

# **Oracle® Configuration Controls Governor**

Installation Guide

Release 5.5

Part No. E25668-01

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## Oracle Configuration Controls Governor Installation Guide

Part No. E25668-01

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## Contents

<b>1</b>	<b>Introduction</b>	
<b>2</b>	<b>Before You Install</b>	
	Installing Computer.....	2-1
	CCG Home Instance .....	2-2
	ERP Instance.....	2-3
	CCG UI Server .....	2-4
	User Workstations .....	2-5
<b>3</b>	<b>Prepare the CCG UI Server</b>	
<b>4</b>	<b>CCG Installer Worksheet</b>	
<b>5</b>	<b>Install CCG</b>	
<b>6</b>	<b>Configure the CCG UI Server</b>	
<b>7</b>	<b>Install MetaBuilder</b>	



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## Introduction

Oracle Configuration Controls Governor (CCG) monitors setup data in business-management applications. It can take “snapshots” that document application setups; compare snapshots with one another, to show how application setups differ; and employ change tracking to monitor changes in setups.

This document tells how to install version 5.5 of Configuration Controls Governor. In broad terms, you complete these steps:

- Ensure that several systems run required software. These include:
  - An installing computer, which serves as a staging environment from which the CCG installation program is run.
  - A CCG Home instance, which hosts the database used by CCG.
  - ERP instances, which host business-management applications monitored by CCG.
  - A CCG UI Server, on which CCG is installed and from which it is run.
  - User workstations, from which users access the CCG UI Server.
- Download files to the installing computer.
- Prepare the CCG UI Server for installation.
- Complete a CCG Installer Worksheet, in which you compile information you will need to provide as you install CCG.
- Run the CCG Installer from the installing computer, to place CCG software on the CCG UI Server.
- Configure the CCG UI Server to run with the Tomcat application server.
- Configure CCG. (See the *Configuration Controls Governor Administration Guide*.)

You can also upgrade to CCG version 5.5 from any of versions 4.6 to 5.1.3 of Integra Apps. (Note that Integra Apps is an earlier name for what is now known as Configuration Controls Governor.) To do so, however, you must meet several conditions:

- The earlier instance must include only Integra Apps. If Integra Access, Integra Transaction, or any Informia product is installed on your Integra Platform, an upgrade to version 5.5 is not supported.

- The CCG UI Server for the 5.5 instance must use the RedHat Enterprise Linux operating system. Windows and Solaris are not supported.
- The CCG UI Server for version 5.5 must run Tomcat Application Server 5.5.
- If you continue running CCG (Apps) 5.1, do not use it to snapshot or change-track the same instances as CCG 5.5.
- The CCG Home for the 5.5 instance must run version 1.5 of Java Development Kit (JDK)/Java Runtime Environment (JRE).
- The CCG Home schema must be stored in an Oracle 10g database. Integra Apps supported earlier database versions, but these are not supported for CCG 5.5. If you use an earlier database version for the version of Integra Apps from which you are upgrading, you must export it from there and import it to a 10g database for use with CCG 5.5. (See the procedure beginning “If you are upgrading from Integra Apps,” on page 5-1.)

Although CCG is an application within the Oracle Governance, Risk, and Compliance Controls Suite, it is installed independently of other GRC Controls Suite components. For information on installing other GRC Controls Suite applications, see the Installation Guides for Application Access Controls Governor, Preventive Controls Governor, and Transaction Controls Governor, for the versions you intend to install.

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## Before You Install

To install and use CCG 5.5, ensure that your systems satisfy the following requirements. All are mandatory, unless otherwise stated. Do not attempt installation until all requirements have been met. Failure to meet these requirements will lead to errors and delays.

### Installing Computer

The installing computer (the one on which the CCG Installer is run) must meet the following requirements:

- One of the following operating systems:

- Microsoft Windows
- UNIX/Linux with X Client

- SQL\*Plus and IMP (Oracle Import utility):

Both must be part of the same Oracle client, and stored in the same directory. Because the CCG Home instance requires an Oracle 10g database, the Oracle client on the installing computer must also be Oracle 10g.

Both must have SQL\*Net connectivity to the CCG Home instance (which requires an entry in the Oracle client's network/admin/tnsnames.ora file for the CCG Home instance).

UNIX/Linux users must have Read and Execute permissions for both.

- Java Development Kit (JDK) 5.0 Update 17, downloadable from:

[http://java.sun.com/javase/downloads/index\\_jdk5.jsp](http://java.sun.com/javase/downloads/index_jdk5.jsp)

- If your CCG Home instance is to reside on the same instance as the CCG UI Server and use RedHat Enterprise Linux 5 (required for the UI Server), scp capability to transfer files from the installing computer to the CCG Home is optional, but recommended. (If the CCG Home and CCG UI Server reside on separate instances, you'll need to select a manual-copy option rather than use scp.)

If you can use scp, we recommend that you test the scp capability by using an scp client to transfer a file (of your choice) from the installing computer to the

server that hosts the CCG Home instance. Any errors generated by the scp client must be resolved before using the CCG Installer. Work with your system administrator to find resolutions before continuing.

## CCG Home Instance

The CCG Home instance can be a new or existing database instance. It can contain non-CCG schemas, but we recommend choosing an instance that does not contain ERP schemas.

### Platform

Any platform that supports the required database (Oracle 10g), including Oracle Real Application Clusters (RAC).

### Software

- Database. Oracle 10g database Enterprise Edition Release 1 or 2, with Partitioning option enabled.
- SQL\*Plus
- Oracle IMP database utility
- SQL\*Net connectivity to each instance managed or used by CCG
- Verify that the following script has been run as SYS to initiate the java virtual machine (Oracle supplies this script):

```
$ORACLE_HOME/javavm/install/initjvm.sql
```

### Database

Once you choose the CCG Home instance, complete the following requirements.

- Character set: Verify that your CCG Home instance uses either the American\_America.WE8ISO8859P1 character set, or a character set that is a superset of it (e.g., UTF8). The CCG Installer will use Oracle's import utility to import a .dmp file that was created using this character set. The character set must also be compatible with the set used by the instance's operating system.
- Disk space: Verify that you have adequate disk space for the following CCG tablespaces:
  - AM\_DATA: 2,000 MB
  - AM\_INDEX: 2,000 MB
  - AM\_STAGE: 100 MB
  - APS\_DATA: 2,000 MB
  - APS\_INDEX: 1.400 MB

The CCG Installer creates these tablespaces, and creates one datafile for each tablespace. If you require more than one datafile per tablespace, create the tablespaces and datafiles before running the installer. We recommend using the names shown above; in any event, note the names you use because the Installer will ask you for them.



- Free space: Verify that you have adequate free space in the tablespaces used by the following standard database tables:
  - RBS/REDO/UNDO (rollback): 2,000 MB
  - TEMP (temporary): 2,000 MB
  - SYSTEM: 2,000 MB

We recommend enabling auto-extend on the tablespaces in which these tables reside, because the amount of space required by CCG can fluctuate significantly.
- Database parameter file: Set the following values in INIT.ora:
  - db\_block\_size: 8192
  - global\_names: FALSE
  - job\_queue\_processes: 10
  - open\_cursors: 500 or greater
  - open\_links: 10. If you change this value, you must restart the instance.
  - remote\_dependencies\_mode: SIGNATURE
  - undo\_retention: 10800
  - utl\_file\_dir: Any directory writable by Oracle
- SYS and SYSTEM passwords

## ERP Instance

Each ERP instance that will be configured for use with CCG must meet these requirements:

### Platform

Any platform that supports the required database (specified below), including Oracle Real Application Clusters (RAC).

### Software

- One of the following business application systems:
  - Oracle E-Business Suite version 11.5.10 or 12.0
  - PeopleSoft Enterprise version 8.8
- Database. One of the following:
  - Oracle 8i database Enterprise Edition version 8.1.7.4 or higher (Partitioning option not required)
  - Oracle 9i database Enterprise Edition versions 9.2.0.3, 9.2.0.5, 9.2.0.6 or 9.2.0.7 (Partitioning option not required)

9.2.0.4 users: If your ERP instance uses version 9.2.0.4, so must your CCG Home instance, due to a limitation in the Oracle database software.

- Oracle 10g database Enterprise Edition Releases 1 or 2 (Partitioning option not required)
- SQL\*Plus
- Verify that the following script has been run as SYS to initiate the java virtual machine (Oracle supplies this script):  
\$ORACLE\_HOME/javavm/install/initjvm.sql
- Verify that the following script has been run as SYS to load the TCPConnection java class:
  - Oracle 8i: \$ORACLE\_HOME/rdbms/admin/initpls.j.sql
  - Oracle 9i: \$ORACLE\_HOME/rdbms/admin/utlsmt.p.sql
  - Oracle 10g: Not needed; skip this step.
- PeopleSoft Enterprise users: In the PeopleSoft Enterprise application server psappsrv.cfg file, set the parameter EnableDBMonitoring to 1.

#### Database

- Disk space: Verify that you have adequate disk space for these tablespaces, which are created when you configure CCG:

Tablespace Name	Minimum Size
AM_AGENT_D	1,000 MB
AM_AGENT_X	1,000 MB
APS_AGENT_D	500 MB
APS_AGENT_X	500 MB

- Database parameter file (INIT.ora): Set the following values in INIT.ora:
  - remote\_dependencies\_mode: SIGNATURE
  - utl\_file\_dir: Any directory writeable by Oracle
  - job\_queue\_processes: 10
  - job\_queue\_interval: For Oracle 8i, 15 (for Oracle9i/10g, ignore this parameter)
- SYSTEM password for each ERP instance
- ERP user password for each ERP instance

## CCG UI Server

The server for the CCG UI must meet the following requirements:

- RedHat Enterprise Linux 5 operating system.
- Tomcat 5.5 web application server. It may reside on any computer, and may be used to serve web applications other than CCG. You can use an existing server or create a new one.
- The server must run on a unique port.
- Java Development Kit (JDK) 5.0 Update 17.

## User Workstations

User workstations must meet the following requirements:

- Computer with network connection
- Internet Explorer 7 or Firefox 3 with Javascript (aka, “scripting”) enabled and popup windows allowed.



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## Prepare the CCG UI Server

The CCG UI is served by a J2EE web application server. The server may reside on any computer, and may be used to serve web applications other than CCG. You can use an existing server or create a new one.

Complete the following steps.

1. Prepare the server. If you will use an existing server, confirm that it satisfies all requirements listed under “CCG UI Server” in the “Before You Install” chapter (page 2-4).

If you will not use an existing server:

- Create one now, using the server manufacturer’s instructions.
  - The server must satisfy all requirements listed under “CCG UI” in the “Before You Install” chapter (page 2-4).
  - Verify that the server is configured to run on a unique port.
2. Verify that the server is operating correctly.



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## CCG Installer Worksheet

You will use a CCG Installer to install Configuration Controls Governor. The installer will prompt you to provide information about the environments that CCG will use. The following worksheet enables you to gather this information for a more efficient installation. Record the information in the space provided.

While using the CCG Installer, use the values you record here. If you use different values, be sure to change the values recorded here. You will need this information for post-installation steps.

*To upgrade from an Integra Apps environment that already exists, check the box below and select the existing version. To create a fresh installation of CCG 5.5, select 5.5 as the version.*

Installer Prompt	Record the value you will use:
<b>Upgrade existing data and settings</b>	
Select the check box to upgrade from an earlier version. Clear the check box to perform a fresh installation.	
<b>Version</b>	
If you are performing a fresh installation, select 5.5. If you are upgrading existing data and settings, select the version from which you will upgrade.	

*The CCG Home Schema stores all data about your CCG users, security and deployments. It must be installed in an existing database. Specify that database:*

Installer Prompt	Record the value you will use:
<b>Hostname</b>	
Hostname of database that will contain the CCG Home Schema	
<b>SID (service name)</b>	
SID (aka 'service name') of database that will contain the CCG Home Schema	

Installer Prompt	Record the value you will use:
<b>TNS entry</b>	
TNS entry on the installing computer (found in the copy of tnsnames.ora described under "Installing Computer" in the "Before You Install" chapter on page 2-1); usually but not always same as SID	
<b>Port</b>	
Port number for accessing the database that will contain the CCG Home Schema	
<b>SYSTEM password</b>	
Password of database's SYSTEM user	
<b>SYS password</b>	
Password of database's SYS user	
<b>Database version</b>	
Version of database that will contain the CCG Home Schema	
<b>Operating system</b>	
Operating system of database server that will contain the CCG Home Schema (the CCG Home computer, not the Installing computer)	

*Enter the following information about your mail server:*

Installer Prompt	Record the value you will use:
<b>SMTP server domain</b>	
Domain name of the server your company uses for sending and receiving email.	
<b>Mail port</b>	
Port number used by the SMTP server to communicate with other applications.	
<b>Admin email</b>	
Email address for the admin user on the SMTP server.	

*Enter the following information about the CCG Home Schema:*

Installer Prompt	Record the value you will use:
<b>Home Schema name</b>	amhome
Name of CCG Home Schema; the name <i>amhome</i> is strongly recommended	
<b>Home Schema password</b>	
Password of CCG Home Schema	
<b>Home Schema already exists</b>	
Select this checkbox if CCG Home Schema is already installed in the database specified above	



*If the CCG Home Schema does not yet exist, enter the following information about your company or organization:*

Installer Prompt	Record the value you will use:
<b>Company name</b> Company or Organization name	
<b>Temporary tablespace</b> Name of temporary tablespace used by CCG Home Schema	
<b>Create CCG Home Schema tablespaces (if they were not created already)</b> Uncheck if tablespaces required by CCG Home Schema have been created	

*If “Create CCG Home Schema tablespaces” was checked above: The installer will create three tablespaces for the CCG Home schema, and one datafile for each. Specify their details here:*

Installer Prompt	Record the value you will use:
<b>Data Tablespace name</b> Name of Data Tablespace (you must use the default value)	AM_DATA
<b>Data Tablespace size (MB)</b> Size of Data Tablespace in megabytes	
<b>Data File path and name</b> Full path and name of Data Tablespace datafile	
<b>Index Tablespace name</b> Name of Index Tablespace (you must use the default value)	AM_INDEX
<b>Index Tablespace size (MB)</b> Size of Index Tablespace in megabytes	
<b>Index File path and name</b> Full path and name of Index Tablespace datafile	
<b>Staging Tablespace name</b> Name of Staging Tablespace (you must use the default value)	AM_STAGE
<b>Staging Tablespace size (MB)</b> Size of Staging Tablespace in megabytes	
<b>Staging File path and name</b> Full path and name of Staging Tablespace datafile	

If “Create CCG Home Schema tablespaces” was not checked above: The CCG Home Schema requires the following tablespaces.

Installer Prompt	Record the value you will use:
<b>Data Tablespace name</b> Name of the Data Tablespace (you must use the default value)	AM_DATA
<b>Index Tablespace name</b> Name of the Index Tablespace (you must use the default value)	AM_INDEX
<b>Staging Tablespace name</b> Name of the Staging Tablespace (you must use the default value)	AM_STAGE

Enter the following information about the database that houses the CCG Home Schema:

Installer Prompt	Record the value you will use:
<b>ORACLE_HOME directory</b> Full pathname of database’s ORACLE_HOME directory (not the Oracle Client’s directory)	
<b>UTL_FILE_DIR directory</b> Full pathname of database’s UTL_FILE_DIR directory (must match the value in the database)	

If the CCG Home database’s operating system (specified above) is UNIX: The installer copies files to your database’s UTL\_FILE\_DIR directory. Enter the following information or check the “Copy files manually” checkbox:

Installer Prompt	Record the value you will use:
<b>Login user</b> Operating-system username of the database server. If the operating system is RedHat Enterprise Linux 5, you may enter a value here to have the installer copy files; if the operating system is UNIX, you may not.	
<b>Login password</b> Operating-system password of the database server. If the operating system is RedHat Enterprise Linux 5, you may enter a value here to have the installer copy files; if the operating system is UNIX, you may not.	
<b>Copy files manually</b> If the operating system is RedHat Enterprise Linux 5, either: <ul style="list-style-type: none"> <li>• Select this check box to copy files manually. In this case, do not enter Login user or Login password values.</li> <li>• Clear this check box to have the installer copy files. In this case enter Login user and Login password values.</li> </ul> If the operating system is UNIX, you must copy files manually. Select this check box.	

*If the CCG Home database operating system (specified above) is Windows: The installer copies files to your database's UTL\_FILE\_DIR directory. Enter the following information or check the "Copy files manually" checkbox:*

Installer Prompt	Record the value you will use:
<b>UTL_FILE_DIR directory</b> Mapped network drive and path of the database's UTL_FILE_DIR directory	[Do not enter a value]
<b>Copy files manually</b> If the CCG Home instance uses Windows, you must select the "Copy files manually" checkbox. Ignore the UTL_FILE_DIR directory prompt.	x

*CCG uses a web server. The server does not need to be dedicated to CCG. Enter the following information:*

Installer Prompt	Record the value you will use:
<b>Install directory</b> Directory on the CCG Home computer (not the Installing computer) where CCG web assets will be installed. Specify the Tomcat webapps directory.	
<b>Web app name</b> Name of the CCG web application (you must use the default value)	ccg
<b>Datasource name</b> JNDI entry for the connection to the CCG Home Schema (we recommend accepting the default value; the portion that follows the slash must match the value you set for Home schema name on page 4-2)	jdbc/amhome

*Enter the following information about this computer:*

Installer Prompt	Record the value you will use:
<b>Oracle bin directory</b> Directory where Oracle executables (e.g., imp, sqlplus) are installed on this computer (not the CCG UI Server or C CG Home computer)	
<b>OS bin directory</b> Directory where common OS executables are stored (for example, cmd for Windows or chmod for UNIX)	

*The CCG application requires several tablespaces separate from those already specified for the CCG Home Schema.*

Installer Prompt	Record the value you will use:
<b>Create CCG application tablespaces</b> Clear the check box if the tablespaces for the CCG Home Schema exist already.	

*If “Create CCG application tablespaces” is checked above: This installer will create two tablespaces for the CCG application, and one datafile for each.*

Installer Prompt	Record the value you will use:
<b>Data Tablespace name</b> Name of Data Tablespace (you must use the default value)	APS_DATA
<b>Data Tablespace size (MB)</b> Size of Data Tablespace in megabytes	
<b>Data File pathname</b> Full path and name of Data Tablespace’s datafile	
<b>Index Tablespace name</b> Name of Index Tablespace (you must use the default value)	APS_INDEX
<b>Index Tablespace size (MB)</b> Size of Index Tablespace in megabytes	
<b>Index File pathname</b> Full path and name of the Index Tablespace datafile	

*If “Create CCG Application tablespaces” was not checked above: CCG requires the following tablespaces:*

Installer Prompt	Record the value you will use:
<b>Data Tablespace name</b> Name of the Data Tablespace (you must use the default value)	APS_DATA
<b>Index Tablespace name</b> Name of the Index Tablespace (you must use the default value)	APS_INDEX

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## Install CCG

Once you have filled in the CCG Installer Worksheet, confirm that you are prepared to run the Installer. To do so, ensure that you have met all the requirements cited in Chapter 2.

Next, if the installing computer runs on the UNIX or Linux operating system, confirm that the `dos2unix` command is available. Issue the command “`dos2unix -h`” and verify that help for the command appears. If not, either install the `dos2unix` command or complete the following preparatory steps on a Windows computer, zip the `ccg/stage` directory, and FTP the zip file (use binary mode) to the UNIX/Linux installing computer.

To prepare for installation:

1. Obtain CCG 5.5 (`ccg_55.zip`) from Oracle.
2. Create the directory `ccg` at the root level on the installing computer, if it does not exist already. The full path to this directory must not contain any spaces.
3. Place `ccg_55.zip` in the `ccg` directory.
4. Create a subdirectory of the `ccg` directory (hereafter called `ccg/stage`) and unzip `ccg_55.zip` into it.

If you are upgrading from Integra Apps, and if its Home instance uses an Oracle database whose version is earlier than 10g, complete the following procedure. Otherwise (if you are performing a fresh installation of CCG 5.5 or if you are upgrading from an installation whose Home instance uses an Oracle 10g database), skip to the procedure that begins “To perform a fresh installation” (below).

1. Use the Oracle Export Utility to export two schemas from the existing database. One is the home schema, typically named `AMHOME`; the other is a schema derived from it, for which the name is the home schema name with `_PUBLIC` appended to it (for example, `AMHOME_PUBLIC`). In this procedure, these names are assumed to be correct for your home schema and its public derivative; if you created a home schema name other than `AMHOME`, substitute it as appropriate.

The following are sample commands for an Oracle 9i database:

```
exp system/"password" file=amhome.dmp log=amhome.log
owner=amhome statistics=none
exp system/"password" file=amhome_public.dmp
log=amhome_public.log owner=amhome statistics=none
```

2. In the target 10g database, create schemas and tablespaces to be used by CCG 5.5. The default names for the schemas are AMHOME and AMHOME\_PUBLIC, and the default names for the tablespaces are AM\_DATA, AM\_INDEX, AM\_STAGE, APS\_DATA, and APS\_INDEX. To create these objects:

- In the ccg/stage directory, locate the file create\_10G\_AMHOME.sql. In it, edit the following lines to set the locations in which you want DBF files associated with the tablespaces to be created.

```
/oracle/product/10.2.0/oradata/orcl/am_data.dbf - AM_DATA
/oracle/product/10.2.0/oradata/orcl/am_index.dbf - AM_INDEX
/oracle/product/10.2.0/oradata/orcl/am_stage.dbf - AM_STAGE
/oracle/product/10.2.0/oradata/orcl/aps_data.dbf - APS_DATA
/oracle/product/10.2.0/oradata/orcl/aps_index.dbf - APS_INDEX
```

Moreover if, in the database from which you are upgrading, you used schema or tablespace names other than the defaults, edit create\_10G\_AMHOME.sql further to replace the default names, wherever they appear, with your names. If, however, you used the default names in the database from which you are upgrading, you need make no further edits.

- Run ccg/stage/create\_10G\_AMHOME.sql as system/"password".

3. Use the Oracle Import Utility to import the AMHOME and AMHOME\_PUBLIC schemas into the target 10g database. The following are sample commands for the 10g database:

```
imp system/"password" file=amhome.dmp log=amhome.log
fromuser=amhome touser=amhome
imp system/"password" file=amhome_public.dmp log=amhome_public.log
fromuser=amhome_public touser=amhome_public
```

To perform a fresh installation of CCG 5.5, or to complete an upgrade, execute the following steps:

1. Close all command shell windows.
2. Open a new command shell window. (In Windows, click Start, select Run, enter *cmd* in the Open field, and click OK.)
3. Set the following environment variables temporarily on the installing computer:

- ORACLE\_HOME

Full path to the Oracle client described under "Installing Computer" (page 2-1). For example:

```
set ORACLE_HOME=c:\oracle\oradbs8i
```

- CATALINA\_HOME

UNIX/Linux users should issue the following command, replacing *path* with the full path to the web application executable on the CCG UI server. (For Windows users, no command is required.)

```
set CATALINA_HOME=path; export CATALINA_HOME
```

For example:

```
set CATALINA_HOME=/bin/apache/apache-tomcat-5.5.23;
export CATALINA_HOME
```

- **JAVA\_HOME**

Windows users: Full path to the directory in which JDK 5.0 Update 17 is installed (see “Installing Computer,” page 2-1). For example:

```
set JAVA_HOME=c:\Program Files\Java\jdk1.5.0_17
```

UNIX/Linux users: Issue the following command, replacing *path* with the full path to JDK 5.0 Update 17:

```
set JAVA_HOME=path; export JAVA_HOME;
```

For example:

```
set JAVA_HOME=/usr/opt/jdk1.5.0; export JAVA_HOME;
```

- **PATH**

Windows users, issue the following command:

```
set PATH="%JAVA_HOME%\bin";"%ORACLE_HOME%\bin";%PATH%
```

UNIX/Linux users, issue the following command:

```
set PATH=$CATALINA_HOME/bin:$JAVA_HOME/bin:$PATH;
export PATH
```

- **CLASSPATH**

Windows users, issue the following command:

```
set CLASSPATH=%JAVA_HOME%\lib;%ORACLE_HOME%\lib;%CLASSPATH%
```

UNIX/Linux users, issue the following command:

```
set CLASSPATH=%JAVA_HOME%/lib;%CLASSPATH%
```

- **NLS\_LANG**

If the CCG Home instance uses a character set other than American\_America.WE8ISO8859P1, this variable must *not* be set.

UNIX/Linux users should issue this command:

```
unset NLS_LANG
```

Windows users should issue this command:

```
set NLS_LANG=
```

4. Verify the installing computer’s connection to the CCG Home instance by entering this command:

```
tnsping TNS-entry
```

In this command, *TNS-entry* is the value you specified in the CCG Installer Worksheet, in the section beginning “The CCG Home Schema stores all data about your CCG users, security and deployments,” on page 4-1.

If the command returns any error messages, you must resolve them before continuing; work with your system administrator to find resolutions.

5. Using SQLPLUS as SYSTEM, confirm that you can connect to the database.

6. Confirm that Oracle IMP is available: Issue "imp -help" and verify that the IMP help information appears.

7. If you use Integra Apps 4.x, remove it from each ERP instance. Use the Deployment Workbench — choose the Administrator Role and navigate to Instance Configuration: Deployment Workbench.

If you use Integra Apps 5.1, remove both Integra Apps and the Integra Agent from each ERP instance. As an Administrator, navigate to Administrator > ERP Instances. Edit each instance: Click “Edit” to the right of Integra Apps and click the Remove button; then click “Edit” to the right of Integra Agent and click the Remove button. For each instance, be sure to remove Integra Apps before removing Integra Agent.

8. If you have used the Integra Installer or the CCG Installer on the Installing Computer, delete the file *.installer*. (Do this each time you prepare to run the Installer).
  - On a Windows Installing computer, *.installer* is located in C:\Documents and Settings\username.
  - On a UNIX/Linux Installing computer, *.installer* is located in the User's home directory.
9. Go to the ccg/stage directory.
10. Launch the CCG Installer by issuing the command appropriate for the installing computer's operating system.
  - For Linux or UNIX:

```
install.sh options -f ccg-55-install.apf
```
  - For Windows:

```
install.bat options -f ccg-55-install.apf
```

In this command, *options* are the following

- *-a* runs the installer in analyze mode, which checks the destination environment without installing.
- *-c* logs to the console as well as a log file.
- *-dlevel* sets the debug level; *level* represents a number between 0 and 5. There is no space between *d* and *level*; e.g., *d1*
- *-f path* is shown in the examples above, and specifies the path to the package to be installed.
- *-h* displays a list of all flags.
- *-l* lists the components in the package specified with the *-f* option.
- *-x* has been deprecated. Do not use this option.

For example: `install.sh -f ccg-55-install.apf`

11. Follow the Installer's step-by-step instructions; refer to your CCG Installer Worksheet (Chapter 4) to respond to its prompts. Depending on the computers and networks involved, installation can take several hours. At times, the CCG Installer may appear to be idle while lengthy behind-the-scenes operations take place. This is no cause for concern.



12. While using the CCG Installer, you are presented with a checkbox labeled *Copy files manually* on the page beginning “The installer copies files to your database’s UTL\_FILE\_DIR directory.” Refer to the CCG Installer Worksheet to find the value you choose to enter.

If you checked *Copy files manually*, copy the files now:

- a. Connect to the Install directory (see above).
  - b. Copy the contents of the utl\_file\_dir directory to the CCG Home instance’s UTL\_FILE\_DIR.
13. Proceed to the next chapter, “Configure the CCG UI Server.”



---

## Configure the CCG UI Server

Configure the CCG UI server to run with the Tomcat web application server:

1. Stop and restart the Tomcat web application server.

This explodes a `ccg.war` file, which the CCG Installer copied to the Tomcat `webapps` directory. (It did so because you specified the `webapps` directory as your Install directory as you ran the CCG Installer; see the “Install Directory” entry in the CCG Installer Worksheet on page 4-5). When `ccg.war` is exploded, a `ccg` subdirectory of the `webapps` directory is created, and CCG files are placed in it. After the `ccg.war` file is exploded, delete it..

2. Copy the file `classes12.jar` (which can be found on the installing computer) to the directory `$CATALINA_HOME/common/lib`.
3. Copy the file `TomcatHome/webapps/ccg/config/applimation.xml` as `$CATALINA_HOME/conf/catalina/localhost/ccg.xml`. (Substitute the full path to the Tomcat home directory for the value *TomcatHome*.)
4. Edit the `ccg.xml` file. Replace these defaults with values specific to your instance.

File Defaults	Replacement Values
@webserver.contextname@	ccg
@webserver.deploy.path@	Full path to the <i>TomcatHome/webapps/ccg</i> directory
@database.amhome.jndiname@	JNDI Name you specified in the CCG Installer (see page 4-5).
@database.amhome.password@	Password of the CCG Home schema
@database.amhome.username@	Username of the CCG Home schema
@database.amhome.url@	<code>jdbc:oracle:thin:@hostname:port:SID</code> In this line, replace: <ul style="list-style-type: none"><li>• <i>hostname</i> with the domain name of the CCG Home instance host (e.g., <code>localhost</code> or <code>amhome.mydomain.com</code>)</li><li>• <i>port</i> with the CCG Home instance port</li><li>• <i>SID</i> with the CCG Home Instance SID</li></ul> These values should be recorded in the CCG Installer Worksheet on page 4-1.

Also, ensure that the `driverClassName` entry is set to `oracle.jdbc.driver.OracleDriver`.

5. Edit the file *TomcatHome/webapps/ccg/config/amhome.conf*. Replace the following defaults with values specific to your instance.

File Defaults	Replacement Values
@webserver.type@	Tomcat
@database.amhome.jndiname@	JNDI Name you specified in the CCG Installer (see page 4-5).

6. Edit the file *TomcatHome/webapps/ccg/config/quartz.properties*. Replace the following defaults with values specific to your instance.

File Defaults	Replacement Values
@database.amhome.url@	jdbc:oracle:thin:@ <i>hostname</i> : <i>port</i> : <i>SID</i> In this line, replace: <ul style="list-style-type: none"> <li><i>hostname</i> with the domain name of the CCG Home instance host (e.g., localhost or amhome.mydomain.com)</li> <li><i>port</i> with the CCG Home instance port</li> <li><i>SID</i> with the CCG Home Instance SID</li> </ul> These values should be recorded in the CCG Installer Worksheet on page 4-1.
@database.amhome.username@	Username of the CCG Home schema
@database.amhome.password@	Password of the CCG Home schema

7. UNIX/Linux users: Add the following two lines just below the initial comments in the file *startup.sh* (enter the entire CATALINA\_OPTS= statement on a single line):

```
CATALINA_OPTS="-Djava.awt.headless=true
-Djava.security.auth.login.config=web-application-path/
WEB-INF/jaas.config -XmsInitial -XmxMaximum"
export CATALINA_OPTS
```

In these commands:

- *web-application-path* is the full pathname of the *TomcatHome/webapps/ccg* directory.
- *Initial* and *Maximum* set the initial memory pool and maximum memory pool. The initial memory pool must be set to 256 MB or greater (example: -Xms256M), and the maximum memory pool must be set to 768 MB or greater (example: -Xmx768M).

8. Windows users:

- a. In Windows, select Start > Configure Tomcat
- b. Select the Java tab.
- c. Add the following lines under Java Options:

```
-Djava.awt.headless=true
-Djava.security.auth.login.config=web-application-
path\WEB-INF\jaas.config
```

In these commands, replace *web-application-path* with the full pathname of the *TomcatHome/webapps/ccg* directory.

- d. Verify that the initial memory pool is set to 256 MB or greater, and that maximum memory pool is set to 768 MB or greater.

9. If the directory *TomcatHome*/webapps/ccg/WEB-INF/fonts contains one or more \*.ttf files, copy them to:
  - UNIX/Linux users: /usr/local/amfonts  
(create this directory if it does not already exist)
  - Windows users: C:\WINDOWS\Fonts
10. If the CCG UI Server does not have Internet access, edit the file *TomcatHome*/webapps/ccg/WEB-INF/classes/resources/AMResources.properties. Set the properties banner0, banner1 and banner2 to:  
`http://server-name:port/ccg/jsp/amblank.jsp`  
In this path:
  - Replace *server-name* with the domain name of your CCG UI Server.
  - Replace *port* with port CCG normally accesses on the UI Server.
11. If the following files exist in the *TomcatHome*/webapps/ccg/WEB-INF/lib directory, delete them:
  - jasperreports-0.6.1.jar
  - itext-1.02b.jar
  - itext-1.4.jar
12. Restart the Tomcat web application server.

You have configured the CCG UI Server. Proceed to the *Configuration Controls Governor Administration Guide* and configure CCG 5.5.



---

## Install MetaBuilder

MetaBuilder is a developer's tool that enables you to snapshot and change-track custom objects. To install MetaBuilder, follow these steps:

1. Download ccg\_55\_metabuilder.zip if you have not done so already.
2. Ask all users to log out of CCG.
3. Create a directory on the client computer for the MetaBuilder UI files (e.g., c:\ccg\metabuilder)
4. Unzip ccg\_55\_metabuilder.zip into the directory you created in the preceding step.
  - a. Navigate to the install directory contained within the directory created in step 3 (e.g., c:\ccg\metabuilder\install).
  - b. Log into SQL\*Plus as the CCG Home schema. Use the SQL\*Plus tool available from the Program menu.
  - c. At the SQL\*Plus prompt, type:  

```
@intmb_home.sql
```
  - d. You will be asked to specify the Oracle SID for your CCG Home instance, CCG Home schema name, password and your name.
5. Log into CCG as amadmin.
6. Select Administrator > Users from the menu bar.
7. Click Add User....
8. Enter the following information:
  - Full Name: MetaBuilder User
  - Department: *Any appropriate value*
  - Email: *Any appropriate value*
  - Login ID: AMDEV
  - Password: *Any appropriate value (case-sensitive)*
  - Confirm Password: *Same as Password value*
  - Valid From: *Today's date*

9. Click Save.
10. Click Add role...
11. Enter the following information:
  - Role: Apps Developer
  - Valid From: *Today's date*
12. Click Save. Do not give any other roles to this user.
13. Click Logout (in the upper right corner).
14. Install Oracle's Developer 6i Forms runtime environment on the client computer (if you have not done so already). The installer can be downloaded at:  
<http://www.oracle.com/technology/software/htdocs/devlic.html?>  
<http://otn.oracle.com/software/products/forms/htdocs/winsoft.html>

**Before you install:** Make a note of the client computer's ORACLE\_HOME and PATH environment variable settings. The installation process might reset those variables, which could affect other applications on the computer. If so, modify those environment variables after installation.
15. Install Patch 16 for Developer 6i on the client computer (if you have not done so already). The patch can be downloaded from Oracle's MetaLink; search for patch#3596539.
16. Add a TNS entry in the Developer 6i Oracle Home tnsnames.ora file (which is typically found in the directory c:\dev6i\NET80\ADMIN\) for the CCG Home instance.
17. Make a shortcut on your desktop to the file ifrun60.exe in the Developer 6i Oracle Home (typically c:\dev6i\bin\).
18. Right-click on the shortcut and choose Properties.
19. Click the Shortcut tab.
20. Change Target from ifrun60.exe to:  

```
ifrun60.exe module=metabuilder param_gwyuid=AMHOME-USER_public/AMHOME-USER_public param_dbinstance=AMHOME-SID param_uid=MB-USER
```

In this target value:

  - *AMHOME-USER* is the username of your CCG Home schema (usually *amhome*).
  - *AMHOME-SID* is the TNS entry for the CCG Home instance that you entered in step 16.
  - *MB-USER* is the user ID you set in step 8 (e.g., AMDEV)
21. Set Start In to the mb\_ui directory contained within the directory created in step 3 (e.g., c:\ccg\metabuilder\mb\_ui).
22. Click Change Icon and navigate to the directory created in step 3.
23. Highlight amwind.ico and click Ok.
24. Click Ok. The Properties window closes.



**25.** Rename the shortcut MetaBuilder.

**26.** To launch MetaBuilder, double-click the shortcut.

Always use the Apps Developer role to log into MetaBuilder.

