

# **Common Ground Upgrade**

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# **Preupgrade Overview**

The preupgrade process ensures that your systems have the necessary software to support your contact center. These tasks prepare the way for a successful upgrade of your Cisco contact center components to the new release.



Note

Common Ground Upgrade is not supported if the platform upgrade from Windows Server 2016 and SQL Server 2017 to Windows Server 2019 and SQL Server 2019 is planned as part of upgrade process. Technology Refresh Upgrade is the supported upgrade option for platform upgrade.

#### **Upgrade Tools**

During the preupgrade process, use the following tools as required:

• User Migration Tool—A standalone Windows command-line application that is used for all upgrades that involve a change of domain. The tool exports all existing user accounts (config/setup and supervisors) from the source domain to a **.bin** file. The file is used in the target domain during the upgrade.

You can download the User Migration Tool from Cisco.com by clicking **ICM User Migration Tool Software**.

• Regutil Tool—Used in Technology Refresh upgrades, exports the Cisco Systems, Inc. registry from the source machine during the preupgrade process. The output of the tool is required on the destination machine when running the Unified CCE Installer during the upgrade process.

You can download the Regutil Tool from Cisco.com by clicking Contact Center Enterprise Tools.

• Domain Manager—Used to provision Active Directory.

The Domain Manager Tool is delivered with the main installer.

• Upgrade.exe—Used to upgrade the schema of the logger, AW DB, HDS DB, and BA databases to a version compatible with the current Unified CCE Software version. It is typically used when the installer fails to automatically upgrade the schema of the AW database. The other databases are typically upgraded using EDMT and not the installer.

Perform the following steps to use the tool:

```
<ICM install directory>:\icm\bin>upgrade.exe -s <Server Name> -d
<Database name> -dt <Database Type> -i <Instance Name>
```

Where

<Database Type> - can be either " **logger**" or "**hds**" or "**aw**" or "**ba**", depending on the database that requires the schema to be upgraded.

 Enhanced Database Migration Tool (EDMT)—A wizard application that is used for all upgrades to migrate the HDS, Logger, and BA databases during the upgrade process.

You can download the EDMT from Cisco.com by clicking Cisco Enhanced Data Migration Tool Software Releases.

The prerequisites for running EDMT are:

• EDMT also requires Microsoft<sup>®</sup> ODBC Driver 17 for SQL Server<sup>®</sup> and Visual C++ Redistributable for Visual Studio 2015 (or higher). The latest version of these packages can be downloaded from the Microsoft website. However, a copy of the same is also available in the **Prerequisites** folder of EDMT.

The EDMT displays status messages during the migration process, including warnings and errors. Warnings are displayed for informational purposes only and do not stop the migration. Errors stop the migration process and leave the database in a corrupt state. If an error occurs, restore the database from your backup, fix the error, and run the tool again.



Note

 If you are configuring SQL services to run as Virtual account (NT SERVICE) or Network Service account (NT AUTHORITY\NETWORK SERVICE), you must run EDMT as an administrator.

• The installer, not the EDMT, upgrades the AW database for the Administration & Data Server.

# **Common Ground Preupgrade Task Flow**

Perform the following Common Ground preupgrade tasks in any order.



Note

The Common Ground upgrade assumes the host server runs on Windows Server.

| Task  | See   |
|---|---|
| Review target<br>Release Notes  | Release Notes for Cisco Unified Contact Center Enterprise Solutions at<br>https://www.cisco.com/c/en/us/support/customer-collaboration/<br>unified-contact-center-enterprise/products-release-notes-list.html |
| ESXi<br>Supportability  | ESXi Supportability   |
| Virtual Machine<br>Snapshot for<br>Unified CCE<br>Component<br>Virtual Machines | Virtual Machine Snapshot for Unified CCE Component Virtual Machines, on page 4  |
| Download the<br>Enhanced<br>Database<br>Migration Tool                          | Upgrade Overview  |
| Notify all<br>stakeholders,<br>including:                                       |   |
| Cisco<br>Technical<br>Assistance<br>Center<br>(TAC)                             |   |
| • Local Cisco<br>Representatives  |   |
| Customer<br>Operations<br>and<br>Emergency<br>Management<br>Center              |   |
| • Third-party vendors as applicable   |   |

# **Common Ground Preupgrade Tasks**

# **Disable Configuration Changes**

#### Procedure

| Router: | HKEY_LOCAL_MACHINE\SOFTWARE\Cisco Systems, Inc.\ICM\ <instance name="">\Re<br/>er\CurrentVersion\Configuration\Global\DBMaintenance.</instance>             |
|---------|---|
| Note    | Live data services connect to the new Central controller machines only after you upgrade sides of Central controller, and enable the configuration changes. |
| Confirm | that configuration changes are disabled by attempting to save a configuration change.   |
| When w  | ou try to save the change, a message is displayed confirming the change failure   |

### **Virtual Machine Snapshot for Unified CCE Component Virtual Machines**

Uninstallation of Unified CCE 12.5(1) 12.5(1) installed on server machines using the ICM-CCE-Installer ISO is not supported.

Uninstallation of Unified CCE 12.5(1) installed on server machines using the ICM-CCE-Installer ISO is not supported.

To revert to the previous versions that existed before you did a Common Ground in-place upgrade of installations to Unified CCE 12.5(1), perform one of the following tasks:

- 1. Take a Virtual Machine Snapshot in the powered off state before the upgrade.
- 2. Clone the Virtual Machine before the upgrade.

Delete these snapshots or clones after the upgrades are successfully completed. Such deletions will prevent performance issues.

Uninstallation and re-installation of other packages like Administration Client and Internet Script Editor (ISE) will continue to be supported.

### **VM Hardware Version Upgrade**

Perform the following procedure to upgrade the hardware version of the virtual machine (VM).



Note The hardware compatibility of the VM must be set to ESXi 6.5 and later .

L

#### Before you begin

- Power off the VM.
- Upgrade to the ESXi version compatible with this release. For more information, see https://www.cisco.com/c/dam/en/us/td/docs/voice\_ip\_comm/uc\_system/virtualization/ virtualization-unified-contact-center-enterprise.html.

#### Procedure

| Ι      | aunch th                     | ne vSphere Web Client using the browser.   |
|--------|------------------------------|--|
| Ι      | log in to                    | the vCenter Server.  |
| F      | Right-clic                   | ck on the VM, and select the menu option <b>Compatibility</b> > <b>Upgrade VM Compatibility</b> .                    |
| M      | Note                         | The Upgrade VM Compatibility option appears only if the hardware version on the is not the latest version supported. |
| I<br>] | n the <b>Co</b><br>This sets | mpatible with field, select ESXi 6.5 and later.<br>the hardware version of the VM to 13.                             |
| (      | Click Ok                     |  |
| Power  | Power on                     | the VM.  |
| ſ      | lote                         | If the system prompts, upgrade the VMware tools. For more information, see Install Vmwar                             |

# Increase the Provisioned Disk Size for Unified Intelligence Center VMs (Standalone and Coresident)

| Step 1<br>Step 2 | Power off the virtual machine.   |
|------------------|--|
| Step 3           | Click the <b>Hardware</b> tab, and select the hard disk to modify.                         |
| Step 4           | In the <b>Disk Provisioning</b> pane, increase the provisioned size from 146 GB to 200 GB. |
| Step 5           | Click <b>OK</b> to save your changes and close the dialog box.                             |
| Step 6           | Start the virtual machine.   |

# **Common Ground Upgrade Task Flow**

For the Unified CCE core components, there is a general flow for redundant systems to ensure that Cisco Contact Center operation continues during the entire upgrade process. Sides A and B are brought down, upgraded, tested, and brought back up in a sequence that ensures continuous operation of the Cisco Contact Center.



**Note** For coresident configurations, upgrade CUIC/LiveData/IdS server along with the Unified CCE Central Controller upgrade.

For Common Ground upgrades, perform the following upgrade tasks:

| Task   | See  |  |  |
|--|--|--|--|
| Cloud Connection Compo   | nents                                      |  |  |
| Install Cloud Connect  | Install Cloud Connect                      |  |  |
| Identity Service/SSO   | 1  |  |  |
| Identity Service (IdS)/Single<br>Sign-On(SSO)  | SSO is an provider (I                      | optional feature and exchanges authentication and authorization details between an identity (dP) and an identity service (IdS).  |  |
|  | For more i                                 | nformation, see Upgrade Flowcharts   |  |
|  | https://ww<br>products-in                  | w.cisco.com/c/en/us/support/customer-collaboration/unified-intelligence-center/<br>nstallation-guides-list.html  |  |
| Upgrade Enterprise Chat<br>and Email (ECE)   | For ECE in<br>Configuration                | nstallation or upgrade instructions, see the <i>Enterprise Chat and Email Installation and</i><br><i>tion Guide for Unified Contact Center Enterprise</i> at https://www.cisco.com/c/en/us/support/<br>collaboration/cisco-enterprise-chat-email/products-installation-guides-list.html  |  |
| Upgrade Finesse For more information, see <i>Cia</i><br><i>and Upgrade Guide</i> at https://<br>products-installation-guides-I |  | nformation, see <i>Cisco Finesse Installation and Upgrade Guide Cisco Finesse Installation ude Guide</i> at https://www.cisco.com/c/en/us/support/customer-collaboration/finesse/<br>nstallation-guides-list.html.   |  |
|  | Note                                       | ES42 provides the ability to connect a maximum of two versions of Finesse to the same<br>peripheral gateway during the upgrade or migration process to facilitate the migration of<br>agents and supervisors to the new Finesse version. However, this mode of operation is<br>not supported for production use beyond the upgrade or migration phase. |  |
| Queuing and self-service c   | omponents                                  |  |  |
| Upgrade Cisco Unified<br>Customer Voice Portal. <sup>1</sup>   | Note                                       | Before you upgrade to Unified CVP 12.5, the ES84 patch has to be applied to Cisco VVB 11.6 in order to maintain compatibility between Unified CVP 12.5 and Cisco VVB 11.6.   |  |
|  | Installation<br>c/en/us/sup<br>products-in | n and Upgrade Guide for Cisco Unified Customer Voice Portal at https://www.cisco.com/<br>oport/customer-collaboration/unified-customer-voice-portal/<br>nstallation-guides-list.html   |  |
| Infrastructure and media   | resource co                                | mponents   |  |

| Task   | See   |
|--|---|
| Cisco Virtualized Voice  | Installation and Upgrade Guide for Cisco Virtualized Voice Browser at   |
| Browser  | https://www.cisco.com/c/en/us/support/customer-collaboration/virtualized-voice-browser/<br>products-installation-guides-list.html   |
| Upgrade voice and data gateways.   | Upgrade Voice and Data Gateways   |
| Reporting server   |   |
| Upgrade Cisco Unified  | Installation and Upgrade Guide for Cisco Unified Intelligence Center at   |
| Intelligence Center server.  | https://www.cisco.com/c/en/us/support/customer-collaboration/unified-intelligence-center/<br>products-installation-guides-list.html   |
| Unified CCE Central Cont   | roller and Administration & Data Server components  |
| Migrate Side A Logger<br>database, and upgrade the<br>Logger.  | Migrate Unified CCE Logger Database and Upgrade Logger, on page 9   |
| Upgrade Side A Call Router.  | Upgrade Unified CCE Call Router, on page 10   |
| Upgrade the Administration<br>& Data Server connected to<br>Side A.  | Migrate HDS Database and Upgrade Unified CCE Administration & Data Server, on page 10   |
| Bring Side A Logger and<br>Call Router into service,<br>bring down Side B Logger<br>and Call Router.                           | Bring Upgraded Side A into Service  |
| Migrate Side B Logger<br>database and upgrade the<br>Logger.   | Migrate Unified CCE Logger Database and Upgrade Logger, on page 9   |
| Upgrade Side B Call Router.  | Upgrade Unified CCE Call Router, on page 10   |
| Bring Side B Call Router<br>into service and verify<br>operation. Bring Side B<br>Logger into service and<br>verify operation. | Verify Operation of Upgraded Side B Call Router and Logger  |
| Upgrade the Administration & Data Server connected to Side B.  | Migrate HDS Database and Upgrade Unified CCE Administration & Data Server, on page 10   |
| Upgrade Cisco Unified<br>Intelligence Center reporting<br>templates.   | Import Reports section in <i>Cisco Unified Intelligence Center User Guide</i> at https://www.cisco.com/c/en/us/support/customer-collaboration/unified-intelligence-center/products-user-guide-list.html |

| Task   | See   |  |
|--|---|--|
| Upgrade Unified Contact<br>Center Management<br>Portal(Unified CCMP).  | Installation and Configuration Guide for Cisco Unified Contact Center Management Portal at<br>https://www.cisco.com/c/en/us/support/customer-collaboration/<br>unified-contact-center-management-portal/products-installation-guides-list.html            |  |
| Upgrade Administration<br>Client.  | Upgrade Unified CCE Administration Client   |  |
| Database Performance<br>Enhancement.   | Database Performance Enhancement  |  |
| Certificates for Unified CCE<br>Web Administration   | Certificates for Unified Contact Center Enterprise Web Administration   |  |
| Unified CCE Peripheral G   | ateways and associated components   |  |
| Upgrade PGs.   | Upgrade Peripheral Gateways, on page 12   |  |
| Upgrade Outbound Option<br>Dialer.   | Upgrade Outbound Option Dialer, on page 13  |  |
| Upgrade Customer<br>Collaboration Platform   | <i>Cisco Customer Collaboration Platform User Guide</i> at http://www.cisco.com/c/en/us/support/<br>customer-collaboration/socialminer/products-installation-guides-list.html.  |  |
| Upgrade CTI OS server.   | <i>Cisco Agent Desktop Installation Guide</i> at https://www.cisco.com/c/en/us/support/<br>customer-collaboration/computer-telephony-integration-option/products-installation-guides-list.html  |  |
| Desktop client components  | 3   |  |
| CTI OS Client desktop<br>applications.   | <i>Cisco Agent Desktop Installation Guide</i> at https://www.cisco.com/c/en/us/support/<br>customer-collaboration/agent-desktop/products-installation-guides-list.html  |  |
|  | <b>Note</b> The CTI Toolkit Desktop is only supported for System PG and other TDM PG deployments like Avaya PG.   |  |
| Call processing components   |   |  |
| Upgrade Cisco Unified<br>Communications Manager.   | Upgrade and Migration Guide for Cisco Unified Communications Manager and IM and Presence<br>Service at http://www.cisco.com/c/en/us/support/unified-communications/<br>unified-communications-manager-callmanager/ products-installation-guides-list.html |  |
| Upgrade (uninstall and<br>reinstall) the JTAPI client<br>on the Cisco Unified<br>Communications Manager<br>PG. | Upgrade Cisco JTAPI Client on PG  |  |

<sup>1</sup> If you are using IP IVR for self-service and queuing, see Getting Started with Cisco Unified IP IVR.



Note

The CTI Toolkit Desktop was deprecated in Unified CCE Release 11.0(1).

#### **Related Topics**

Multistage Upgrade Workflow for 4000 Agents and above Deployments

# **Common Ground Upgrade Tasks**

The following section provides instructions about upgrading the virtual environment and the Unified CCE components. For instructions about upgrading non-Unified CCE components in a Unified CCE solution, for example Finesse and CUIC, see the links to component-specific documents in the Common Ground Upgrade Task Flow, on page 6.

### Migrate Unified CCE Logger Database and Upgrade Logger

To upgrade the Logger, you do the following tasks:

- 1. Migrate the Logger database.
- 2. If you use Outbound Option High Availability, do the following:
  - Migrate the Outbound Option database.
  - For the enhancements in Outbound Option High Availability to work effectively, Outbound Option High Availability must be disabled before the logger upgrade and then enabled after the upgrade. For more information, see Disable Outbound Options High Availability (If Applicable).
- 3. Install the new software.

| Step 1  | Using Unified CCE Service Control, stop all Unified CCE services on the server and change to Manual Start   |   |  |  |
|---------|---|---|--|--|
| Step 2  | (Optiona<br>For detai   | l) If Outbound Option High Availability is deployed, disable Outbound Options High Availability.<br>Is, see Disable Outbound Options High Availability (If Applicable).   |  |  |
| Step 3  | Downloa<br>Logger s<br>C++ Rec  | d the EDMT tool from Cisco.com, and ensure pre-requisites for the same have been installed on the ystem, prior to launching EDMT. These include the ODBC Driver 17 for SQL Server, and Visual listributable for Visual Studio 2015. |  |  |
|         | For more  | e information about EDMT, see Preupgrade Overview, on page 1.   |  |  |
| Step 4  | Launch the EDMT and click <b>Next</b> .   |   |  |  |
| Step 5  | Select C  | ommon Ground, and click Next.   |  |  |
| Step 6  | On the warning message, click <b>Yes</b> if you have taken a backup of your database, and no services are currently running.                                    |   |  |  |
|         | Note  | If you have not taken the backup of your database, click No to exit the installer.  |  |  |
| Step 7  | In the Database Connection section, highlight the database that you want to upgrade, and then click Next.   |   |  |  |
| Step 8  | Click Start Migration. A warning message is displayed asking for confirmation of the data migration.  |   |  |  |
| Step 9  | Click <b>Yes</b> to confirm.  |   |  |  |
| Step 10 | Click <b>OK</b> to acknowledge the message. After completion of the data migration, a warning message is displaye asking you to select a valid deployment type. |   |  |  |

|         | Note   | This message notification is applicable only when EDMT finds the DeploymentType as <b>0</b> (Zero) in the Congestion_Control table during data migration.   |  |  |
|---------|--|---|--|--|
| Step 11 | Exit the EDMT.   |   |  |  |
|         | Note   | Set the TempDB AutoGrowth of Data files to 100 MB manually.   |  |  |
| Step 12 | (Optional) If Outbound Option High Availability is deployed, repeat steps 1 through 12 to migrate the BA database.   |   |  |  |
| Step 13 | To upgra   | de the Logger, launch the ICM-CCE-Installer, and click Next.  |  |  |
| Step 14 | (Optional) To apply the Unified ICM Minor/Maintenance Release, click <b>Browse</b> and navigate to the Minor/Maintenance Release software. Click <b>Next</b> . |   |  |  |
| Step 15 | (Optional) Select SQL Server Security Hardening and click Next.  |   |  |  |
| Step 16 | Click <b>OK</b> on any informational messages that display.  |   |  |  |
| Step 17 | Click Install.   |   |  |  |
| Step 18 | Reboot the server when the upgrade completes.  |   |  |  |
| Step 19 | (Optiona<br>Web Setu<br><i>Guide for</i><br>unified-c  | l) If you use Outbound Option High Availability, enable Outbound Option High Availability in the up tool. For details, see the <i>Configure the Logger for Outbound Option</i> topic in the <i>Outbound Option r Unified Contact Center Enterprise</i> at https://www.cisco.com/c/en/us/support/customer-collaboration/contact-center-enterprise/products-user-guide-list.html. |  |  |

### **Upgrade Unified CCE Call Router**

#### Procedure

| Step 1 | Launch the ICM-CCE-Installer and click Next.   |
|--------|--|
| Step 2 | (Optional) To apply the Unified ICM Minor/Maintenance Release, click <b>Browse</b> and navigate to the Minor/Maintenance Release software. Click <b>Next</b> . |
| Step 3 | Click <b>OK</b> on any informational messages that display.  |
| Step 4 | Click Install.   |
| Step 5 | Reboot the server when the upgrade completes.  |

## Migrate HDS Database and Upgrade Unified CCE Administration & Data Server

The deployment of the Administration & Database Server determines which tools to use for an upgrade:

- For an AW-only deployment, the EDMT is not required; the ICM-CCE-Installer completes the upgrade.
- For any deployment that involves an HDS database, use the EDMT to migrate the HDS database before running the installer.

#### Procedure

| Using Uni   | fied CCE Service Control, stop all Unified CCE services on the Server and change to Manual Start.   |  |  |
|---|---|--|--|
| For HDS-<br>same have<br>include th   | related deployments. Download the EDMT tool from Cisco.com, and ensure pre-requisites for the e been installed on the Administration & Database Server system, before launching EDMT. These e ODBC Driver 17 for SQL Server, and Visual C++ Redistributable for Visual Studio 2015. |  |  |
| For more  | information about EDMT, see Preupgrade Overview, on page 1.   |  |  |
| Launch the EDMT and click <b>Next</b> . Select <b>Common Ground</b> and click <b>Next</b> . Review or change the information that is displayed as required and click <b>Start Migration</b> . Click <b>Yes</b> on the warning message that displays. Exit the EDMT. |   |  |  |
| Note  | This message notification is applicable only when EDMT finds the DeploymentTypeas 0 (Zero) in the Congestion_Control table during data migration.   |  |  |
| Note  | Set the TempDB AutoGrowth of Data files to 100 MB manually.   |  |  |
| Launch th   | e ICM-CCE-Installer and click <b>Next</b> .   |  |  |
| (Optional) To apply the Unified ICM Minor/Maintenance Release, click <b>Browse</b> and navigate to the Minor/Maintenance Release software. Click <b>Next</b> .  |   |  |  |
| (Optional) Select SQL Server Security Hardening and click Next.   |   |  |  |
| Click <b>OK</b> on any informational messages that display.   |   |  |  |
| Click Install.  |   |  |  |
| Reboot th   | e server when the upgrade completes.  |  |  |
|   | Using Uni<br>For HDS-<br>same have<br>include th<br>For more<br>Launch the<br>that is disp<br>the EDMT<br>Note<br>Note<br>Launch th<br>(Optional)<br>Minor/Ma<br>(Optional)<br>Click OK<br>Click Inst   |  |  |

#### **Related Topics**

Upgrade to SQL Server 2014 Upgrade to Windows Server 2012 R2

# **Upgrade Unified CCE Administration Client**

| Stop 1 | I ounch the 12.5 Admin Client Installer and aliek Next  |  |  |
|--------|---|--|--|
| Steh I | Launch the 12.5 Adminichentinistaner and click Next.  |  |  |
| Step 2 | (Optional) To apply any Minor/Maintenance Releases, click <b>Browse</b> , and navigate to the Minor/Maintenance Release software. Click <b>Next</b> . |  |  |
| Step 3 | Click <b>OK</b> on any informational messages that display.   |  |  |
| Step 4 | Click Install.  |  |  |
| Step 5 | Reboot the server when the upgrade completes.   |  |  |
|        | For more information about configuring permissions in your local machine, see Configure Permissions in the Local Machine.                             |  |  |
|        |   |  |  |

**Related Topics** 

Install Unified CCE Administration Client

### **Enable Configuration Changes**

#### Procedure

- Step 1
   To enable configuration changes during the upgrade, set the following registry key to 0 on the Side A Call

   Router:
   HKEY\_LOCAL\_MACHINE\SOFTWARE\Cisco Systems, Inc.\ICM\<instance name>\Router

   A\Router\CurrentVersion\Configuration\Global\DBMaintenance.
- **Step 2** To confirm that configuration changes are enabled, save a configuration change.

Save your changes.

### **Upgrade Peripheral Gateways**

You can upgrade different Peripheral Gateways (PGs) within a contact center within different maintenance windows. However, upgrade all PGs that reside on the same virtual machine and their redundant PGs (Side A and then the corresponding Side B; or vice-versa) during the same maintenance window.

The following dependencies occur when upgrading the Unified Communications Manager PG:

- If your contact center uses Outbound Option, upgrade any Outbound Option Dialers that are associated with Unified Communications Manager PGs at the same time.
- When you upgrade the Unified Communications Manager application, upgrade the JTAPI client that is associated with the Unified Communications Manager PG at the same time.

When the CTI server that is associated with the PG gets upgraded, the CTI server connection mode is set to the Mixed mode by default. The Mixed mode enables both Secured and Non-Secured mode of connection. For the Secured mode of connection, a new port is selected based on the port selection logic. For more information on Port Utilization, see the *Port Utilization Guide for Cisco Unified Contact Center Solutions*. If the port that is selected by default conflicts with the existing ports, then you need to either release the default port or change the Secured mode port to an available port after the upgrade.

- Step 2 (Optional) To apply the Unified ICM Minor/Maintenance Release, click Browse and navigate to the Minor/Maintenance Release software. Click Next.
- **Step 3** Click **OK** on any informational messages that display.
- Step 4 Click Install.
- **Step 5** Reboot the server when the upgrade completes.

# **Upgrade Outbound Option Dialer**

During the upgrade, information about which contacts were called and which you need call is lost for in-process outbound campaigns. Plan the timing of the upgrade accordingly.

| Launch the ICM-CCE-Installer and click Next.   |
|--|
| (Optional) To apply the Unified ICM Minor/Maintenance Release, click <b>Browse</b> and navigate to the Minor/Maintenance Release software. Click <b>Next</b> . |
| Click <b>OK</b> on any informational messages that display.  |
| Click Install.   |
| Reboot the server when the upgrade completes.  |
| Use Unified CCE Service Control to set all Unified CCE services to Automatic Start.  |
|  |

I