

**Control-M for Oracle Business
Intelligence
7.0.00
Administrator Guide**



April 2012

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 - license number and password (trial or permanent)
- operating system and environment information
 - machine type
 - operating system type, version, and service pack or other maintenance level such as PUT or PTF
 - system hardware configuration
 - serial numbers
 - related software (database, application, and communication) including type, version, and service pack or maintenance level
- sequence of events leading to the issue
- commands and options that you used
- messages received (and the time and date that you received them)
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- (Asia-Pacific) Contact your BMC sales representative or your local BMC office.

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Introduction to Control-M for Oracle Business Intelligence

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Control-M for Oracle Business Intelligence overview

Control-M for Oracle Business Intelligence is a control module that enables you to schedule pre-defined Oracle Business Intelligence reports and Agents/iBots. Before you begin, do the following:

- Install Control-M for Oracle Business Intelligence, as described in ***Installation*** (on page **10**).
- Connect to an Oracle Business Intelligence server as described in ***Account management*** (on page **18**).

Control-M for Oracle Business Intelligence jobs are integrated with other Control-M jobs into a single scheduling environment. This enables you to control and operate the Oracle Business Intelligence report generation within Control-M and enables you to do the following:

- Define and monitor Control-M for Oracle Business Intelligence reports and Agents/iBots, as described in ***Job definition*** (on page **25**).
- Integrate Oracle Business Intelligence jobs with other Control-M jobs into a single scheduling environment, as described in *Control-M User Guide*.
- Introduce all Control-M capabilities to Oracle Business Intelligence, including advanced scheduling criteria, complex dependencies, quantitative and control resources, and AutoEdit variables, as described in the *Control-M User Guide*.

Administrative roles

Certain Control-M for Oracle Business Intelligence tasks might need to be performed by different professionals in your organization, as follows:

- **System Administrator:** Responsible for reviewing the system requirements and performing the installation process.
- **Control-M Administrator:** Responsible for the administration of all Control-M processes.
- **Control-M Production Controller:** Responsible for defining and/or monitoring Control-M jobs.

The following table lists the tasks performed when working with the Control-M for Oracle Business Intelligence and the role of the professional who is responsible for its administration.

Tasks and professional roles

Tasks	Roles
Install Control-M for Oracle Business Intelligence on a Control-M/Agent on UNIX, as described in <i>Installing Control-M for Oracle Business Intelligence on Control-M/Agent on UNIX</i> (on page 11) and on Windows, as described in <i>Installing Control-M for Oracle Business Intelligence on Control-M/Agent on Windows</i> (on page 13).	<ul style="list-style-type: none">• System Administrator• Control-M Administrator
Install Control-M for Oracle Business Intelligence on a Control-M/Enterprise Manager (Control-M/EM) client and server, as described in <i>Installation on Control-M/EM</i> (on page 14).	<ul style="list-style-type: none">• System Administrator• Control-M Administrator
Manage Control-M for Oracle Business Intelligence accounts, as described in Control-M Configuration Manager administration.	<ul style="list-style-type: none">• Control-M Administrator
Define Control-M for Oracle Business Intelligence jobs, as described in Control-M for Oracle Business Intelligence job definition.	<ul style="list-style-type: none">• Control-M Administrator
Enable Control-M for Oracle Business Intelligence to connect to an SSL-enabled Oracle Business Intelligence server, as described in Control-M for Oracle Business Intelligence SSL configuration.	<ul style="list-style-type: none">• Control-M Administrator

Installation

Control-M for Oracle Business Intelligence can be installed on Windows and UNIX on a Control-M/Agent. The Oracle Business Intelligence form and the CCM client plug-in must be installed on a Control-M/EM client.

The following table describes the required procedures for installing Control-M for Oracle Business Intelligence.

Installation information and tasks

Task/Information	Description
Setting environment variables in UNIX (on page 11)	Describes how to set environment variables in UNIX
Installing Control-M for Oracle Business Intelligence on Control-M/Agent on UNIX (on page 11)	Describes how to install Control-M for Oracle Business Intelligence on Control-M/Agent on UNIX via regular and automatic installation
Installing Control-M for Oracle Business Intelligence on Control-M/Agent on Windows (on page 13)	Describes how to install Control-M for Oracle Business Intelligence on Control-M/Agent on Windows via regular and automatic installation
Installation on Control-M/EM (on page 14)	Describes how to install Control-M for Oracle Business Intelligence on a Control-M/EM client

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Setting environment variables in UNIX

This procedure describes how to set environment variables in UNIX, which enables you to see messages from the console.

➤ To set environment variables in UNIX

- Do one of the following:
 - If you use **csh** or **tcsch**, use the following syntax:
setenv <envVar> <value>
Example: **setenv DISPLAY myhost:0.0**
 - If you use **sh** or **ksh**, use the following syntax:
<envVar>=<value>
export <envVar>
Example: **DISPLAY=myhost:0.0**
export DISPLAY
<envVar> is the name of the environment variable.
<value> is the value assigned to the environment variable.

Installing Control-M for Oracle Business Intelligence on Control-M/Agent on UNIX

This procedure describes how to install Control-M for Oracle Business Intelligence on Control-M/Agent on UNIX interactively or automatically.

If you want to install multiple instances of Control-M for Oracle Business Intelligence on several computers using the same configuration, use the automatic installation, as described in this procedure.

NOTE: The default installation is interactive and uses a GUI display. XServer must be running and configured using the **DISPLAY** environment variable. If you do not have XServer available, BMC recommends that you continue with the console installation or perform an automatic installation.

Before You Begin

Ensure that you have met the following requirements:

- Verify that your operating system is compatible with the current version of Control-M (see *Control-M for Oracle Business Intelligence Release Notes*).
- Ensure that all jobs running on Control-M/Agent have ended.

➤ To install on UNIX

1. Log in as the Control-M/Agent user, and stop the Control-M/Agent by typing the following command:
\$CONTROLM/scripts/shut-ag -u <agentUser> -p all

NOTE: If the Control-M/Agent was installed with user **root**, then log in as user **root** every time you start up or shut down the Control-M/Agent throughout this procedure.

If you are using an AIX operating system, you must remove unused libraries from memory, by typing the following command as a **root** user:

/usr/sbin/slibclean

2. Do one of the following:
 - Mount the installation DVD.
 - Extract the files from the temporary directory that you created when obtaining the installation files via EPD (see *Control-M for Oracle Business Intelligence Release Notes*).
3. Use one of the following modes:
 - **Display**: If you install using GUI (or XServer), set your **DISPLAY** environment variable, as described in **Setting environment variables in UNIX** (on page 11).
 - **Console**: It is not necessary to set **DISPLAY**.
4. From the installation DVD or from the installation files via EPD, activate the installation script with the following command:

<source_path>/setup.sh

5. Do one of the following:
 - **Interactive install**: Continue with the on-screen instructions until the installation is complete.
 - **Automatic install**: Do the following:
 - a. Continue with the on-screen instructions until the **Summary** window.
 - b. Click **Generate** and select the location to create the XML parameter file.
 - c. Click **Yes**.
 - d. Copy the automatic installation parameters file to a network location that is accessible to all computers where you want to perform an automatic installation.
 - e. To run the installation script, type the following command:

<source_path>/setup.sh -silent <filename.xml>

The installation logs can be found at the following location:

\$HOME/BMCINSTALL/log/cmbi/BMC_Control-M_For_Oracle_Business_Intelligence_Install_<date-time>.log

6. Log out of the Control-M/Agent account.
7. Start the Control-M/Agent by running the following command:

\$CONTROLM/scripts/start-ag -u <agentUser> -p all
8. To use the Control-M for Oracle Business Intelligence utilities in the CCM, run the **ctmgetcm** utility in the Control-M/Server. For more information, see the *Control-M Administrator Guide*.
9. Continue with **Installation on Control-M/EM** (on page 14).

Installing Control-M for Oracle Business Intelligence on Control-M/Agent on Windows

This procedure describes how to install Control-M for Oracle Business Intelligence on Control-M/Agent on Windows.

If you want to install multiple instances of Control-M for Oracle Business Intelligence on several computers using the same configuration, use the automatic installation, as described in this procedure.

Before You Begin

Ensure that you have met the following requirements:

- Verify that your operating system is compatible with the current version of Control-M (see *Control-M for Oracle Business Intelligence Release Notes*).
- Ensure that all jobs running on Control-M/Agent have ended.

➤ To install on Windows

1. Log in to the computer as a user who has Administrator authorization.
2. Do one of the following:
 - From the installation DVD, double-click the **Setup.exe** file.
 - From a command prompt window, type `<source_path>\Setup.exe`.
3. Do one of the following:
 - **Interactive install:** Continue with the on-screen instructions until the installation is complete.
 - **Automatic install:** Do the following:
 - a. Continue with the on-screen instructions until the **Summary** window.
 - b. Click **Generate** and select the location to create the XML parameter file.
 - c. Click **Yes**.
 - d. The automatic installation XML parameters file that is created (`<filename>.xml`) is relevant only for computers with the same agent instance name. Otherwise, a separate `<filename>.xml` file must be created for each computer, or modified manually for each computer.
 - e. Copy the automatic installation parameters file to a network location that is accessible to all computers where you want to perform an automatic installation.
 - f. Run the installation script, as follows:

```
<installation_path>\Setup.exe -silent <silent.xml>
```

The installation log can be found at the following location:

BMCINSTALL\log\cmbi\BMC_Control-M_For_Oracle_Business_Intelligence_Install_<timestamp>.log

To use the Control-M for Oracle Business Intelligence utilities in the CCM, you must run the **ctmgetcm** utility in the Control-M/Server. For more information, see the *Control-M Administrator Guide*.

4. Continue with **Installation on Control-M/EM** (on page 14).

Installation on Control-M/EM

After you have installed Control-M for Oracle Business Intelligence on Control-M/Agent, you must install Control-M for Oracle Business Intelligence on the Control-M/EM client computer. This procedure must be performed on every computer that has Control-M/EM client components installed.

The following procedures describe how to install the Control-M for Oracle Business Intelligence plug-in on a Control-M/EM client and enable find and update support:

- **Installing the Control-M for Oracle Business Intelligence client plug-in** (on page 14)
- **Enabling Find and Update support on Control-M/EM server** (on page 15)
- **Installing the Control-M Self Service plug-in** (on page 16)

Installing the Control-M for Oracle Business Intelligence client plug-in

This procedure describes how to install Control-M for Oracle Business Intelligence on the Control-M/EM client, which installs the CCM plug-in, imports the Oracle Business Intelligence form, and enables Find and Update support.

Before you begin

Ensure that you have met the following requirements:

- Successful completion of one of the following:
 - **Installing Control-M for Oracle Business Intelligence on Control-M/Agent on UNIX** (on page 11)
 - **Installing Control-M for Oracle Business Intelligence on Control-M/Agent on Windows** (on page 13)
- Control-M for Oracle Business Intelligence OBI.7.0.00 DVD is mounted or accessible through your network.
- Control-M/EM GUI server is shut down.
- Control-M/EM client applications are closed.

➤ To install on Control-M/EM client:

1. Do one of the following:
 - If you download the Control-M for Oracle Business Intelligence 7.0.00 zip file from the BMC EPD site for a Windows installation, you need to create the EM directory content that is required to install Control-M for Oracle Business Intelligence on the Control-M/EM client computer, do the following:
 - a. Extract the files from the downloaded zip file.
 - b. Double-click the **EM.exe** self-extractor.
 - If you download the Control-M for Oracle Business Intelligence 7.0.00 from the DVD, continue with the next step.
2. Log in with a user ID with administrator privileges on the specific computer.
3. If you are not using Windows Vista, Windows 7, or Windows 2008, navigate to **<dvd_path>\EM\Client** and continue with step 7.
4. Navigate to the following directory:

<dvd_path>\EM

5. Copy or map the EM directory to your local disk.

6. Navigate to the mapped or copied directory:

<mapped/copied_location>\EM\Client

7. Run the **Install_EM_Client_OracleBI.cmd** file, and follow the installation instructions provided.

You have installed the Control-M for Oracle Business Intelligence client on the CCM. In addition, the Oracle Business Intelligence form is imported on the Control-M/EM client.

To use the Control-M for Oracle Business Intelligence utilities in the Control-M Configuration Manager, you must ensure that the **ctmgetcm** utility has run in Control-M/Server. For more information, see the *Control-M Administrator Guide*.

8. From the CCM, restart the Control-M/EM GUI server.

Enabling Find and Update support on Control-M/EM server

The following procedure describes how to enable Control-M for Oracle Business Intelligence Find and Update support.

Before You Begin

Ensure that you have met the following requirements:

- Successful completion of *Installing the Control-M for Oracle Business Intelligence client plug-in* (on page 14)
- Control-M for Oracle Business Intelligence OBI.7.0.00 DVD is mounted or accessible through your network.
- Control-M/EM GUI server is shut down.
- Control-M/EM client applications are closed.

➤ To enable Find and Update support:

1. Do one of the following:

- If you download the Control-M for Oracle Business Intelligence 7.0.00 zip file from the BMC EPD site for a Windows installation, you need to create the EM directory content that is required to enable find and update support on the Control-M/EM server, do the following:
 - a. Extract the files from the downloaded zip file.
 - b. Double-click the **EM.exe** self-extractor.
- If you download the Control-M for Oracle Business Intelligence 7.0.00 from the DVD, continue with the next step.

2. From the installation DVD, copy the **ORACLE_BI_appl.xml** file located in the **<DVD>\EM\ApplFields** directory to one of the following Control-M/EM directories:

- **Windows:** <Control-M/EM home directory>\etc\applfields\
- **UNIX:** <Control-M/EM home directory>/etc/applfields/

3. From the CCM, restart the Control-M/EM GUI server.

After you have finished installing Control-M for Oracle Business Intelligence, you need to create an account in the CCM, as described in CCM administration.

After you have created an account you can define a Control-M for Oracle Business Intelligence job, as described in Control-M for Oracle Business Intelligence job definition.

Installing the Control-M Self Service plug-in

This procedure describes how to install the Control-M for Oracle Business Intelligence plug-in on Control-M Self Service server.

➤ To install the Control-M Self Service plug-in:

1. Do one of the following:
 - If you download the Control-M for Oracle Business Intelligence 7.0.00 zip file from the BMC EPD site for a Windows installation, you need to create the EM directory content that is required to enable find and update support on the Control-M/EM server, do the following:
 - a. Extract the files from the downloaded zip file.
 - b. Double-click the **EM.exe** self-extractor.
 - If you download the Control-M for Oracle Business Intelligence 7.0.00 from the DVD, continue with the next step.
2. From the installation DVD, copy the the content of the <DVD>\EM\SelfService directory to one of the following directories:
 - **Windows:** <Control-M/EM home directory>\etc\
 - **UNIX:** <Control-M/EM home directory>/etc/

Control-M for Oracle Business Intelligence Uninstall

The following procedures describe how to uninstall Control-M for Oracle Business Intelligence from UNIX and Microsoft Windows:

- **Uninstalling Control-M for Oracle Business Intelligence from UNIX** (on page 16)
- **Uninstalling Control-M for Oracle Business Intelligence from Windows** (on page 17)
- **Performing an automatic uninstall from Windows** (on page 17)

Uninstalling Control-M for Oracle Business Intelligence from UNIX

This procedure describes how to uninstall Control-M for Oracle Business Intelligence from UNIX.

Before You Begin

Ensure that all jobs have ended.

➤ To uninstall from UNIX:

1. From a Control-M/Agent computer, log in as a Control-M/Agent user, and type the following command to shut down Control-M/Agent:

```
$CONTROLM/scripts/shut-ag -u <agentUser> -p all
```

NOTE: If the Control-M/Agent was installed with user root, then log in as user **root** every time you start up or shut down the Control-M/Agent throughout this procedure.

If you are using an AIX operating system, you must remove unused libraries from memory, by typing the following command:

```
/usr/sbin/slibclean
```


2. Set your **DISPLAY** environment variable according to the computer name, as described in **Setting environment variables in UNIX** (on page 11).
3. Navigate to the following directory:
\$HOME/BMCINSTALL/uninstall/OBI.7.0.00
4. Type one of the following commands:
 - **Interactive:** `./uninstall.sh`
 - **Automatic:** `/uninstall.sh -silent`Control-M for Oracle Business Intelligence has been successfully removed from your computer.
5. To restart Control-M/Agent, type the following command:
\$CONTROLM/scripts/start-ag -u <agentUser> -p all

Uninstalling Control-M for Oracle Business Intelligence from Windows

This procedure describes how to uninstall Control-M for Oracle Business Intelligence from Windows.

Before You Begin

Ensure that all jobs have ended.

➤ To uninstall from Windows

1. From the **Start** menu, select **Settings > Control Panel**.
2. Double-click **Add/Remove Programs**.
3. Select Control-M for Oracle Business Intelligence <Agent Name>, and click **Add/Remove**.
4. Click **OK** to continue.

Control-M for Oracle Business Intelligence is successfully removed from your computer.

Performing an automatic uninstall from Windows

This procedure describes how to perform an automatic uninstall from Windows.

Before You Begin

Ensure that all jobs have ended.

➤ To perform an automatic uninstall from Windows

1. Log in to the computer using a user ID that has Administrator privileges.
2. Navigate to the following directory:

<Agent Install Path>\BMCINSTALL\uninstall\DR_OBI.7.0.00

3. Type the following command:

Uninstall.exe -silent

Control-M for Oracle Business Intelligence has been successfully removed from your computer.

Account management

Before you can define a Control-M for Oracle Business Intelligence job in the Control-M/Desktop, you need to create an account in the Control-M Configuration Manager, which enables you to connect to the required Oracle Business Intelligence server.

An account contains the connection parameters to a specified Oracle Business Intelligence server, such as hostname, port, username, and password. By adding an account to the Control-M Configuration Manager, you enable Control-M for Oracle Business Intelligence users to connect to the required Oracle Business Intelligence server with only the account name. Users then can run a job without having to provide authentication details every time they connect to the Oracle Business Intelligence server.

The following procedures describe how to create, edit, delete, test, copy, and export an account in the Control-M Configuration Manager:

- **Creating an account** (on page 19)
- **Editing an account** (on page 22)
- **Deleting an account** (on page 23)
- **Testing an account** (on page 23)
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Creating an account

This procedure describes how to create an Oracle Business Intelligence account in the Control-M Configuration Manager, which enables you to define an Oracle Business Intelligence job in the Control-M/Desktop and transfer the report with FTP to a pre-defined destination.

➤ To create an account:

1. From Control-M Configuration Manager, select the **CM (ORACLE_BI)** on the host that you want to manage and right-click **Account Management**.

The **Control-M for Oracle Business Intelligence Account Management** dialog box appears.

2. Click .

The **Add Account** dialog box appears.

3. In the **Account Name** field, type the name of the account that you want to add, and then click **Next** (The account name must begin with a letter and without any blanks or special characters).

4. For each field, type the required value, as described in **Set Connection Details Parameters** (on page 20).


5. Click **Next**.

The **Add Account- Advanced Account Configuration** dialog box appears.

6. For each field, type the required value, as described in **DB Connection Detail parameters** (on page 21) (optional).

7. Click **Next**.

The **Add Account- File Transfer Destinations** dialog box appears.

8. If you want to send the report to a remote host with FTP, click , otherwise, continue with step 11.

The **Add File Transfer Destinations** dialog box appears.

9. For each field, type the required value, as described in **File Transfer Destination parameters** (on page 22).

10. Click **OK**.

The destination appears in the **File Transfer Destinations** dialog box.

11. Click **Next**.

12. Review the account details and click **Test (optional)**.

If the test completed successfully, the account is validated and you can now define a Oracle Business Intelligence job, as described in **Defining a Control-M for Oracle Business Intelligence job** (on page 26). If the test failed, review the error message and test it again.

13. Click **Finish**.

The account is added to the **Control-M for Oracle Business Intelligence -Account Management** dialog box.

Set Connection Details Parameters

The following table lists the set connection detail parameters to add an account.

Add Account - Set Connection Details parameters

Field	Description
Web Server Host Name	Defines the name of the Oracle Business Intelligence web services server
use SSL	Determines whether SSL is used to encrypt the connection between Control-M for Oracle Business Intelligence and the Oracle Business Intelligence web server. For more information, see SSL configuration (on page 39).
Port Number	Defines the port number of the Oracle Business Intelligence web services server
Server Version	Determines the Oracle Business Intelligence server version
User Name	Defines the username for the Oracle Business Intelligence server
Password	Defines the password for the Oracle Business Intelligence server
Confirm Password	Confirms the password for the Oracle Business Intelligence server

DB Connection Detail parameters

The following table lists the DB connection detail parameters to create an account.

DB Connection Detail parameters

Field	Description
Allow Agent/iBot Support	Determines whether Agent/iBot is supported on Control-M for Oracle Business Intelligence
JDBC Connection String	Defines the JDBC connection string (without credentials) that is used to connect to Oracle Business Intelligence job manager database server Example: jdbc:oracle:thin:@//<Server host>:<Server port>/<SID>
Database Error Table	Defines the database schema and table name for the job manager error table. Format: SCHEMA.TABLE_NAME
Database Instance Table	Defines the database schema and table name for the job manager error table. Format: SCHEMA.TABLE_NAME
Database User Name	Defines the username for the Oracle Business Intelligence job manager database
Database Password	Defines the password for the Oracle Business Intelligence job manager database
Confirm Database Password	Confirms the password for the Oracle Business Intelligence job manager database

File Transfer Destination parameters

The following table lists the set connection detail parameters to add an account.

File Transfer Destination parameters

Field	Description
FTP Name	Defines a logical name for the FTP destination
Host Name	Defines the hostname of the FTP server
User	Defines the username of the FTP server that is used to transfer the report
Password	Defines the password of the FTP user
Confirm Password	Confirms the password of the FTP user
Use Secure FTP	Determines whether to encrypt the transfer with SSH


Editing an account

This procedure describes how to edit an account in the Control-M Configuration Manager.

➤ To update an account:

1. From the Control-M Configuration Manager, select the **CM (ORACLE_BI)** on the host that you want to manage and right-click **Account Management**.

The **Control-M for Oracle Business Intelligence -Account Management** dialog box appears.

2. Select an account that you want to edit and click .

The **Update <account> Account** dialog box appears.

3. Edit the values for the required fields, as described in **Set Connection Details Parameters** (on page 20) and **DB Connection Detail parameters** (on page 21).

4. Review the account details and click **Test (optional)**.

If the test completed successfully, the account is validated and you can now define a Oracle Business Intelligence job, as described in **Defining a Control-M for Oracle Business Intelligence job** (on page 26). If the test failed, review the error message and test it again.

5. Click **OK**.

The account is updated in the **Control-M for Oracle Business Intelligence -Account Management** dialog box.


Deleting an account

This procedure describes how to delete an account from the Control-M Configuration Manager.

➤ To delete an account:

1. From the Control-M Configuration Manager, select the **CM (ORACLE_BI)** on the host that you want to manage and right-click **Account Management**.

The **Control-M for Oracle Business Intelligence -Account Management** dialog box appears.

2. Select an account that you want to delete and click .

A confirmation message appears.

3. Click **Yes**.

The account is deleted.


Testing an account

This procedure describes how to test an account in the Control-M Configuration Manager, which enables you to validate the connection parameters.

➤ To test an account:

1. From Control-M Configuration Manager, select the **CM (ORACLE_BI)** on the host that you want to manage, and right-click **Account Management**.

The **Control-M for Oracle Business Intelligence -Account Management** dialog box appears.

2. Select an account that you want to test and click the  icon.

If the test completed successfully, the account is validated and you can now define a Oracle Business Intelligence job, as described in ***Defining a Control-M for Oracle Business Intelligence job*** (on page 26). If the test failed, review the error message and test it again.


Copying an account

This procedure describes how to copy an account in the Control-M Configuration Manager, which enables you to create an additional account using the parameters of an existing account.

➤ To copy an account:

1. From the Control-M Configuration Manager, select the **CM (ORACLE_BI)** on the host that you want to manage and right-click **Account Management**.

The **Control-M for Oracle Business Intelligence -Account Management** dialog box appears.

2. Select an account that you want to copy and click .

The **Copy <account> Account** dialog box appears.

3. In the **Account Name** field, type a name for the new account and change any required parameters, and then click **OK**.

4. Click **Test (optional)**.

If the test completed successfully, the account is validated and you can now define a Oracle Business Intelligence job, as described ***Defining a Control-M for Oracle Business Intelligence job*** (on page 26). If the test failed, review the error message and test it again.

5. Click **OK**.


Exporting an account

This procedure describes how to export an account from one Control-M/Agent to another Control-M/Agent, where Control-M for Oracle Business Intelligence is installed.

➤ To export an account:

1. From the Control-M Configuration Manager, select the **CM (ORACLE_BI)** on the host that you want to manage and right-click **Account Management**.

The **Control-M for Oracle Business Intelligence -Account Management** dialog box appears.

2. Select an account that you want to export and click the  icon.

The **Account Management - Export Account Destination** dialog box appears.

3. From the **Control-M/Server name** dropdown list, select the Control-M/Server that contains the Control-M/Agent, where you want to export the account.
4. From the **Control-M/CM Host Name** dropdown list, select the Control-M/Agent that contains the account on the CM you want to export.

5. Click **OK**.

The **Export Account Destination** dialog box appears.

6. In the **Account Name** field, type a name for the exported account and change any required parameters, and then click **OK**.

7. Click **Test (optional)**.

If the test completed successfully, the account is validated and you can now define a Oracle Business Intelligence job, as described in the Control-M for Oracle Business Intelligence Job Editing Form Help ***Defining a Control-M for Oracle Business Intelligence job*** (on page 26). If the test failed, review the error message and test it again.

8. Click **OK**.

Job definition

Control-M for Oracle Business Intelligence is a control module that connects to a Oracle Business Intelligence server and enables you to define jobs that run reports and Agents/iBots that distribute them in various output formats and distribution methods, as described in ***Defining a Control-M for Oracle Business Intelligence job*** (on page 26).

Control-M for Oracle Business Intelligence jobs are integrated with other Control-M jobs into a single scheduling environment. Control-M capabilities are available for Control-M for Oracle Business Intelligence, including advanced scheduling criteria, complex dependencies, quantitative and control resources, and AutoEdit variables.

To access the Oracle Business Intelligence form, see ***Accessing the Oracle Business Intelligence form*** (on page 26).

Job definition parameters in Control-M for Oracle Business Intelligence enable you to apply values for the AutoEdit variables, as described in the *Control-M User Guide*. For a list of Control-M for Oracle Business Intelligence parameters, see ***Control-M for Oracle Business Intelligence parameters*** (on page 29).

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Accessing the Oracle Business Intelligence form

This procedure describes how to access the Oracle Business Intelligence form, which enables you to define a Oracle Business Intelligence job.

➤ To access the Oracle Business Intelligence form

1. Log in to Control-M/Desktop, as described in the *Control-M User Guide*.
2. From the **Edit** menu, select **New > Job**.
3. From the **Job Type** dropdown list, select **Oracle Business Intelligence**.
4. Click the **Oracle Business Intelligence** tab.

The Oracle Business Intelligence form appears.

Defining a Control-M for Oracle Business Intelligence job

This procedure describes how to define a Control-M for Oracle Business Intelligence job, which enables you to run Oracle Business Intelligence reports and Agents/iBots on an Oracle Business Intelligence server.

Before You Begin

Ensure that you have met the following requirements:

- A configured Oracle Business Intelligence account, as described in **Account management** (on page **18**).
- Successful completion of **Accessing the Oracle Business Intelligence form** (on page **26**).

➤ To define an Oracle Business Intelligence job:

1. From the **Account** field, click **Load**.

The **Account Selection** dialog box appears.

2. Select the account that you want to use, and click **OK**.
3. From the **Type** dropdown list, select one of the following:

- **Report**
- **Agent/iBot**


4. In the **Report Path** or **Agent/iBot path** field, click **Browse**.
5. Navigate to the report or Agent/iBot that you want to run, and then click **Open**.

If you selected Report type, the **Report Path** and **Report Job Name** fields are populated, and the associated report parameters. If you selected Agent/iBot continue with step 14.

6. For each parameter, type a value, as described in **Parameter types** (on page **28**).
7. Click **Output** (optional).

The **Output** dialog box appears.

8. Select the layout, format, calendar, and other output options.
9. Do one or more of the following (optional):

- 
- If you want to send the report to an email address, click **Email output destination** and define the Email parameters.
 - If you want to send the report to a remote host with FTP, click **FTP output destination** and define the FTP parameters, as follows:
 - **FTP Server:** Determines which FTP server is used to transfer the report, as defined in the Account FTP Destinations
 - **Remote Directory:** Defines the name of the directory on the remote host where the report is transferred
 - **Remote File Name:** Defines the name of the report file on the remote host

10. Click **OK**.

11. Click **Notifications** (optional).

12. Type the email address of the user that you want to notify when the following occurs:

- **Report completed**
- **Report completed with warnings**
- **Report failed**

13. Click **OK**.

14. Continue defining a job in the job editing form, as described in the *Control-M User Guide*.

Parameter types

The following table lists the parameter types.

Parameter types

Parameter type	Description
Byte	Defines the 8-bit integer type
Date	Defines the date format YYYY-MM-DD
DateTime	Defines the datetime format YYYY-MM-DDThh:mm:ss.fff (Fractional seconds are optional)
Decimal	Defines the decimal number type
Double	Defines the double-precision floating point number type
Float	Defines the single-precision floating point number type
Int	Defines the signed 32-bit integer type
Long	Defines the signed 64-bit integer type
Short	Defines the signed 16-bit integer type
String	Defines the Unicode character type
Time	Defines the time format hh:mm:ss.fff (Fractional seconds are optional)
UnsignedByte	Defines unsigned 8-bit integer type
UnsignedInt	Defines unsigned 32-bit integer type
UnsignedLong	Defines unsigned 64-bit integer type
UnsignedShort	Defines unsigned 16-bit integer type

The multiple values separator symbol is a semicolon (;). For example, **123;456** or **abc;xyz**. A minimum value and maximum value of a range is separated by a pipe symbol (|). For example, **1.99|10.99**.

Control-M for Oracle Business Intelligence parameters

Job definition parameters in Control-M for Oracle Business Intelligence enable you to apply values for the AutoEdit variables, as described in the *Control-M User Guide*.

The following table describes the parameters for the Control-M for Oracle Business Intelligence.

Job definition parameter descriptions

Parameter	Description
Account (on page 30)	Defines the Control-M for Oracle Business Intelligence account.
Report Path (on page 31)	Defines the path and name of the report or Agent/iBot that you want to run.
Report Job Name (on page 31)	Defines the report job name (for reports only).
Type (on page 31)	Defines the type of Oracle Business Intelligence object to run.
Parameter Name (on page 32)	Defines the name of a specific parameter when the type is Report.
Parameter Value (on page 32)	Defines the value of a specific parameter when the type is Report.
Notification Email (on page 32)	Defines a comma separated Email address for notifications when the type is Report.
Report Completed Notification (on page 33)	Sends an email notification on a completed status.
Report Failed Notification (on page 33)	Sends an email notification on a failed status.
Report Warnings Notification (on page 33)	Sends an email notification on a warning status.
Output Layout (on page 34)	Determines the layout that is applied to the report.
Output Format (on page 34)	Determines which format is applied to the report.
Output Calendar (on page 34)	Determines which calendar is applied to the report.
Burst Report (on page 35)	Determines if the report runs as a burst report.
Save Output (10g) (on page 35)	Saves the report output.
Make Output Public (on page 35)	Determines whether to allow all users with permissions to access the report.
Save Data for Republish (on page 36)	Saves the XML data that is generated for this job.

Parameter	Description
Use Unicode (10g) (on page 36)	Determines whether to use Unicode for the report (10g only).
Email To (on page 36)	Defines the destination email address of the report (Comma separated values).
Email Cc (on page 37)	Defines an additional destination email address of the report as Cc (Comma separated values).
Email Bcc (on page 37)	Defines an additional destination email address of the report as Bcc (10g only, Comma separated values).
Email Reply To (on page 37)	Defines the email address that the recipient can reply to.
Email Subject (on page 37)	Defines the subject of the email for the report.
Email Message (on page 38)	Defines the message of the email for the report.
FTP Name (on page 38)	Defines the FTP name, as defined in the Account FTP Destinations.
FTP Remote Directory (on page 38)	Defines the remote directory on the FTP server and must end with a "\" or a "/."
FTP Remote File Name (on page 38)	Defines the destination filename for the FTP destination.

Account

Defines the Control-M for Oracle Business Intelligence account.

Usage	Mandatory
Length	1 - 30 characters
Case Sensitive	Yes - only capital letters
Variable Name	%%ORACLE_BI-ACCOUNT

Report Path

Defines the path and name of the report or Agent/iBot that you want to run.

Usage	Mandatory
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-SEARCH_PATH

Report Job Name

Defines the report job name (for reports only).

Usage	Mandatory
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-LOCATION

Type

Defines the type of Oracle Business Intelligence object to run.

Usage	Mandatory
Valid Values	<ul style="list-style-type: none">• Report• Agent/iBot
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-REPORT_TYPE

Parameter Name

Defines the name of a specific parameter when the type is Report.

Usage	Optional
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-PARAMS-Pxxx-PRM_NAME xxx determines the parameter number between 001-999

Parameter Value

Defines the value of a specific parameter when the type is Report.

Usage	Optional
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-PARAMS-Pxxx-PRM_VALUE xxx determines the parameter number between 001-999

Notification Email

Defines a comma separated Email address for notifications when the type is Report.

Usage	Optional
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-NOTIFICATION_EMAIL

Report Completed Notification

Sends an email notification on a completed status.

Usage	Optional
Valid Values	<ul style="list-style-type: none">• Y• N
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-NOTIFICATION_COMPLETED

Report Failed Notification

Sends an email notification on a failed status.

Usage	Optional
Valid Values	<ul style="list-style-type: none">• Y• N
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-NOTIFICATION_FAILED

Report Warnings Notification

Sends an email notification on a warning status.

Usage	Optional
Valid Values	<ul style="list-style-type: none">• Y• N
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-NOTIFICATION_WARNINGS

Output Layout

Determines the layout that is applied to the report.

Usage	Optional
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-OUTPUT_LAYOUT

Output Format

Determines which format is applied to the report.

Usage	Optional
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-OUTPUT_FORMAT

Output Calendar

Determines which calendar is applied to the report.

Usage	Optional
Valid Values	<ul style="list-style-type: none">• Gregorian• Arabic Hijrah• English Hijrah• Japanese Imperial• Thai Buddha• ROC Official
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-OUTPUT_CALENDAR

Burst Report

Determines if the report runs as a burst report.

Usage	Optional
Valid Values	<ul style="list-style-type: none">• Y• N
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-BURST_REPORT

Save Output (10g)

Saves the report output.

Usage	Optional
Valid Values	<ul style="list-style-type: none">• Y• N
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-OUTPUT_SAVEOUTPUT

Make Output Public

Determines whether to allow all users with permissions to access the report.

Usage	Optional
Valid Values	<ul style="list-style-type: none">• Y• N
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-OUTPUT_PUBLIC

Save Data for Republish

Saves the XML data that is generated for this job.

Usage	Optional
Valid Values	<ul style="list-style-type: none">• Y• N
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-OUTPUT_SAVE_REPUBLISH

Use Unicode (10g)

Determines whether to use Unicode for the report (10g only).

Usage	Optional
Valid Values	<ul style="list-style-type: none">• Y• N
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-OUTPUT_UTF8

Email To

Defines the destination email address of the report (Comma separated values).

Usage	Optional
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-DEST-EMAIL-TO

Email Cc

Defines an additional destination email address of the report as Cc (Comma separated values).

Usage	Optional
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-DEST-EMAIL-CC

Email Bcc

Defines an additional destination email address of the report as Bcc (10g only, Comma separated values).

Usage	Optional
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-DEST-EMAIL-BCC

Email Reply To

Defines the email address that the recipient can reply to.

Usage	Optional
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-DEST-EMAIL-REPLYTO

Email Subject

Defines the subject of the email for the report.

Usage	Optional
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-DEST-EMAIL-SUBJECT

Email Message

Defines the message of the email for the report.

Usage	Optional
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-DEST-EMAIL-MSG

FTP Name

Defines the FTP name, as defined in the Account FTP Destinations.

Usage	Optional
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-DEST-FTP-NAME

FTP Remote Directory

Defines the remote directory on the FTP server and must end with a "\" or a "/"

Usage	Optional
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-DEST-FTP-DIR

FTP Remote File Name

Defines the destination filename for the FTP destination.

Usage	Optional
Case Sensitive	Yes
Variable Name	%%ORACLE_BI-DEST-FTP-FILE

SSL configuration

The following procedures describe how to enable Control-M for Oracle Business Intelligence to connect to an SSL-enabled Oracle Business Intelligence server.

- **Exporting the Oracle Business Intelligence client certificate from the Oracle Business Intelligence server** (on page 40): Describes how to export the Oracle Business Intelligence client certificate from the Oracle Business Intelligence server, which enables connect to an SSL-enabled Oracle Business Intelligence dispatcher.
- **Importing the Oracle Business Intelligence client certificate to Control-M for Oracle Business Intelligence JRE** (on page 41): Describes how to import the Oracle Business Intelligence client certificate to the Control-M for Oracle Business Intelligence JRE, which enables you to connect to an SSL-enabled Oracle Business Intelligence dispatcher.

You can bypass the SSL check when you connect to an SSL-enabled Oracle Business Intelligence dispatcher, as described in **Bypassing the SSL check** (on page 41).

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Exporting the Oracle Business Intelligence client certificate from the Oracle Business Intelligence server

This procedure describes how to export the Oracle Business Intelligence client certificate, which enables you to connect to an SSL-enabled Oracle Business Intelligence dispatcher.

➤ To export the Oracle Business Intelligence client certificate:

1. Do one of the following:
 - To export the client certificate from the Internet Explorer Oracle Business Intelligence Presentation or Publisher login web page, do the following:
 - a. Right-click on the page and select **Properties**.
 - b. Click **Certificates**
The **Certificate** dialog box appears.
 - c. Select the **Details** tab.
 - d. Click **Copy to File**.
 - e. Continue with step 5.
 - To export the client certificate with the orapki export tool, continue with step 2.
2. Log in to the Oracle Business Intelligence server computer using a user ID that has **Administrator** privileges.
3. Navigate to one of the following directory:
 - **UNIX:** <Oracle install dir>/bin or <Oracle BI install dir>/oracle_common/bin (Version 11g only).
 - **Windows:** <Oracle install dir>\bin or <Oracle BI install dir>\oracle_common\bin (Version 11g only).
4. Type the following UNIX/Windows command:

```
>orapki wallet export -wallet <wallet_location> -dn <certificate_dn> -cert OracleBICacert.cer
```

This command exports a certificate with the subject's distinguished name (-dn) from a wallet to a file that is specified by -cert, where:

 - **-dn** must be the certificate Distinguished Name for the web server.
 - **-<wallet location>** is determined by the Oracle BI system administrator.
5. Continue with *Importing the Oracle Business Intelligence client certificate to Control-M for Oracle Business Intelligence JRE* (on page 41).

Importing the Oracle Business Intelligence client certificate to Control-M for Oracle Business Intelligence JRE

This procedure describes how to import the Oracle Business Intelligence client certificate to the Control-M for Oracle Business Intelligence that enables you to connect to an SSL-enabled Oracle Business Intelligence dispatcher.

➤ To import the Oracle Business Intelligence client certificate:

1. Log in to the Control-M/Agent computer where Control-M for Oracle Business Intelligence is installed.
2. Navigate to one of the following directory:
 - **Windows:** `<Agent install dir>\cm\ORACLE_BIJRE\bin`
 - **UNIX:** `<Agent install dir>/cm/ORACLE_BI/JRE/bin`
3. Verify that the following Windows/UNIX file has write privileges:
 - **Windows:** `<Agent install dir>\cm\ORACLE_BIJRE\lib\security\cacerts`
 - **UNIX:** `<Agent install dir>/cm/ORACLE_BI/JRE/lib/security/cacerts`
4. Type the following command:
 - **Windows:** `>.\keytool -import -file <temp dir>\OracleBICacert.cer -keystore ..\lib\security\cacerts -alias OracleBI`
 - **UNIX:** `>./keytool -import -file <temp dir>/OracleBICacert.cer -keystore ../lib/security/cacerts -alias OracleBI`

NOTE: The dot slash (./) in front of the **keytool** command is required to ensure the certificate is imported to the Control-M for Oracle Business Intelligence JRE and not the computer default JRE.

5. At the password prompt, type **changeit**.
6. Type **y** to accept the certificate.


The Oracle Business Intelligence client certificate is imported to the Control-M/Agent computer where Control-M for Oracle Business Intelligence is installed.
7. Enable SSL on an account, as described in **Creating an account** (on page 19).

Bypassing the SSL check

This procedure describes how to bypass the SSL check when you connect to an SSL-enabled Oracle Business Intelligence dispatcher.

➤ To bypass the SSL check:

1. Log in to the Control-M/Agent computer where Control-M for Oracle Business Intelligence is installed.
2. Set the **IgnoreSSL** parameter to **Y** in the following file:
 - **Windows:** `<Agent install dir>\cm\Oracle_BI\data\cm_container_conf.xml`.
 - **UNIX:** `<Agent install dir>/cm/Oracle_BI/data/cm_container_conf.xml`.

- 
3. Stop the Control-M for Oracle Business Intelligence container.
 4. Continue with ***Editing an account*** (on page **22**) and ***Testing an account*** (on page **23**).

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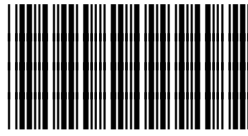
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