

# Oracle® Tuxedo Message Queue (OTMQ)

Installation Guide

12c Release 1 (12.1.1)

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ORACLE®

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Installing Oracle Tuxedo Message Queue, 12c Release 1 (12.1.1)

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# Contents

1. Preparing to Install Oracle Tuxedo Message Queue	
Oracle Tuxedo Message Queue Web Distribution . . . . .	1-1
Oracle Tuxedo Message Queue Software Components . . . . .	1-2
Hardware and Software Prerequisites . . . . .	1-2
System Requirements. . . . .	1-2
Temporary Storage Space Requirements . . . . .	1-2
Inter-process Communication Resources Configuration . . . . .	1-3
Oracle Installation Program . . . . .	1-3
Installation Methods. . . . .	1-3
Cancelling Installation . . . . .	1-3
Install Sets . . . . .	1-3
Oracle Home Directory . . . . .	1-4
Installation Road Map . . . . .	1-4
2. Installing OTMQ Using GUI-Mode Installation	
What Is GUI-Mode Installation? . . . . .	2-1
Starting GUI-Mode Installation on a Windows System . . . . .	2-2
Starting GUI-Mode Installation on a UNIX System. . . . .	2-2
Running GUI-Mode Installation . . . . .	2-3
What Do I Do Next? . . . . .	2-7

3. Installing OTMQ on UNIX Systems Using Console-Mode Installation	
What Is Console-Mode Installation? .....	3-1
Starting Console-Mode Installation .....	3-1
Running Console-Mode Installation .....	3-2
What Do I Do Next? .....	3-8
4. Installing OTMQ Using Silent Installation	
What Is Silent Installation? .....	4-1
Using Silent Installation: Main Steps .....	4-2
Creating a Template File .....	4-2
Invoking the Silent Installation Process on a UNIX System .....	4-5
UNIX Template File .....	4-5
What Do I Do Next? .....	4-6
5. Post-Installation	
Running Samples to Verify Your Installation .....	5-1
Running simpapp .....	5-2
Uninstalling Oracle Tuxedo Message Queue .....	5-2
Reinstalling Oracle Tuxedo Message Queue .....	5-3
A. OTMQ 12c Release 1 (12.1.1) Platform Data Sheets	

# Preparing to Install Oracle Tuxedo Message Queue

The following sections provide information that you need to know before installing the Oracle Tuxedo Message Queue (OTMQ) 12c Release 1 (12.1.1) product software:

- [Oracle Tuxedo Message Queue Web Distribution](#)
- [Oracle Tuxedo Message Queue Software Components](#)
- [Hardware and Software Prerequisites](#)
- [Hardware and Software Prerequisites](#)
- [Inter-process Communication Resources Configuration](#)
- [Oracle Installation Program](#)
- [Oracle Home Directory](#)
- [Installation Road Map](#)

## Oracle Tuxedo Message Queue Web Distribution

A copy of Oracle Tuxedo Message Queue (OTMQ) is available for download from the Oracle corporate Web site at <http://www.oracle.com/technology/software/index.html>.

Platform-specific installer files for the Oracle Tuxedo Message Queue product software are available for download from the Oracle corporate Web site.

# Oracle Tuxedo Message Queue Software Components

Included with the Oracle Tuxedo Message Queue 12c Release 1 (12.1.1) software distribution is the minimum Tuxedo and all OTMQ components.

## Hardware and Software Prerequisites

Oracle Tuxedo Message Queue software must be installed on each server machine that will participate in an Oracle Tuxedo application, also known as a Tuxedo domain. A Tuxedo Message Queue application is a business software program, built upon the Tuxedo system, that is defined and controlled by a single configuration file known as the `UBBCONFIG` file. The Tuxedo configuration file is described in reference page [UBBCONFIG \(5\)](#) in *Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference*.

An OTMQ application consists of many Tuxedo system processes, one or more application client processes, one or more application server processes, and one or more computer machines connected over a network. In a multi-machine Tuxedo application running different releases of the Oracle Tuxedo software, the *master machine*—designated via the `MASTER` parameter in the `RESOURCES` section of the `UBBCONFIG` file—must run the highest release of the Oracle Tuxedo software in the application. For more information about Tuxedo applications, see “Domains” in [Oracle Tuxedo Product Overview](#).

**Note:** Oracle advises against trying to share the Oracle Tuxedo system executables across remote filesystems; this practice has proven to be unreliable in the past.

## System Requirements

In Oracle Tuxedo 12cR1 (12.1.1) you must select *full installation* to install OTMQ12c R1 on an existing Oracle Tuxedo version.

**Note:** Before installing Oracle Tuxedo Message Queue software on a UNIX system, it is recommended that you repartition your hard disk device in accordance to [File and Database Management and Disk Space Allocation](#).

## Temporary Storage Space Requirements

The Oracle Tuxedo Message Queue Installation program will use a temporary directory in which it extracts the files from the archive that are needed to install Oracle Tuxedo Message Queue on the target system, this procedure is the same as the Tuxedo installation.

The amount of temporary storage space needed depends upon the target platform, as stated in the data sheets in [OTMQ 12c Release 1 \(12.1.1\) Platform Data Sheets](#)

## Inter-process Communication Resources Configuration

This procedure is same as the Oracle Tuxedo12c installation.

To configure IPC resource, see "IPC Resource Configuration on a UNIX System" and "Performing Post-Installation Tasks" in the [Oracle Tuxedo Installation Guide](#).

**Note:** Before installing Oracle Tuxedo software on a UNIX system, Oracle recommends that you adjust the IPC parameters on the target machine.

## Oracle Installation Program

The Oracle Tuxedo Message Queue software is distributed as an installer file, which also contains a copy of the Oracle Installation program. The Oracle Installation program is the Oracle standard tool for installing the Oracle Tuxedo software on Windows or UNIX systems.

### Installation Methods

The Oracle Installation program supports three installation methods. You can use any of these methods to install the Oracle Tuxedo product software:

- Graphical user interface (GUI) installation, described in [Installing OTMQ Using GUI-Mode Installation](#).
- Console Installation (UNIX systems only), described in [Installing OTMQ on UNIX Systems Using Console-Mode Installation](#).
- Silent installation, described in [Installing OTMQ Using Silent Installation](#).

### Cancelling Installation

Clicking the "Cancel" or the "close" window button in GUI mode, or typing "quit" in console mode creates an incomplete Oracle Tuxedo Message Queue 12c Release 1 (12.1.1) installation. You will have to re-install Oracle Tuxedo Message Queue 12c Release 1 (12.1.1).

### Install Sets

An install set is a bundle of product software components related by function. Oracle Tuxedo 12c Release 1 (12.1.1) offers the following two install sets:

- Install on top of existing Oracle Tuxedo Installation

Only OTMQ components are copied, the existing Oracle Tuxedo binary is not changed.

- Standalone Installation

All related Oracle Tuxedo binary and QTMQ components are copied to the target directory.

## Oracle Home Directory

When you install Oracle Tuxedo Message Queue, you are prompted to specify an Oracle Home directory. This procedure is same as the Oracle Tuxedo installation.

For more information, see the [Oracle Tuxedo Installation Guide](#).

## Installation Road Map

You are now ready to begin your installation. To install Oracle Tuxedo Message Queue 12c Release 1 (12.1.1), see one of the following sections:

- [Installing OTMQ Using GUI-Mode Installation](#)
- [Installing OTMQ on UNIX Systems Using Console-Mode Installation](#)
- [Installing OTMQ Using Silent Installation](#)

If you want to uninstall your Oracle Tuxedo Message Queue software, see [Post-Installation](#).



# Installing OTMQ Using GUI-Mode Installation

The following sections describe how to install Oracle Tuxedo Message Queue (OTMQ) using graphical user interface (GUI) mode installation on both Windows and UNIX systems:

- [What Is GUI-Mode Installation?](#)
- [Starting GUI-Mode Installation on a Windows System](#)
- [Starting GUI-Mode Installation on a UNIX System](#)
- [Running GUI-Mode Installation](#)
- [What Do I Do Next?](#)

## What Is GUI-Mode Installation?

The graphical user interface mode installation is the graphics-based method of executing the Oracle Installation program. It can be run on UNIX system.

To run GUI-mode installation, the console attached to the machine on which you are installing the software must support a Java-based GUI. Not all consoles for UNIX support Java-based GUIs.

**Note:** To install Oracle Tuxedo Message Queue on a UNIX system with a non-graphics console, see [“Installing OTMQ on UNIX Systems Using Console-Mode Installation”](#) on page 11-1.

# Starting GUI-Mode Installation on a Windows System

To start the GUI-mode installation process on a Windows system, follow these steps:

1. Select a Windows system that meets the hardware and software requirements described in "Oracle Tuxedo Message Queue 12c (12.1.1) Platform Data Sheets".

2. Log in to the Windows system as the Administrator or as a member of the Administrator group.

You need administrative privileges to install Oracle Tuxedo Message Queue server components on a Windows system.

3. Ensure that you have enough free space for the Oracle Tuxedo installation.

For disk space requirements, see "Oracle Tuxedo Message Queue 12c (12.1.1) Platform Data Sheets". For important disk space allocation information, see "File and Database Management and Disk Space Allocation" on <Oracle Tuxedo installation Guide>.

4. Install Oracle Tuxedo Message Queue by downloading from the Oracle Web site:
  - a. Download the Oracle Tuxedo Message Queue 12c (12.1.1) installation file specific to your platform (Message Queue is an Oracle Tuxedo add-on product).
  - b. Go to the directory where you downloaded the Oracle Tuxedo Message Queue installer and double-click the installer filename to start the installation.
5. Proceed to Running GUI-Mode Installation.
6. Re-login to the system after Oracle Tuxedo Message Queue 12c (12.1.1) installation has completed.

# Starting GUI-Mode Installation on a UNIX System

To start the GUI-mode installation process on a UNIX system, follow these steps:

1. Select a UNIX system that meets the hardware and software requirements described in [OTMQ 12c Release 1 \(12.1.1\) Platform Data Sheets](#)
2. Log in to the UNIX system as the Oracle Tuxedo Message Queue administrator.
3. Ensure that you have enough free space for the Oracle Tuxedo Message Queue installation.

For disk space requirements, see [OTMQ 12c Release 1 \(12.1.1\) Platform Data Sheets](#). For important disk space allocation information, see [File and Database Management and Disk Space Allocation](#)

4. Install Oracle Tuxedo Message Queue by downloading from the Oracle FTP site:
  - a. Download the Oracle Tuxedo Message Queue 12c (12.1.1) installation file specific to your platform (Message Queue is an Oracle Tuxedo add-on product).
  - b. Go to the directory where you downloaded the installer and invoke the installation procedure by entering the following command:

```
prompt> sh filename.bin
```

where *filename* is the name of the Oracle Tuxedo Message Queue installer file.

**Note:** GUI mode is the default for Oracle Tuxedo Message Queue 12c (12.1.1) installation. If a GUI interface is not available on your Unix platform, you will receive an error message and the installation process is aborted.

If a GUI interface is not available on your Unix platform, you must use silent or console-mode installation. For more information, see [What Is Silent Installation?](#) and [What Is Console-Mode Installation?](#)

5. Proceed to [“Running GUI-Mode Installation” on page 10-3](#).

## Running GUI-Mode Installation

The Oracle Tuxedo Message Queue installer program is currently available in English. By checking the value of a certain language-related environment variable on the target platform, the installer program automatically determines (1) the language displayed during the installation and (2) the language-specific message catalog installed during the installation. If the language-related environment variable is not set or is set to a value unknown to the installer program, both the language displayed and the message catalog installed default to English.

The Oracle Tuxedo Message Queue installer program prompts you to enter specific information about your system and configuration. For instructions on responding to the prompts during installation, see [Table 10-1](#).

Table 10-1 Instructions

In This Window . . .	Perform the Following Action . . .
Introduction	Click Next to proceed with the installation. You may cancel the installation at any time by clicking Cancel.
Choose Install Set	<p>Select the install set that you want installed on your system. The following seven choices are available:</p> <ul style="list-style-type: none"> <li>• Install on top of existing Tuxedo installation-This Install Set will install all of the OTMQ Server and Client files.</li> <li>• Standalone installation-This Install Set will install all of the OTMQ Server, Client files and minimal Oracle Tuxedo files.</li> </ul> <p>For a detailed list of software components for each install set, see <a href="#">“Install Sets” on page 1-3</a>.</p> <p>Select an install set and then click Next to launch the Choose Oracle Home Directory window.</p> <p><b>Note:</b> On Windows, if there is an existing Oracle Tuxedo 12c (12.1.1) installation, the standalone installation is not allowed.</p>
Choose Oracle Home Directory	<p>Specify the Oracle Home directory that will serve as the central support directory for all Oracle products installed on the target system. If you already have an Oracle Home directory on your system, you can select that directory (recommended).</p> <p><b>Note:</b> You can only create a new Oracle Home directory in Standalon Installation.</p> <p>The Oracle Tuxedo Message Queue installer program automatically creates the directory for you. For details about the Oracle Home directory, see <a href="#">“Oracle Home Directory” on page 1-4</a>.</p> <p>Choose an Oracle Home directory and then click Next to continue with the installation.</p>

Table 10-1 Instructions

In This Window . . .	Perform the Following Action . . .
Choose Product Directory	<p>Specify the directory in which you want to install the Oracle Tuxedo Message Queue software. You may select the default product directory (<code>tuxedo12c UNIX</code>) or create a new product directory. If you choose to create a new directory, the Oracle Tuxedo Message Queue installer automatically creates the directory for you.</p> <p><b>WARNING:</b> Running a previous Oracle Tuxedo version in conjunction with Oracle Tuxedo Message Queue 12c (12.1.1) on a Windows system requires that the product directories for both versions <i>do not have the same name</i>.</p> <p>If you select Add-onInstallation, OTMQ must be installed on an existing Oracle Tuxedo directory.</p>
Install Samples	<p>Click the check box to install samples.</p> <p>Click Next to proceed with the installation.</p>
Pre-Installation Summary	<p>Review your installation selections. Clicking Previous allows you to modify installation selections. Otherwise click Install to continue.</p>
Installing . . .	<p>No user input is required here. The installation program is installing Oracle Tuxedo Message Queue in the user-specified product directory.</p> <p><b>Note:</b> It is normal for the installation progress bar to stop for several minutes, especially at the end. The Oracle Tuxedo Message Queue installer is still working when this occurs.</p>

Table 10-1 Instructions

In This Window . . .	Perform the Following Action . . .
Configure tlisten Service (Standalone Installation only.)	<p>This window appears only if you have installed the Server Install set.</p> <p>Set the tlisten port value.</p> <p>Enter a <code>tlisten</code> password of your choice. Your password must be a string of alphanumeric characters in clear-text format that is no more than 80 characters in length. You use this password to log in to the Oracle Tuxedo Message Queue Administration Console.</p> <p><b>Note:</b> Machines on the same domain must have the same tlisten password defined.</p> <p>Oracle Tuxedo Message Queue uses the <code>tlisten</code> password to protect the local machine from administrative requests and operations that are <i>not</i> authorized. Whenever administrative communications arrive on the local machine through <code>tlisten(1)</code> or <code>wlisten(1)</code> gateway processes, Oracle Tuxedo Message Queue authenticates them by means of the <code>tlisten</code> password.</p> <p>Enter and re-enter a <code>tlisten</code> password and then click Next to continue.</p>
Tlisten Encryption Method (Standalone Windows Installation only.)	<p>Specify the tlisten encryption method: LLE or SSL.</p> <p>The default is LLE.</p>
SSL Parameter Input (Standalone Windows Installation only.)	<p>If the SSL encryption method is chosen, you must enter Security Principal name, location, and password.</p>
Choose Encryption Bit (Standalone Windows Installation only.)	<p>Specify tlisten minimum and maximum encryption bit. The default minimum value is 0. The default maximum value is 256.</p>

Table 10-1 Instructions

In This Window . . .	Perform the Following Action . . .
SSL Installation Choice (Standalone Installation only.)	<p>This window appears only if you have installed Server, ATMI and/or CORBA Client install set components.</p> <p>Oracle Tuxedo Message Queue provides a Lightweight Directory Access Protocol (LDAP) based certificate retrieval mechanism that supports certificate-based authentication when using SSL. The Oracle Tuxedo Message Queue certificate retrieval mechanism has been certified for use with the LDAP Directory server included with iPlanet Directory Server.</p> <p>Choose whether or not you want to install SSL support. If you intend to use SSL encryption in your application, select Yes and then click Next to launch the LDAP Configuration window. If you do <i>not</i> intend to use SSL encryption in your application, select No.</p>
LDAP Configuration for SSL Support (Standalone Installation only.)	<p>Enter the following LDAP configuration information and then click Next to continue:</p> <ul style="list-style-type: none"> <li>• LDAP Service Name: Fully qualified domain name of the LDAP server (for example, <code>pcwiz.mydomain.com</code>)</li> <li>• LDAP PortID: Port number through which the local machine communicates with the LDAP server (for example, <code>389</code>)</li> <li>• LDAP BaseObject: Distinguished name of the base object for search in the LDAP server (for example, <code>o=beasys.com</code>)</li> <li>• LDAP Filter File Location: (<code>tux_prod_dir/udataobj/security/bea_ldap_filter.dat</code> by default, where <code>tux_prod_dir</code> represents the product directory in which you installed the Oracle Tuxedo Message Queue software)</li> </ul>
Install Complete	Click Done to exit the installation program.

Congratulations! Your installation of the Oracle Tuxedo Message Queue software is complete!.

## What Do I Do Next?

After the successful installation, you can run samples to verify if the software is installed correctly, or uninstall the software. For more information, see [Post-Installation](#).





# Installing OTMQ on UNIX Systems Using Console-Mode Installation

The following sections describe how to install Oracle Tuxedo Message Queue (OTMQ) using console-mode installation:

- [What Is Console-Mode Installation?](#)
- [Starting Console-Mode Installation](#)
- [Running Console-Mode Installation](#)
- [What Do I Do Next?](#)

## What Is Console-Mode Installation?

Console-mode installation is the text-based method of executing the Oracle Installation program. It can be run only on UNIX systems and is intended for UNIX systems with non-graphics consoles. Console-mode installation offers the same capabilities as graphics-based installation

## Starting Console-Mode Installation

To start the console-mode installation process, follow these steps:

1. Select a UNIX system that meets the hardware and software requirements described in [OTMQ 12c Release 1 \(12.1.1\) Platform Data Sheets](#).
2. Log in to the UNIX system as the Oracle Tuxedo Message Queue administrator.
3. Ensure that you have enough free space for the Oracle Tuxedo Message Queue installation.

For disk space requirements, see [OTMQ 12c Release 1 \(12.1.1\) Platform Data Sheets](#).

4. Install Oracle Tuxedo Message Queue by downloading from the Oracle FTP site:
  - a. Download the Oracle Tuxedo Message Queue 12c (12.1.1) installation file specific to your platform (Message Queue is an Oracle Tuxedo add-on product).
  - b. Go to the directory where you downloaded the installer and invoke the installation procedure by entering the following command:

```
prompt> sh filename.bin -i console
```

where *filename* is the name of the Oracle Tuxedo Message Queue installer file.

5. Proceed to [Running Console-Mode Installation](#).

## Running Console-Mode Installation

To complete the console-mode installation process, which is currently available in English, respond to the prompts in each section with one of the following actions.

- Enter the number associated with your choice or press <Enter> to accept the default.
- Enter `back` or `previous` at the prompt to review or change your selection.
- Enter `quit` in response to any prompt to exit the installation process.

In This Section . . .	Perform the Following Action . . .
Choose Locale	<p>Choose a language by entering the number associated with that language. Your choice determines both the language displayed during the installation and the language-specific message catalog installed during the installation.</p> <pre>===== Choose Locale... -&gt;1- English CHOOSE LOCALE BY NUMBER: =====</pre>
Introduction	Read the Introduction and press Enter to continue with the installation process.

---

Choose Install Set

Select the install set that you want installed on your system. The following choices appear:

=====

Choose Install Set

-----

Please Choose the Install Set to be installed by this installer.

- >1- Install on top of existing Tuxedo installation
- 2- Standalone installation

ENTER THE NUMBER FOR THE INSTALL SET, OR PRESS <ENTER>  
TO ACCEPT THE DEFAULT:

=====

For a list of software component for each install set, see [“Install Sets” on page 1-3](#).

---

---

Choose Oracle Home Directory

Specify the Oracle Home directory that will serve as the central support directory for all Oracle products installed on the target system. If you already have a Oracle Home directory on your system, you can select that directory (recommended).

**Note:** You can only create a new Oracle Home directory in Standalone Installation. If you choose to create a new directory, the Oracle Tuxedo Message Queue installer program will automatically create the directory for you. For details about the Oracle Home directory, see [“Oracle Home Directory” on page 1-4](#).

For Standalone Installation

Enter 1 to create a new Oracle Home directory or, if you already have a Oracle Home directory on your system, enter 2 to select an existing Oracle Home directory. Be sure to use the full pathname when specifying a new Oracle Home directory.

For example:

```
=====  
Choose Oracle Home  
-----  
    1- Create a New Oracle Home  
    2- Use Existing Oracle Home  
Enter a number: 2  
    1- /home3/oracle  
    2- /home2/oraclehome  
Existing Oracle Home: 1  
=====
```

In this example, we enter 2 to display the Oracle Home directories that have already been created on this system. At the Existing Oracle Home prompt, we enter 1 to specify /home3/Oracle as the Oracle Home directory for this installation. Make sure that you enter the number associated with the Oracle Home directory instead of the directory name.

If a previous Tuxedo installation is in the existing directory you selected, the following screen appears:

```
=====  
A previous installation of Tuxedo 12c  
has been detected at /home3/Oracle.  
The following options are available:  
    1- Continue to install over /home3/oracle  
    2- Cancel to select another Oracle Home Directory:  
  
CHOOSE A NUMBER:  
=====
```

---

	<p>For add-on installation, there is only one selection; use existing Oracle Home</p> <pre>Choose Oracle Home ----- 1- Use existing Oracle Home</pre>
<p>Choose Product Directory</p>	<p>Specify the directory in which you want to install the Oracle Tuxedo Message Queue software. You may select the default product directory (<code>tuxedo12c</code>) or create a new product directory. If you choose to create a new directory, the Oracle Tuxedo Message Queue installer will automatically create the directory for you.</p> <p>The initial default installs the product directory under the Oracle Home directory you specified in the previous section. To accept this default, enter 2 at the prompt.</p> <p>The choices displayed in this section are as follows:</p> <pre>===== Choose Product Directory ----- 1- Modify Current Selection (/home3/oracle/otmq12c) 2- Use Current Selection (/home3/oracle/otmq12c) Enter a number: =====</pre> <ul style="list-style-type: none"> <li>• Enter 1 to select an alternate directory. The following text appears: Specify Product Installation Directory: Specify a product directory using its full pathname. For example: <code>/home3/mytux10g.R3</code>. When you press Enter, your modified selection appears as the default. <pre>1- Modify Current Selection (/home3/mytux10g.R3) 2- Use Current Selection (/home3/mytux10g.R3) Enter a number:</pre></li> <li>• Enter 2 to accept the current selection. If you enter 2 at the initial prompt, you accept the default product directory (<code>/home3/oracle/tuxedo12c</code> in this example).</li> </ul> <p><b>Note:</b> For Add-on Installation, OTMQ must be installed on an existing Oracle Tuxedo directory</p>
<p>Install Samples</p>	<pre>Enter "Y" to install sample Enter "N" not to install samples</pre>

---

---

Pre-Installation  
Summary

Review your installation selections. Enter back or previous to modify installation selection. Otherwise press <ENTER> to continue.

=====

Pre-Installation Summary

-----

Please Review the Following Before Continuing:

Product Name:

OTMQ 12.1.1.0

Install Folder:

/home3/oracle/otmq12c

Link Folder:

/home3/oracle

Disk Space Information (for Installation target):

Required: 303,288,858 bytes

Available: 19,094,890,496 bytes

PRESS <ENTER> TO CONTINUE:

=====

---

Ready To Install

The choices displayed in this section are as follows:

=====

Ready To Install

-----

InstallAnywhere is now ready to install OTMQ 12c onto your system at the following location:

/home3/oracle/otmq12c

PRESS <ENTER> TO INSTALL:

=====

---

Installing . . .

No user input is required here. The installation program is installing Oracle Tuxedo Message Queue in the user-specified product directory.

It is normal for the installation progress bar to stop for a fairly long time, especially at the end. The Oracle Tuxedo Message Queue installer is still working when this occurs.

---

Configure tlisten Service  
(Standalone Installation only)

Enter a `tlisten` password of your choice. Your password must be a string of alphanumeric characters in clear-text format that is no more than 80 characters in length. You use this password to log in to the Oracle Tuxedo Message Queue Administration Console.

Oracle Tuxedo Message Queue uses the `tlisten` password to protect the local machine from administrative requests and operations that are *not* authorized. Whenever administrative communications arrive on the local machine through `tlisten(1)` or `wlisten(1)` gateway processes, Oracle Tuxedo Message Queue authenticates them by means of the `tlisten` password.

```
=====
Configure tlisten Service
-----
Password:
Verify Password:
Good Password! Press "Enter" to continue.
=====
```

SSL Installation Choice  
(Standalone Installation only)

```
=====
SSL Installation Choice
-----
Would you like to install SSL Support?
->1- Yes
   2- No
ENTER THE NUMBER FOR YOUR CHOICE, SELECTION, OR PRESS
<ENTER> TO ACCEPT THE DEFAULT:
=====
```

---

Enter Your LDAP  
Settings for SSL  
Support  
(Standalone Installation  
only)

This section appears only if you have installed CORBA server and/or client software components. Oracle Tuxedo Message Queue provides a Lightweight Directory Access Protocol (LDAP) based certificate retrieval mechanism that supports certificate-based authentication when using SSL. The Oracle Tuxedo Message Queue certificate retrieval mechanism has been certified for use with the LDAP Directory server included with iPlanet Directory Server.

```
=====  
Enter Your LDAP Settings for SSL Support  
-----  
LDAP Service Name: a  
LDAP PortID: b  
LDAP BaseObject: c  
LDAP Filter File Location:  
Press <ENTER> to accept the default,  
/home3/oracle/tuxedo12c/  
  udataobj/security/bea_ldap_filter.dat  
or enter your own:  
=====
```

---

Installation Complete

```
=====  
Installation Complete  
-----  
Congratulations. OTMQ 12c has been successfully installed  
to:  
  /home3/oracle/otmq12c  
PRESS <ENTER> TO EXIT THE INSTALLER.  
=====v
```

---

Congratulations! Your installation of the Oracle Tuxedo Message Queue software is complete!

## What Do I Do Next?

After the successful installation, you can run samples to verify if the software is installed correctly, or uninstall the software. For more information, see [Post-Installation](#).



# Installing OTMQ Using Silent Installation

The following sections describe how to install Oracle Tuxedo Message Queue (OTMQ) using silent installation on UNIX systems:

- [What Is Silent Installation?](#)
- [Using Silent Installation: Main Steps](#)
- [Creating a Template File](#)
- [Invoking the Silent Installation Process on a UNIX System](#)
- [UNIX Template File](#)
- [What Do I Do Next?](#)

## What Is Silent Installation?

Silent installation reads the settings for your configuration from a text file that you create prior to beginning the installation. Manual intervention is not necessary during the installation process. Silent installation works on UNIX systems.

Silent installation is a way of setting installation configurations only once and then using those configurations to duplicate the installation on many machines.

**Note:** Using silent installation implies your consent to the License Agreement. You neither see a copy of the Software License Agreement nor have any means to accept the terms of the agreement.

# Using Silent Installation: Main Steps

The silent installation process has two primary steps:

1. Create a template file that contains the configuration settings, such as Oracle Home directory, product directory, and install set appropriate for your installation.

For the detailed procedure, see [Creating a Template File](#). A sample template file is provided in [UNIX Template File](#).

2. Invoke the installation process using the values specified in the template files.

For the detailed procedure, see [Invoking the Silent Installation Process on a UNIX System](#).

## Creating a Template File

To create a template file for use in the silent installation process, follow these steps:

1. Display the template file specific to your platform. The following template is available in:
  - UNIX template file content at [UNIX Template File](#).
2. Copy the contents of the template file and save it as a text file named `installer.properties`.
3. In the `installer.properties` file, modify the values for the keywords shown in the following table to create your desired configuration.

The `installer.properties` file is shown in [Table 12-1](#)

Table 12-1 The `installer.properties` File

For This Keyword . . .	Enter the Following Value . . .
<code>INSTALLER_UI=</code>	The mode of installation. The default is <code>silent</code> ; do not modify this value.
<code>ORACLEHOME=</code>	The full pathname of the Oracle Home directory of your choice. For details about the Oracle Home directory, see <a href="#">“Oracle Home Directory” on page 1-4</a> .

Table 12-1 The installer.properties File (Continued)

For This Keyword . . .	Enter the Following Value . . .
USER_INSTALL_DIR=	The full pathname of the product directory of your choice.  <b>WARNING:</b> Running a previous Oracle Tuxedo version in conjunction with Oracle Tuxedo 12c Release 1 (12.1.1) on a Windows system requires that the product directories for both versions <i>do not have the same name</i> .
INSTALL_SAMPLES	"yes" installs Oracle Tuxedo 12c samples. "no" does not install samples.
LDAP_HOSTNAME=	The fully qualified domain name of the Lightweight Directory Access Protocol (LDAP) server of your choice; for example, pcwiz.mydomain.com. (See Note at end of table.)
LDAP_PORTID=	The port number through which the local machine communicates with the LDAP server; for example, 389.* (See Note at end of table.)
TLISTEN_PORT	The port number through which the local machine communicates with the TLISTEN server; for example, 1357.
LDAP_BASE_OBJECT=	The distinguished name of the base object for search in the LDAP server; for example, o=beasys.com. (See Note at end of table.)
LDAP_FILTER_FILE=	The full pathname of the LDAP filter file on your machine; for example, C:\oracle\tuxedo12c\udataobj\security\bea_ldap_filter.dat. (See Note at end of table.)

Table 12-1 The installer.properties File (Continued)

For This Keyword . . .	Enter the Following Value . . .
TLISTEN_PASSWORD=	A <code>tlisten</code> password of your choice. The password must be a string of alphanumeric characters in clear-text format that is no more than 80 characters in length. You will be prompted to enter this password when logging in to the Oracle Tuxedo Message Queue Administration Console.
CHOSEN_INSTALL_SET=	<p>The chosen installation set. You must set this value to one of the following options:</p> <p><b>Notes:</b> The valid options are case sensitive and should be coded exactly as defined below for proper installation. Use of invalid options will result in improper installation.</p> <p>Spaces should not be included after the install set name. If there are spaces after the install set name, the installation process uses the default mode <code>Full Install</code>.</p> <ul style="list-style-type: none"> <li>• <code>Addon</code> for installing OTMQ on an existing Oracle Tuxedo directory</li> <li>• <code>Stdalone</code> for installing OTMQ and minimal Oracle Tuxedo files</li> </ul> <p>For a description of install sets, see <a href="#">“Install Sets” on page 1-3</a>.</p>

**Notes:** Keywords: `LDAP_HOSTNAME`, `LDAP_PORTID`, `LDAP_BASE_OBJECT`, `LDAP_FILTER_FILE` are optional.

Include these keywords and their values only if you want to use Secure Sockets Layer (SSL) encryption. Otherwise, comment these lines out by preceding them with hash marks (#).

Keywords: `TLISTEN_PORT`, and `TLISTEN_PASSWORD` are also optional

Include these keywords and their values only if you select `Server` (server-only installation).

In the template files, comment lines are preceded by hash marks (#). The installer program does not read any line beginning with a hash mark.

# Invoking the Silent Installation Process on a UNIX System

Installing the software using silent installation takes the same amount of time as a standard installation. During silent installation, a startup message appears followed by an “Installing . . .” message, indicating that the installation has started.

To invoke the silent installation process on a UNIX system, follow these steps:

1. Select a UNIX system that meets the hardware and software requirements described in [OTMQ 12c Release 1 \(12.1.1\) Platform Data Sheets](#).
2. Log in to the UNIX system as the Oracle Tuxedo Message Queue administrator.
3. Ensure that you have enough free space for the Oracle Tuxedo Message Queue installation.

For disk space requirements, see [OTMQ 12c Release 1 \(12.1.1\) Platform Data Sheets](#). For important disk space allocation information, see [File and Database Management and Disk Space Allocation](#).

4. Install Oracle Tuxedo Message Queue by downloading from the Oracle FTP site:
  - a. Download the Oracle Tuxedo 12c Release 1 (12.1.1) installation file specific to your platform (Message Queue is an Oracle Tuxedo add-on product).
  - b. Go to the directory where you downloaded the installer and invoke the installation procedure by entering the following command:

```
prompt> sh filename.bin -f path/installer.properties
```

where *filename* is the name of the Oracle Tuxedo Message Queue installer file, and *path* is the full or relative pathname of the *installer.properties* file.

**Note:** If a file named *installer.properties* is present in the same directory as the installer (for example, *tuxedo81\_sol.bin*), it will be supplied automatically in silent mode. However, if *installer.properties* is in a different directory, you may use the `-f` command line option to specify the properties file. For example, *filename.exe -f path/installer.properties*

5. To verify that the software installed successfully, see [Post-Installation](#).

## UNIX Template File

This sample UNIX template file (*installer.properties*) in [Listing 12-1](#) applies to a silent installation of Oracle Tuxedo Message Queue 12c Release 1 (12.1.1).

## Listing 12-1 UNIX installer.properties Template File

---

```
INSTALLER_UI=silent
### Locale ###
USER_LOCALE=en
### Oracle Home Directory ###
ORACLEHOME=/home/user/oracle/otmq12c
### Product Installation Directory ###
USER_INSTALL_DIR=/home/user/oracle/otmq12c1
### LDAP Service Name ###
LDAP_HOSTNAME=pcwiz.mydomain.com
### LDAP PortID ###
LDAP_PORTID=389
### LDAP BaseObject ###
LDAP_BASE_OBJECT="o=beasys.com"
### LDAP Filter File Location ###
LDAP_FILTER_FILE=/home/user/oracle/otmq12c/udataobj/security/
bea_ldap_filter.dat
### Tlisten Password ###
TLISTEN_PASSWORD=luckluck
### Valid Install Sets, select one:###
### CHOSEN_INSTALL_SET=Stdalone###
### CHOSEN_INSTALL_SET=Addon###
### NOTE: Spaces should not be included after the install set name. ###
### If there are spaces after the install set name, the installation ###
### process uses the default mode Full Install. ###
CHOSEN_INSTALL_SET=Stdalone
### Install Samples Y/N###
INSTALL_SAMPLES=Yes
```

---

## What Do I Do Next?

After the successful installation, you can run samples to verify if the software is installed correctly, or uninstall the software. For more information, see [Post-Installation](#).

# Post-Installation

The following sections describe the tasks you perform after installing Oracle Tuxedo:

- [Running Samples to Verify Your Installation](#)
- [Uninstalling Oracle Tuxedo Message Queue](#)
- [Reinstalling Oracle Tuxedo Message Queue](#)

## Running Samples to Verify Your Installation

One of the ways to verify that your Oracle Tuxedo Message Queue software is installed correctly is to run one or more of the sample applications included with the installation. The `simpqapp` application is a non-distributed application, meaning that it runs on a single machine. It is designed so that it can be up and running within minutes after the Oracle Tuxedo Message Queue software is installed.

The `simpqapp` sample consists of a queue server `TuxMsgQ` offering the queue service, and three clients: `enqclt`, `deqclt` and `filter`.

The `enqclt` client attaches the queue `QSPACE.QUEUE1` and enqueues one message into the queue `QSPACE.QUEUE2`.

The `deqclt` client attaches the queue `QSPACE.QUEUE2` and dequeues the message from the `enqclt` client.

The `filter` client demo illustrates how to use the simple filter and complex filter to dequeue messages from the queue.

QSPACE is the queue space name and is advertised as a service by queue server TuxMsgQ. QUEUE1 and QUEUE2 are the queues in queue space QSPACE.

## Running simpapp

On a UNIX system, it can be found in the directory `$TUXDIR/samples/OTMQ/simpqapp`.

**Note:** Samples are not installed unless they are selected to be installed during Tuxedo Message Queue installation. The procedure presented in the following section is also provided in the `README.txt` file in the `simpqapp` directory.

To configure and run the sample on a UNIX system, do the following steps:

1. Log in to the target machine

2. Change to the directory where the OTMQ is installed.

```
cd $TUXDIR
./tux.env
```

3. Modify the environment variables `IPCKEY` or `QIPCKEY` in `samples/OTMQ/simpqapp/setenv.sh` if there is a conflict with other application.

4. Set the environment

```
cd $TUXDIR/samples/OTMQ/simpqapp
. ./setenv.sh
```

5. Compile and run `simpqapp`

```
sh runme.sh
```

This command is a script that builds the client, create the `QUEUE` and transaction log, boot the application, run the client, and then remove everything. Once this script has been run successfully, it may be instructive to run each command individually outside of the script. If the script not report Error, it means success.

## Uninstalling Oracle Tuxedo Message Queue

Uninstalling Oracle Tuxedo12c Release 1 (12.1.1), 11.0, 10.0, 9.1, 9.0, 8.1 or 8.0 does not remove the Oracle Home directory associated with the installation but does remove all Oracle Tuxedo components installed by the installer program. The uninstallation also removes the product directory associated with the installation unless one of the following is true:



- The product directory contains customer-created configuration or application files—the uninstallation does not delete customer-created configuration or application files.
- The uninstall was invoked from within the product directory structure—specifically, within the `uninstaller` directory.

To uninstall Oracle Tuxedo 12c Release 1 (12.1.1), complete the procedures for the appropriate platform, provided in [Table 5-1](#). To uninstall Oracle Tuxedo 9.1 or 10.0, substitute “Tuxedo 9.1 or 10.0” for “Tuxedo 12c Release 1 (12.1.1)” in [Table 5-1](#).

Table 5-1 Uninstall Oracle Tuxedo

To Uninstall Oracle Tuxedo on This Platform	Perform the Following Procedure . . .
...	
UNIX	<ol style="list-style-type: none"> <li>1. Shut down any Oracle Tuxedo servers that are running. For instructions on using the <code>tmshutdown</code> command to shut down Oracle Tuxedo applications, see reference page <code>tmshutdown(1)</code> in the <a href="#">Oracle Tuxedo Command Reference</a>.</li> <li>2. Go to the <code>tux_prod_dir/uninstaller</code> directory, where <code>tux_prod_dir</code> represents the product directory in which you installed the Oracle Tuxedo software.</li> <li>3. Choose one of two methods for uninstalling the software: <ul style="list-style-type: none"> <li>– To use the GUI-mode installation program, go to step 4.</li> <li>– To use the console-mode procedure, go to step 5.</li> </ul> </li> <li>4. (GUI-mode method) Enter the <code>sh Uninstall_Tuxedo_12c</code> command at the prompt. In the Uninstaller window, click Uninstall to start the uninstall program, then click Exit in the Uninstall Complete window to complete the uninstallation.</li> <li>5. (Console-mode method) Enter the <code>sh Uninstall_Tuxedo_12c -i console</code> command at the prompt. When the uninstall process is complete, press Enter to exit the uninstaller.</li> </ol>

## Reinstalling Oracle Tuxedo Message Queue

When you start the Oracle Tuxedo Installation program on system that already has a copy of Oracle Tuxedo installed, the installation program detects the existing Oracle Tuxedo home directory and asks if you want to:

- Copy the new installation directory over the existing one

- Create a new installation directory

[Table 5-2](#) shows the reinstallation screen.

**Table 5-2 Reinstalling Oracle Tuxedo Message Queue**

Click . . .	To . . .
Continue	Close the warning window and continue with the installation. This option overwrites the previous installation.
Cancel	Return to the Choose Oracle Home Directory window. To continue installing the software using a different Oracle Home directory, select an existing Oracle Home directory that does not contain the release 12c Release 1 (12.1.1) software or create a new Oracle Home directory.
Exit	Exit the installation program and uninstall the previous installation. You can invoke the uninstall program as described in <a href="#">“Uninstalling Oracle Tuxedo Message Queue”</a> on page 5-2, and reinstall the software as described in one of the following: <ul style="list-style-type: none"> <li>• <a href="#">“Installing OTMQ Using GUI-Mode Installation”</a> on page 10-1</li> <li>• <a href="#">“Installing OTMQ on UNIX Systems Using Console-Mode Installation”</a> on page 11-1</li> <li>• <a href="#">“Installing OTMQ Using Silent Installation”</a> on page 12-1</li> </ul>

# OTMQ 12c Release 1 (12.1.1) Platform Data Sheets

[Table A-1](#) lists Oracle Tuxedo Message Queue 12c Release 1 (12.1.1.) supported Oracle Tuxedo 12c Release 1 (12.1.1) platforms. For more information, see [Oracle Tuxedo 12c Release 1 \(12.1.1\) Platform Data Sheets](#).

Table A-1 Oracle OTMQ 12c Release 1 (12.1.1) Supported Tuxedo Platforms

Platform	GA Port/ Post-GA Port & Certification	Release Date	OS EOL Date
<p>IBM AIX 6.1 (64-bit) on IBM PowerPC</p> <p><b>Note:</b> For all OMTQ install sets and components, 347 MB is the minimum disk space requirement for installation on IBM AIX 6.1 (64-bit) IBM PowerPC systems. This requirement assumes installation of the default components for the selected install set. The temporary storage space has the same requirement also.</p>	GA	2012.06.29	TBD
<p>IBM AIX 7.1 (64-bit) on IBM PowerPC</p> <p><b>Note:</b> For all OMTQ install sets and components, 347 MB is the minimum disk space requirement for installation on IBM AIX 6.1 (64-bit) IBM PowerPC systems. This requirement assumes installation of the default components for the selected install set. The temporary storage space has the same requirement also.</p>	GA	2012.06.29	TBD

Table A-1 Oracle OTMQ 12c Release 1 (12.1.1) Supported Tuxedo Platforms

Platform	GA Port/ Post-GA Port & Certification	Release Date	OS EOL Date
<p>Microsoft Windows 2008 R2 Server (64-bit) on x86-64 with MS Visual Studio 2010</p> <p><b>Note:</b> For all OTMQ install sets and components, 340 MB is the minimum disk space requirement for installation on Microsoft Windows 2008 R2 Server (64-bit) on x86-64 systems. This requirement assumes installation of the default components for the selected install set. The temporary storage space has the same requirement also</p>	Post-GA	2014.08.29	TBD
<p>Novell Suse Linux ES 11 on 64-bit x86-64</p> <p><b>Note:</b> For all OTMQ install sets and components, 236 MB is the minimum disk space requirement for installation on Novell Suse Linux ES 11 (64-bit) systems. This requirement assumes installation of the default components for the selected install set. The temporary storage space has the same requirement also.</p>	GA	2012.06.29	TBD

Table A-1 Oracle OTMQ 12c Release 1 (12.1.1) Supported Tuxedo Platforms

Platform	GA Port/ Post-GA Port & Certification	Release Date	OS EOL Date
<p>Oracle Enterprise Linux 5.6 (64-bit) on x86-64</p> <p><b>Note:</b> For all OTMQ install sets and components, 236 MB is the minimum disk space requirement for installation on Oracle Linux 5.6 (64-bit) systems. This requirement assumes installation of the default components for the selected install set. The temporary storage space has the same requirement also.</p>	GA	2012.06.29	TBD
<p>Oracle Linux 5.6 (64-bit) on Exalogenic 2.0</p> <p><b>Note:</b> For all OTMQ install sets and components, 236 MB is the minimum disk space requirement for installation on Oracle Linux 5.6 (64-bit) systems. This requirement assumes installation of the default components for the selected install set. The temporary storage space has the same requirement also</p>	GA	2012.06.29	TBD
<p>Oracle Solaris 10 and 11(64-bit) on x86-64</p> <p><b>Note:</b> For all OTMQ install sets and components, 325 MB is the minimum disk space requirement for installation on Oracle Solaris 10 and 11 (64-bit) x86_64 systems. This requirement assumes installation of the default components for the selected install set. The temporary storage space has the same requirement also.</p>	GA	2012.06.29	TBD

Table A-1 Oracle OTMQ 12c Release 1 (12.1.1) Supported Tuxedo Platforms

Platform	GA Port/ Post-GA Port & Certification	Release Date	OS EOL Date
<p>Oracle Solaris 10 and 11 (64-bit) on SPARC</p> <p><b>Note:</b> For all install sets and components, 304 MB is the minimum disk space requirement for installation on Oracle Solaris 10 and 11 (64-bit) SPARC systems. This requirement assumes installation of the default components for the selected install set. The temporary storage space has the same requirement also.</p>	GA	2012.06.29	TBD
<p>Red Hat Enterprise Linux 5.6 (64-bit OS) on x86-64</p> <p><b>Note:</b> For all OTMQ install sets and components, 236 MB is the minimum disk space requirement for installation on Red Hat Linux Enterprise AS 5.6 (64-bit) systems. This requirement assumes installation of the default components for the selected install set. The temporary storage space has the same requirement also</p>	GA	2012.06.29	TBD

