Enterprise Manager for Oracle® Tuxedo

Getting Started Guide 12*c* Release 1 (12.1.1.1)

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Enterprise Manager for Oracle Tuxedo Getting Started Guide, 12c Release 1 (12.1.1.1)

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This guide covers the following topics:

- Overview
- Prerequisites
- Setting Up Software Library
- Importing Enterprise Manager for Oracle Tuxedo to Enterprise Manager
- Deploying Enterprise Manager for Oracle Tuxedo on Enterprise Manager
- Synchronizing Timezones (Optional)
- Starting the tlisten Process
- Configuring and Starting Oracle SNMP Agent (Optional)
- Configuring the UBBCONFIG File
- Loading UBBCONFIG and Booting up Oracle Tuxedo
- Discovering Tuxedo Targets
- Configuring Receive Port for SNMP Agent (Optional)
- Enterprise Manager for Oracle Tuxedo Basics

Overview

This document provides:

- instruction for Enterprise Manager for Oracle Tuxedo deployment on the Enterprise Manager system.
- initial configuration and operation steps that make Enterprise Manager for Oracle Tuxedo ready for use.
- specific configuration steps that enable Enterprise Manager for Oracle Tuxedo to monitor the Oracle Tuxedo domain containing Tuxedo Batch System targets. See Optional steps in the following sections.
- some basic target monitoring information.

Prerequisites

The following prerequisites must be met before deploying the Enterprise Manager for Oracle Tuxedo.

- Oracle Enterprise Manager Cloud Control 12c Release 2 (12.1.0.2) or higher is installed and necessary post-installation steps are performed.
- Oracle Enterprise Manager Cloud Control 12c Management Agent is installed.

For more information, see Enterprise Manager Cloud Control Documentation.

Setting Up Software Library

To set up a software library on Enterprise Manager console, do the following:

- 1. Create a folder on the machine where Enterprise Manager is installed. For example, /net/<hostname>/scratch/aime/swlibl.
- 2. Log in to Enterprise Manager Cloud Control.
- 3. From the home page, go to Setup > Provisioning and Patching > Software Library.
- 4. Click Add.

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5. In the dialog box that appears, enter a name (for example, swlib1), and the path where the folder created in **step 1** resides: /net/<hostname>/scratch/aime/swlib1.

For more information, see Configuring a Software Library in Oracle Enterprise Manager Cloud Control Administrator's Guide

Importing Enterprise Manager for Oracle Tuxedo to Enterprise Manager

There are two ways to import Enterprise Manager for Oracle Tuxedo to Enterprise Manager:

- import manually using the emcli tool, or
- download Enterprise Manager for Oracle Tuxedo from Enterprise Manager console.
- **Note:** The import process will not be successful if any problems arise in the software library setup process.

Importing Manually

To manually import Enterprise Manager for Oracle Tuxedo to Enterprise Manager, do the following steps:

- 1. Set up the emcli tool. For more information, see https://<Enterprise Manager console hostname>:<port>/em/console/emcli/download.
- 2. Run the following command:

```
emcli import_update -file=<Enterprise Manager for Oracle Tuxedo
installation absolute path> -omslocal
```

By default, the Enterprise Manager for Oracle Tuxedo package is located in <TSAM Plus installation directory>/em/12.1.0.2.0_oracle.fmw.txdo_2000_0.opar.

Downloading from Enterprise Manager Console

To download Enterprise Manager for Oracle Tuxedo, do the following steps:

- From Enterprise Manager console, click Setup > Extensibility > Self Update in the upper right.
- 2. In the Self Update page, check if **Connection Mode** is **Online**; if not, click Connection Mode status to set online mode.

Figure 1 Self Update Page

ORACLE Enterprise Manager Cloud Control 12c

🦂 Enterprise 🔻 🎯 Iargets 👻 🌟 Eavorites 👻 🥝 Hist <u>o</u> ry 💌							
Self Update							
Oracle periodically provides new functionalit automatically, a manual check can be made		existing features in Enterprise	Manager. The Self	Update home allows administrators to receive notific			
≤Status							
Connection Mode Online	l	ast Download Time	May 6, 2013 1:02:55 AM PDT				
Most Recent Refresh Time 🖋 🛛 May	6, 2013 12:34:3	3 AM PDT L	ast Download Type	Plug-in			
Actions 🗸 📄 Open 🕡 Check Upda	ates 🛃 🙆	Agent Software					
Туре	Available Updat	es Downloaded Updates	Applied Updates	Description			
Agent Software		L 9 0	1	Agent software has to be installed on hosts for ma			
Compliance Content		0 0	0	Compliance Content contains Framework, Standard			
Diagnostic Checks		0 0	0	Target side policy checks that identify conditions the			
EM Deployment Prerequisite Resource		0 0	0	EM Deployment Pre-requisite Checks are the metal Plugins.			
Extensibility Development Kit		0 0	1	Extensibility Development Kit (EDK) is a standalone Plug-ins)			
Management Connector		12 0	1	Management Connectors are components that inte			
🛅 Middleware Profiles and Gold Images		1 0	0	A collection of Software Components used for prov			
Monitoring Templates		0 0	0	Monitoring Templates can be used to standardize r			
Oracle Database Provisioning Profiles a		0 0	0	A collection of Software Components used for pro			

3. In the Type column, click Plug-in, and then select Oracle Tuxedo.

Figure 2 Plug-in Updates List

Self Update		is 👻 🕝 History 👻					Sea	rch Target Name 🕶		
	Self Update						Page Refreshed May 6, 2013 12:39:57 AM PDT			
Update > Plup-in										
lug-in Updates										
Actions + 10 Dow	vnicad 🔘 Apply	😰 Plug-in 🛛 Sear	rch Description		0					
atus	Plup-in Name	OS Platform	Revision	Version	Vendor	Description				
Available		ter Ir Generic Platform		12.1.0.2.0	ORACLE		stack management plug-in.			
Available		ter Ir Generic Platform		12.1.0.1.0	ORACLE		stack management plug-in.			
Available		ger I Generic Platform Is Er Generic Platform		12.1.0.1.0	ORACLE	Enterprise Manager for Pe		ring and management for Oracle Ided	and Caboo in Ora	
Available				12.1.0.1.0	ORACLE					
Avalable Avalable		ed S Generic Platform n In- Generic Platform		12.1.0.3.0	ORACLE			proactive healthcheck alerts for Oracle	Exaduta and Exalogic	
Avalable		Appl Generic Platform		12.1.0.2.0	ORACLE	Enterprise Manager for Oracle TimesTen In-Memory Database				
Avalable		re Generic Platform		12.1.0.1.0	ORACLE	Enterprise Manager for Big Data Applance provides comprehensive management for Oracle Big Data Applance and reli				
Available		e Ap Generic Platform	0	12.1.0.1.0	ORACLE	Enterprise Manager for Sun Ray Software				
Available	Oracle Tuxedo	Generic Patform		12.1.0.2.0	ORACLE	Management Plug-in for the Sun ZFS Storage Applance Family				
Avalable	Oracle Tuxedo	Generic Patform		12.1.0.2.0	ORACLE	Enterprise Manager for Oracle Tuxedo Management Pack for Oracle Tuxedo 12.1.0.1.0				
Available		te Generic Patform		12.1.0.1.0	ORACLE	Enterprise Manager for Or				
Available		Ora Generic Platform		12.1.0.4.0	ORACLE			t features such as Knowledge, Service	Requests and Datchis	
	01808 1103 (14)	one denenc Patronni		11110/10	OTO TO A	onice mos pagin promo	a apport for Hy office support	rescares soon as knowledge, service	requera en recon	
Past Activities										
ctions	Status Plu	ig-in Name	OS Platform		Revision	Version	Administrator	Start Time	Elapsed Time(Se	
walable	Succeeded Ora	icle Tuxedo	Generic Plat	form	0	12.1.0.2.0	SYSMAN	May 6, 2013 12:34:23 AM PI	т	

4. Click **Download**.

Deploying Enterprise Manager for Oracle Tuxedo on Enterprise Manager

Deploying Enterprise Manager for Oracle Tuxedo on Management Servers

To deploy Enterprise Manager for Oracle Tuxedo on management servers, do the following steps:

- 1. Log in to Enterprise Manager Cloud Control.
- 2. From the home page, navigate to **Setup > Extensibility > Plug-ins**.
- 3. Click the **Middleware** folder to expand the list.
- Highlight Enterprise Manager for Oracle Tuxedo from the list and click Deploy on > Management Servers.

Deploying Enterprise Manager for Oracle Tuxedo on Management Agents

Before Enterprise Manager Cloud Control can discover Oracle Tuxedo Domain targets, you must deploy Enterprise Manager for Oracle Tuxedo on management agents. Do the following steps:

- 1. Log in to Enterprise Manager Cloud Control.
- 2. From the home page, navigate to **Setup > Extensibility > Plug-ins**.
- 3. Click the Middleware folder to expand the list.
- 4. Highlight Enterprise Manager for Oracle Tuxedo from the list and click **Deploy on** > **Management Agents**.
- **Note:** For more information, see the Plug-in Manager chapter in Oracle Enterprise Manager Cloud Control Administrator's Guide.

Synchronizing Timezones (Optional)

This step is required only if you are planning to manage and monitor Oracle Tuxedo Batch System.

Make sure the timezone of Enterprise Manager OMS, Enterprise Manager Agent, DB instance, and the Oracle Tuxedo domain located OS are synchronized.

You can refer to the following SQL script example to select and modify the DB instance timezone:

```
SQL> select dbtimezone from dual;
SQL> select sessiontimezone from dual;
SQL> alter database set time_zone='<new time zone>';
SQL> alter session set time_zone='<new time zone>';
```

After you change the timezone, restart DB instance for the changes to take effect.

Starting the tlisten Process

Before you can use Enterprise Manager for Oracle Tuxedo to monitor the Tuxedo domain targets, you must start the tlisten process before starting the Tuxedo domain so that Tuxedo Domain MBeans can register with the JMX agent embedded in the tlisten process. For MP domains in particular, you should start tlisten for every machine.

- **Note:** If Enterprise Manager for Oracle Tuxedo is used in conjunction with Oracle TSAM Plus 12c, either JRE 1.6 or one of the following JDK 1.6 versions is required to start the embedded JMX agent:
 - 1.6.0 to 1.6.0_38 for SUN JRE/JDK
 - SR2 to SR9 for Linux on System z
 - 1.6.0.00 to 1.6.0.17 for HP platform

It is also recommended you use the JRE shipped under TSAM Plus install directory.

Before starting tlisten, you must set the tlisten environment variable

SHLIB_PATH/LIBPATH/LD_LIBRARY_PATH and include the libjvm library path. For windows platforms, you only need to set JAVA_HOME. For HP platforms, you need to set LD_PRELOAD to include the libjvm.so directory.

Listing 1 shows examples of environment variable settings on different platforms:

Listing 1 Environment Variable Setting on Different Platforms

For Linux 64-bit platforms:

```
LD_LIBRARY_PATH=$TUXDIR/lib:$JAVA_HOME/jre/lib/amd64/server:$LD_LIBRARY_PA
TH;
```

export LD_LIBRARY_PATH;

For AIX 32-bit platforms:

LIBPATH=\$TUXDIR/lib:\$JAVA_HOME/jre/lib/ppc:\${JAVA_HOME}/jre/lib/ppc/classi
c:\$LIBPATH;

export LIBPATH;

For AIX 64-bit platforms:

```
LIBPATH=$TUXDIR/lib:$JAVA_HOME/jre/lib/ppc64:${JAVA_HOME}/jre/lib/ppc64/de
fault:$LIBPATH;;
```

export LIBPATH;

For HP 64-bit platforms:

LD_LIBRARY_PATH=\$TUXDIR/lib:\$JAVA_HOME/jre/lib/IA64W/server:\$LD_LIBRARY_PA TH;

export LD_LIBRARY_PATH;

LD_PRELOAD=\$JAVA_HOME/jre/lib/IA64W/server/libjvm.so;

```
export LD_PRELOAD;
```

Note: LD_PRELOAD is only used for tlisten to start embedded JMX agent. It should not be set when building Tuxedo applications.

To start tlisten, use the following command:

tlisten -j rmi://<host>:<rmiport> -l //<host>:<tlistenport>

For example:

tlisten -j rmi://bej301163.cn.oracle.com:26999 -1
//bej301163.cn.oracle.com:16998

Note: Make sure that the host and port specified by the -1 option are the same as the NLSADDR value specified in the UBBCONFIG file.

When the tlisten process is started correctly, you can view the message **RMI connector server** successfully started and Started the embedded JMX agent successfully in ULOG.

Configuring and Starting Oracle SNMP Agent (Optional)

This step is required only if you are planning to manage and monitor Oracle Tuxedo Batch System.

To configure and start the Oracle SNMP Agent, do the following steps:

- 1. In beamgr.conf, configure the following:
 - TRAP_HOST, which format is:

TRAP_HOST <host_name> <trap_port> <trap_community>

Where the host_name is the Enterprise Manager agent host, and the trap_port is the Enterprise Manager agent listening port to be configured as monitoring property of Batch System target. Make sure the port number is not occupied by any process in the Enterprise Manager Agent located OS.

- TMAGENT, which format is:

TMAGENT <logical_agent_name> <TUXDIR> <TUXCONFIG>

Following is an example:

TRAP_HOST 10.182.54.215 1061 public SNMP_ENABLE_AUTH_TRAP 1 TMAGENT tuxedo_agent_1 /testarea/tux/oracle/tuxedo12.1.1.0

For more information, see Oracle SNMP Agent Configuration File: beamgr.conf.

2. Set the BEA_SM_SNMP_MIBFILE and BEA_SM_BEAMGR_CONF environment variables.

Following is an example on UNIX:

exportBEA_SM_SNMP_MIBFILE=\${TUXDIR}/udataobj/snmp/etc/mib.txt

export BEA_SM_BEAMGR_CONF=\${APPDIR}/beamgr.conf

/testarea/tux/test/servers/tuxconfig

- 3. Start up Oracle SNMP Agent.
 - **Note:** If you are using Oracle Tuxedo 11g Release 1 (11.1.1.3.0) or Release 1 (11.1.1.2), set the environment: SNMP_USER_EVENT=y before starting Oracle SNMP Agent.

Following is an example:

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tux_snmpd -l tuxedo_agent_1 -p 5400 -s

For more information, see Starting Oracle SNMP Agent in Oracle Tuxedo SNMP Agent Administration Guide.

Note: If your Enterprise Manager agent is located at the same machine as your Oracle Tuxedo domain, make sure the port number followed by the -p option is not equal to the port number configured in TRAP_HOST in beamgr.conf.

After Oracle SNMP Agent is booted successfully, there should be two processes, tux_snmpd and <logical_agent_name>_trapd, running on the Oracle Tuxedo machine.

Configuring the UBBCONFIG File

Adding the NETWORK Section

To monitor and manage the Tuxedo domain monitoring targets, you must register the targets in the tlisten process by adding the NETWORK section and configuring the NLSADDR parameters in the UBBCONFIG file for the Tuxedo domain in SHM mode.

Adding EXT_MON in the RESOUCES Section

Collection and calculation of certain metrics (such as Service Metrics and IPC Queue Metrics in MIB), consumes CPU time and potentially impacts Oracle Tuxedo performance. Oracle Tuxedo uses the EXT_MON OPTIONS parameter in the UBBCONFIG file RESOURCES section to allow MIB performance sensitive metrics collection.

If the indicator is specified, all metrics listed in the Tuxedo Targets section are collected in MIB; otherwise, if the indicator is not specified, the following metrics are not collected by Oracle Tuxedo:

- Tuxedo Server Service metrics
- Tuxedo Server IPC Queue metrics
- Tuxedo Bridge IPC Queue metrics

The metrics collection policy changes immediately once you modify this parameter setting.

Listing 2 shows an SHM mode UBBCONFIG file example supporting Enterprise Manager monitoring.

Listing 2 An SHM UBBCONFIG Sample Supporting Enterprise Manager Monitoring

*RESOURCES

```
IPCKEY 65831
         shm
DOMAINID
MASTER
        L1
MODEL
         SHM
MAXACCESSERS 100
MAXSERVERS 100
OPTIONS EXT_MON
*MACHINES
"bej301163" LMID = L1
     APPDIR = "/testarea/tux/test/jmx/servers"
   TUXCONFIG = "/testarea/tux/test/jmx/servers/tuxconfig"
    TUXDIR = "/testarea/tux/oracle/tuxedo12.1.1.0"
*GROUPS
ATMIGRP1 LMID = L1
      GRPNO = 10
*SERVERS
SvrUpdate SRVGRP = ATMIGRP1
      SRVID = 100
*SERVICES
*NETWORK
"L1"
NLSADDR="//bej301163.cn.oracle.com:16998"
```

Adding TMSYSEVT and TMUSREVT Servers (Optional)

This step is required only if you are planning to manage and monitor Oracle Tuxedo Batch System.

Configure TMSYSEVT and TMUSREVT in the UBBCONFIG file.

Following is an example:

```
...
*SERVERS
TMSYSEVT SRVGRP=EVTGRP SRVID=20
TMUSREVT SRVGRP=EVTGRP SRVID=30
```

•••

Loading UBBCONFIG and Booting up Oracle Tuxedo

After the tlisten process is successfully started, refer to online Oracle Tuxedo Documentation to load UBBCONFIG and boot up Oracle Tuxedo.

If you are planning to manage and monitor Oracle Tuxedo Batch System, set the environment variable JESMONITOR=yes before starting the Tuxedo domain.

Discovering Tuxedo Targets

In order to manage and monitor Oracle Tuxedo applications, you must first discover the Tuxedo targets using Enterprise Manager Cloud Control.

To discover all Tuxedo domains on a JMX agent, do the following steps:

- 1. Log in to Enterprise Manager Cloud Control.
- 2. From the home page, go to Targets >Middleware.
- 3. Click Middleware Features > Tuxedo Summary.
- 4. In the Tuxedo Summary page, click Add > Tuxedo Domain Discovery.
- 5. If only one domain exists in the JMX agent, specify the following options on the page that appears:
 - Hostname: Mandatory parameter. Specifies the host where the Tuxedo domain master machine is running.
 - Port: Mandatory parameter. The port number specified by tlisten -j option.
 - Application Password: Optional parameter. Specifies the Tuxedo application password Enterprise Manager agent uses to connect to the Tuxedo domain. You must input this

parameter if the SECURITY value of the Tuxedo domain is one of following: APP_PW, USER_AUTH, ACL, or MANDATORY_ACL; otherwise, leave the field blank.

- User name: Optional parameter. Specifies the Tuxedo user name Enterprise Manager agent uses to connect to the Tuxedo domain. You must input this parameter if the Tuxedo domain SECURITY value is one of following: USER_AUTH, ACL, or MANDATORY_ACL; otherwise, leave the field blank.
- User Password: Optional parameter. Specifies the Tuxedo user password Enterprise Manager agent uses to connect to the the Tuxedo domain. You must input this parameter if the Tuxedo domain SECURITY value is one of following: USER_AUTH, ACL, or MANDATORY_ACL; otherwise, leave the field blank.
- Use SSL: Optional. This option refers to SSL mechanism between Enterprise Manager and JMX agent in the tlisten process.
- With Tuxedo Authentication: If this box is unchecked, Tuxedo security related information is ignored and only tlisten and the Tuxedo Home targets are discovered. Leave this box checked if you want to discover the Tuxedo domains monitored by the tlisten process.
- **Monitoring Agent**: Mandatory option. It is recommended you select the one residing on the same physical machine with tlisten.

Figure 3 Domain Discovery Page

ORACLE Enterprise Manager Cloud Control 12c								
🚓 Enterprise 🕶 🎯 Iargets 🕶 📩 Eavorites 🕶 🥝 Hist <u>o</u> ry 🕶								
Oracle Tuxedo Domain Discovery								
* Hostname:	bej301163.cn.oracle.com							
* Port:	26999							
Application Password:								
User Name:								
User Password:								
Use SSL:								
With Oracle Tuxedo Authentication:								
* Monitoring Agent:	bej301185.cn.oracle.com:3872 💌							
	Discover Now							

6. Click **Discover Now**.

If only one domain is being monitored by tlisten, you will get a list of discovered targets; otherwise, select the domain on the page that appears and enter the parameters specific to the domain, then click **Discover Now** again.

Figure 4 Successful Discovery

ORACLE Enterprise Manager Cloud Control 12c							
🚓 Enterprise 🔻 🎯 Targets 👻 🌪 Eavorites 👻 😌 Hist <u>o</u> ry 👻							
Discovery Successful! 6 targets found							
bej301163.cn.oracle.com:16998/tlisten [tuxedo_tlisten] bej301163.cn.oracle.com:/testarea/gtt/oracle/tuxedo12.1.1.0 [tuxedo_home] shm:bej301163:65831 [tuxedo_domain] shm:bej301163:65831/L1 [tuxedo_machine] shm:bej301163:65831/L1/ATMIGRP1 [tuxedo_group] shm:bej301163:65831/L1/ATMIGRP1/SvrUpdate:400 [tuxedo_server]							
Domain Home Continue Discovering							

Configuring Receive Port for SNMP Agent (Optional)

This step is required only if you are planning to manage and monitor Oracle Tuxedo Batch System.

In conjunction with the step Configuring and Starting Oracle SNMP Agent (Optional), specify the port number set in beamgr.conf as Receive Port for SNMP Agent in the Monitoring Configuration page of Tuxedo Batch System target. Do the following steps:

- 1. In the Tuxedo Batch System target page, click the target menu.
- Click Target Setup > Monitoring Configuration to enter the Monitoring Configuration page.
- 3. In the **Receive Port for SNMP Agent** field, enter the port number set in beamgr.conf.
- 4. Click OK.

After the configuration settings are pushed to agent side, there should be a thread listening on this port at the monitoring Enterprise Manager agent side. If not, check the Oracle Management Agent metadata log file (gcagent.log) located in \$EMSTATE/sysman/log.

Enterprise Manager for Oracle Tuxedo Basics

Target Home page

Click the **Domain Home** button on the page shown in Figure 4, the Tuxedo domain target home page is displayed, which allows you to view general information and perform administrative functions. From the left Target Navigation panel, you can easily navigate to other target home pages by expanding the list and selecting the desired target.

Metrics

The All Metrics page provides a comprehensive list of all the metrics available for a particular target. For example, if you display the All Metrics page for a host target, you can view all the metrics defined for the host target. To enter the All Metric page, do the following steps:

- 1. Log in to Enterprise Manager Cloud Control.
- 2. From the home page, in the left Target Navigation panel, right click the target that you want to view.
- 3. Click Monitoring > All Metrics.

Administrative Functions for Tuxedo Targets

Enterprise Manager for Oracle Tuxedo allows you to perform administrative functions for Tuxedo Targets, such as starting up the target, configuring UBB parameters, shutting down the target, and so on. The administrative functions are listed in the target control menu.

For example, you can modify the UBB parameters for a Tuxedo domain target by right-clicking the domain target name in the Target Navigation panel and then clicking **Control** > **Modify UBB**.

🔓 Enterprise 🔹 🌉 Tarpets 🔹 🏫 Eavor	ites + 📀 History +		541	arch Target Name +
Target Navigation	😭 shm:bej301163:65831 🕘			📴 beg301185.cn.oracle.com
View -	😧 Tuxedo Domain - 🛄 Start Up 🔲 Shut Down	- Master/Backup		Page Refreshed May 21, 2013 11:48:56 PM PDT
 shmbej301163:65831 Hachnes 	Modify UBB			Modify UBB Cancel
	* IPD/EV 65831 (LDBAL Y		
	AUTOTRAN N	SYSTEM_ACCESS FASTPATH		
	TRANTINE 30 C	OPTIONS EXT_MON	-	
	DOMAIND shm	USBINAL SIGUSR2		
	MASTER L1	SECURITY NONE		
	MODEL SHM	SSL_RENEGOTIATION 0		
	UID 16943 GID 601	AUTHSVC		
	PERM 0600	SCANUNIT		
	MAXACCESSERS 100	SANITYSCAN 12		
	MAXXCLESSERS 100 M	DEBLWAIT 2		
	MAXSERVICES 100	BBLQUERY 30 S		
	MAXGROUPS 100	BLOCKTIME 6		
	MAXINETGROUPS B	NOTIFY DIPIN		
	MAXMACHINES 256	SEC PRINCIPAL NAME		
	MAXQUEUES 100 MAXACLGROUPS 16384			
	MAXISTT 100 C	SEC_PRINCIPAL_LOCATION		
	MAXCONV 1	SEC_PRINCIPAL_PASSVAR		
	HARLETYPE 16	SIGNATURE_AHEAD 3600		
	MAXBUFSTYPE 10 MAXBUFSTYPE 32	SJGNATURE_BEHIND 604800		
	MAXDET 0	SIGNATURE_REQUIRED N		
	MAXRET 0	ENCRYPTION_REQUIRED N		
	MADETDATA B	SHONQINADOMEM (0		
	MAXSPDATA 59624	EXALOGIC_SHARED_PATH		
	MAXTRANTINE 0	REQUEST_VERSION		
	CHITRET COMPLETE	VERSION_RANGE		
		DBBLFAILOVER 0		

Figure 5 Modify UBB Page

Dynamic Resource Broker

The Dynamic Resource Broker is a major Enterprise Manager for Oracle Tuxedo feature. It enables manual and policy-driven deployment of Tuxedo servers, groups, and machines on a running Oracle Tuxedo domain for flexible resource allocation towards certain Enterprise Manager targets.

For more information, see Dynamic Resource Broker in Enterprise Manager for Oracle Tuxedo User Guide.

See Also

- Enterprise Manager for Oracle Tuxedo Overview
- Enterprise Manager for Oracle Tuxedo User Guide
- Enterprise Manager for Oracle Tuxedo Administration Guide
- Enterprise Manager for Oracle Tuxedo Reference Guide