### **Oracle® Tuxedo System and Applications Monitor Plus**

Getting Started Guide 12c Release 2 (12.1.3)

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#### Oracle TSAM Plus Getting Started Guide, 12c Release 2 (12.1.3)

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### Getting Started with Enterprise Manager for Oracle Tuxedo

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# Getting Started with Oracle TSAM Plus Manager

This chapter contains the following topics:

- Installing Oracle TSAM Plus
- Deploying Oracle TSAM Plus Agent
- Deploying Oracle TSAM Plus Manager
- Viewing Your Oracle Tuxedo Configuration
- Configuring Monitoring Policy
- Starting to Monitor Oracle Tuxedo

### Installing Oracle TSAM Plus

Install the Oracle TSAM Plus Agent and the Oracle TSAM Plus Manager. For more information, see Oracle TSAM Plus Installation Guide.

### **Deploying Oracle TSAM Plus Agent**

To properly deploy the Oracle TSAM Plus Agent, you must add the LMS to each Oracle Tuxedo machine section of the UBBCONFIG file. Listing 1 shows an example of how to add the LMS to the UBBCONFIG file.

#### Listing 1 LMS Added to UBBCONFIG File

```
*MACHINES
MACHINEA
...
*GROUPS
...
LMSGRP LMID=MACHINEA
...
*SERVERS
LMS SRVGRP=LMSGRP SRVID=1 CLOPT="-A -- -1 tsamweb.abc.com:8080/tsam"
...
```

The "-1" option specifies the Oracle TSAM Plus Data Server address which is configured in the Oracle TSAM Plus Manager. For more information, see the Oracle TSAM Plus Reference Guide. The Oracle TSAM Plus Data Server uses the same port number as the Oracle TSAM Plus Manager Console.

LMS can also be added to a running Oracle Tuxedo application using TMIB.

### **Deploying Oracle TSAM Plus Manager**

The Oracle TSAM Plus Manager functions as a Web application in a Servlet/JSP container. It uses the DBMS (Database Management System) to store persistent Oracle Tuxedo performance and monitoring data. Before using Oracle TSAM Plus Manager, it must be deployed to a database server and a Web application container.

If you input the LDAP configuration file during installation, the LDAP deployment is done automatically; otherwise, you must do the LDAP deployment using the "LDAP Deployment Utility" if you want to enable the LDAP authentication.

If you select "Bundled Derby database", "An existing Derby database" or "An existing Oracle database" during installation, Oracle TSAM Plus Manager is deployed on the specified database server automatically; otherwise, you must deploy Oracle TSAM Plus Manager to a database server using the "Database Deployment Utility".

If you select "Bundled Tomcat server", "An existing Tomcat server" or "An existing WebLogic server" during installation, Oracle TSAM Plus Manager is deployed on the specified application server automatically; otherwise you must deploy Oracle TSAM Plus Manager to an application server using the "Application Server Deployment Utility" or manually.

For more information, see the Oracle TSAM Plus Deployment Guide.

### **Viewing Your Oracle Tuxedo Configuration**

Login to the Oracle TSAM Plus Manager Console (for example: http://localhost:8080/tsam/faces).

Your Oracle Tuxedo configuration can be found in the Oracle Tuxedo component tree panel. For more information, see the Oracle TSAM Plus User Guide.

### **Configuring Monitoring Policy**

Monitoring policy defines what and how you want to monitor. TSAM Plus Manager does not collect any metrics if no monitoring policy is defined.

• Typical Monitoring Policy

Go to **Policy > Monitoring** Policy page, click **Add** to enter the **Create Policy** page. Input tsampolicy in the **Name:** input field.

- Monitor call path initiated from a particular client
  - a. In the left panel Tuxedo Component, select Domain in the drop down lists
  - b. In the right panel Call Path tab, select Enable
  - c. Select the Filter check box with Workstation Client
  - d. Input a client name in the Client Name input box
  - e. Click Add & Enable
- Monitor services of a particular server

Similar steps as call path monitoring policy, except you must select options at the "Service" tab. In the "Filter", you can select service from a list or input it manually.

Other monitoring policy sets have similar steps. You can group several monitoring categories in one policy.

For more information, see Policy Management in Oracle TSAM Plus User Guide.

Getting Started with Oracle TSAM Plus Manager

### **Starting to Monitor Oracle Tuxedo**

Login to TSAM Plus Console, and start to monitor Tuxedo system and application. For example: Go to Metrics > Call Path to monitor call path. Go to Metrics > Service to monitor service. Go to Metrics > Domain Gateway to monitor GWTDOMAIN. For more information, see Oracle TSAM Plus User Guide.



# Getting Started with Enterprise Manager for Oracle Tuxedo

This chapter contains the following topics:

- Overview
- Prerequisites
- Importing Enterprise Manager for Oracle Tuxedo to Enterprise Manager
- Deploying Enterprise Manager for Oracle Tuxedo on Enterprise Manager
- Synchronizing Time Zones (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 chapter provides:

Getting Started with Enterprise Manager for Oracle Tuxedo

- 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.
- Basic target monitoring information.

### **Prerequisites**

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

- Oracle Enterprise Manager Cloud Control Management Service is installed and necessary post-installation steps are performed.
- Oracle Enterprise Manager Cloud Control Management Agent is installed.

For more information, see Enterprise Manager Cloud Control Documentation.

# Importing Enterprise Manager for Oracle Tuxedo to Enterprise Manager

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

- One is to import the .opar file manually using the emcli tool after installing TSAM Plus using the TSAM Plus installer;
- The other is to download Enterprise Manager for Oracle Tuxedo from Enterprise Manager console.

### **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/12.1.0.3.0\_oracle.fmw.txdo\_2000\_0.opar.

### **Downloading from Enterprise Manager Console**

Skip this section if you have imported the .opar file manually as described above.

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

- 1. 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 2-1 Self Update Page

ORACI	LE Enterprise Manage	Cloud Control 12	ie i				
🔹 Enterprise	💌 💿 Targets 💌 🏫 Eavorite	s 🔻 🙆 History 🕶			Search Target 1		
Self Upd	late				۲		
Oracle period are retrieved	ically provides new functionality automatically, a manual check ca	and updates for existing in be made at any time	ng features in Enterprise M t.	lanager. The Self Up	date home allows administrators to receive notifications and view, c		
	Connection Mode Online			ast Download Time	Nov 5, 2014 6:22:26 PM CST La		
Most Re	ecent Refresh Time 🛷 Apr 30	, 2015 2:35:59 PM CST	r i	Last Download Type	Plug-in La		
Actions +	🔁 Open 🛛 🏚 Check Update	s 🔯 🖉 Ager	t Software				
Type		Available Updates	Downloaded Updates	Applied Updates	Description		
Enterpris	e Configuration Search	0		0	Configuration search definitions can be used at the enterprise leve targets such as hosts and databases.		
Extensibility Development Kit		0		1	Extensibility Development Kit (EDK) is a standalone tool designe extensions (For example: Plug-ins)		
Manager	ment Connector	19 0		1	Management Connectors are components that integrate differe Console		
Metric Extensions		0	0	0	Metric Extensions enhance Enterprise Manager's monitoring capabil conditions specific to your environment.		
		1	0	0	A collection of Software Components used for provisioning of Orac		
Monitoring Templates		0	0	0	Monitoring Templates can be used to standardize monitoring acros settings to targets.		
Crade D	atabase Provisioning Profiles a	0	0	0	A collection of Software Components used for provisioning of Oracl homes.		
Plug-in N		50	24	10	Plug-in extends Enterprise Manager to manage newer target type a		
Provision	ing Bundle	0	0	0	Provisioning bundle is a collection of deployment procedures, softw cater to the provisioning and patching of various Oracle and non-O		
Test Data	a Management templates	7 0		0	0 Templates for Data Masking, Application data modeling and Subs		

3. In the Type column, click Plug-in, and then select Oracle Tuxedo of version 12.1.0.3.0.

Figure 2-2 Plug-in Updates List

DRACLE	Enterprise	Manager	Cloud Co	ntrol 12	c			
🖁 Enterprise 👻 🌀	Targets 🕶	🚖 Eavorites	🝷 🕝 Histy	5ry <del>-</del>				Search Target
Self Update								
elf Update > Plug-in								
Plug-In Upda	tes							
Actions 👻 📩	Download	Apply d	Plug-in		Search Description		•	
Status	63P	latform	Plug-in N	ame .A.'	Revision	Version	Vendor	Size(M8) Description
🛹 Available	Gene	ric Platform	Oracle O	ps Cente	r 0	12.1.0.4.0	ORACLE	28.898 Enterprise Manager for
🌮 Available	Gene	ric Platform	Oracle Pr	copieSoft	: 0	12.1.0.2.0	ORACLE	76.025 Enterprise Manager for
Downloaded	Gene	ric Platform	Oracle Si	ebel	0	12.1.0.5.0	ORACLE	10.732 Enterprise Manager for
👌 Downloaded	Gene	ric Platform	Oracle St	orage M	a 0	12.1.0.4.0	ORACLE	9.173 Enterprise Manager St
Available	Gene	ric Platform	Oracle St	orage M	a 0	12.1.0.5.0	ORACLE	9.256 Enterprise Manager St
🕫 Available	Gene	ric Platform	Oracle Ti	mesTen	L 0	12.1.0.3.0	ORACLE	2.120 Enterprise Manager fo
Available	Gene	ric Platform	Oracle Ti	mesTen	L 0	12.1.0.2.0	ORACLE	0.804 Enterprise Manager fo
Available	Gene	ric Platform	Oracle To	aedo	0	12.1.0.2.0	ORACLE	4.022 Enterprise Manager fo
🕫 Available	Gene	ric Platform	Oracle To	леdo	0	12.1.0.3.0	ORACLE	4.858 Enterprise Manager fo
Available	Gene	ric Platform	Oracle To	aedo	0	12.1.0.1.0	ORACLE	2.700 Management Pack for
Available	Gene	ric Platform	Oracle U	nified Dir		12.1.0.2.0	ORACLE	21.505 Enterprise Manager for
Available	Gene	ric Platform	Oracle U	nified Dir		12.1.0.1.0	ORACLE	21.508 Enterprise Manager for
Available	Gene	ric Platform	Oracle U	tilities	0	12.1.0.2.0	ORACLE	1.666 Application Manageme
Available	Gene	ric Platform	Oracle U	tilities	0	12.1.0.3.0	ORACLE	1.840 Enterprise Manager fo
Past Activities	5							
Actions	Status	OS Platfo	orm	F	Tug-in Name	Revision	Version	Administrator
Available	Succeeded	Generic P	Platform	0	Dracle Tuxedo	0	12.1.0.3.0	SYSMAN

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 Time Zones (Optional)

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

Make sure the Time zone 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 Time zone:

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.

Getting Started with Enterprise Manager for Oracle Tuxedo

- **Note:** 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 2-1 shows examples of environment variable settings on different platforms:

#### Listing 2-1 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://tuxdemo.demobox:55555 -1 //tuxdemo.demobox:55556

**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 ART for 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

Getting Started with Enterprise Manager for Oracle Tuxedo

```
SNMP_ENABLE_AUTH_TRAP 1
TMAGENT tuxedo_agent_1 /testarea/tux/oracle/tuxedo12.1.3.0.0
/testarea/tux/test/servers/tuxconfig
```

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

3. Start up Oracle SNMP Agent.

Following is an example:

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

	Listing 2-2	An SHM UBBCONFIG	Sample Supporting	Enterprise Manager	Monitoring
--	-------------	------------------	-------------------	--------------------	------------

```
*RESOURCES
IPCKEY
          65831
         shm
DOMAINID
          L1
MASTER
MODEL
         SHM
MAXACCESSERS 100
MAXSERVERS 100
OPTIONS EXT_MON
*MACHINES
"<hostname>" LMID = L1
     APPDIR = "/testarea/tux/test/jmx/servers"
   TUXCONFIG = "/testarea/tux/test/jmx/servers/tuxconfig"
             = "/testarea/tux/oracle/tuxedo12c"
     TUXDIR
*GROUPS
ATMIGRP1 LMID = L1
       GRPNO = 10
*SERVERS
```

Getting Started with Enterprise Manager for Oracle Tuxedo

```
SvrUpdate SRVGRP = ATMIGRP1
SRVID = 100
*SERVICES
*NETWORK
"L1"
NLSADDR="//<hostname>:55556"
```

### 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.
  - **Find Oracle Tuxedo Domains**: 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.
- Note: If the Tuxedo domain SECURITY value is one of following: USER\_AUTH, ACL, or MANDATORY\_ACL, the client name of Tuxedo users used by Enterprise Manager must be

tpsysadm; otherwise, the discovery will fail. You can use tpusradd -c tpsysadm <username> to add the user with a client name of tpsysadm.

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 2-3 Successful Discovery



### **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 2-3, 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**.

Figure 2-4 Modify UBB Page

	Cool Control 120			Serth + Deh + Taylout + End onr
🔓 Enterprise + 🛑 Targets + 🏫 Eavorte	es + 💿 History +		541	arch Target Name •
Farget Navigation	👚 shm:bej301163:65831 🔍			beg301185.cn.oracle.com
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### **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 Oracle TSAM Plus User Guide.

### See Also

- Deploying Enterprise Manager for Oracle Tuxedo
- Configuring Enterprise Manager for Oracle Tuxedo
- Using the Enterprise Manager for Oracle Tuxedo
- Enterprise Manager for Oracle Tuxedo Target Reference