

Oracle® Tuxedo

Oracle Tuxedo Plug-In for Oracle Virtual Assembly Builder

12c Release 2 (12.1.3)

April 2014

ORACLE®

Oracle Tuxedo Plug-In for Oracle Virtual Assembly Builder, 12c Release 2 (12.1.3)

Copyright © 1996, 2014, Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

This software or hardware and documentation may provide access to or information on content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.

Contents

Oracle Tuxedo Plug-In for Oracle Virtual Assembly Builder

Versions Supported	1
Oracle Tuxedo Introspection Parameters	1
Reference System Prerequisites	3
Requirements	3
Base Image Requirements	3
ART CICS/Batch/IMS Applications Requiring Microfocus or COBOL IT.	3
Requirements Related to Scaling	3
Installation	4
Resulting Artifact Type	4
Single-Machine Oracle Tuxedo Domain	4
Multi-Machine Oracle Tuxedo Domain	4
Wiring	5
Multi-Machine Wiring	5
Other Inputs and Outputs	5
Wiring Properties	6
Oracle Tuxedo Appliance Properties	7
Extensions of the Plug-in	17
Supported Template Types	17
Supported VM Server	17

Oracle Tuxedo Plug-In for Oracle Virtual Assembly Builder

The Oracle Tuxedo introspection plug-in examines a single or multiple-machine Oracle Tuxedo domain, and the Oracle Home Directory that it resides on. The Oracle Home Directory where Tuxedo is installed can also include the Tuxedo add-ons listed below, and those will also be examined:

- Oracle TSAM
- Oracle SALT
- Oracle Tuxedo Application Runtime for CICS and Batch
- Oracle Tuxedo Mainframe Adapter SNA
- Oracle Tuxedo Application Runtime for IMS

A single machine domain and its Home Directory, including add-on products, are captured. For a multiple-machine Oracle Tuxedo domain, each machine must be introspected separately and wired into an assembly. See [“Wiring” on page 1-5](#).

Versions Supported

Oracle Tuxedo Introspection Parameters

[Table 1-1, “Oracle Tuxedo Plug-in Introspection Parameters,” on page 1-2](#) lists the introspection parameters for the Oracle Tuxedo introspection plug-in:

Table 1-1 Oracle Tuxedo Plug-in Introspection Parameters

Parameter	Description
TUXDIR	<p>Location where Oracle Tuxedo is installed.</p> <p>Note: Before introspecting Tuxedo, exclude the directory, or make sure</p> <ul style="list-style-type: none">– all file permissions are correct, or– no extra files are located in TUXDIR.
TUXCONFIG	<p>Location of the application configuration file, in compiled form. This contains the Tuxedo core configuration as well as a minimal set of values (APPDIR, etc.).</p>
environmentScript	<p>This script will be run before doing introspection to set the environment of the Tuxedo application. The script will be searched relative to the \$APPDIR directory. As a result of running the script only known Tuxedo-related environment variables will be captured, so as to prevent things such as DISPLAY, or SHELL from being captured that could interfere on the target environment.</p> <p>If not set, the plug-in will attempt to run a <code>setenv.sh</code> script (with that exact name) from the \$APPDIR directory. This behavior will be exclusive, that is, only one script will be run at most. The plug-in will use the output of the <code>env</code> command, so care should be taken that such environment setting scripts' output may not interfere with the result of calling <code>env</code>.</p> <p>If an environment script is not used, or is used but non-Tuxedo environment variables also need to be set, a well-known standard Java properties file named <code>ovab-application.properties</code> will be searched for in \$APPDIR.</p>
oracleClientDir	<p>Location of Oracle Database client software installation, typically the directory in which the Oracle Instant client software has been unzipped. It is the user's responsibility to ensure that this is accurate, as the Tuxedo plug-in does not have the means to verify that this installation is valid.</p>
tnsNamesLocation	<p>Location of the <code>TNSNAMES.ora</code> client configuration file. This file is parsed and made a template which results in an Appliance Output being created if either the database name specified in the <code>ubbconfig OPENINFO</code> string or environment variable <code>ORACLE_SID</code> (in that order or priority) is found. Multiple <code>OPENINFO/TNSNAMES.ora</code> entries will result in multiple outputs being generated.</p>

Table 1-1 (Continued) Oracle Tuxedo Plug-in Introspection Parameters

Parameter	Description
scriptWorkingDir	The working directory where the environment script will be run from. This is useful when scripts use the current working directory to determine path values.
artSecurityProfile	Location of security profile used by ART Batch or ART CICS.

Reference System Prerequisites

None.

Requirements

The following requirements apply to Oracle Tuxedo:

Base Image Requirements

The base system image OS version must match the version of the reference system.

Additionally, you must set IPC kernel parameters on the base system image according to the guidelines listed in [Oracle Tuxedo: Installing the Oracle Tuxedo System](#).

ART CICS/Batch/IMS Applications Requiring Microfocus or COBOL IT

For ART CICS/Batch/IMS applications which require Microfocus or COBOL IT to be installed, you must create a new base image with Microfocus or COBOL IT pre-installed (the installation path is the same as it is on the reference system) based on the original Oracle Virtual Assembly Builder base image, and then use the new base image to create template for the ART CICS/Batch/IMS application.

Only by following this configuration procedure will ART CICS/Batch/IMS applications which require Microfocus/COBOL IT boot successfully on the deployed VM.

Requirements Related to Scaling

For TMA SNA, scaling is not applicable.

For ART Batch, scaling is applicable, except for one limitation: if the TMQUEUE server which monitors JES2QSPACE queue space runs on a slave machine, you should not use the scaling feature for that machine for ART Batch.

For ART CICS, not all servers are applicable for scaling. Refer to the ART CICS reference guide to determine whether scaling is applicable or not for specified servers of ART CICS.

For ART IMS, all servers are applicable for scaling. There is only one limitation applying to TMQUEUE server, which monitors queue spaces: if TMQUEUE server runs on a slave machine, you should not use the scaling feature for that machine for ART IMS.

Installation

Oracle Tuxedo Plug-In for Oracle Virtual Assembly Builder (OVAB) is installed together with Tuxedo in `$ORACLE_HOME/tuxedo12.1.3.0.0/plugins/ovab/introspector/Tuxedo`.

Note: Because OVAB only supports Linux X64 platforms, Oracle Tuxedo Plug-In for OVAB is only delivered with Tuxedo 12cR2 Linux X64 installer.

Resulting Artifact Type

The resulting artifact type depends on whether you introspect a single-machine or multi-machine domain.

Single-Machine Oracle Tuxedo Domain

A single scalable appliance for a single-machine Tuxedo domain.

Multi-Machine Oracle Tuxedo Domain

For multi-machine Tuxedo domains, each machine in the reference system must be introspected separately. The resulting appliances are of the following types:

- Master: single non-scalable appliance representing the MASTER node in the Tuxedo domain.
- Backup master (optionally): single non-scalable appliance representing the BACKUP MASTER node in the Tuxedo domain. Must be introspected if present on the reference system.

- Other: single scalable appliance representing a non-master and non-backup node in the reference Tuxedo domain. There can be one or many such types of appliances depending on the topology of the reference system.

To deploy the domain, an empty assembly must be created manually, or the appliances must be included in an existing assembly and the wiring performed.

Wiring

This section describes wiring.

Multi-Machine Wiring

Inputs will be created on a Master appliance for each machine (except itself) present in the reference system. These are required for non-Master appliances to obtain information on the Master appliance at rehydration time.

Outputs will be created on a Master appliance for each machine (except itself) present in the reference system. These are required for the Master appliance to obtain information on the non-Master appliances at rehydration time. Corresponding inputs and outputs will also be created on non-Master appliances.

These outputs must all be connected to an appliance before deployment. The name of the output and the protocol supported by the output will give hints about the type of appliance to connect the output to.

Other Inputs and Outputs

Inputs will be created on an Oracle Tuxedo appliance for the following types of configuration found:

- WSL (Oracle Tuxedo WorkStation protocol)
- JSL (Oracle Jolt)
- ISL (Oracle Tuxedo IIOP protocol)
- Domain (Oracle Tuxedo Domain Gateway)
- Outputs will be created on an Oracle Tuxedo appliance for the following types of configuration found:
 - Domain (Oracle Tuxedo Domain Gateway)

- Oracle Single-Instance Database
- TMA_SNA (Oracle Tuxedo Mainframe Adapter SNA)
- TSAM (Oracle TSAM)

These outputs must all be connected to either an external resource or to an appliance before deployment. The description on the output and the protocol supported by the output will give hints about the type of appliance to connect the output to.

Wiring Properties

All input endpoints have two editable properties - `port` and `description`, and one non-editable property - a list of `protocols`. The protocols indicate what sort of outputs can be connected to the input.

All output endpoints have one editable property - `description`, and two non-editable properties - `protocol` and `singleton`. The protocol indicates what sort of input can be connected to the output. Singleton indicates what sort of appliance the output can be connected to. If `singleton` is true, the output can only be connected to an input on an appliance that has a `scalability absolute max` value of 1.

The following properties are specific to Oracle Tuxedo endpoints ([Table 1-2](#) through [Table 1-3](#)):

Table 1-2 Oracle Tuxedo: Appliance Output Properties: Domain

Name	Type	Req'd	Default	Description
existing-address	String	false	Address of the remote domain from the reference system.	Specifies the address of the remote domain this domain will connect to. Only used if the output is connected to an external resource.

The output for TMA_SNA and TSAM can only be connected to an external resource.

Table 1-3 Oracle Tuxedo: Appliance Output Properties: TMA_SNA

Name	Type	Req'd	Default	Description
tma-sna-crm-host	String	false	IP address of remote CRM Server from reference system.	Specifies the IP address of the remote CRM Server this machine will connect to. Only used if the output is connected to an external resource.
tma-sna-crm-port	String	false	Port of remote CRM Server from reference system.	Specifies the port of the remote CRM Server this machine will connect to. Only used if the output is connected to an external resource.
tma-sna-crm-address	String	false	Hex format IP Address and port of remote CRM Server from reference system.	Specifies Hex format IP Address and port of remote CRM Server this machine will connect to. Only used if the output is connected to an external resource.

Table 1-4 Oracle Tuxedo: Appliance Output Properties: TSAM

Name	Type	Req'd	Default	Description
tsam-manager-addr	String	false	IP Address of remote TSAM manager from reference system.	Specifies the IP Address of remote TSAM manager this machine will connect to. Only used if the output is connected to an external resource.
tsam-manager-port	String	false	Port of remote TSAM manager from reference system	Specifies the port of remote TSAM manager this machine will connect to. Only used if the output is connected to an external resource.

Oracle Tuxedo Appliance Properties

Oracle Tuxedo appliances have user properties ([Table 1-5](#)) and system properties ([Table 1-6](#)).

Table 1-5 Oracle Tuxedo: User Properties

Name	Type	Req'd	Default	Description
ALOGPFX	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
ALOGRTNSIZE	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
ALTCC	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
ALTCCFLAGS	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
applicationEnvVars	String	false	none	Applications can use this property to specify non-Tuxedo variables using comma-separated keyword/value pairs. For example: CURRENCY=dollar,GROUPNAME=stdev,JDK=/my/jdk/path. This property is populated by the ovab-application.properties file, if it exists in the \$APPDIR directory.
applicationPassword	String	false	none	If the Tuxedo application uses security (that is, *RESOURCES is set to APP_PW, USER_AUTH, ACL or MANDATORY_ACL) then this user property must be set to capture the new password to be used at reconfiguration time.
COBCPY	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
COBDIR	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .

Table 1-5 (Continued) Oracle Tuxedo: User Properties

Name	Type	Req'd	Default	Description
COBOPT	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
dbPassword	String	false	none	Replacement value for database username when Tuxedo application has an OPENINFO set for Oracle databases (RM type of Oracle_XA in OPENINFO.) For example: For the following OPENINFO value: "Oracle_XA: Oracle_XA+Acc=P/Scott/*****+SesTm=30+Sql Net=instance1", the <i>dbPassword</i> property may be set in which case it is used to regenerate a new encrypted password.
dbUsername	String	false	none	Replacement value for database username when Tuxedo application has an OPENINFO set for Oracle databases (RM type of Oracle_XA in OPENINFO.) For example: For the following OPENINFO value: "Oracle_XA: Oracle_XA+Acc=P/Scott/*****+SesTm=30+Sql Net=instance1" the <i>dbUsername</i> property may be set to change "Scott" into a different value for the target machine.
FIELDTBLS	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
FIELDTBLS32	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
FLDTBLDIR	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .

Table 1-5 (Continued)Oracle Tuxedo: User Properties

Name	Type	Req'd	Default	Description
FLDTBLDIR32	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
FSCONFIG	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
FSMAXCOMMIT	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
FSMAXUPDATE	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
FSMSGREP	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
FSOFFSET	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
ISSANE	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
QMCONFIG	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
runtimeLoadLibrary Path	String	false	none	Populated with the contents of LD_LIBRARY_PATH after setting the environment. The format of this string is be the same as the actual LD_LIBRARY_PATH to be used on the target system.

Table 1-5 (Continued) Oracle Tuxedo: User Properties

Name	Type	Req'd	Default	Description
shutdownScript	String	false	none	The name of a shutdown script that will be used in place of the <code>tmshutdown -y</code> command used on the target machine when it is stopped (after undeployment, or as a result of an Oracle Virtual Assembly Builder <code>stop</code> command).
startupScript	String	false	none	The name of a startup script that will be used in place of the <code>tmboot -y</code> command used on the target machine when it is started (after deployment or as a result of an Oracle Virtual Assembly Builder <code>start</code> command).
TAGENTLOG	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
TM_CBL_IGNORE_CONTEXT	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
TM_CPAU	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
TM_ENGINE_TMS_HMSEGSZ	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
TM_GWT_OLDSECCHECK	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
TM_ICU_COMPACTIBILITY	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
TM_LOG_ESYS	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .

Table 1-5 (Continued)Oracle Tuxedo: User Properties

Name	Type	Req'd	Default	Description
TM_ORB_CLTMA XRTY	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
TMCMLIMIT	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
TMCMPPRFM	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
TMNETLOAD	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
TMNOTHEADS	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
TMSICACHEENT RIESMAX	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
TMUSEIPV6	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
TPMBACONV	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
TPMBENC	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
TUX_BLOCKLICI W	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .

Table 1-5 (Continued) Oracle Tuxedo: User Properties

Name	Type	Req'd	Default	Description
TUX_SSL_ENFOR CECONSTRAINTS UINMEDSIGS	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
URLENTITYCAC HEDIR	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
URLENTITYCATC HING	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
VIEWDIR	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
VIEWDIR32	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
VIEWFILES	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
VIEWFILES32	String	false	none	Tuxedo environment variable. See "tuxenv(5)" in <i>Oracle Tuxedo File Formats, Data Descriptions, MIBs, and System Processes Reference</i> .
KIX_TS_DIR	String	false	none	Tuxedo ART CICS environment variable. See "CICS Runtime Environment Variables" in <i>Oracle Tuxedo Application Runtime for CICS Reference Guide</i> .
KIX_TD_DIR	String	false	none	Tuxedo ART CICS environment variable. See "CICS Runtime Environment Variables" in <i>Oracle Tuxedo Application Runtime for CICS Reference Guide</i> .

Table 1-5 (Continued)Oracle Tuxedo: User Properties

Name	Type	Req'd	Default	Description
KIX_TD_QSPACE_DEVICE	String	false	none	Tuxedo ART CICS environment variable. See "CICS Runtime Environment Variables" in <i>Oracle Tuxedo Application Runtime for CICS Reference Guide</i> .
KIX_TD_QSPACE_NAME	String	false	none	Tuxedo ART CICS environment variable. See "CICS Runtime Environment Variables" in <i>Oracle Tuxedo Application Runtime for CICS Reference Guide</i> .
KIX_TD_QSPACE_IPCKEY	String	false	none	Tuxedo ART CICS environment variable. See "CICS Runtime Environment Variables" in <i>Oracle Tuxedo Application Runtime for CICS Reference Guide</i> .
KIX_TECH_DIR	String	false	none	Tuxedo ART CICS environment variable. See "CICS Runtime Environment Variables" in <i>Oracle Tuxedo Application Runtime for CICS Reference Guide</i> .
KIX_CWA_SIZE	String	false	none	Tuxedo ART CICS environment variable. See "CICS Runtime Environment Variables" in <i>Oracle Tuxedo Application Runtime for CICS Reference Guide</i> .
KIX_CWA_IPCKEY	String	false	none	Tuxedo ART CICS environment variable. See "CICS Runtime Environment Variables" in <i>Oracle Tuxedo Application Runtime for CICS Reference Guide</i> .
KIX_QSPACE_IPCKEY	String	false	none	Tuxedo ART CICS environment variable. See "CICS Runtime Environment Variables" in <i>Oracle Tuxedo Application Runtime for CICS Reference Guide</i> .
KIX_TRACE_LEVEL	String	false	none	Tuxedo ART CICS environment variable. See "CICS Runtime Environment Variables" in <i>Oracle Tuxedo Application Runtime for CICS Reference Guide</i> .

Table 1-5 (Continued)Oracle Tuxedo: User Properties

Name	Type	Req'd	Default	Description
KIX_MAP_PATH	String	false	none	Tuxedo ART CICS environment variable. See "CICS Runtime Environment Variables" in <i>Oracle Tuxedo Application Runtime for CICS Reference Guide</i> .
DATA	String	false	none	Tuxedo ART CICS environment variable. See "CICS Runtime Environment Variables" in <i>Oracle Tuxedo Application Runtime for CICS Reference Guide</i> .
SPOOL	String	false	none	Tuxedo ART CICS environment variable. See "CICS Runtime Environment Variables" in <i>Oracle Tuxedo Application Runtime for CICS Reference Guide</i> .
TMP	String	false	none	Tuxedo ART CICS environment variable. See "CICS Runtime Environment Variables" in <i>Oracle Tuxedo Application Runtime for CICS Reference Guide</i> .
PROCLIB	String	false	none	Tuxedo ART CICS environment variable. See "CICS Runtime Environment Variables" in <i>Oracle Tuxedo Application Runtime for CICS Reference Guide</i> .
MT_ACC_FILEPATH	String	false	none	Tuxedo ART CICS environment variable. See "CICS Runtime Environment Variables" in <i>Oracle Tuxedo Application Runtime for CICS Reference Guide</i> .
MT_DB_LOGIN	String	false	none	Tuxedo ART CICS environment variable. See "CICS Runtime Environment Variables" in <i>Oracle Tuxedo Application Runtime for CICS Reference Guide</i> .
MT_LOG	String	false	none	Tuxedo ART CICS environment variable. See "CICS Runtime Environment Variables" in <i>Oracle Tuxedo Application Runtime for CICS Reference Guide</i> .

Table 1-5 (Continued)Oracle Tuxedo: User Properties

Name	Type	Req'd	Default	Description
MT_TMP	String	false	none	Tuxedo ART CICS environment variable. See "CICS Runtime Environment Variables" in <i>Oracle Tuxedo Application Runtime for CICS Reference Guide</i> .
MT_KSH	String	false	none	Tuxedo ART CICS environment variable. See "CICS Runtime Environment Variables" in <i>Oracle Tuxedo Application Runtime for CICS Reference Guide</i> .

Table 1-6 Oracle Tuxedo System Properties

Name	Type	Req'd	Default	Description
appdir	String	false	none	Application Directory, location of the Tuxedo application executables and files.
masterTuxconfig	String	false	none	Location of the TUXCONFIG file for the Master machine in a multi-machine domain. This is necessary to perform scale-out operations.
masterTuxdir	String	false	none	Location of TUXDIR file the Master machine in a multi-machine domain. This is necessary to perform scale-out operations.
model	String	false	none	Indicates whether this appliance is a single-machine appliance (SHM) or multi-machine appliance (MP).
pmid	String	false	none	Oracle Tuxedo Machine identifier for this appliance.
role	String	false	none	Along with model, is used to qualify the type of appliance when it is part of a multi-machine domain. The role can be 'MASTER', 'BACKUP' or 'SLAVE'. It is always 'SLAVE' for a single-machine domain.
tuxconfig	String	false	none	Used to save the value of TUXCONFIG as introspected.

Table 1-6 (Continued) Oracle Tuxedo System Properties

Name	Type	Req'd	Default	Description
tuxdir	String	false	none	Used to save the value of TUXDIR as introspected.
kixdir	String	false	none	Used to save the value of KIXDIR as introspected.
kixconfig	String	false	none	Used to save the value of KIXCONFIG as introspected.
jesdir	String	false	none	Used to save the value of JESDIR as introspected.

Extensions of the Plug-in

None.

Supported Template Types

The supported template type is Oracle Enterprise Linux (OEL).

Supported VM Server

- Oracle VM Server for x86
- Oracle VM Server for Exalogic

