

Oracle® Tuxedo

Mainframe Adapter for SNA Installation Guide



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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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Oracle Tuxedo Mainframe Adapter for SNA Installation Guide, Release 22c

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1

Preparing to Install the Oracle Tuxedo Mainframe Adapter for SNA

The following sections provide information that you require to know prior installing the Oracle Tuxedo Mainframe Adapter for SNA 22c Release 1 (22.1.0.0.0) product software:

- [Oracle Universal Installer \(OUI\)](#)
- [Determining Your Configuration](#)
- [Oracle Tuxedo Mainframe Adapter for SNA Components](#)
- [Hardware and Software Prerequisites](#)
- [Installing the Prerequisite Software](#)
- [Oracle Installation Program](#)
- [Installation Road Map](#)

1.1 Oracle Universal Installer (OUI)

The Oracle Tuxedo Mainframe Adapter for SNA 22c Release 1 (22.1.0.0.0) product software installer is based on the Oracle Universal Installer (OUI). To install the Oracle Tuxedo Mainframe Adapter for SNA 22c Release 1 (22.1.0.0.0) product software on your host, you must know how to use OUI to install Oracle products. For more information, see [Introduction to Oracle Universal Installer](#).

- [Modes of Installation](#)
- [Installation Media](#)
- [Special Instructions for UNIX Users](#)
- [About Oracle Universal Installer Log Files](#)
- [Oracle Internationalization](#)

1.1.1 Modes of Installation

You can use OUI to install Oracle products in any of the two following modes:

Interactive:

Use OUI interactive mode to use the graphical user interface to walk through the installation, providing information in the installation dialogs when prompted. This method is most useful when installing a small number of products in different setups on a small number of hosts.

Silent:

Use OUI silent installation mode to bypass the graphical user interface and supply the necessary information in a response file. This method is most useful when installing the same product multiple times on multiple hosts. By using a response file, you can automate the installation of a product for which you know the installation parameters.

1.1.2 Installation Media



Note:

When you invoke `runInstaller.sh` (UNIX), you should invoke it from the directory where this command is present, or you must specify the complete path to `runInstaller.sh` (UNIX).

1.1.3 Special Instructions for UNIX Users

The following sections describe special instructions that apply when you are installing certain products on a UNIX system.

- [Failed to Connect to Server Error](#)
- [Providing a UNIX Installer Location with Root Privileges](#)
- [Providing a UNIX Group Name](#)

1.1.3.1 Failed to Connect to Server Error

If you receive an `Xlib` error or a "Failed to connect to Server" error when you are running OUI on the Solaris operating system, do the following:

1. Define the following environment variable on the host computer where you are running OUI:

```
%setenv DISPLAY <machine name>:0.0
```

2. Replace `<machine name>` with the name of the computer that will display OUI.
3. On the computer that will display OUI, enter the following command, which allows other computers to display information on the computer monitor: `%xhost +`
4. Rerun the `runInstaller.sh` script after you have set the `DISPLAY` environment variable.



Note:

You can run OUI without specifying the `DISPLAY` variable by running in silent mode using a response file.

1.1.3.2 Providing a UNIX Installer Location with Root Privileges

You must have root privileges to perform various UNIX installation operations. For example, you must have root privileges to be able to create the OUI inventory.

If you are installing OUI for the first time, you are prompted to run a shell script from another terminal window before proceeding with the installation. OUI prompts you to run `root.sh` after installation completes only if the script is required to run as root

before configuration assistants are run. Otherwise, you are prompted to run `root.sh` as root later.

**Note:**

When running OUI in silent mode, if `root.sh` is required prior to configuration assistants, OUI skips configuration assistants during the installation. You must run `root.sh` as root and then run the skipped configuration assistants after the silent installation is complete.

To successfully run the required shell script:

1. Leave the OUI window open and open another terminal window.
2. In the new terminal window, use the substitute user command to log in with root privileges: `su -root`
3. Change directory to the Oracle home into which you are currently installing your Oracle software product.
4. Run the shell script `./root.sh`.
5. When the script is finished and you are returned to the command prompt, exit from the new terminal window and return to OUI to continue installation.

**Note:**

Do not exit the installation to run the shell script. Exiting the installation removes this script. You are prompted to run the script only the first time you install.

1.1.3.3 Providing a UNIX Group Name

If you are installing a product on a UNIX system, the Installer also prompts you to provide the name of the group that owns the base directory.

You must choose a UNIX group name that has permissions to update, install, and remove Oracle software. Members of this group must have write permissions for the chosen base directory.

Only users who belong to this group are able to install or remove software on this host.

1.1.4 About Oracle Universal Installer Log Files

When you install or deinstall products using OUI, important information about each installation is saved not only in the inventory, but also in a series of log files, located in the following directory:

```
$ORACLE_HOME/cfgtoollogs
```

You can use these log files to troubleshoot installation problems. These files are also crucial for removing and configuring the various software components you install on your UNIX computer. OUI displays the name and location of the current session log file on the Install

page. Each installation or configuration utility provides a separate folder containing the logs inside the `$ORACLE_HOME/cfgtoollogs` folder.



Note:

The logs used to remove products are different from the `installActions<timestamp>.log` generated during the install process. The `installActions<timestamp>.log` is easier to read and can be used to view the operations performed at installation time.

1.1.5 Oracle Internationalization

- [Installation Dialogs Language](#)

1.1.5.1 Installation Dialogs Language

OUI runs in the operating system language. OUI uses the language that Java detects, the system locale value, and sets that to the default language. OUI dialogs are displayed in this language if available. If specific OUI dialogs are not translated in the language of the operating system, these dialogs are shown in English.

OUI displays the translated GUI only if the variable `NLS_ENABLED` has been set to `TRUE` in the `oraparam.ini` file. If the `NLS_ENABLED` variable is set to `FALSE`, all text is shown in English.



Note:

The dialogs displayed for internationalization can only be customized parts; some of them are embedded in OUI.

1.2 Determining Your Configuration

You must consider configuration as you prepare to install the TMA SNA software. The normal TMA SNA environment includes two properly configured components: the Tuxedo Mainframe Adapter for SNA Gateway and the Communications Resource Manager (CRM). The type of network connectivity you are working with determines which type of CRM installation and configuration is required.

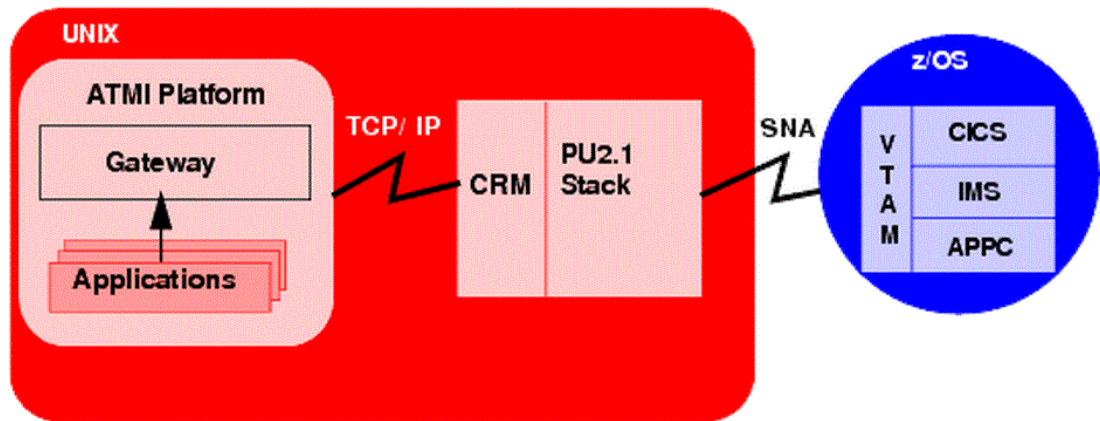
When the Tuxedo Mainframe Adapter for SNA Gateway and CRM are installed on the same machine with the CRM configured as a Tuxedo server, the installation is referred to as a local (combined) configuration. When these components are installed on different UNIX, or mainframe platforms, the installation is referred to as a distributed (or remote) configuration. The diagrams in the following sections show examples of the TMA SNA components in three types of configurations.

- [Local Configuration](#)
- [Distributed Configurations](#)

1.2.1 Local Configuration

Local configuration consists of the application, which is the Tuxedo Mainframe Adapter for SNA Gateway and the CRM with the necessary libraries needed to communicate with the stack on the same UNIX platform. This configuration uses the IBM proprietary SNA protocol for transactions with the mainframe via the stack. This configuration requires a one-to-one relationship between the local Tuxedo Mainframe Adapter for SNA Gateway and the CRM.

Figure 1-1 Local Configuration

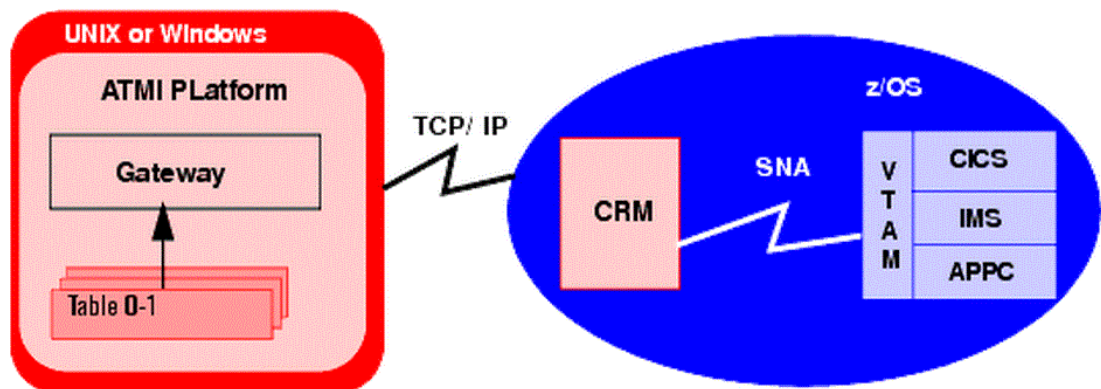


1.2.2 Distributed Configurations

In a distributed configuration, the CRM is installed on a different platform than the Tuxedo Mainframe Adapter for SNA Gateway and applications.

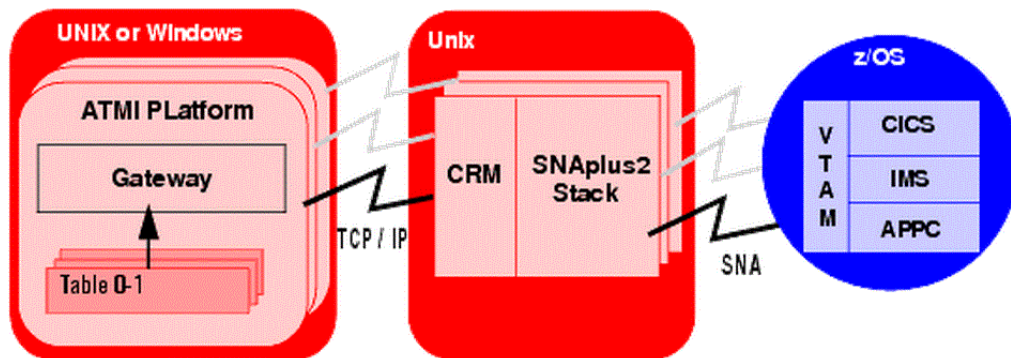
One type of distributed configuration separates applications and the Tuxedo Mainframe Adapter for SNA Gateway from the CRM by installing the CRM to the z/OS mainframe. This configuration eliminates the need for a third-party stack on the UNIX machine. This configuration requires a one-to-one relationship between the local Tuxedo Mainframe Adapter for SNA Gateway and the remote CRM.

Figure 1-2 Distributed Configuration



Another type of distributed configuration separates applications and the Tuxedo Mainframe Adapter for SNA Gateway from the CRM on different UNIX-based platforms. This configuration uses Transmission Control Protocol/Internet Protocol (TCP/IP) connectivity between the TMA SNA Gateway and the CRM, as well as the SNA connectivity to the mainframe environment(s). This configuration provides the flexibility to deploy the ATMI platform separately from the CRM in installations that require the ATMI platform on an operating system other than the one on which the SNA stack is running. This configuration also requires a one-to-one relationship between the local Tuxedo Mainframe Adapter for SNA Gateway and the remote CRM.

Figure 1-3 Alternate Distributed Configuration



1.3 Oracle Tuxedo Mainframe Adapter for SNA Components

Oracle Tuxedo Mainframe Adapter for SNA 22c Release 1 (22.1.0.0.0) contains the following components:

- Oracle Tuxedo Mainframe Adapter for SNA Gateway
The component that contains the Oracle Tuxedo Mainframe Adapter for SNA Gateway files.
- Oracle Tuxedo Mainframe Adapter for SNA CRM (Only supported on certain platforms)
The component that contains the Oracle Tuxedo Mainframe Adapter for SNA CRM files.

1.4 Hardware and Software Prerequisites

The Oracle Tuxedo Mainframe Adapter for SNA 22c must be installed into an Oracle Home which has already installed Oracle Tuxedo 22c Release 1 (22.1.0.0.0) server component, and Oracle Tuxedo 22c RP006 or above is required.

- [System Requirements](#)
- [Temporary Storage Space Requirements](#)
- [Requirements for Other Components](#)

1.4.1 System Requirements

Oracle Tuxedo Mainframe Adapter for SNA 22c Release 1 (22.1.0.0.0) must be installed on a supported OS version for the given platform. Refer to [#unique_33](#) for the supported platforms.

1.4.2 Temporary Storage Space Requirements

The Oracle Installation program uses a temporary directory in which it extracts the files from the archive that are needed to install Oracle Tuxedo Mainframe Adapter for SNA on the target system. During the installation process, your temporary directory must contain sufficient space to accommodate the compressed Java Runtime Environment (JRE) bundled with the installer and an uncompressed copy of the JRE that is expanded into the temporary directory. The installation program moves the JRE from the temporary directory to the *Oracle Home directory* at the end of the installation process. For information about the Oracle Home directory, see [Installation Road Map](#).

By default, the installation program uses the temporary directories shown in the following table.

Table 1-1 Temporary Directories

Platform	Directory
UNIX	/tmp

To ensure there is adequate temporary space, you may want to allocate an alternate directory for use as a temporary directory for the installation. To do so, perform the appropriate step in the following table and clean up files as more as possible in the temporary directory before starting the Oracle Installation program.

Table 1-2 Perform This Step

On This Platform...	Perform This Step...
UNIX	Enter the following command at the shell prompt: <code>export IATEMPDIR=tmpdirname</code> Replace <code>tmpdirname</code> with the name of a temporary directory of your choice.

1.4.3 Requirements for Other Components

Whether your TMA SNA software is installed on UNIX, or a mainframe, make sure your system meets the appropriate requirements and that supporting software is operating correctly. The following sections describe mainframe and non-mainframe requirements, and verification of supporting software installations.

 **Note:**

Because TMA SNA interacts with mainframe applications, involve your mainframe system support personnel early in the process of planning and installing your TMA SNA software. Different individuals may be responsible for Multiple Virtual System (MVS), Virtual Telecommunications Access Method (VTAM), Information Management System (IMS), and Customer Information Control System/Enterprise Systems Architecture (CICS TS). Make sure everyone is involved.

- [Mainframe Requirements](#)
- [Non-Mainframe Requirements](#)

1.4.3.1 Mainframe Requirements

Whether the CRM component of TMA SNA is located on the mainframe environment or not, mainframe configurations affect how TMA SNA software functions. Prepare the mainframe to conduct operations within the Tuxedo Mainframe Adapter for SNA/ATMI platform environment by:

- Establishing the VTAM configuration
- Configuring the CICS TS Logical Unit (LU) by defining proper connections and sessions
- Completing cross-platform definitions for non-mainframe CRM
- Ensuring that APPC and transaction definitions exist for that environment, if using IMS or APPC/MVS

Refer to the *Oracle Tuxedo Mainframe Adapter for SNA CRM Administration Guide* for detailed information about these tasks.

1.4.3.2 Non-Mainframe Requirements

A non-mainframe environment is a UNIX machine running the TMA SNA software. The software is fully bidirectional, supporting the local system as either a client or server. This environment consists of the following components:

- Hardware, defined as any workstation and network interface supported by the required software.
- Operating system software and SNA protocol stacks (PU servers) if the CRM is not installed on the mainframe. (Refer to the *Tuxedo Mainframe Adapter for SNA Release Notes* for a complete listing.) Stack installation should also be completed and verified. Refer to vendor documentation for stack installation and verification information.
- Tuxedo ATMI platform. Refer to the *Oracle Tuxedo Mainframe Adapter for SNA Release Notes* for information on platform support.

The Tuxedo ATMI platform is not required if you are installing only the CRM on Unix.

1.5 Installing the Prerequisite Software

The following software should be installed and configured prior to installing the TMA SNA software for UNIX:

1. If you are installing the CRM on Unix:
 - a. Install a supported SNA stack on the operating system where the CRM will be installed. Validate the stack software installation, running any sample applications provided by the vendor.
 - b. Configure the supported SNA stack.

Refer to the Tuxedo Mainframe Adapter for SNA *Release Notes* for a list of supported SNA stacks.

 **Note:**

Refer to the SNA stack vendor's documentation on configuring your environment. A properly configured SNA protocol stack is required for the CRM to communicate with the mainframe application.

2. Install and configure the Tuxedo ATMI platform. Validate the software installation by running the sample applications, such as `simpapp` or `bankapp`. Refer to the corresponding product installation documentation for installation and configuration information. Some specific configuration tasks must be completed before you install TMA SNA.
3. Shut down all domain administrative and gateway servers within an application domain prior to installing TMA SNA software, particularly the following:
 - GWTDOMAIN
 - GWADM
 - DMADM

Do not run the following commands until the installation is complete:

- `dmadmin`
- `dmloadcf`
- `dmunloadcf`

1.6 Oracle Installation Program

The Oracle Tuxedo Mainframe Adapter for SNA 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 Mainframe Adapter for SNA software on UNIX systems.

- [Cancelling Installation](#)
- [Install Types](#)

1.6.1 Cancelling Installation

Clicking the “Cancel” or the “close” window button in GUI mode creates an incomplete Oracle Tuxedo Mainframe Adapter for SNA 22c Release 1 (22.1.0.0.0) installation. You will have to re-install Oracle Tuxedo Mainframe Adapter for SNA 22c Release 1 (22.1.0.0.0).

If you installed Oracle Tuxedo Mainframe Adapter for SNA 22c Release 1 (22.1.0.0.0) in a previous Tuxedo product directory, and you want to return to your original configuration, you must re-install your previous Oracle Tuxedo Mainframe Adapter for SNA version.

1.6.2 Install Types

An install type is a bundle of product software components related by function. Oracle Tuxedo Mainframe Adapter for SNA 22c Release 1 (22.1.0.0.0) offers the following install types:

- Full Installation - consists of all the Oracle Tuxedo Mainframe Adapter for SNA 22c Release 1 (22.1.0.0.0) components.
- Gateway Only Installation - consists of the following component:
 - Oracle Tuxedo Mainframe Adapter for SNA Gateway
- Distributed CRM Installation - consists of the following component:
 - Oracle Tuxedo Mainframe Adapter for SNA CRM

Note:

- Install types are supported on certain platforms only.
- The top component "Oracle Tuxedo Mainframe Adapter for SNA" and sub-component "Oracle Universal Installer" are installed for every install type.

In addition to selecting an install set during an Oracle Tuxedo Mainframe Adapter for SNA 22c Release 1 (22.1.0.0.0) installation, a user can further customize the installation by selecting (adding) or deselecting (deleting) one or more software components from the install set. Customizing is only possible for GUI-mode installation methods described in [Installing Oracle Tuxedo Mainframe Adapter for SNA Using GUI-Mode Installation](#).

1.7 Installation Road Map

You are now ready to begin your installation. To install Oracle Tuxedo Mainframe Adapter for SNA 22c Release 1 (22.1.0.0.0), see one of the following sections:

- [Installing Oracle Tuxedo Mainframe Adapter for SNA Using GUI-Mode Installation](#)
- [Installing Oracle Tuxedo Mainframe Adapter for SNA Using Silent Installation](#)

If you want to uninstall your Oracle Tuxedo Mainframe Adapter for SNA software, see [Post Installation Tasks for Oracle Tuxedo Mainframe Adapter for SNA](#).

2

Installing Oracle Tuxedo Mainframe Adapter for SNA Using GUI-Mode Installation

The following sections describe how to install Oracle Tuxedo Mainframe Adapter for SNA using graphical user interface (GUI) mode installation on UNIX systems:

- [What Is GUI-Mode Installation?](#)
- [Starting GUI-Mode Installation on a UNIX System](#)
- [Running GUI-Mode Installation](#)
- [Assigning File Ownership on a UNIX System](#)

2.1 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 systems support Java-based GUIs.



Note:

To install Oracle Tuxedo Mainframe Adapter for SNA on a UNIX system with a non-graphics console, use silent install mode.

The Oracle Tuxedo Mainframe Adapter for SNA installer program can be displayed in English or Japanese. You can set certain language-related environment variable on the target platform to specify the language displayed during the installation and the language-specific message catalog installed during the installation. If the language-related environment variable is not set or set to an unknown value, the installer program displays in English.

2.2 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 [Hardware and Software Prerequisites](#).
2. Log in to the UNIX system as the Oracle Tuxedo Mainframe Adapter for SNA administrator.
3. Ensure that you have enough free space for the Oracle Tuxedo Mainframe Adapter for SNA installation.
4. Install Oracle Tuxedo Mainframe Adapter for SNA by downloading from the Oracle Web site:

- a. Go to <http://www.oracle.com/technology/software/index.html> and download the Oracle Tuxedo Mainframe Adapter for SNA 22c Release 1 (22.1.0.0.0) installation file specific to your platform.
- b. Go to the directory where you downloaded the installer, unzip the installer file, and then go to the `Disk1\install` directory, run the `runInstaller.sh` to invoke the installation procedure.

 **Note:**

GUI mode is the default for Oracle Tuxedo Mainframe Adapter for SNA 22c Release 1 (22.1.0.0.0) 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 mode installation. For more information, see [What Is Silent Installation?](#).

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

2.3 Running GUI-Mode Installation

The Oracle Tuxedo Mainframe Adapter for SNA installer program prompts you to enter specific information about your system and configuration. For instructions on responding to the prompts during installation, see the following table.

Table 2-1 Instructions

In This Window . . .	Perform the Following Action . . .
Welcome	Click Next to proceed with the installation. You may cancel the installation at any time by clicking Cancel .
Select Installation Type	This panel is displayed for certain platforms only. Select the install type that you want installed on your system. For a detailed list of software components for each install type, see Install Types . Select an install type and then click Next to launch the Choose Oracle Home Directory window.
Specify Home Details	Name: Enter a name for the Oracle home. This name identifies the program group associated with a particular home and the Oracle services installed on this home. The Oracle home name must be between 1 to 127 characters long, and can include only alphanumeric characters and underscores. Path: Enter the full path to an Oracle home, or select an Oracle home from the drop-down list of existing Oracle homes. The Oracle home location is the directory where Oracle Tuxedo Mainframe Adapter for SNA is installed. If you enter an invalid path for Oracle Home directory, you cannot continue the installation. If the selected <code>ORACLE_HOME</code> is not empty and does not recorded in inventory, the installer will show a warning. If the selected <code>ORACLE_HOME</code> does not include Tuxedo Server component, you cannot continue the installation.

Table 2-1 (Cont.) Instructions

In This Window . . .	Perform the Following Action . . .
Sample Install Confirm	If the selected install feature sets include server component, this screen appears to confirm install the samples.
CRM Component Directory	This panel is displayed for platforms only which support CRM. Display the full path where CRM component will be installed.
Summary	<p>Click Install to start the installation.</p> <p>If previous version components are already installed, the installation program just upgrades the higher version sub-components in the same <code>ORACLE_HOME</code> by default. If you want to reinstall the same version sub-components, you can specify the value of <code>DEPENDENCY_LIST</code>. For example:</p> <pre>./runInstaller.sh -force "DEPENDENCY_LIST={"TMSNAGateway:22.1.0.0", "TMASNA CRM:22.1.0.0"}"</pre>
Install	When this panel appears, files of the selected installation type are being copied to the target installation directory.
End of Installation	Click Done to exit the installation program. If this is the first Oracle installation on a host running UNIX or Linux system software or if you do not have permissions on inventory directory, a warning message appears.

Congratulations! Your installation of the Oracle Tuxedo Mainframe Adapter for SNA software is complete!

2.4 Assigning File Ownership on a UNIX System

If you installed the Oracle Tuxedo Mainframe Adapter for SNA on a UNIX system, Oracle strongly recommends that you create a separate user account for the Oracle Tuxedo administrator and grant the Oracle TMA files ownership to that account. To change ownership of the Oracle Tuxedo Mainframe Adapter for SNA on a UNIX machine, enter the following command:

```
chown -R adm_account full_path_of_tux_prod_dir
chgrp -R adm_group full_path_of_tux_prod_dir
```

- `adm_account`: Oracle Tuxedo administrator account
- `adm_group`: Oracle Tuxedo administrator group ID
- `full_path_of_tux_prod_dir`: The full pathname of the product directory where you installed the Oracle Tuxedo Mainframe Adapter for SNA.

3

Installing Oracle Tuxedo Mainframe Adapter for SNA Using Silent Installation

The following sections describe how to install Oracle Tuxedo Mainframe Adapter for SNA using silent installation on UNIX systems:

- [What Is Silent Installation?](#)
- [Using Silent Installation: Main Steps](#)

3.1 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.

3.2 Using Silent Installation: Main Steps

- [Creating a Response File](#)
- [Installing with a Response File](#)
- [Response File Examples](#)

3.2.1 Creating a Response File

You can create a new response file, based on the installation options you select, by using the OUI record mode.

When you use record mode, OUI records the installation session to a response file. You specify the name of the response file on the command line. The recorded response file is generated immediately after the Summary page; you do not need to actually install your Oracle product to create the response file. That is, you can start the installation in Record mode and proceed through the installation options until you get to the Summary page. On the Summary Page, click **Exit** to stop the installation from proceeding with the installation. However, all the options you selected are saved in the resulting response file.

You can use the newly created response file to run identical installation sessions on other computers in your organization.

Record mode can be also used during a silent installation. In this case, the variable values specified in the original source response file will be recorded to the new response file.

The following sections describe how to use record mode on UNIX systems.

- [Using Record Mode](#)
- [Required Variables in Oracle Tuxedo Mainframe Adapter for SNA Response File](#)

- [Oracle Tuxedo Mainframe Adapter for SNA Specific Variables](#)

3.2.1.1 Using Record Mode

To record a new response file:

1. At the command prompt, use the `cd` command to change to the directory that contains the OUI executable file (`runInstaller.sh`) for your installation.
2. Enter the following command:
On UNIX:

```
./runInstaller.sh -record -destinationFile <response_file_name>
```

Replace the `<response_file_name>` with the complete path for the new response file. For example:

On UNIX:

```
./runInstaller.sh -record -destinationFile  
/private/temp/tmasna_linux_silent.rsp
```

3. Use the OUI user interface to select and record your installation options.

When OUI displays the Summary page, you can either continue with the installation or exit.

OUI saves your new response file using the path and file name you specified on the command line.

3.2.1.2 Required Variables in Oracle Tuxedo Mainframe Adapter for SNA Response File

The variables defined in this section are specific for Tuxedo installer.



Note:

For String type variables, you must contain the value using the double quote.

- [RESPONSEFILE_VERSION](#)
- [ORACLE_HOME](#)
- [ORACLE_HOME_NAME](#)
- [DEPENDENCY_LIST](#)

3.2.1.2.1 RESPONSEFILE_VERSION

The format version number of response file.

3.2.1.2.2 ORACLE_HOME

The location where products are to be installed. You must enter a value for `ORACLE_HOME` for a complete silent installation.

3.2.1.2.3 ORACLE_HOME_NAME

The name of the current Oracle home. You must enter a value for `ORACLE_HOME_NAME` for a complete silent installation.

3.2.1.2.4 DEPENDENCY_LIST

List of dependents that need to be installed along with this product.

Example:

```
DEPENDENCY_LIST={"TMSNAGateway:22.1.0.0.0", "TMSNACRM:22.1.0.0.0"}
```

3.2.1.3 Oracle Tuxedo Mainframe Adapter for SNA Specific Variables

- [INSTALL_TYPE](#)
- [SAMPLE_INSTALLED](#)

3.2.1.3.1 INSTALL_TYPE

Component installation type. It is required. The value can be `Full`, `Gateway Only`, and `Distributed CRM`.

For more information, see [Install Types](#).

3.2.1.3.2 SAMPLE_INSTALLED

If the install samples for TMA products set it to true. It is required.

3.2.2 Installing with a Response File

Many Oracle software products provide tools and procedures for running OUI from the command line without displaying OUI screens or responding to questions during the installation.

This is called silent installation.

Instead of prompting you to select a series of installation options, OUI installs the software using a predefined set of options. These options are stored in a response file (`.rsp`).

 **Note:**

If you attempt to perform a silent installation on a UNIX computer where no Oracle products have been installed, you will receive an error message. Before you can perform a silent installation in this situation, you must first run the `oraInstRoot.sh` script located in the `/oraInventory` directory. You must run this script with root privileges. This enables OUI to set up the Central Inventory on a clean host.

- [Specifying a Response File](#)
- [Optional Parameters When Specifying a Response File](#)

3.2.2.1 Specifying a Response File

To start OUI and specify the response file, enter the following command on the command line in the directory where the executable file is installed:

On UNIX:

```
./runInstaller.sh -responseFile <filename> <optional_parameters>
```

 **Note:**

- To install Oracle Tuxedo Mainframe Adapter for SNA in complete silent mode, you must specify `<optional_parameters>` to `-silent`.
- You must specify the complete `responseFile` path. If you do not, OUI assumes the location is relative to the `oraparam.ini` file associated with the launched OUI.

For help on command line usage, enter the following on the command line in the directory where the executable file is stored:

On UNIX:

```
./runInstaller.sh -help
```

3.2.2.2 Optional Parameters When Specifying a Response File

Optional parameters you can use with the `-responseFile` flag are:

- `-nowelcome` - Use the `-nowelcome` flag with the `-responseFile` flag to suppress the Welcome dialog that appears during installation.
- `-silent` - Use the `-silent` flag with the `-responseFile` flag to run OUI in complete silent mode. Note that the Welcome dialog is suppressed automatically.
- `-force` - Use the `-force` flag with the `-responseFile` flag to suppress the dialog when specifying a new folder for `ORACLE_HOME`.

- `-waitforcompletion` - Use the `-waitforcompletion` flag with `-silent` flag to wait for completion instead of spawning the java engine and exiting.

For example, on a UNIX machine, enter:

```
./runInstaller.sh -responseFile /tma/tmasna_linux_silent.rsp -silent
```

 **Note:**

- Using the `-nowelcome` option with the `-silent` option is unnecessary since the Welcome screen does not appear when you use the `-silent` option.
- If the `ORACLE_HOME` is not empty, use the `-force` option to overwrite it; otherwise, you will get the following error message:

```
SEVERE:OUI-10029:You have specified a non-empty directory to
install this product. It is recommended to specify either an empty
or a non-existent directory. You may, however, choose to ignore
this message if the directory contains Operating System generated
files or subdirectories like lost+found.
```

3.2.3 Response File Examples

The following listing 3-1 and Listing 3-2 show response file examples that apply to a silent installation of Oracle Tuxedo Mainframe Adapter for SNA 22c Release 1 (22.1.0.0.0).

Listing Example - A Brief Response File

```
RESPONSEFILE_VERSION=2.2.1.0.0
ORACLE_HOME="/home/test/OraHome_1"
ORACLE_HOME_NAME="OUIHome1"
INSTALL_TYPE="Full"
SAMPLES_SELECT=true
```

Listing Example - A Complete Response File

```
#####
##
## Specify values for the variables listed below to customize ##
## your installation. ##
## ##
## Each variable is associated with a comment. The comment ##
## identifies the variable type. ##
## ##
## Please specify the values in the following format: ##
## ##
##      Type      Example ##
##      String    "Sample Value" ##
##      Boolean   True or False ##
##      Number    1000 ##
```

```

##          StringList      {"String value 1","String Value 2"}      ##
##
## The values that are given as <Value Required> need to be          ##
## specified for a silent installation to be successful.              ##
##                                                                    ##
##                                                                    ##
## This response file is generated by Oracle Software                ##
## Packager.                                                          ##
#####

RESPONSEFILE_VERSION=2.2.1.0.0
#-----
---
-----
#Name          : UNIX_GROUP_NAME
#Datatype      : String
#Description   : Unix group to be set for the inventory directory. Valid
only
in Unix platforms.
#Example: UNIX_GROUP_NAME = "install"
#-----
---
-----
UNIX_GROUP_NAME="dba"

#-----
---
-----
#Name          : FROM_LOCATION
#Datatype      : String
#Description: Complete path to the products.xml.
#Example: FROM_LOCATION = "../stage/products.xml"
#-----
---
-----
FROM_LOCATION="/home/Disk1/stage/products.xml"

#-----
---
-----
#Name          : FROM_LOCATION_CD_LABEL
#Datatype      : String
#Description: This variable should only be used in multi-CD
installations.
It includes the label of the compact disk where the file
"products.xml"
exists. The label can be found in the file "disk.label" in the same
directory
as products.xml.
#Example: FROM_LOCATION_CD_LABEL = "CD Label"
#-----

```

```
---
-----
FROM_LOCATION_CD_LABEL=<Value Unspecified>

#-----
-----
#Name      : ORACLE_HOME
#Datatype  : String
#Description: Complete path of the Oracle Home.
#Example: ORACLE_HOME = "/home/Oracle1"
#-----
-----
ORACLE_HOME="/home/OraHome1"

#-----
-----
#Name      : ORACLE_BASE
#Datatype  : String
#Description : Complete path of the Oracle Base.
#Example: ORACLE_BASE = "/home/app"
#-----
-----
ORACLE_BASE=<Value Unspecified>

#-----
-----
#Name      : ORACLE_HOME_NAME
#Datatype  : String
#Description: Oracle Home Name. Used in creating folders and services.
#Example: ORACLE_HOME_NAME = "OHOME1"
#-----
-----
ORACLE_HOME_NAME="OUIHome2"

#-----
-----
#Name      : SHOW_WELCOME_PAGE
#Datatype  : Boolean
#Description: Set to true if the Welcome page in OUI needs to be shown.
#Example: SHOW_WELCOME_PAGE = false
#-----
-----
SHOW_WELCOME_PAGE=true

#-----
-----
#Name      : SHOW_CUSTOM_TREE_PAGE
#Datatype  : Boolean
#Description: Set to true if the custom tree page in OUI needs to be shown.
#Use this page to select or de-select dependencies. This page appears only
```

```
in a custom install type.
#Example: SHOW_CUSTOM_TREE_PAGE = false
#-----
---
-----
SHOW_CUSTOM_TREE_PAGE=true

#-----
---
-----
#Name      : SHOW_COMPONENT_LOCATIONS_PAGE
#Datatype  : Boolean
#Description: Set to true if the component locations page in OUI needs
to
be shown.
#This page only appears if there are products whose installed
directory can
be changed.
#If you set this to false you will prevent the user from being able to
specify alternate directories.
#Example: SHOW_COMPONENT_LOCATIONS_PAGE = false
#-----
---
-----
SHOW_COMPONENT_LOCATIONS_PAGE=true

#-----
---
-----
#Name      : SHOW_SUMMARY_PAGE
#Datatype  : Boolean
#Description: Set to true if the summary page in OUI needs to be shown.
#The summary page shows the list of components that will be installed
in
this session.
#Example: SHOW_SUMMARY_PAGE = true
#-----
---
-----
SHOW_SUMMARY_PAGE=true

#-----
---
-----
#Name      : SHOW_INSTALL_PROGRESS_PAGE
#Datatype  : Boolean
#Description: Set to true if the install progress page in OUI needs to
be
shown.
#This page shows the current status in the installation. The current
status
includes the product being installed and the file being copied.
```

```
#Example: SHOW_INSTALL_PROGRESS_PAGE = true
#-----
-----
SHOW_INSTALL_PROGRESS_PAGE=true

#-----
-----
#Name      : SHOW_REQUIRED_CONFIG_TOOL_PAGE
#Datatype  : Boolean
#Description: Set to true if the required config assistants page in OUI
needs
to be shown.
#This page shows the list of required configuration assistants that are part
of this installation.
#It shows the status of each assistant, including any failures with detailed
information on why it failed.
#Example: SHOW_REQUIRED_CONFIG_TOOL_PAGE = true
#-----
-----
SHOW_REQUIRED_CONFIG_TOOL_PAGE=true

#-----
-----
#Name      : SHOW_CONFIG_TOOL_PAGE
#Datatype  : Boolean
#Description: Set to true if the config assistants page in OUI needs to be
shown.
#This page shows the list of configuration assistants that are part of this
installation and are configured to launch automatically.
#It shows the status of each assistant, including any failures with detailed
information on why it failed.
#Example: SHOW_CONFIG_TOOL_PAGE = true
#-----
-----
SHOW_CONFIG_TOOL_PAGE=true

#-----
-----
#Name      : SHOW_RELEASE_NOTES
#Datatype  : Boolean
#Description: Set to true if the release notes of this installation need to
be shown at the end of installation.
#This dialog is launchable from the End of Installation page and shows the
list of release notes available for the products just installed.
# This also requires the variable SHOW_END_SESSION_PAGE variable to be set
to true.
#Example: SHOW_RELEASE_NOTES = true
#-----
-----
SHOW_RELEASE_NOTES=true
```

```
#-----  
---  
-----  
#Name      : SHOW_ROOTSH_CONFIRMATION  
#Datatype  : Boolean  
#Description: Set to true if the Confirmation dialog asking to run the  
root.sh script in OUI needs to be shown.  
#Valid only for Unix platforms.  
#Example: SHOW_ROOTSH_CONFIRMATION = true  
#-----  
---  
-----  
SHOW_ROOTSH_CONFIRMATION=true  
  
#-----  
---  
-----  
#Name      : SHOW_END_SESSION_PAGE  
#Datatype  : Boolean  
#Description: Set to true if the end of session page in OUI needs to  
be  
shown.  
#This page shows if the installation is successful or not.  
#Example: SHOW_END_SESSION_PAGE = true  
#-----  
---  
-----  
SHOW_END_SESSION_PAGE=true  
  
#-----  
---  
-----  
#Name      : SHOW_EXIT_CONFIRMATION  
#Datatype  : Boolean  
#Description: Set to true if the confirmation when exiting OUI needs  
to be  
shown.  
#Example: SHOW_EXIT_CONFIRMATION = true  
#-----  
---  
-----  
SHOW_EXIT_CONFIRMATION=true  
  
#-----  
---  
-----  
#Name      : NEXT_SESSION  
#Datatype  : Boolean  
#Description: Set to true to allow users to go back to the File  
Locations  
page for another installation. This flag also needs to be set to true  
in
```

```
order to process another response file (see NEXT_SESSION_RESPONSE).
#Example: NEXT_SESSION = true
#-----
-----
NEXT_SESSION=false

#-----
-----
#Name      : NEXT_SESSION_ON_FAIL
#Datatype  : Boolean
#Description: Set to true to allow users to invoke another session even if
current install session has failed. This flag is only relevant if
NEXT_SESSION is set to true.
#Example: NEXT_SESSION_ON_FAIL = true
#-----
-----
NEXT_SESSION_ON_FAIL=true

#-----
-----
#Name      : NEXT_SESSION_RESPONSE
#Datatype  : String
#Description: Set to true to allow users to go back to the File Locations
page for another installation. This flag also needs to be set to true in
order to process another response file (see NEXT_SESSION_RESPONSE).
#Example: NEXT_SESSION_RESPONSE = "nextinstall.rsp"
#-----
-----
NEXT_SESSION_RESPONSE=<Value Unspecified>

#-----
-----
#Name      : DEINSTALL_LIST
#Datatype  : StringList
#Description: List of components to be deinstalled during a deinstall
session.
#Example: DEINSTALL_LIST = {"tmabase_sna", "22.1.0.0.0"}
#-----
-----
DEINSTALL_LIST={"tmabase_sna", "22.1.0.0.0"}

#-----
-----
#Name      : SHOW_DEINSTALL_CONFIRMATION
#Datatype  : Boolean
#Description: Set to true if deinstall confirmation is needed during a
deinstall session.
#Example: SHOW_DEINSTALL_CONFIRMATION = true
#-----
-----
SHOW_DEINSTALL_CONFIRMATION=true
```

```
#-----  
---  
-----  
#Name      : SHOW_DEINSTALL_PROGRESS  
#Datatype  : Boolean  
#Description: Set to true if deinstall progress is needed during a  
deinstall  
session.  
#Example: SHOW_DEINSTALL_PROGRESS = true  
#-----  
---  
-----  
SHOW_DEINSTALL_PROGRESS=true  
  
#-----  
---  
-----  
#Name      : CLUSTER_NODES  
#Datatype  : StringList  
#Description: This variable represents the cluster node names selected  
by  
the user for installation.  
#Example: CLUSTER_NODES = {"node1","node2"}  
#-----  
---  
-----  
CLUSTER_NODES={}  
  
#-----  
---  
-----  
#Name      : ACCEPT_LICENSE_AGREEMENT  
#Datatype  : Boolean  
#Description: By setting this variable to true, you are accepting the  
license agreement. This variable is used only for silent installations.  
#Example: ACCEPT_LICENSE_AGREEMENT = true  
#-----  
---  
-----  
ACCEPT_LICENSE_AGREEMENT=false  
  
#-----  
---  
-----  
#Name      : METALINK_LOCATION  
#Datatype  : String  
#Description: This variable represents the Oracle metalink location.  
#-----  
---  
-----
```



```
METALINK_LOCATION=<Value Unspecified>

#-----
#-----
#Name      : METALINK_USERNAME
#Datatype  : String
#Description: This variable represents the Oracle metalink user name.
#-----
#-----
METALINK_USERNAME=""

#-----
#-----
#Name      : METALINK_PASSWORD
#Datatype  : String
#Description: This variable represents the corresponding Oracle metalink
password.
#-----
#-----
METALINK_PASSWORD=<Value Unspecified>

#-----
#-----
#Name      : PROXY_HOST
#Datatype  : String
#Description: The proxy host used to connect to Oracle metalink.
#Example: PROXY_HOST =
#-----
#-----
PROXY_HOST=""

#-----
#-----
#Name      : PROXY_PORT
#Datatype  : String
#Description: The proxy port used to connect to Oracle metalink.
#Example: PROXY_PORT =
#-----
#-----
PROXY_PORT=""

#-----
#-----
#Name      : PROXY_REALM
#Datatype  : String
#Description: The realm for the proxy used to connect to Oracle metalink.
#Example: PROXY_REALM =
#-----
#-----
PROXY_REALM=<Value Unspecified>
```

```
#-----  
---  
-----  
#Name      : PROXY_USER  
#Datatype  : String  
#Description: The username for the proxy used to connect to Oracle  
metalink.  
#Example: PROXY_USER =  
#-----  
---  
-----  
PROXY_USER=""  
  
#-----  
---  
-----  
#Name      : PROXY_PWD  
#Datatype  : String  
#Description: The password for the proxy used to connect to Oracle  
metalink.  
#Example: PROXY_PWD =  
#-----  
---  
-----  
PROXY_PWD=<Value Unspecified>  
  
#-----  
---  
-----  
#Name      : DONT_PROXY_FOR  
#Datatype  : String  
#Description: The dont proxy for list.  
#Example: DONT_PROXY_FOR =  
#-----  
---  
-----  
DONT_PROXY_FOR=<Value Unspecified>  
  
#-----  
---  
-----  
#Name      : TOPLEVEL_COMPONENT  
#Datatype  : StringList  
#Description: The top level component to be installed in the current  
session.  
#Example: TOPLEVEL_COMPONENT = {"tmabase_sna","22.1.0.0"}  
#-----  
---  
-----  
TOPLEVEL_COMPONENT={"tmabase_sna","22.1.0.0"}
```

```
#-----  
-----  
#Name      : SHOW_SPLASH_SCREEN  
#Datatype  : Boolean  
#Description: Set to true if the initial splash screen in OUI needs to be  
shown.  
#Example: SHOW_SPLASH_SCREEN = true  
#-----  
-----  
SHOW_SPLASH_SCREEN=true  
  
#-----  
-----  
#Name      : SELECTED_LANGUAGES  
#Datatype  : StringList  
#Description: Languages in which the components will be installed.  
#Component : tmabase_sna  
#-----  
-----  
SELECTED_LANGUAGES={"en"}  
  
#-----  
-----  
#Name      : COMPONENT_LANGUAGES  
#Datatype  : StringList  
#Description: Languages supported by this component.List of supported  
languages : {"en","ja"}  
#Component : tmabase_sna  
#-----  
-----  
COMPONENT_LANGUAGES={"en"}  
  
#-----  
-----  
#Name      : INSTALL_TYPE  
#Datatype  : String  
#Description: Installation type of the component.  
#Component : tmabase_sna  
#-----  
-----  
INSTALL_TYPE="Full"  
  
#-----  
-----  
#Name      : SAMPLES_SELECT  
#Datatype  : Boolean  
#Description: This variable save the selection whether customer want to  
install samples.  
#Component : TMASNAGateway
```

```
#-----  
---  
-----
```

```
SAMPLES_SELECT=<Value Unspecified>
```

4

Installing Oracle Tuxedo Mainframe Adapter for SNA Communications Resource Manager (CRM) on z/OS MVS Platform

This section explains how to install the CRM component on a z/OS Multiple Virtual Storage (MVS) platform.



Note:

The installation process assumes the installer is familiar with Job Control Language (JCL) job operations and File Transfer Protocol (FTP) functions.

- [Summary of Installation Tasks](#)
- [Installation Procedure](#)

4.1 Summary of Installation Tasks

The following list is a summary of the tasks detailed in [Installation Procedure](#):

- Put the JCL files in the MVS environment prior to installation using the FTP program.
- Allocate the initial datasets using one of the JCL jobs.
- FTP the product software files (TMACRM.*) to the allocated datasets.
- Run the second JCL job to allocate the final datasets.
- Run the TSO RECEIVE command to unload the data in your product datasets. A third JCL file has been provided to run this procedure in batch.

The installation for this environment is semi-automated. Three JCL files are provided to facilitate prerequisites for allocating datasets in the MVS environment and to unload Tuxedo Mainframe Adapter for SNA product software into the allocated datasets.

The product installer contains the following files relating to this installation procedure:

- README file contains notes on how to install the product in this environment. This is a summary of the procedure in this section.
- createds.jcl file is a JCL example for creating MVS datasets to receive the Tuxedo Mainframe Adapter for SNA software.
- uncmprss.jcl file is a JCL example to uncompress and unload into the product datasets.
- TMACRM.LOAD file contains the Tuxedo Mainframe Adapter for SNA program objects. (Required)
- TMACRM.DATA file contains Tuxedo Mainframe Adapter for SNA data files. (Required)
- TMACRM.SAMPLE file contains sample JCL files.

4.2 Installation Procedure

Perform the following steps to install the CRM component on a z/OS MVS platform:

1. Load the product on a machine that has File Transfer Protocol (FTP) access to the MVS UNIX directory (/mvs/ftp-unix) or MVS NT directory (/mvs.ftp-nt).

2. Use FTP to put the following JCL files in the MVS destination PDS

```
dataset:createds.jcl uncmprss.jcl
```

In your MVS environment, change the `CREATEDS` job to suit your environment. This job allocates the initial datasets needed to receive the product software files from the FTP file transfer and the SNACRM Load Library, sample and data datasets.

Use the `SET` statements in the `CREATEDS` job to set the high-level qualifiers of the receiving datasets according to the following syntax:

SET TMPPDS=[QUALIFIER]

In this statement, `[QUALIFIER]` is the high-level qualifier for initial datasets need to receive the product software files.

SET HLQPDSE=[QUALIFIER]

In this statement, `[QUALIFIER]` is the high-level qualifier for the SNACRM Load Library. The load library containing the `TMACRM.LOAD` program objects must be a Partitioned Dataset with Extended attributes (PDSE). The PDSE minimally must have storage class SMS declaration for z/OS.

SET SCLASS=[CLASS NAME]

In this statement, `[CLASS NAME]` is the storage class name of the PDSE. This is required for z/OS.

SET HLQPDS=[QUALIFIER]

In this statement, `[QUALIFIER]` is the high-level qualifier for the sample and data datasets. These are standard PDS.

The `CREATEDS` job has the following steps:

DELETE

Deletes any existing datasets previously created so you can run this JCL multiple times, if necessary.

CREATE

Allocates the initial datasets needed to receive the product software files and the SNACRM Load Library, sample and data datasets.

3. Run the `CREATEDS` job.
4. Put the files listed in the following Table into their corresponding datasets. Use the table as a worksheet and fill in the names you created in step 2. Use the worksheet as a guide for transferring the product data to the z/OS platform.

Table 4-1 MVS Installation Product Files and DD Name Datasets

Product File	Set Statement	Your Dataset Name
TMACRM.LOAD	TMPHLQ	.LOAD

Table 4-1 (Cont.) MVS Installation Product Files and DD Name Datasets

Product File	Set Statement	Your Dataset Name
TMACRM.DATA	TMPHLQ	.DATA
TMACRM.SAMPLE	TMPHLQ	.SAMPLE

Use the following Table as a worksheet to fill out the names of the datasets created for SNACRM Load Library, sample and data.

Table 4-2 Set Statements and Corresponding Datasets

Set Statement	Your Dataset Name
HLQPDSE	.LOAD
HLQPDS	.DATA
HLQPDS	.SAMPLE

- From the UNIX/NT command prompt, set binary data transfer mode using the FTP program.

 **Note:**

The following example of a `put` command: `put TMACRM.LOAD 'TMPHLQ.LOAD'`

Transfer the datasets using the `put` command.

- In your MVS environment, change the `UNCMRPS` job to suit your environment. Modify the following variables in the JCL to the high-level qualifier you listed in the tables according to the following syntax:

<PRODHQ>=[QUALIFIER]

Use the qualifier you listed in the *MVS Installation Product Files and DD Name Datasets* Table.

<BEAPDSE>=[QUALIFIER]

Use the PDSE qualifier you listed in the *Set Statements and Corresponding Datasets* Table.

<BEAPDS>=[QUALIFIER]

Use the PDS qualifier you listed in the *Set Statements and Corresponding Datasets* Table .

The `UNCMRPS` job has the following step:

UNLOAD

Performs a `TSORECEIVE` to uncompress and unload the data in your installation datasets created in step 8.

To manually perform the `TSO RECEIVE` command to unload the data in your installation datasets created in Step 8, enter a command similar to the following command:

TSO RECEIVE INDS('xxx')

When prompted, enter:

DA ('yyy')

In these statements, the following definitions apply:

xxx

Is the dataset name you listed in the *MVS Installation Product Files and DD Name Datasets* Table.

yyy

Is the corresponding dataset name you listed in the *Set Statements and Corresponding Datasets* Table.

5

Post Installation Tasks for Oracle Tuxedo Mainframe Adapter for SNA

This section provides information and step-by-step instructions for post installation tasks for Oracle Tuxedo Mainframe Adapter for SNA software (hereafter referenced as TMA SNA.)

This section includes the following topics:

- [Validating the Tuxedo Mainframe Adapter for SNA Software Installation](#)
- [Uninstalling Tuxedo Mainframe Adapter for SNA](#)

5.1 Validating the Tuxedo Mainframe Adapter for SNA Software Installation

You can validate the Tuxedo Mainframe Adapter for SNA software installation in the following ways:

- [Verifying Installation Files and Directories](#)
- [Running the Sample Applications](#)
- [Verifying Installation Files and Directories](#)
- [Running the Sample Applications](#)

5.1.1 Verifying Installation Files and Directories

The Tuxedo Mainframe Adapter for SNA software contains libraries and executable programs for each of the supported platforms as described in the tables in the following sections. After installing the Tuxedo Mainframe Adapter for SNA software, verify that these libraries and programs are installed on your system.

All directories are relative to the installation directory. Platform-specific stack abstraction libraries are included in these tables as well.

- [Tuxedo Mainframe Adapter for SNA Gateway Installation Files and Directories](#)
- [CRM Installation Files and Directories](#)
- [Tuxedo Mainframe Adapter for SNA Gateway Installation Files and Directories](#)
- [CRM Installation Files and Directories](#)

5.1.1.1 Tuxedo Mainframe Adapter for SNA Gateway Installation Files and Directories

The Tuxedo Mainframe Adapter for SNA Gateway includes the files listed in the following tables.

- Linux

5.1.1.1.1 Linux

Verify that the following files are installed for the Tuxedo Mainframe Adapter for SNA Gateway Installation:

Table 5-1 Linux Installation Files and Directories for Tuxedo Mainframe Adapter for SNA Gateway Installation

Directory	Files
bin	GWSNAX
	crmchtr
	crmdown
	crmlkoff
	crmlkon
	crmretrc
lib	libcsxcrm.so
	libctxcp_12.so
	libctxdebugs_12.so
	libctxos_12.so
	libctxplat_12.so
	libctxprim_12.so
	libgws.so
	crmmmon.jar
	libgwwq.so
locale/C	LIBGWS.text
	LIBGWS_CAT
udataobj/codepage	00819x00037
	00819x00273
	00819x00278
	00819x00280
	00819x00280
	00819x00285
	00819x00297
	00819x00500
	00819x00860
	00819x01047
	00912x00870
	none
	tuxedo

5.1.1.2 CRM Installation Files and Directories

The CRM includes the files listed in the following tables.

- Linux
- z/OS

5.1.1.2.1 Linux

Verify that the following files are installed for the Tuxedo Mainframe Adapter for SNA Distributed CRM Installation:

Table 5-2 Linux Installation Files and Directories for Distributed CRM Installation

Directory	Files
bin	CRM
	CRMLOGS
	crmchtr
	crmdown
	crmlkoff
	crmlkon
	linux.env
lib	libcsxappc.so
	libcsxcrm.so
	libcsxgpw.so
	libcsxibm60.so
	libcsxscrm.so
	libcsxxfm.so
	libctxdebugs_12.so
	libctxos_12.so
	libctxplat_12.so
	libctxprim_12.so
	libengine.so
libgpnet.so	

5.1.1.2.2 z/OS

Verify that the following files are installed for the CRM Installation:

Table 5-3 z/OS MVS Installation Files and Directories for CRM Installation

Directory	Files
DATA	ENV
LOAD	CRM
	CRMCHTR
	CRMDOWN
	CRMLKOFF
	CRMLKON
	CRMLOGS

Table 5-3 (Cont.) z/OS MVS Installation Files and Directories for CRM Installation

Directory	Files
	CSXAPPC
	CSXCRM
	CSXGPW
	CSXSCRM
	CSXVT210
	CSXXFM
	DEBUGS
	LIBGP
	LIBGP40
	LIBGPNET
	OS
	PLAT
	PRIM
	SNACRM
SAMPLE	CRMSTART
	CRMDOWN
	CRMLOGS
	CRMLKON
	CRMLKOFF
	CRMCHTR

5.1.2 Running the Sample Applications

After you install Tuxedo Mainframe Adapter for SNA, you can verify your Tuxedo Mainframe Adapter for SNA installation by running the following sample applications:

- `toupclt.c` for platforms based on UNIX

Refer to the “Verifying the Software” section of the *Oracle Tuxedo Mainframe Adapter for SNA User Guide* for more detailed information about verifying your software.

5.2 Uninstalling Tuxedo Mainframe Adapter for SNA

This section provides instructions for uninstalling Tuxedo Mainframe Adapter for SNA. The following topics are discussed:

- [Uninstalling Oracle Tuxedo Mainframe Adapter for SNA in GUI-Mode](#)
- [Uninstalling Oracle Tuxedo Mainframe Adapter for SNA in Silent Mode](#)
- [Uninstalling on z/OS Platforms](#)
- [Uninstalling Oracle Tuxedo Mainframe Adapter for SNA in GUI-Mode](#)
- [Uninstalling Oracle Tuxedo Mainframe Adapter for SNA in Silent Mode](#)
- [Uninstalling on z/OS Platforms](#)

5.2.1 Uninstalling Oracle Tuxedo Mainframe Adapter for SNA in GUI-Mode

The following steps show uninstallation process in GUI mode.

1. Invoke uninstall TMA introduction panel
Go to `<ORACLE_HOME>/oui/bin`, run `runInstaller.sh` on Unix/Linux platform. You can completely remove Oracle Tuxedo Mainframe Adapter for SNA 22c Release 1 (22.1.0.0.0) just by clicking "**Deinstall Products**".

2. Inventory panel
Select products and click **Remove** to remove those products from your system.

At the beginning, you may not see any product from Inventory panel. That is because your central inventory pointer (`/etc/oraInst.loc` or) is not set up. You will not get the installed product list unless you navigate to a couple of pages where you select the central inventory location and come back to the first page and then select **Installed products**.

 **Note:**

Do not choose "Oracle Universal Installer 12.2.0.9.0" if you just want to uninstall Oracle Tuxedo Mainframe Adapter for SNA; otherwise, all the Tuxedo components are uninstalled.

3. Confirm panel
To remove the products, click **Yes** in the Confirmation dialog. Click **No** to cancel the removal.
4. Uninstall complete panel
After uninstall finishes, this panel appears and reports whether it is successful.
5. Inventory panel
Check the product list from Inventory, finding if the product is already uninstalled successfully.

5.2.2 Uninstalling Oracle Tuxedo Mainframe Adapter for SNA in Silent Mode

Not only can you perform command line installations, you can also perform command line deinstallations. A command line deinstallation enables you to remove Oracle products or Oracle homes from your system without using the Oracle Universal Installer graphical user interface.

You can choose to display no dialog boxes or prompts, or you can selectively avoid displaying certain dialog boxes that are normally used during a deinstallation.

Use the following commands to immediately display the Inventory dialog box, which allows you to select items for removal without navigating the Oracle Universal Installer startup screen:

```
./runInstaller.sh -deinstall -silent (on UNIX)
```

If you want to hide the inventory dialog box during a deinstallation, you can specify the products to be removed in the `DEINSTALL_LIST` parameter of the response file; specify Oracle homes to be removed with the `REMOVE_HOMES` variable; specify the name of the current Oracle home name with `ORACLE_HOME_NAME`. For example, on a UNIX machine, enter:

```
./runInstaller.sh -deinstall -silent  
"DEINSTALL_LIST={"tmabase_sna","22.1.0.0"}"  
ORACLE_HOME_NAME="OUIHome2" -responseFile <response>
```



Note:

When uninstalling in silent mode, you need both `DEINSTALL_LIST` and response file.

5.2.3 Uninstalling on z/OS Platforms

To remove the Tuxedo Mainframe Adapter for SNA product from your z/OS platform, consult with your system administrator. The process for removing applications from these platforms varies, depending on your particular system setup.

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Oracle Tuxedo Mainframe Adapter for SNA Supported Platforms

The Oracle Tuxedo Mainframe Adapter for SNA 22c Release 1 (22.1.0.0.0) supports Oracle Linux (64-bit) and RHEL Linux (64-bit) on x86-64 at GA. For the Linux platforms, Tuxedo 22c (22.1.0.0.0) Rolling Patch 006 is required. For more information, see Oracle Tuxedo Mainframe Adapter for SNA Certified Platform Tables in [Oracle® Tuxedo Platform Data Sheet](#).