

# **Oracle® Tuxedo Application Runtime for CICS and Batch**

Installation Guide

11g Release 1 (11.1.1.3.0)

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# Preparing to Install Oracle Tuxedo Application Runtime for CICS and Batch

The following sections provide information on the preparations you need to know before installing Oracle Tuxedo Application Runtime for CICS and Batch:

- [Overview](#)
- [System Requirements](#)
- [Oracle Tuxedo Application Runtime for CICS and Batch Installation Program](#)
- [What's Next?](#)

## Overview

Oracle Tuxedo Application Runtime for CICS and Batch software is distributed as an installer file which can be executed on UNIX platforms using any of the following three methods:

- Graphical user interface (GUI) installation.
- Console installation.
- Silent installation.

Oracle Tuxedo Application Runtime for CICS and Batch 11g Release 1 (11.1.1.3.0) distribution contains the following key components:

- Oracle Tuxedo Application Runtime for CICS and Batch administrative utilities
- Oracle Tuxedo Application Runtime for CICS and Batch sample applications (optionally installed)

Oracle Tuxedo Application Runtime for CICS and Batch is installed in the `art11gR1` directory by default, under `<ORACLEHOME>`.

## System Requirements

- JRE version 1.6.0 or above

## Supported Platforms

Please refer to [Appendix A, “Supported Platforms”](#).

## Oracle Tuxedo Application Runtime for CICS and Batch Installation Program

The Oracle Tuxedo Application Runtime for CICS and Batch software is distributed as an installation program for UNIX systems. The Oracle Tuxedo Application Runtime for CICS and Batch installation program supports three installation methods. You can use any of these methods to install the Oracle Tuxedo Application Runtime for CICS and Batch product software:

- Graphical user interface (GUI) mode installation, described in [“Oracle Tuxedo Application Runtime for CICS and Batch GUI-Mode Installation”](#) on page 2-1.
- Console-mode installation, described in [“Oracle Tuxedo Application Runtime for CICS and Batch Console-Mode Install”](#) on page 3-1.
- Silent installation, described in [“Oracle Tuxedo Application Runtime for CICS and Batch Silent Mode Installation”](#) on page 4-1.

## What’s Next?

You are now ready to begin your installation. For more information, see:

- [Oracle Tuxedo Application Runtime for CICS and Batch GUI-Mode Installation](#)
- [Oracle Tuxedo Application Runtime for CICS and Batch Console-Mode Install](#)
- [Oracle Tuxedo Application Runtime for CICS and Batch Silent Mode Installation](#)
- [Oracle Tuxedo Application Runtime for CICS and Batch Post Installation](#)

# Oracle Tuxedo Application Runtime for CICS and Batch GUI-Mode Installation

The following sections describe how to install Oracle Tuxedo Application Runtime for CICS and Batch using graphical user interface (GUI) mode installation on UNIX systems:

- [What Is GUI-Mode Installation](#)
- [Installing on UNIX Platforms in Graphics Mode](#)

## What Is GUI-Mode Installation

GUI-mode installation is a graphics-based method for executing the Oracle Tuxedo Application Runtime for CICS and Batch installation program that runs on UNIX systems.

To run GUI-mode installation, the computer console on which you are installing the software must support a Java-based GUI.

**Notes:** Not all UNIX systems support Java-based GUIs.

To install Oracle Tuxedo Application Runtime for CICS and Batch on a non-graphical UNIX system console, see [“Oracle Tuxedo Application Runtime for CICS and Batch Console-Mode Install”](#) on page 3-1.

## Installing on UNIX Platforms in Graphics Mode

Perform the following steps to install the Oracle Tuxedo Application Runtime for CICS and Batch software on UNIX systems in graphics mode:

1. Launch the Oracle Tuxedo Application Runtime for CICS and Batch installation program.

- a. Log on as root or another user with sufficient permissions.
- b. Execute the installation program:

```
./installer_name.bin
```

The Introduction screen appears.

2. Click *Next* to proceed with the installation. The Choose Install Set screen appears.

Choose your required Oracle Tuxedo Application Runtime for CICS and Batch install set.

3. Click *Next* to proceed with the installation. The Choose Oracle Home Directory screen appears.

You can select from the following options:

- Choose existing Oracle Home directory

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

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

- Specify Oracle Home directory

Click the *Specify Oracle Home directory* button to enter a valid directory.

**Note:** If an existing Oracle Tuxedo Application Runtime for CICS and Batch 11g Release 1 (11.1.1.3.0) installation is detected, you are prompted to overwrite it or not. Select “yes” to overwrite the existing installation.

4. Click *Next* to proceed with the installation. The Choose Install Folder screen appears.

If the selected Oracle Home has no Tuxedo Application Runtime for CICS and Batch 11gR1 installed, you'll have a chance to modify the default install directory. Or else the detected directory name will be suggested. The default install directory is `art11gR1` under `<ORACLEHOME>`.

**Note:** Oracle Tuxedo Application Runtime for CICS and Batch installation will report an error and will not proceed in the event of the following:

If a previous Oracle Tuxedo Application Runtime for CICS and Batch version is detected. You are required to uninstall the previous version Oracle Tuxedo Application Runtime for CICS and Batch prior to installing this program.



5. Click Next to proceed with the installation. The Sample Install Confirm screen appears.  
This screen ask user to choose install samples or not.
6. (Only for Linux) Choose COBOL compiler to proceed with the installation. The COBOL Compiler Selection screen appears.  
You can either choose Micro Focus COBOL or COBOL-IT as your working COBOL Compiler, as long as you have installed it. If you choose COBOL-IT, you are required to specify the COBOL Compiler location (the default location is `/opt/cobol-it-64`).
7. If the installation process continues, the Pre-Installation Summary screen appears.  
Review the summary information and click *Install* if the information is correct.  
Click *Previous* to go back and modify any input that you want to change.  
Click *Cancel* to terminate the installation process. This is the last chance you have to cancel your installation without copying any files on your target machine.
8. The Install Complete screen, appears when the installation is finished.  
Click *Done* to exit the installation program.

## See Also

- [Oracle Tuxedo Application Runtime for CICS and Batch Post Installation](#)



# Oracle Tuxedo Application Runtime for CICS and Batch Console-Mode Install

The following sections describe how to install Oracle Tuxedo Application Runtime for CICS and Batch using console-mode installation:

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

## What Is Console-Mode Installation

Console-mode installation is a text-based method for executing the Oracle 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 GUI (graphical-based) installation.

## Installing on UNIX Platforms in Console Mode

Perform the following steps to install Oracle Tuxedo Application Runtime for CICS and Batch software in console mode on a certified UNIX platform:

1. Log on as root or another user with sufficient permissions.
2. Execute the installation program in character-based mode:  

```
./installer_name.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

---

```
Preparing to install...
Extracting the JRE from the installer archive...
Unpacking the JRE...
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...

Launching installer...

Preparing CONSOLE Mode Installation...

=====
=====
Introduction
-----

InstallAnywhere will guide you through the installation of

Oracle Tuxedo Application Runtime for CICS and Batch 11gR1.

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'.

=====
=====
Choose Install Set
-----

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

->1- Full Install
```

- 2- CICS Runtime Install
- 3- Batch Runtime Install

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

:1

=====

Choose Oracle Home Directory

-----

- 1- Choose existing Oracle Home directory
- 2- Specify Oracle Home directory

Enter a number: 1

Specify an Oracle Home directory: /home/user/oracle

=====

Choose Install Folder

-----

Where would you like to install?

Default Install Folder: /home/user/oracle/art11gR1

ENTER AN ABSOLUTE PATH, OR PRESS <ENTER> TO ACCEPT THE DEFAULT

=====

Install Samples?

->1- No

2- Yes

```

[
=====
=====

Cobol Compiler Selection

-----

Please select the Cobol compiler you are using

->1- Micro Focus Cobol

    2- COBOL-IT

ENTER THE NUMBER OF THE DESIRED CHOICE, OR PRESS <ENTER> TO ACCEPT THE

    DEFAULT: 2

=====
=====

COBOL-IT Install Dir

-----

Please enter the full path of COBOL-IT installation directory.

NOTE: To make sure COBOL-IT is correctly called, please put $JESDIR/bin in
the beginning of PATH.

COBOL-IT Install Dir: (DEFAULT: /opt/cobol-it-64):

]

=====
=====

Pre-Installation Summary

-----

Please Review the Following Before Continuing:

Product Name:
    Oracle Tuxedo Application Runtime for CICS and Batch 11gR1

Install Folder:
    /home/user/oracle/art11gR1

```

```

Install Set
  Full Install

```

```

Disk Space Information (for Installation Target):

```

```

  Required: 141,850,401 bytes

```

```

  Available: 19,094,890,496 bytes

```

```

PRESS <ENTER> TO CONTINUE:

```

```

=====

```

```

=====

```

```

Installing...

```

```

-----

```

```

=====

```

```

Installation Complete

```

```

-----

```

```

Congratulations. Oracle Tuxedo Application Runtime for CICS and Batch 11gR1
has been successfully installed to:
/home/user/oracle/art11gR1

```

```

PRESS <ENTER> TO EXIT THE INSTALLER:

```

---

## See Also

- [Oracle Tuxedo Application Runtime for CICS and Batch Post Installation](#)





# Oracle Tuxedo Application Runtime for CICS and Batch Silent Mode

## Installation

The following sections describe how to install Oracle Tuxedo Application Runtime for CICS and Batch using silent mode installation on UNIX systems:

- [Preparing for Silent Mode Installation](#)
- [Creating a Silent Mode Installation Template File](#)
- [Installing Oracle Tuxedo Application Runtime for CICS and Batch on UNIX](#)
- [Verifying Silent Mode Installation](#)

## Preparing for Silent Mode Installation

Before you install Oracle Tuxedo Application Runtime for CICS and Batch, 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 keywords as shown in [Table 4-1](#):

**Table 4-1** Template File Keywords

For This Keyword . . .	Enter the Following Value . . .
INSTALLER_UI=	The mode of installation. The default is <code>silent</code> ; do not modify this value.
ORACLEHOME=	The full pathname of the Oracle Home directory of your choice.
USER_INSTALL_DIR	The full pathname of the installation directory.
INSTALL_SAMPLES=Y N	Specifies whether sample applications are installed or not.
OVERWRITE=Y N or OVERWRITE=y n	<p>If you are using silent mode installation over an existing version of Oracle Tuxedo Application Runtime for CICS and Batch, you must add this line to your template file.</p> <p>Any value other than "Y" or "y" will not overwrite the existing Oracle Tuxedo Application Runtime for CICS &amp; Batch version and cancels the installation.</p>
CHOSEN_INSTALL_SET=Full CICS Batch	Choose install set. The default is <code>Full</code> .
COBOL_COMPILER=MFCOBOL   COBOLIT	<p>Choose using COBOL Compiler.</p> <p>MFCOBOL = Micro Focus COBOL compiler, COBOLIT = COBOL-IT compiler. The default is MFCOBOL.</p>
<b>Note:</b> Only used with Linux.	
COBOLIT_DIR=	The full path name of COBOL-IT directory (This path is only used when COBOL-IT is set as the COBOLCompiler for Linux platforms).

## Sample UNIX Template

```
INSTALLER_UI=silent
ORACLEHOME=/home/user/oracle
```

```
USER_INSTALL_DIR=/home/user/oracle/art11gR1
```

```
INSTALL_SAMPLES=Y
```

```
OVERWRITE=Y
```

```
CHOSEN_INSTALL_SET=Full
```

```
COBOL_COMPILER=MFCOBOL
```

## Installing Oracle Tuxedo Application Runtime for CICS and Batch on UNIX

To invoke the silent mode installation procedure on a UNIX system, you must do 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:

```
installer_name.bin -f 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.

## Verifying Silent Mode Installation

You can verify successful silent mode installation by checking the installation directory to see if all the Oracle Tuxedo Application Runtime for CICS and Batch binaries are listed.

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

```
$HOME/ART_silent_install.log.
```

## See Also

[Oracle Tuxedo Application Runtime for CICS and Batch Post Installation](#)



# Oracle Tuxedo Application Runtime for CICS and Batch Post Installation

The following sections describe post-installation tasks after installing Oracle Tuxedo Application Runtime for CICS and Batch:

- [Understanding the Oracle Tuxedo Application Runtime for CICS and Batch Directory Structure](#)
- [Installation Verification](#)
- [Uninstalling Oracle Tuxedo Application Runtime for CICS and Batch](#)

## Understanding the Oracle Tuxedo Application Runtime for CICS and Batch Directory Structure

During the Oracle Tuxedo Application Runtime for CICS and Batch software installation, all files are decompressed within the installation directory.

[Table 5-1](#) lists brief descriptions of Oracle Tuxedo Application Runtime for CICS and Batch directories and files.

**Table 5-1 Oracle Tuxedo Application Runtime for CICS and Batch Directory and File Structure**

Directory Name	Description
Cics_RT	Directory for CICS Runtime.
Cics_RT/bin	CICS Runtime binaries.

**Table 5-1 Oracle Tuxedo Application Runtime for CICS and Batch Directory and File Structure**

Directory Name	Description
Cics_RT/cpylib	CICS Runtime Copies
Cics_RT/lib	CICS Runtime libraries.
Cics_RT/objs	CICS Runtime objective files.
Cics_RT/sample	CICS Runtime samples. Optional install.
Cics_RT/sysmap	CICS Runtime system MAP definitions.
Cics_RT/tools	CICS Runtime utilities.
Batch_RT	Directory for Batch Runtime.
Batch_RT/ejr	Batch Runtime Execution Engine.
Batch_RT/ejr/COBOL_MF	Batch Runtime Execution Engine components depending on MicoFocus COBOL.
Batch_RT/ejr/COMMON	Batch Runtime Execution Engine common components.
Batch_RT/ejr/CONF	Batch Runtime Execution Engine configuration files.
Batch_RT/ejr/DB_ORACLE	Batch Runtime Execution Engine components depending on Oracle Database.
Batch_RT/ejr/GENERATION_FILE	Batch Runtime Execution Engine components managing the generation groups.
Batch_RT/ejr/SAMPLE	Batch Runtime Execution Engine samples. Optional install.
Batch_RT/ejr/SORT_MicroFocus	Batch Runtime Execution Engine components depending on MFSORT.
Batch_RT/ejr/SORT_SyncSort	Batch Runtime Execution Engine components depending on SyncSort.

**Table 5-1 Oracle Tuxedo Application Runtime for CICS and Batch Directory and File Structure**

Directory Name	Description
Batch_RT/bin	Batch Runtime TuxJES binaries.
Batch_RT/include	Batch Runtime TuxJES header files.
Batch_RT/lib	Batch Runtime TuxJES libraries.
Batch_RT/locale	Batch Runtime TuxJES locales.
Batch_RT/sample	Batch Runtime TuxJES samples. Optional install.
Batch_RT/udataobj	Batch Runtime TuxJES facilities.
jre	Java Runtime used for install/uninstall.
inventory	Oracle product inventory directory.
uninstaller	Product uninstaller.

## Installation Verification

Sample applications are provided for CICS Runtime, Batch Runtime Execution Engine, Batch Runtime TuxJES respectively, which can be used to verify the installation and also to demonstrate the configuration. The Readme file in the samples provides guidance on how to execute the samples.

Before executing Oracle Tuxedo Application Runtime for CICS and Batch, Oracle recommends that you set umask value as strict as possible.

## Uninstalling Oracle Tuxedo Application Runtime for CICS and Batch

- [Uninstalling Oracle Tuxedo Application Runtime for CICS and Batch in GUI-Mode](#)
- [Uninstalling Oracle Tuxedo Application Runtime for CICS and Batch in Console-Mode](#)

## Uninstalling Oracle Tuxedo Application Runtime for CICS and Batch in GUI-Mode

To uninstall Oracle Tuxedo Application Runtime for CICS and Batch software using GUI-Mode, do the following:

### ON UNIX:

Execute the command `./uninstall`

1. The Oracle Tuxedo Application Runtime for CICS and Batch Uninstaller screen appears.
2. Click Next to proceed the uninstallation. The Uninstall Options screen appears.

You can either uninstall the product completely, or only uninstall Specific feature of what you have installed. If Uninstall Specific Feature is chosen, you are required to select the feature(s) which you want to uninstall in next screen.

3. Click *Uninstall* to start uninstalling Oracle Tuxedo Application Runtime for CICS and Batch. When the process is complete, the screen shown is displayed.

**Note:** If the uninstalled features include Batch Runtime , the `BatchRT.conf` configuration file located in the `Batch_RT/ejx/CONF/` directory is backed up as `$ORACLEHOME/.BatchRT.conf.bak`.

4. Click *Done* to complete the uninstall.

## Uninstalling Oracle Tuxedo Application Runtime for CICS and Batch in Console-Mode

To uninstall Oracle Tuxedo Application Runtime for CICS and Batch on a UNIX platform using console mode you must do the following:

1. Start the uninstallation program with the following command:

```
./uninstall -i console
```

[Listing 5-1](#) displays an Oracle Tuxedo Application Runtime for CICS and Batch component uninstallation.

### Listing 5-1 UNIX Uninstallation Example

---

-----



## Uninstalling Oracle Tuxedo Application Runtime for CICS and Batch

About to uninstall...

Oracle Tuxedo Application Runtime for CICS and Batch 11gR1

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

Type 'quit' to cancel this uninstallation.

PRESS <ENTER> TO CONTINUE:

=====  
=====

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE  
DEFAULT:

->1- Completely remove all features and components.

2- Choose specific features that were installed by  
InstallAnywhere.

Please choose one of the following options

=====  
=====

-----

ENTER A COMMA\_SEPARATED LIST OF NUMBERS REPRESENTING THE FEATURES YOU  
WOULD

LIKE TO SELECT, OR DESELECT. TO VIEW A FEATURE'S DESCRIPTION, ENTER  
'?<NUMBER>'. PRESS <RETURN> WHEN YOU ARE DONE:

1- [ ] CICS Runtime

2- [ ] Batch Runtime

Check the features that you want to uninstall. Unchecked features  
will

remain installed.:

=====

=====

Uninstalling..

-----

...\*

\*

\*\*\*\*\*

\*\*\*\*\*

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...\*

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=====

=====

Uninstall Complete

-----

All items were successfully uninstalled.

---

**Note:** For Linux and AIX platforms, if Batch Runtime is uninstalled, the following message is displayed:

Please find backup of Batch\_RT/ejr/CONF/BatchRT.conf at  
/home/user/oracle/.BatchRT.conf.bak



# Supported Platforms

[Table A-1](#) lists Oracle Tuxedo Application Runtime for CICS and Batch 11g Release 1 (11.1.1.3.0) supported platforms.

**Table A-1 Oracle Tuxedo Application Runtime for CICS and Batch 11g Release 1 (11.1.1.3.0) Supported Platforms**

Platform	GA Port/ Post-GA Port	OS EOL Date
AIX 5.3 64-bit on Power	GA	TBD
AIX 6.1 64-bit on Power	GA	TBD
HP-UX 11i v2 (64-bit) on Itanium	GA	TBD
Oracle Enterprise Linux 5.4 (64-bit) on x86-64	GA	TBD
Oracle Linux 5.6 (64-bit) on Exalogic 2.0	GA	TBD
Oracle Linux 5.6 (64-bit) on non Exalogic hardware	GA	TBD
Red Hat Linux Enterprise AS 5 (64-bit) on x86-64	GA	TBD
Sun Microsystems Solaris 10 (64-bit) on SPARC	GA	TBD
Novell SUSE Linux Enterprise Server 11 (64-bit) on x86-64	GA	TBD

## Supported Platform Data Sheets

### AIX 5.3 64-bit on Power

The following section lists the software requirements for AIX 5.3 64-bit on Power:

- Oracle Tuxedo 11g Release 1 (11.1.1.2.0) or later
- MicroFocus COBOL 5.1
- IBM XL C/C++ 9
- Perl v5.8.2 (`aix-thread-multi` option is required)
- UDB v9.7
- Korn shell complies with ksh88

### AIX 6.1 64-bit on Power

The following section lists the software requirements for AIX 6.1 64-bit on Power:

- Oracle Tuxedo 11g Release 1 (11.1.1.2.0) or later
- MicroFocus COBOL 5.1
- IBM XL C/C++ 9
- Perl v5.8.2 (`aix-thread-multi` option is required)
- UDB v9.7
- Korn shell complies with ksh88

### HP-UX 11i v2 (64-bit) on Itanium

The following section lists the software requirements for HP-UX 11i v2 (64-bit) on Itanium:

- Oracle Tuxedo 11g Release 1 (11.1.1.2.0) or later
- MicroFocus COBOL 5.1
- HP aC++/HP ANSI C Version A.06.12
- Perl v5.8.2

- Korn shell complies with ksh88 (for example, PD KSH v5.2.14 or above)

## Novell SUSE Linux Enterprise Server 11 (64-bit) on x86-64

The following section lists the software requirements for Novell SUSE Linux Enterprise Server 11 (64-bit) on x86-64:

- Oracle Tuxedo 11g Release 1 (11.1.1.2.0) or later
- MicroFocus COBOL 5.1/COBOL-IT Enterprise Edition 2.7.4
- gcc 4.3.2
- Perl v5.8.9
- Korn shell complies with ksh88 (for example, PD KSH v5.2.14 or above)

## Oracle Enterprise Linux 5.4 (64-bit) on x86-64

The following section lists the software requirements for Oracle Enterprise Linux 5.4 (64-bit) on x86-64:

- Oracle Tuxedo 11g Release 1 (11.1.1.2.0) or later
- MicroFocus COBOL 5.1/COBOL-IT Enterprise Edition 2.7.4
- gcc 4.1.2
- Perl v5.8.2
- UDB v9.7 (only support MicroFocus COBOL 5.1)
- Korn shell complies with ksh88 (for example, PD KSH v5.2.14 or above)

## Oracle Linux 5.6 (64-bit) on Exalogic 2.0

The following section lists the software requirements for Oracle Linux 5.5 (64-bit) on Exalogic 2.0:

- Oracle Tuxedo 11g Release 1 (11.1.1.2.0) or later
- MicroFocus COBOL 5.1/COBOL-IT Enterprise Edition 2.7.4
- gcc 4.1.2

- Perl v5.8.2
- Korn shell complies with ksh88 (for example, PD KSH v5.2.14 or above)

## Oracle Linux 5.6 (64-bit) on Non Exalogic Hardware

The following section lists the software requirements for Oracle Linux 5.5 (64-bit) on non Exalogic hardware:

- Oracle Tuxedo 11g Release 1 (11.1.1.2.0) or later
- MicroFocus COBOL 5.1/COBOL-IT Enterprise Edition 2.7.4
- gcc 4.1.2
- Perl v5.8.2
- Korn shell complies with ksh88 (for example, PD KSH v5.2.14 or above)

## Red Hat Linux Enterprise AS 5 (64-bit) on x86-64

The following section lists the software requirements for Red Hat Linux Enterprise AS 5 (64-bit) on x86-64:

- Oracle Tuxedo 11g Release 1 (11.1.1.2.0) or later
- MicroFocus COBOL 5.1/COBOL-IT Enterprise Edition 2.7.4
- gcc 4.1.2
- Perl v5.8.8
- Korn shell complies with ksh88 (for example, PD KSH v5.2.14 or above)

## Sun Microsystems Solaris 10 (64-bit) on SPARC

The following section lists the software requirements for Sun Microsystems Solaris 10 (64-bit) on SPARC:

- Oracle Tuxedo 11g Release 1 (11.1.1.2.0) or later
- MicroFocus COBOL 5.1
- C/C++ Sun Studio 12



- Perl v5.8.2
- Korn shell complies with ksh88 (for example, PD KSH v5.2.14 or above)

## Supported Platforms