



BEATSAM™

Installation Guide

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Introduction

The following sections provide information that you need to know before installing BEA TSAM product software:

- [Overview](#)
- [BEA TSAM Platform Support](#)
- [BEA TSAM Installation Program](#)
- [BEA TSAM Distribution](#)
- [What Next?](#)

Overview

BEA TSAM (Tuxedo System and Application Monitor) provides comprehensive monitoring and reporting for BEA Tuxedo system and applications. It includes two components: [BEA TSAM Agent](#) and [BEA TSAM Manager](#).

The BEA TSAM agent enables collection of various performance metrics for applications, including XA and non-XA transactions, services, system servers. BEA TSAM Manager provides graphical user interface to correlate and aggregate performance metrics collected from one or more Tuxedo domains and display it in real time.

BEA TSAM Agent is supported in the following Tuxedo releases:

- Tuxedo 10.0

BEA TSAM Agent is an integral component of the Tuxedo 10.0 core installation.

- Tuxedo 9.1

BEA TSAM Agent is included in Tuxedo 9.1 Rolling Patch 075 or above.

- Tuxedo 8.1

BEA TSAM Agent is included in Tuxedo 8.1 Rolling Patch 332 or above.

BEA TSAM Manager is included in the BEA TSAM 1.1 installer. It is not mandatory to install BEA TSAM Manager on a machine running Tuxedo.

You must ensure that the BEA TSAM Agent component is properly configured on each node to be monitored in order to use in conjunction with the BEA TSAM Manager.

BEA TSAM Platform Support

For a listing of BEA TSAM-supported platforms, see [BEA TSAM 1.1 Supported Platforms](#).

BEA TSAM Installation Program

The BEA TSAM software is distributed as an installation program for Windows or UNIX systems. The BEA TSAM installation program supports three installation methods. You can use any of these methods to install the BEA TSAM product software:

- Graphical user interface (GUI) mode installation, described in “[Installing BEA TSAM Using GUI-Mode Installation](#)” on page 2-1.
- Console-mode installation, described in “[Installing BEA TSAM Using Console-Mode Installation](#)” on page 3-1.
- Silent installation, described in “[Installing BEA TSAM Using Silent Installation](#)” on page 4-1.

BEA TSAM Distribution

BEA TSAM is distributed on both the BEA Web site and DVD.

Web Distribution

An evaluation copy of BEA TSAM is available for download from the BEA corporate Web site at http://commerce.beasys.com/products/tuxedojolt/tuxedo_prod_fam.jsp. When downloading

BEA TSAM, you must also download an evaluation license, which allows you to use the BEA TSAM software for a 30-day trial period. Anytime during the 30-day trial period you may purchase a non-expiring license for your BEA TSAM product by calling or e-mailing BEA Customer Support. For BEA Customer Support contact information, go to http://www.bea.com/support/contact_cs.html.

Platform-specific installer files for the BEA TSAM product software are available for download from the BEA corporate Web site.

DVD Distribution

If you purchased BEA TSAM from your local sales representative, you will find the following items in the BEA TSAM product box:

- BEA TSAM product software DVD
- The following printed documents:
 - "Read-Me-First" card containing an overview of the product box content
 - "Customer Support Quick Reference and Other Important Information" card
 - "BEA Software License and Limited Warranty" pamphlet
 - BEA SALT Documentation Location sheet

Shortly after purchasing BEA TSAM on DVD, you will receive a non-expiring BEA TSAM product license via e-mail.

What Next?

You are now ready to begin your installation. To install BEA TSAM 1.1, see one of the following sections:

- [Installing BEA TSAM Using GUI-Mode Installation](#)
- [Installing BEA TSAM Using Console-Mode Installation](#)
- [Installing BEA TSAM Using Silent Installation](#)
- [Post BEA TSAM Installation](#)

Installing BEA TSAM Using GUI-Mode Installation

The following sections describe how to install BEA TSAM using graphical user interface (GUI) mode installation on both Windows and UNIX systems:

- [What Is GUI-Mode Installation](#)
- [Installing on Windows or UNIX Platforms in Graphics Mode](#)
- [Uninstalling BEA TSAM](#)

What Is GUI-Mode Installation

The graphical user interface mode installation is the graphics-based method of executing the BEA TSAM installation program. It can run on both Windows and UNIX systems.

To run GUI-mode installation, the computer console on which you are installing the software must support a Java-based GUI. All consoles for Windows systems support Java-based GUIs, but not all consoles for UNIX systems do.

Note: To install BEA TSAM on a UNIX system with a non-graphics console, see [“Installing BEA TSAM Using Console-Mode Installation” on page 3-1](#).

Installing on Windows or UNIX Platforms in Graphics Mode

Perform the following steps to install the BEA TSAM software on a Windows platform or on a UNIX platform in graphics mode:

1. Insert the BEA TSAM CD-ROM.
2. Do one of the following, depending on your platform:

On Windows:

- a. Choose Start→Run. The Run dialog appears.
- b. Click Browse to navigate to the CD-ROM drive root directory
Select
tsam11_32_win2k3_x86.exe
- c. Click Open.
- d. Install Anywhere runs and the Introduction screen ([Figure 2-1](#)) appears.
- e. Proceed to Step 3.

On UNIX:

- a. Log on as root to install the BEA TSAM software.

```
$ su -  
Password:
```

- b. Access the CD-ROM device.

```
> ls -l /dev/cdrom  
  
total 0  
brw-rw-rw-    1 root    sys      22,    0 July 1 10:55 c1b0t010
```

- c. Mount the CD-ROM. Mount commands vary depending on your system configuration. Refer to the platform data sheets for [Tuxedo 10.0](#), or contact your System Administrator for the specific command for your system.

- d. Change the directory to the top-level directory on your CD-ROM device. For example,

```
> cd /mnt/
```

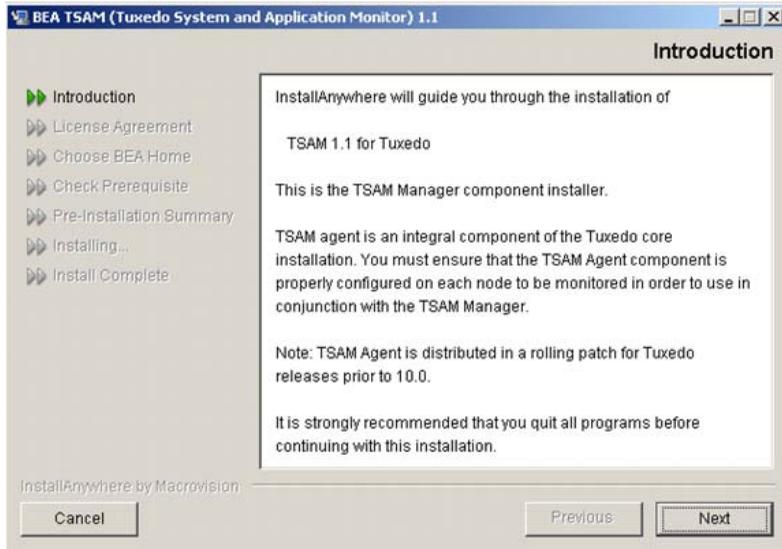
- e. List the CD-ROM contents.
- f. Execute the installation program. For example:

```
/mnt> sh tsam11_64_hpux_1123_ia.bin
```

The Introduction screen (see [Figure 2-1](#)) appears.

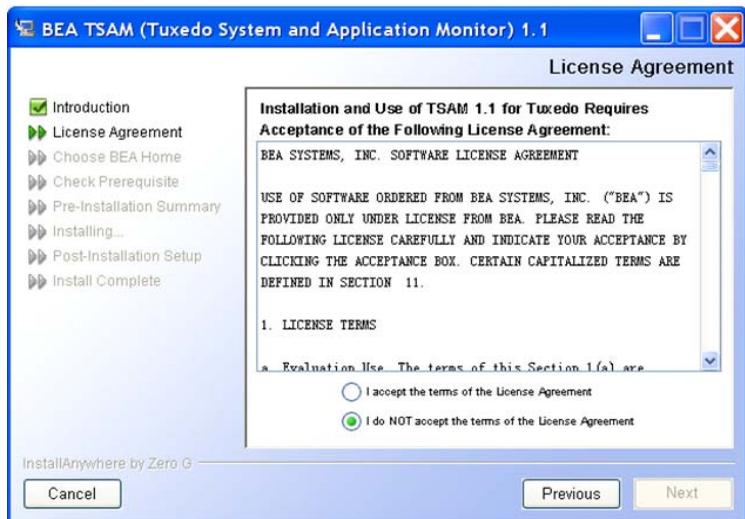
- g. Proceed to Step 3.

Figure 2-1 Introduction Screen



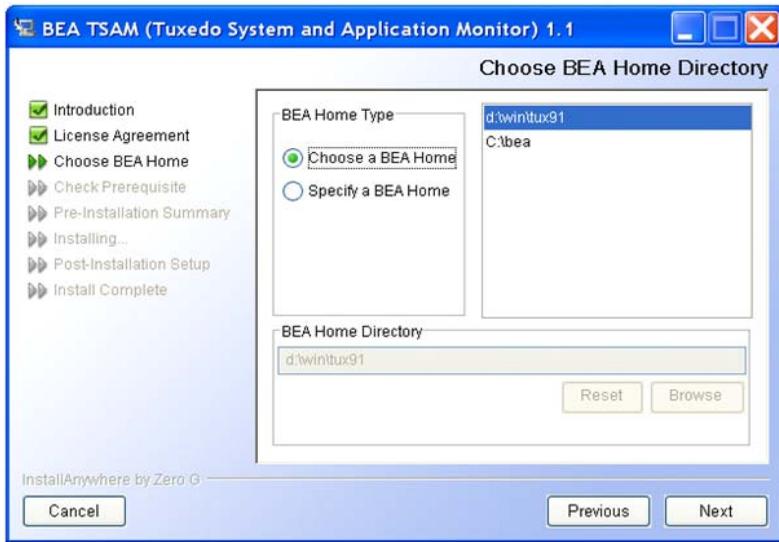
3. Click *Next* to continue with the installation. The License Agreement screen appears (Figure 2-2).

Figure 2-2 License Agreement Screen



4. Click the *Accept* option button to accept the license agreement. If you click the *Do Not Accept* option button, you will not be able to continue with the installation.
5. Click *Next* to proceed with the installation. The Choose BEA Home Directory screen appears (see [Figure 2-3](#)).

Figure 2-3 Choose BEA Home Directory Screen



You can select from the following options:

- Choose a BEA Home

Click the *Choose a BEA Home* option button if you already have one or more BEA Home directories on your system. Select a BEA Home directory from the list displayed to the right of the option buttons.

All valid BEA Home directories are displayed in this list. Valid BEA Home directories are directories where BEA products have been installed using the standard installation program.

- Specify a BEA Home

Click the *Specify a BEA Home* button to select an existing directory.

6. Click *Next* to proceed with the installation. The Check Prerequisite Result screen appears . The BEA Home directory and the TSAM sub-directory appears.

Figure 2-4 Check Prerequisite Result Screen



Click *Next* to accept the BEA Home Directory and the default BEA TSAM installation sub-directory and proceed with the installation.

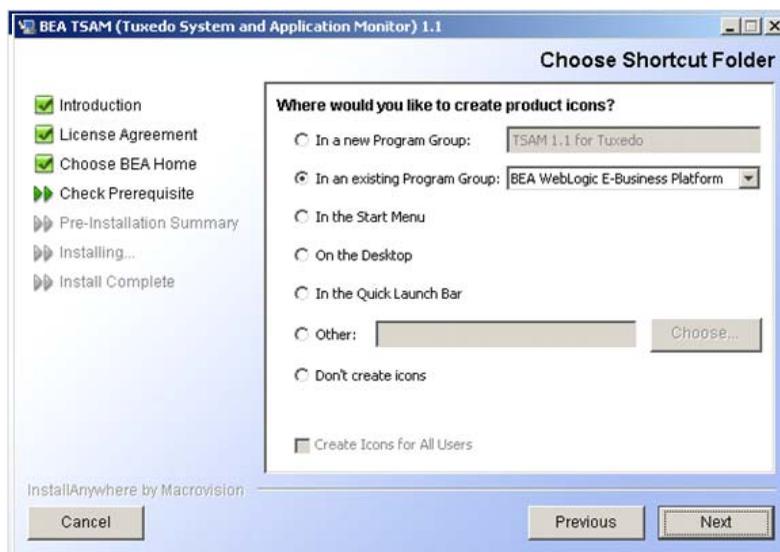
Click *Cancel* to terminate the installation process.

Notes: You can change the default BEA TSAM installation directory and enter a new one.

If an existing BEA TSAM version is detected, you are prompted to overwrite it or not. Select “yes” to overwrite the existing BEA TSAM version.

7. The Choose Shortcut Folder screen appears (see [Figure 2-5](#)).

Figure 2-5 Choose Shortcut Folder Screen (Windows only)



You can select from the following options:

- In a new Program Group
- In an existing Program Group

If you select an existing Program Group, use the drop down to select the Program Group in which to install the shortcut icons.

- In the Start Menu
- On the Desktop
- In the Quick Launch Bar
- Other

If you select Other, you should click Choose to browse to another location in which to install the shortcut icons

- Do not create icons

Note: If “In a new Program Group”, “In the Start Menu”, or “On the Desktop” buttons are selected, the “Create Icons for All Users” check box becomes active.

If the box is checked, shortcut icons are created for all users who log on to the computer. If the box is not checked, shortcut icons are created for the current logged-on user only.

Click *Next* to accept the selected option as the location to install BEA TSAM shortcuts and proceed with the installation. Click *Cancel* to terminate the installation process.

8. If the installation process continues, the Pre-Installation Summary screen appears. Review the summary information and click *Install* if the information is acceptable. The installation process continues. Click *Previous* to go back and modify any input that you want to change.
9. Upon completion, the Install Complete screen appears (Figure 2-6). Click *Done* to exit the installation program.

Figure 2-6 Install Complete Screen



Uninstalling BEA TSAM

Perform the following steps to uninstall BEA TSAM software:

Windows:

Choose Start→Programs→BEA WebLogic E-Business Platform→TSAM 1.1 for Tuxedo→Uninstall TSAM 1.1 for Tuxedo from the Start menu.

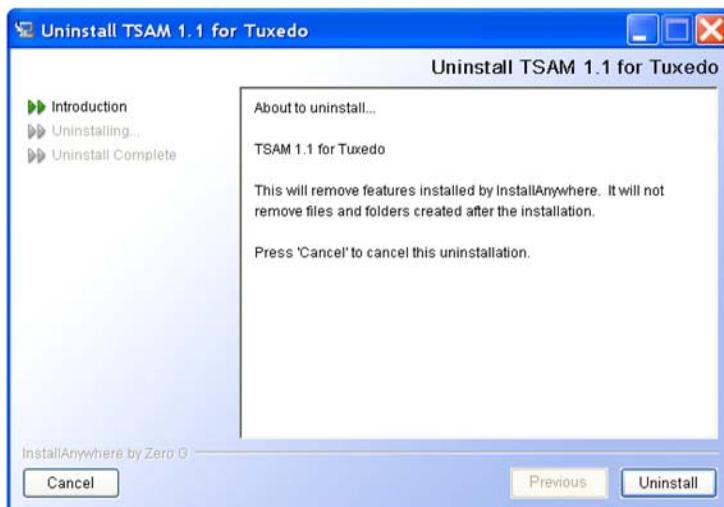
You can also uninstall via Start→Control Panel→Add or Remove Programs.

UNIX

Execute the command `$TUXDIR/uninst_tsam_1_1/Uninstall_TSAM_1.1_for_Tuxedo`

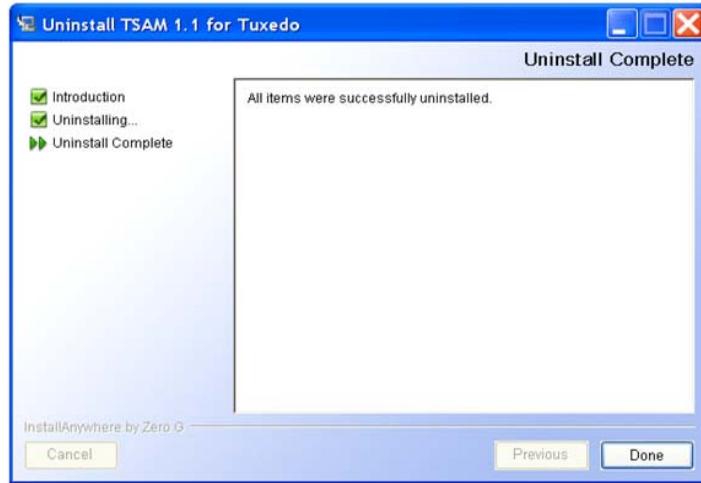
The BEA TSAM Uninstaller screen appears (Figure 2-7).

Figure 2-7 Uninstall TSAM 1.1 Screen



Click *Uninstall* to start uninstalling BEA TSAM. When the process is complete, the screen shown in Figure 2-8 is displayed.

Figure 2-8 Uninstall Complete Screen



10. Click *Done* to complete the uninstallation.

See Also

- [BEA TSAM 1.1 Supported Platforms](#)

Installing BEA TSAM Using Console-Mode Installation

The following sections describe how to install BEA TSAM using console-mode installation:

- [What Is Console-Mode Installation?](#)
- [Installing on UNIX Platforms in Console Mode](#)
- [Uninstalling BEA TSAM on UNIX Platforms in Console Mode](#)

What Is Console-Mode Installation?

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

Installing on UNIX Platforms in Console Mode

Perform the following steps to install BEA TSAM software in console mode on a certified UNIX platform:

1. Log on as root.

```
$ su -  
Password:
```

2. Execute the installation program in character-based mode by selecting the appropriate installation file for your platform. For example, for the HP-UX platform, select:

```
# sh tsam11_64_hpux_1123_ia.bin -i console
```

3. The installation program runs and prompts you for responses (see [Listing 3-1](#) for an example).

Listing 3-1 UNIX Console Mode Installation Example

```
Launching installer...

Preparing CONSOLE Mode Installation...

=====

                (created with InstallAnywhere by Zero G)

-----

=====

Introduction

-----

InstallAnywhere will guide you through the installation of TSAM 1.1 for
Tuxedo.

This is the TSAM Manager component installer.

TSAM agent is an integral component of the Tuxedo core installation. You
must ensure that the TSAM Agent component is properly configured on each
node to be monitored in order to use in conjunction with the TSAM Manager.

Note: TSAM Agent is distributed as a rolling patch for Tuxedo releases prior
to 10.0.

It is strongly recommended that you quit all programs before continuing with
this installation.
```

Respond to each prompt to proceed to the next step in the installation. If you want to change something on a previous step, type 'back'.

You may cancel this installation by typing 'quit'.

WARNING: Cancelling during the "Post-Installation Step" will not rollback the files already copied to your machine.

PRESS <ENTER> TO CONTINUE: <ENTER>

License Agreement

Installation and use of TSAM 1.1 for Tuxedo requires acceptance of the following License Agreement:

BEA SYSTEMS, INC. SOFTWARE LICENSE AGREEMENT

USE OF SOFTWARE ORDERED FROM BEA SYSTEMS, INC. ("BEA") IS PROVIDED ONLY UNDER LICENSE FROM BEA. PLEASE READ THE FOLLOWING LICENSE CAREFULLY AND INDICATE YOUR ACCEPTANCE BY CLICKING THE ACCEPTANCE BOX. CERTAIN CAPITALIZED TERMS ARE DEFINED IN SECTION 11.

LICENSE TERMS

...

DO YOU AGREE WITH THE TERMS OF THE LICENSE? (Y/N):Y

Choose BEA Home Directory

1- Specify a BEA Home

2- Choose a BEA Home

Enter a number: 1

Specify a BEA Home directory: /home/beadev/bea

Enter a valid tsam install directory (DEFAULT:

/home/beadev/boa/tsam1.1):

Pre-Installation Summary

Please Review the Following Before Continuing:

Product Name:

TSAM 1.1 for Tuxedo

Install Folder:

/home/beadev/boa/tsam1.1

Link Folder:

/home/beadev

Disk Space Information (for Installation Target):

Required: 71,850,401 bytes

Available: 19,094,890,496 bytes

PRESS <ENTER> TO CONTINUE: <ENTER>

Installing...

[=====|=====|=====|=====]

Installation Complete

Congratulations. TSAM 1.1 for Tuxedo has been successfully installed to:

/home/beadev/boa/tuxedo91

PRESS <ENTER> TO EXIT THE INSTALLER: <ENTER>

Uninstalling BEA TSAM on UNIX Platforms in Console Mode

To uninstall BEA TSAM on a UNIX platform:

1. Change to your uninstall directory using the following command:

```
> cd $TUXDIR/uninst_tsam_1_1/Uninstall_TSAM_1.1_for_Tuxedo
```

2. Start the uninstallation program with the following command:

```
<bea/home> sh Uninstall_TSAM_1.1_for_Tuxedo -i console
```

[Listing 3-2](#) displays a BEA TSAM component uninstallation.

Listing 3-2 UNIX Uninstallation Example

```
Preparing CONSOLE Uninstall...
```

```
=====
```

```
About to uninstall...
```

```
TSAM 1.1 for Tuxedo
```

```
This will remove features installed by InstallAnywhere. It will not remove
files and folders created after the installation.
```

```
PRESS <ENTER> TO BEGIN THE UNINSTALL, OR 'QUIT' TO EXIT THE UNINSTALLER:
```

```
<ENTER>
```

```
=====
```

```
Uninstalling...
```

```
-----
```

```
...*
```

```
*
```

```
*****
```

```
*****
```

```
*****
*****
...*
```

```
Uninstall Complete
-----
```

All items were successfully uninstalled.

PRESS <ENTER> TO EXIT THE UNINSTALLER: **<ENTER>**

See Also

- [BEA TSAM 1.1 Supported Platforms](#)

Installing BEA TSAM Using Silent Installation

The following sections describe how to install BEA TSAM using silent mode installation on both Windows and UNIX systems:

- [Preparing for Silent Mode Installation](#)
- [Creating a Silent Mode Installation Template File](#)
- [Installing BEA TSAM on Windows](#)
- [Verifying Silent Mode Installation](#)

Preparing for Silent Mode Installation

Before you install BEA TSAM, complete the following tasks.

- Verify that enough disk space is available.
- Verify the login ID has proper permission for silent installation.
- Create a template file containing the required keyword settings.

Creating a Silent Mode Installation Template File

To create a template file for use in the silent installation process, you must use the following keywords:

Table 4-1 Template File Keywords

For This Keyword . . .	Enter the Following Value . . .
INSTALLER_UI= (UNIX and Windows)	The mode of installation. The default is <code>silent</code> ; do not modify this value.
BEAHOME= (UNIX and Windows)	The full pathname of the BEA Home directory of your choice.
USER_INSTALL_DIR= (UNIX and Windows)	The full pathname of the directory where you want to install BEA TSAM 1.1 on your computer.
OVERWRITE=yes no (UNIX and Windows)	<p>If you are using silent mode installation over an existing version of BEA TSAM, you must add this line to your template file.</p> <p>This is a case-sensitive keyword; the value must be lowercase. Any value other than “yes” will not overwrite the existing BEA SALT version and cancels the installation.</p>

Sample UNIX Template

```
INSTALLER_UI=silent
### BEA Home Directory ###
### NOTE: backslashes must be escaped. ###
BEAHOME=/home/user/boa
### User Installation Directory ###
USER_INSTALL_DIR=/home/user/boa/tsam1.1
### Overwrite Option###
OVERWRITE=yes|no
```

Sample Windows Template

```
INSTALLER_UI=silent
### BEA Home Directory ###
### NOTE: backslashes must be escaped. ###
BEAHOME=C:\boa
### User Installation Directory ###
USER_INSTALL_DIR=C:\boa\tsam1.1
```

```
### Overwrite Option###
OVERWRITE=yes|no
```

Installing BEA TSAM on UNIX

To invoke the silent mode installation procedure on a UNIX system, execute the following steps:

- Create a file containing the required variables set to valid data.
- At a command line prompt go to the directory containing the installer executable.
- Enter the following command:

```
sh installer_name.bin -f full_path/installer.data
```

In the previous command, *full_path* is the full path to the variable data file and *installer.data* is the data file containing the required variables.

Installing BEA TSAM on Windows

To invoke the silent installation procedure on a Windows system, execute the following steps:

- Create a file containing the required variables set to valid data.
- At a command line prompt go to the directory containing the installer executable.
- Enter the following command:

```
tsam11_32_win2k3_x86.exe -f full_path\installer.data
```

In the previous command, *full_path* is the full path to the variable data file and *installer.data* is the data file containing the required variables.

An initial window appears indicating that the installer is running. The amount of time to install in silent mode is approximately the same as interactive mode.

Verifying Silent Mode Installation

You can verify successful silent mode installation by checking the installed directory to see if all the BEA TSAM binaries are listed.

If silent mode installation failed, check the following log files:

Windows:

```
%USERPROFILE%\tsam_silent_install.log
```

UNIX:

`$HOME/tsam_silent_install.log`

- [BEA TSAM 1.1 Supported Platforms](#)

Post BEA TSAM Installation

The following sections describe post-installation tasks for BEA TSAM.

- [Installing the BEA TSAM License](#)
- [Post-Installation TSAM Directory Structure](#)

Installing the BEA TSAM License

A license is required to enable BEA TSAM functionality. You must manually install it before using BEA TSAM. The BEA TSAM license is controlled at TSAM Agent side. Each Tuxedo node that is monitored by BEA TSAM must have the BEA TSAM license installed.

The following steps explain how to install the BEA TSAM license as a post-installation task.

UNIX License File Installation

To install your BEA TSAM product license, do the following steps:

1. Identify your current Tuxedo license file (located at `$TUXDIR/udataobj/lic.txt`):
2. Make a backup copy of your Tuxedo license file:

```
cd $TUXDIR/udataobj
cp lic.txt lic.txt.bak
```
3. Check and verify the backup copy.
4. Append the contents of the TSAM license file to the Tuxedo license file:

```
cat /dev/diskette/tsamlic.txt >> lic.txt
```

Windows License File Installation

1. Identify your current TUXEDO license file (located at %TUXDIR%\udataobj\lic.txt):

2. Make a backup copy of the Tuxedo license file:

```
cd %TUXDIR%\udataobj
copy lic.txt lic.txt.bak
```

3. Check and verify the backup copy.

4. Append the contents of the TSAM license file to the Tuxedo license file:

```
copy lic.txt + a:\tsamlic.txt
```

Sample BEA TSAM License Appended to Tuxedo License

[Listing 5-1](#) depicts a sample TSAM license with the [BEA TSAM] section is at the end of the sample.

Note: The digital signature is 64 characters long. Every character must match exactly or the license is not valid.

Listing 5-1 Sample BEA TSAM License Appended to Tuxedo License

```
[BEA JOLT]
DEVELOPERS=1000000
EXPIRATION=2008-12-01
LICENSEE=BEA Evaluation Customer
SERIAL=.....
TYPE=SDK
USERS=1000000
VERSION=10.0
SIGNATURE=.....

[BEA TUXEDO]
DEVELOPERS=1000000
EXPIRATION=2008-12-01
LICENSEE=BEA Evaluation Customer
```

```
SERIAL=.....
TYPE=SDK
USERS=1000000
VERSION=10.0
SIGNATURE=.....
```

```
.....
```

```
[BEA TSAM]
EXPIRATION=2008-12-01
LICENSEE=BEA Evaluation Customer
SERIAL=.....
TYPE=SDK
DEVELOPERS=1
VERSION=1.1
SIGNATURE=.....
```

Post-Installation TSAM Directory Structure

After BEA TSAM installation has completed, the following directories are placed in the TSAM installation directory (e.g. `$BEAHOME/tsam1.1`):

- `apache-tomcat-5.5.17`: Apache tomcat
- `apache-tomcat-5.5.17/webapps/tsam.war`: TSAM java application
- `bin`: shell script files to start and stop TSAM
- `db-derby-10.2.2.0-bin`: Apache Derby
- `logs`: TSAM log files
- `sql`: SQL files to create database schema
- `tmonitordb`: TSAM derby database files
- `uninst_tsam_1`: uninstaller files

See Also

- [BEA TSAM 1.1 Supported Platforms](#)

BEA TSAM 1.1 Supported Platforms

BEA TSAM Agent Supported Platforms

BEA TSAM Agent 1.1 supports all the available Tuxedo 10.0, Tuxedo 9.1, and Tuxedo 8.1 platforms. For more information, see [Tuxedo 10.0](#), [Tuxedo 9.1](#), and [Tuxedo 8.1 Platform Data Sheets](#).

BEA TSAM Manager Supported Platforms

[Table A-1](#) lists the BEA TSAM Manager 1.1 supported platforms.

Table A-1 BEA TSAM 1.1 Manager Supported Platforms

Platform	GA Port/ Post-GA Port & Certification	Release Date	OS EOL Date
HP-UX 11i v2 (64-bit) on Itanium	GA	2007.09.28	TBD
HP-UX 11i v3 (64-bit) on Itanium	Post-GA	2007.11.30	TBD
IBM AIX 5.3 (32-bit) on IBM PowerPC	GA	2007.09.28	TBD
Microsoft Windows 2003 Server (32-bit) on Intel with MS Visual Studio 2005 Professional Edition	GA	2007.09.28	TBD
Novell SUSE Linux Enterprise Server 10 (64-bit) on 64-bit Xeon/AMD64	GA	2007.09.28	TBD

BEA TSAM 1.1 Supported Platforms

Table A-1 BEA TSAM 1.1 Manager Supported Platforms

Platform	GA Port/ Post-GA Port & Certification	Release Date	OS EOL Date
Red Hat Linux Enterprise AS 5 (64-bit) on 64-bit Xeon/AMD64	Post-GA	2007.12.06	TBD
Sun Microsystems Solaris 9/10 (32-bit) on SPARC	GA	2007.09.28	TBD