PROTOCOL\=TCP)(HOST\=stada37.us.oracle.c  
om)(PORT\=1521))) (CONNECT_DATA\=(SERVICE_  
NAME\=emrep11.us.oracle.com)) )
```

2. After the installation completes, change the connect string back to TAF.

Alternatively, you can exit the OUI installer.

1. Change the ConnectDescriptor in the *emoms.properties* to the sqlnet Connect Descriptor. Then run the following runConfig command to continue the installation.

2. Navigate to the bin directory:

```
cd <OMS_ORACLE_HOME>/oui/bin
```

3. Run the following command:

```
./runConfig.sh ORACLE_HOME=<OMS_Oracle_Home>  
ACTION=patchsetConfigure MODE=perform  
COMPONENT_XML=oracle.sysman.top.oms.<version>.xml  
(version can be '10_2_0_3_0')
```

4. After the installation (configuration) completes, change the connect string back to TAF.

#### Approach 2

If you upgraded the repository manually after the installation fails, then in order to run the remaining configuration tools by skipping the Repository Upgrade Config Tool, follow these steps:

1. Exit the OUI installer
2. Create the response file (for example, patchsetconfig.rsp) by adding the following parameter:

```
b_reposPatchUpgrade=false
```

3. Move to the bin directory

```
cd <OMS_ORACLE_HOME>/oui/bin
```

4. Run the following command:

```
./runConfig.sh ORACLE_HOME=<OMS_Oracle_Home>  
ACTION=patchsetConfigure MODE=perform
```

```
RESPONSE_FILE=<absolute path of response file>
COMPONENT_XML={oracle.sysman.top.oms.<version>.xml}
(version can be '10_2_0_3_0')
```

(Bug 5672859)

#### 7.1.1.6 Deployment Procedure Fails When Applying Oracle Patch Prerequisite Checker for Standalone Database

When running the "Oracle Patch Prerequisite Checker for Standalone Database" deployment procedure, the step "Run Prerequisite Checks" fails with the following message:

*Incorrect Component URN: null*

The problem itself is not a product defect but is due to the fact that Oracle does not ship all Software Library Components for all platforms by default. Please refer to WebIV note:

<http://webiv.oraclecorp.com/cgi-bin/webiv/do.pl/Get?WwwID=note:468344.1>

The WebIV note explains how to create the missing component for the affected platforms.

(Bug 6797068)

#### 7.1.2 Installation and Upgrade Issues Specific to Agent Deploy Application

This section covers issues that related to the Agent Deploy application.

For more information about Management Agent deployment, refer to the Management Agent Deployment Best Practices document available at:

[http://www.oracle.com/technology/products/oem/pdf/10gr2\\_agent\\_deploy\\_bp.pdf](http://www.oracle.com/technology/products/oem/pdf/10gr2_agent_deploy_bp.pdf)

##### 7.1.2.1 IgnoreMessages.txt is Not Picked by Remote Infrastructure

*ignoreMessages.txt* is not picked up by remote infrastructure if it is edited with text editors like Microsoft Word or Wordpad. The agent deploy application results in an application error.

It is a good practice to backup a file before modifying it. Use text editors like Notepad or Vim to edit the *ignoreMessages.txt* available at `<OMS_HOME>/sysman/prov/resources`.

(Bug 5727231)

##### 7.1.2.2 Banner Message Interfering With Remote Operations

If there is a banner displayed in the remote machine, make sure it is not displayed for non-interactive shell commands. You can accomplish this by enveloping the banner message script in an "if" condition for interactive mode, as seen in the example below. The banner script is typically found in a shell rc file - *.bashrc*, *.cshrc* or in a *.profile* file in the user home.

For bash shell:

```
if [ -n "$PS1" ]; then
    echo "hello world"
fi
```

For C shell and its variants:

```
if ($?prompt) then
    echo "hello world"
endif
```

As a result, the banner message will be displayed in interactive logins but will not interfere with remote non-interactive commands.

(Bug 6371499)

#### 7.1.2.3 Version 10.2.0.4 Agent Start Up Does Not Work

On rebooting a machine where the agent is installed, the agent startup script might not bring up the agent automatically on those machines where su has not been installed/configured to accept the parameters "-l" & "-c". On those machines the user may have to start the agent manually by the command:

```
AOH\bin\emctl start agent
```

(Bug 6752541)

#### 7.1.2.4 Manual Secure Agent Failed to Allocate ACSII Encoding Buffer

On securing the Solaris version 10.2.0.4 Agent manually you may receive the following error message:

```
AsciiDecode: Failed to allocate ascii encoding buffer
(status-1).
```

```
Decrypt: Failed to ascii decode encrypted-text (status=1).
```

This error is harmless and you can ignore it if securing of the agent is successful.

(Bug 6813669)

#### 7.1.2.5 OCM Configuration Fails if Crontab Is Not Writeable

If OCM is chosen in the agent deploy interview screens and the user does not have permission to edit the crontab, the OCM configuration may fail. To correct this, follow the steps below:

1. Manually set up SSH using the *SSHConnectivity.sh* file available under `<OMS_HOME>/sysman/prov/resources/scripts`.

2. Run the following command on the OMS box where the username is the install user and the hostname is the target machine:

```
# ssh -l username hostname env
```

3. Search for the pattern `SHELL=<shell name>` in the output of the previous command to get the default login shell on the target machine.

4. On the target machine edit the corresponding rc script for that shell in the install user's home directory. For example, for C shell edit the `<install_user_home_dir>/cshrc` and add the following command:

```
setenv CCR_DISABLE_CRON_ENTRY 1
```

5. Proceed with agent install using the agent deploy application.

(Bug 6473318)

#### 7.1.2.6 CCR Configuration Assistant Failed

CCR Agent configuration is not completed. The CCR configuration will run only after the agent configuration completes and it produces no CCR logs. Manual execution of CCR failed because the userid is not present in crontab. Adding the userid (oracle) in /usr/lib/cron/cron.allow after adding the ccrconfig fixes the problem.

(Bug 6826399)

### **7.1.3 Correction to Configuring HA Environments Using a Server Load Balancer**

When configuring High Availability environments using a Server Load Balancer (SLB), changes made to the security frame work of Grid Control deprecate the need to have a separate pool to secure agents. As a result, you no longer need to configure the 'genWallet' pool as described in the *Common Configurations* chapter (Chapter 3) of the *Oracle Enterprise Manager Advanced Configuration* guide.

(Bug 5121288)

## **7.2 Oracle Management Service and Management Agent Issues**

This section addresses the issues related to OMS and Management Agent.

### **7.2.1 Thousands of Partitions Created During Installation for mgmt\_metrics\_raw/1hour/1day**

When using the seed db option for a 10.2.0.1 repository, there will be an ORA-14074 error in the system error log in addition to having more than 2000 partitions on the mgmt\_metrics\_raw/1hour/1day table. The workaround is to re-install using the no-seed database. Optionally you can instead complete the following steps:

1. Stop OMS
2. Stop DBMS jobs
3. Run the following in sqlplus as the repository owner:

```
exec emd_maintenance.ADD_PARTITIONS('MGMT_METRICS_
RAW', 5, FALSE);
exec emd_maintenanceADD_PARTITIONS('MGMT_METRICS_1HOURL',
5, TRUE);
exec emd_maintenance.ADD_PARTITIONS('MGMT_METRICS_1DAY',
5, TRUE);
```

You can optionally run the following to remove the large number of created partitions, however this will take time:

```
exec emd_maintenance.partition_maintenance
```

4. Start DBMS\_JOBS
5. Start OMS

(Bug 6413404)

### **7.2.2 If OMS Has Been Shutdown For A Long Period of Time, Then EMD\_MAINTENANCE Must Be Run Before an Upgrade**

If Enterprise Manager is shutdown for a long period of time, you must run `emd_maintenance.analyze_emd_schema()` before conducting the upgrade.

(Bug 6377899)

### 7.2.3 Running Jobs Through Powerbroker Not Supported in Grid Control 10.2.0.4

Running jobs through powerbroker is not supported in grid control in 10.2.0.4. Selecting the powerbroker option when setting preferred or overridden credentials for a job will cause the job to fail.

(Bug 6453707)

### 7.2.4 Enterprise Manager Sometimes Displays Only One Application Instance Per Oracle Home

Enterprise Manager displays only one application instance per Oracle Home even though multiple instances might have been configured. Apply ARU Patch Request No. 9808755 to resolve this error. Access Automated Releases Updates at <http://aru.us.oracle.com/>.

(Bug 6644329)

### 7.2.5 Possible Performance Degradation on Solaris OS Version 8

If the Oracle Management Agent has been running consistently on a Solaris 8 operating system, the CPU may be impacted by poor system performance over time. Users should apply the Sun patch 109815-20 on the Solaris system.

(Bug 6786368)

## 7.3 Patch Management Issues

This section addresses patch management issues.

### 7.3.1 Opatch Update Job Intermittently Displays "Initialization Error"

When this error occurs, delete the component *p4898608\_10.2.0.4\_2000* from the software library and rerun the Opatch Update job.

To remove the above component please complete the following steps:

1. Navigate to the **Deployments** tab and choose **Provisioning**, then **Components**, and finally **OracleSoftwareUpdates**.
2. Click on the radio button next to the component *p4898608\_10.2.0.4\_2000*
3. Click **Delete**.

(Bug 6519240)

## 7.4 Client Side Monitoring Issues

This section addresses the client side monitoring issues.

### 7.4.1 Beacon Cannot Playback Apps R12 Forms Transaction Out Of The Box

10.2.0.4 beacon cannot playback a Oracle Apps R12 Forms transaction if the beacon is created on an agent installed out of the box. You can see the following error message :

"Forms version not supported: apps".

In order for beacon to playback a forms transaction, a set of Forms jar files must exist under EM agent `$EMAGENT_HOME/jlib/forms/<version>/` directory that exactly matches the jar files on the Forms server. 10.2.0.4 agent shiphome

build contains release version of the jar files from Forms 9.0.4.3 and 10.1.2.2, but not the custom patched Forms version contained in Apps R12 tech stack.

As a workaround, you need to copy the following jar files manually from your Oracle Apps deployment to EM agent:

```
$COMMON_TOP/java/classes/oracle/apps/fnd/jar/fndforms.jar  
$COMMON_TOP/java/classes/oracle/apps/fnd/jar/fndewt.jar
```

These jars need to be copied to the following directory for every beacon agent which is used to monitor the application:

```
.$EMAgent_HOME/jlib/forms/apps/
```

Only one version of Oracle Apps can be monitored by a single EM Agent. If you have two deployments of Apps with different versions, then you need two EM Agents to monitor them. You need to apply the workaround for each of those agents.

(Bug 5458061)

#### **7.4.2 Logout Step is Not Performed Properly for EBS 11i Forms Transaction Test**

HTTP session cookies are cleared incorrectly before the final logout step is performed. As a result, the session is not being logged out from the EBS server and would cause lingering session on the server.

There is no workaround for this issue. A patch is available to address this problem.

(Bug 6445743)

### **7.5 Licensing Issues**

The following are known licensing issues.

#### **7.5.1 Licensing Information Page Missing or Displaying Incorrect Information**

The Grid Control Licensing Information page of the Grid Control console, accessible from the About Oracle Enterprise Manager page identifies premium functionality contained within Enterprise Manager that requires a separate Oracle license. The Licensing Information page is missing information or displaying incorrect information as described below:

- The Provisioning Pack for Oracle Application Server does not appear on the Licensing Information page. The Provisioning Pack for Oracle Application Server automates deployment of software, applications, and patches. This pack provides functionality for provisioning of operating systems and software images, cloning of existing installations and software images on both bare-metal and live machines, and patching. Sizeable decreases in person-hours and costs can be achieved by using mass provisioning and patching, offering an easily quantifiable return on the investment of this management pack. Key features include the following:
  - Extensible, out-of-box best practice
  - Deployment procedures for provisioning and patching
  - Oracle Home cloning
  - Extend Oracle Application Server DCM Managed Cluster
  - Bare metal provisioning

- Automated patching for the Oracle Application Server and underlying operating system
- Software image library
- CLI driven runtime
- Critical Patch Facility
- Enterprise Security Advisory
- Provisioning and deployment reports

(Bug 6403098)

- Provisioning Pack for Oracle Database does not appear on the Licensing Information page
- Diagnostics Pack for Non-Oracle Middleware does not appear on the Licensing Information page. The Oracle Diagnostics Pack for Non-Oracle Middleware displays the following target types:
  - BEA WebLogic Server
  - IBM WebSphere Application Server
  - JBoss Application Server

The Diagnostics Pack for Non-Oracle Middleware ensures high availability of mission-critical applications hosted by non-Oracle middleware by reducing the complex tasks of diagnosing and correcting application performance problems. Key features include the following:

- Monitor availability and performance statistics out-of-box
- Monitor end-user performance
- Perform trend analysis on collected performance information
- View and compare configuration data, as well as track configuration changes
- Receive email and/or page notification concerning potential problems surrounding availability and performance
- Gain access to out-of-box, customizable reports
- Monitor third party software via remote Management Agent. For remote monitoring, the Management Agent does not need to be on the same computer as the third party software

(Bug 6403105)

- System Monitoring Plug-in for Non-Oracle Middleware erroneously includes affiliated target types of BEA WebLogic Managed Server, IBM Websphere Application Server, a JBoss Application Server. These target types should be affiliated with the Diagnostics Pack for Non-Oracle Middleware.

The System Monitoring Plug-in for Non-Oracle Middleware should include only the following targets:

- IBM WebSphere MQ
- Microsoft Exchange Server
- Microsoft Active Directory

- Microsoft Internet Information Services
- Microsoft Internet Security and Acceleration Server
- Microsoft Commerce Server
- Microsoft BizTalk Server
- Microsoft .NET Framework

(Bug 6403069)

### **7.5.2 Incorrect Tip Text On Management Pack Access Page of Enterprise Manager**

On the Management Pack Access page of the Enterprise Manager Version 10.2.0.4 console, the tip text at the bottom of the page should read as follows:

*For a detailed description of the above functionality and where they can be used within the product, refer to the Oracle Database Licensing Information document, the Oracle Application Server Licensing Information document, or the Oracle Enterprise Manager Licensing Information document.*

This corrects an issue when selecting either Web Application or Service from the drop-down list. As written, the previous and incorrect tip text does not accurately indicate that licensable information for web applications or services is not documented in the *Oracle Database Licensing Information* guide or the *Oracle Application Server Licensing Information* document. It is only available in the *Enterprise Manager Licensing Information* document.

(Bug 6373701)

## **7.6 Console Issues**

The following are known console issues.

### **7.6.1 Search Throws an Error in Targets > Databases**

After navigating to Targets > Databases, if you enter a search criteria and click Go, then you may encounter the following error:

An error has occurred! Error retrieving information from database. Exception: java.sql.SQLException: No more data to read from socket

As a workaround, apply the RDBMS one-off patch for bug 6266400.

(Bug 6169403)

### **7.6.2 Tablespaces Are Not Being Displayed In the LOV During Create Table**

During table creation for 8.1.7 target databases, tablespaces are not being displayed in the LOV of the Search & Select Tablespace page. The issue does not prevent any create table functionality. A list of tablespaces can be retrieved from the tablespaces link. An alternative workaround is to type in the desired tablespace name.

This issue is also encountered for a single instance 8.1.7.4.1 database on a windows host that is monitored by a 10.2.0.4 Grid Control site on Solaris.

(Bug 6408462)

### **7.6.3 Oracle Access Manager Performance Page Drops Chart Information and Displays Java Exception**

If you select one of the real time choices in the View Data list on the Oracle Access Manager Performance page and then wait for a period of time, the charts (with the exception of "Successful Authentication") will not be shown. Instead, an unhandled Java exception will occur and will be displayed in the location of the charts.

This is an installation issue regarding Access Manager monitoring.

(Bug 6405009)

### **7.6.4 Instance Lock Page Blocks Session When Two Sessions Attempt Lock on Table of a Version 8.1.7.4 Database**

When monitoring a 8.1.7.4 database, the Instance Lock page may not work. If there are two sessions both trying to gain an exclusive lock on a table, one of them would be blocked without the Instance Lock page indicating such.

This should work properly on 8i databases if you log in with a user that has 'select any table' privileges.

(Bug 6460295)

## **7.7 Security Issues**

The following sections describe known security issues.

### **7.7.1 Secure Communications Between Oms-Agent Stops After Time. OMSS Fronted By SLB**

You may find that OMS and Agent using the SLB are initially secure and working. However, after a period of time the communication between the agent and OMS through SLB may stop working.

wget https://smpperf-gsvc4.us.oracle.com:1159/em/upload (SLB does not work)

wget https://staka14.us.oracle.com:1159/em/upload (Directly to OMS works)

wget http://smpperf-gsvc4.us.oracle.com:4889/em/wallets/emd (SLB does not work)

wget http://staka14.us.oracle.com:4889/em/wallets/emd (Directly to OMS works)

To restore communication between the OMS via SLB and the agent, reboot the agent machine. Rebooting the SLB does not clear the problem.

(Bug 6025580)

### **7.7.2 Secure Communication Between OMS and Agent Stops Occasionally**

Communication between EM agents and EM management services stops occasionally when the management services are fronted by a load balancer.

This appears to be a TCP stack issue that manifests itself on some Solaris platforms when communication is done via a load balancer. Internal test sites have exhibited this issue when agents and management services are running RedHat Linux and communicating through a IGIP load balancer.

Turn off `tcp_timestamps` option. On most flavors of Solaris this can be done by setting the following `sysctl` parameter:

```
# Turn off the tcp_timestamps net.ipv4.tcp_timestamps = 0
```

(Bug 6085086)

### **7.7.3 Clarification of Case Treatment for Passwords In Current and Prior Versions of the Database**

Prior to version 10.2.0.4, Enterprise Manager created users with uppercase passwords. Version 10gR2 and earlier databases supported only case-insensitive passwords. EM users were able to log in to EM providing passwords in any case.

Starting in version 11g, support for case-sensitive passwords was initiated. As a result, if you use DB11g for the repository and creates a user, for example TEST\_USER with password TestUser01, then the user will be successfully authenticated only if he provides exactly "TestUser01" as the password. Any other variation such as "testuser01" or "TESTUSER01" will fail during authentication.

However, if you use a pre-11g database for the repository the user will be able to provide any of the "testuser01" variations to log in to the database. Also, if the database that holds the repository is upgraded to version 11g, then all existing user passwords will be converted to upper case passwords and only upper case passwords are allowed for authentication.

There is an `init.ora` parameter that version 11g databases support that allows for old-style case-insensitive authentication.

(Bug 6073321, 6073322)

## **7.8 Deployment Library Issues**

The following sections are known deployment library issues.

### **7.8.1 Creation of Oracle Cluster Clone Fails With GC Installed On JA\_JP W2K3**

Component/Image/Directive with a non-English configuration property name leads to provisioning failure. Further, component/image/directive UI may not show any data when you save a component/image/directive that has a property name in locale other than English.

This is a dynamic reference and it cannot be non-English.

As a workaround, always create a configuration property with English locale.

(Bug 6315953)

## **7.9 Data Masking Issues**

The following sections are known data masking issues and limitations.

### **7.9.1 Data Masking Does Not Support Masking Data Into Multibyte Characters**

Data Masking performs masking operation based on a user-specified masking definition which includes masking columns and masking formats. If the masking format contained multibyte character strings, masked data appears garbled rather than in a specified multibyte character string format. This is a known limitation in data masking and will be addressed in a future release. In version

10.2.0.4.0 of Grid Control, use only an English string format to mask character data.

(Bug 6474636)

### **7.9.2 Data Masking Cannot Import Exported Format Library or Masking Definition Containing Multibyte Character Strings**

If a masking definition or format library contained multibyte character strings, after Export an attempt to Import an xml file into another Grid Control system results in garbled strings replacing multibyte character strings. This is a bug in Import and will be fixed in a future release.

(Bug 6474596)

## **7.10 Provisioning Issues**

The following sections are known provisioning issues.

### **7.10.1 PRE-REQ Fails On SuSE Machines That Do Not Have 'suse-release RPM'**

As part of the Operating System component creation procedure, Prerequisite Job (PRE-REQ) is run to check whether the reference machine has all the required RPMs. The PRE-REQ job can fail on SuSE systems because the job checks for 'suse-release' RPM on SuSE systems. However SLES machines may have the 'sles-release' RPM instead of the 'suse-release' RPM.

SuSE machines should have the 'suse-release' RPM installed for the PRE-REQ to run successfully.

(Bug 6487511)

## **7.11 BPEL Management Issues**

This section addresses the BPEL Management issues.

### **7.11.1 Apply Patch to Support BPEL 10.1.2 Targets**

As a part of EM 10g (10.2.0.4) release, BPEL 10.1.2 targets will be supported.

If you need to enable the support for BPEL 10.1.2 targets, then apply the patch ARU: 9360239 on the specific BPEL target.

(Bug 6338643)

## **7.12 Third-Party Application Server Monitoring Issues**

This section addresses third-party application server monitoring issues.

### **7.12.1 EM Unable to Discover Admin-Security Enabled WebSphere 6.1**

When Admin Security on WebSphere 6.1 Server is enabled, Grid Control is unable to discover and monitor the targets.

The SOAPConnectorClient, which is a part of the WebSphere jar files, uses the "contains" method of the String class. The "contains" method was introduced since jdk 1.5. But the current version of Java shipped along with Agent is jdk 1.4.

You can continue to add and monitor WebSphere 6.1 provided Admin Security is not enabled.

(Bug 6241737)

## 7.13 Configuration Standard Framework Issues

This section addresses configuration standard framework issues.

### 7.13.1 Repository Upgrade Fails for EM with Seed DB

Repository Upgrade configuration assistant fails when you upgrade a Grid Control environment that has a seed database. As a workaround, you need to apply ARU 8885534 (that contains ARU "4329444") on top of DB 10104 before you upgrade to Grid Control 10.2.0.3.

(Bug 5648438)

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Oracle Enterprise Manager Grid Control Release Notes, 10g Release 4 (10.2.0.4.0) for Solaris (SPARC)

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