# **HP Universal SLA Manager**

# Version 4.1



# Installation and Configuration Guide

Edition: 1.0

for Linux and Microsoft Windows Operating Systems August 2014

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# Preface

This guide is designed to be used as an installation and configuration manual for the HP Universal SLA Manager that is used to manage Service Level Agreements.

This document also contains information about installing and configuring USLAM Services, Web UI, MyUSLAM portal, Reporting and ETL modules.

This document explains the procedures related to installation, configuration and un-installation of the USLAM solution.

### **Intended Audience**

This document is intended for the following user:

- HP USLAM Administrator.
- Oracle Database Administrator

### **Abbreviations and Acronyms**

The following table describes the abbreviations and acronyms used in this document.

Abbreviation	Chapter 1Description
ВО	SAP Business Objects
BODS	SAP Business Objects Data Services
BOE	SAP Business Objects Enterprise
BIAR	Business Intelligence Archive
CMS	Central Management Server
CI	Configuration Item
ID	Identifier
EDB PPAS	Enterprise DB Postgres Plus Advanced Server
ETL	Extract, Transform, and Load
KPI	Key Performance Indicator
LTU	License To Use
SLI	Service Level Indicator
SLA	Service Level Agreement
SLO	Service Level Objective

SLM	Service Level Management
SD	Service Definition
SI	Service Instance
SNMP	Simple Network Management Protocol
SM	Service Manager
TTR	Time To Repair
USLAM	Universal Service Level Agreement Manager

### **Software Versions**

The software versions referred to in this document are as follows:

Software	Version
HP Universal SLA Manager	V4.1
Red Hat Linux 6.5 64-bit	6.5 (*)
Oracle client for Linux 64-bit	11g Release 2 (11.2.0.4) (*)
Oracle client for Windows 32- bit	11g Release 2 (11.2.0.4) (*)
Enterprise DB Postgres Plus Advanced Server	9.3
Windows	Windows Server 2008
Internet Explorer	9.0 or upper
Firefox	27.0 or upper
Google Chrome	32.0 or upper
SAP Business Objects Enterprise	BO XI 3.1 SP5 (12.5.0.1190)
SAP Business Objects Data Service	BO DS 4.2 SP2 (14.2.2.446)
Liferay Portal	6.1.1 CE GA2

(\*) Specified servers versions have been successfully tested by Hewlett-Packard. Incremental releases of the specified versions defined by the last number in the server name will be supported as they are made available, but may not have been tested by Hewlett-Packard. Exceptions in support will be documented.

### **Associated Documents**

A list of existing HP Universal SLA Manager documents is given below for your reference:

- HP Universal SLA Manager Release Notes
- HP Universal SLA Manager Support Matrix
- HP Universal SLA Manager User Guide

## **Reference Documents**

A list of reference documents is given below for your reference:

Document Title	URL
SAP BusinessObjects Enterprise <sup>™</sup> XI 3.1 SP5 Installation Guide for Windows	http://help.sap.com/boe31sp5/
SAP BusinessObjects Enterprise™ Administrator's Guide	http://help.sap.com/boe31sp5/
SAP BusinessObjects Enterprise XI 3.1 SP5 for Windows – Supported Platforms	http://scn.sap.com/docs/DOC- 20551
SAP BusinessObjects Enterprise™ InfoView User's Guide	http://help.sap.com/boe31sp3
SAP BO Building reports using Web Intelligence	http://help.sap.com/businessob ject/product_guides/boexir3/en /xi3_web_intelligence_html_rep ort_panel_en.pdf
SAP BusinessObjects Information platform services 4.1 Support Package 2	https://help.sap.com/bods42/
SAP BusinessObjects Data Services <sup>™</sup> XI 4.2 SP2 Installation Guide for Unix	https://help.sap.com/bods42/
SAP BusinessObjects Data Services <sup>™</sup> 4.2 SP2 Management Console: Administrator Guide	https://help.sap.com/bods42/

## **Typographic Conventions**

This document uses the following conventions to identify special information:

Convention	Information Type/Example
[] (square brackets)	Interface components requiring user actions e.g. Buttons. Ex: Click [Finish] to complete the Import wizard.
( ) [round brackets]	Supplementary information <i>Ex</i> : Configuration Item (CI).
Bold type	Fields names, menus, window pane names Ex of menus: Admin $\rightarrow$ Service Level Management $\rightarrow$ Repository.
<i>Italic</i> type	Important information and/or concepts. Ex: The output is an <i>.XML</i> file.

## Symbols used in this Guide

Symbols	Information
	Note Draws your attention to additional information about a software function/feature.
Ø	Important Draws your attention to important information regarding the proper usage of a software function/feature.
V	Caution Draws your attention to an important warning.

## Support

Please visit our HP Software Support Online Web site at: <u>www.hp.com/go/hpsoftwaresupport</u> for contact information, and details about HP Software products, services, and support.

The Software support area of the Software Web site includes the following:

- Downloadable documentation
- Troubleshooting information
- Patches and updates
- Problem reporting
- Training information
- Support program information.

# **Chapter 2 USLAM License**

After installation, USLAM Product will activate a trial license for 90 days (InstantOnLicense). After expiration of this date, you definitively need a commercial license to continue to use the product.

# 2.1 Obtaining a USLAM License

A license key password is required to use HP Universal Service Level Agreement Manager (USLAM). Licensing is managed with AutoPassJ (automatically installed with the USLAM installation. You must obtain a license key to be able to start using the product).

The standard process for a released product is the following:

The system administrator of the product must go to the **Webware** site and download the perpetual license to use the product. To request perpetual license passwords, you need the following items:

- Entitlement Certificate, which contains the HP product number and order number.
- Your company or organization information.

The best way to obtain product licenses is through the web site: **www.webware.hp.com** 

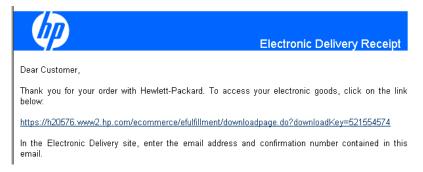
You can also contact the HP Password Center by using fax, email, or phone. This information is available on the Password Request Form and the License Entitlement Certificate. In order to obtain product licenses, you need the License Entitlement Certificate.

# 2.2 Using the web site

Requesting your license key(s)

Step one: Go to the Licensing Portal at www.webware.hp.com

- If you have ordered E-Delivery software products, the Electronic Delivery Receipt includes a direct link to the Licensing Portal with the Entitlement Order Number (EON) already pre-populated.



- If not, access the HP Licensing for Software Portal using the following link www.hp.com/software/licensing.

Step two: Sign-In

- Sign into the HP Licensing for Software Portal with HP Passport
- Enter the Entitlement Order Number (EON) in the field provided.

The EON is located on the Entitlement Certificate(s) you received with your order.

If ordered electronically, the Electronic Delivery Receipt includes a direct link to the Licensing Portal with the EON already pre-populated.

#### Step three: Product Selection

- Select the product(s) for which to activate licenses.
- You can do this selection by either product family or individual product.

Search Entitlement	ts to Activate 0	
Resources	3 Return	
» Home	Use this page to search for and select entitlements to activate. After providing the search criteria, click Search Entitlements. Check the box next to activate, then click Activate. Click here for additional Search Tips	ich entitlemen
<ul> <li>Assets</li> <li>Activation</li> </ul>	EON: DG_SS_T1 [Clear EONs] [Add more EONs]	
» Activate » Certificates » Target Dashboard	Search Entitlements	
» Upgrade » Rehost	Showing: 1-2 of 2 Activate Select All Clear All	
» Reports » Administration	EON: DG_SS_T1 Entitlement Avail Qty	Туре
<ul> <li>» Help</li> <li>» Migrate Licenses</li> <li>» Contact Licensing Support</li> </ul>	StiteScope Fallover HP Admin Group HP Admin Group Product #SIS-HK Version All: US English: License entitlement Product #SIS-HK Version All: US English: License entitlement	 Target
» Overall Tutorial » How-to Demos	EON: DG_SS_T1 Entitlement Avail Qtv	Tyne
» Quick Start Guide	SteScope III BiteScope Monitors 1:50 Points Software E-LTU S0 HP Admin Group Product #T5714A4E; Version:Alt; US English; License entitlement	Target
Related Links	Showing: 1-2 of 2 Activate Select All Clear All	

**Step four**: Activation information

- Enter Target Name.
- Target Name is a customer-defined identifier, for either a real or virtual machine where licenses will be installed. A Target can be defined as the system, machine, host, server, cluster, or device on which an entitlement is activated. A license is linked to a specific Target Name.
- A Target is not a locking parameter; it is a way to organize licenses. There can be several licenses associated with one Target, each with its own unique locking parameter.
- Enter Quantity to activate and version.

**Step five**: Confirmation information

- Complete the "Email to" field for where email and license keys should be sent to.
- Enter any notes for this transaction.

#### Step six: Complete Screen

- The Activation process is complete. The license certificates and license keys are delivered to requestor.
- From this screen, you can email certificates or view certificates.

Activate Entitlemer	nts 0				
Resources	G Return to	search Ass	et Dashboard   Target Dashb	oard	
» Home » Assets		(1) Search		② Activate	3 Complete
» Activation » Activate				can view or email the certificate, or se	lect a link from the page toolbar.
» Certificates » Target Dashboard	<ol> <li>The certification</li> </ol>	icate is being s	ent automatically to the regis	ered user.	
» Upgrade	🔗 Email cer	tificate View	certificate		
» Rehost » Reports	Target Name		Activation Information	n	
» Administration » Help » Migrate Licenses	[View sur	e <b>st2-Fall2012</b> mmary]	Activation date: S Certificates sent to: s		
» Contact Licensing Support » Overall Tutorial		Annotation	Installation Instructions	Key	
» Overall Tutonal » How-to Demos » Quick Start Guide	Save to File	License key	Please see your license certificate for complete installation instructions. This information has also been emailed to you upon	How to install the SiteScope 11x lice	ense.pdf
Related Links			completion of the license generation process.		
» Software Updates » Business Support Center	Save to File	License key	Please see your license certificate for complete installation instructions. This information has also been emailed to you upon	# HP SiteScope Failover Points ACLC A9MA H9PY CHVY V2A4 HWSI 4AG2 CRYP DXEN KZK2 392Q GGU FZNG 4FPL V3C [TRUNCATED] View	6 D2RJ N6KJ 2KGG NYT9 38XL
HP Passport			completion of the license generation process.		

More in depth instructions of Licensing Portal functionality are provided in the "How-to Demos" available from the portal home page.

The license key received will be installed or updated following the process described in 4.1.8: Installing a USLAM License.

# **Chapter 3 USLAM Introduction**

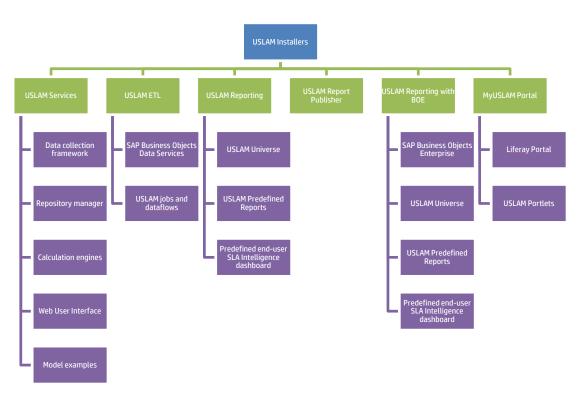
The USLAM installer is designed to aid the user in installing and configuring USLAM product with utmost ease and precision. The following section lists the various components of the USLAM solution, and explains how to install and configure these components, providing examples throughout the procedure.

## 3.1 Overview

The USLAM solution consists of several integrated modules, each having a different set of functionality. These modules are listed below.

The USLAM product is delivered as several software kits:

Figure 1: USLAM Software Kits



### 3.1.1 USLAM Services

The USLAM Services package contains 5 different modules:

- 1. Repository Manager
- 2. Web UI
- 3. Calculation Engines
- 4. Collectors
- 5. Model examples

Repository Manager and the Web UI have to be installed on the same host. Calculation Engines and Collectors can be installed on different hosts.

### 3.1.1.1 Data collection framework

A framework allows you to build and run any number of data collectors. The supported types of data are: data records, performance metrics and tickets.

### 3.1.1.2 Calculation Engines

This is the heart of the solution where all compliance calculations take place.

### 3.1.1.3 Repository Manager

The Repository Manager also includes Dataload tools used to populate database. It is the starting point from which artifacts can be loaded into the system.

### 3.1.1.4 Web User Interface

It contains the USLAM Web User interface used by administrator or operators to monitor, manage and create SLA.

### 3.1.2 USLAM ETL

The USLAM ETL package is used to build the Datamart that will store and organize the historical data of your SLA in order to optimize the production of reports.

It is powered by SAP Business Objects Data Services.

### 3.1.3 USLAM Reporting

The USLAM Reporting package offers a complete Reporting solution. There are 3 kits available:

#### 1. HP USLAM Reporting Software:

the Business Object Enterprise XI solution Note: This package must not be installed if you already have a Business Object Enterprise server installed

- 2. HP USLAM Universe and Standard Reports: the USLAM Universe and USLAM standard reports, standard reporting dashboards relying on BOE XI
- **3. HP USLAM Report Publisher:** an optional tool for the automation of report publications

### 3.1.4 MyUSLAM Portal

As an option, USLAM delivers a new end user community portal called 'MyUSLAM'.

This highly customizable portal embeds several USLAM portlets that can be used to build private or public business dashboards, extending business metrics visibility to business managers, end customers and partners.

Portlets bundled by MyUSLAM are:

- 1. SLA Status Snapshot
- 2. SLA Status
- 3. SLA Item Status
- 4. Clause Status

5. User Import

# 3.2 Installation Package

The following list identifies the installer kits for each of the modules described in the earlier section:

Package	OS	Installer
USLAM Services	Linux	HP_USLAM_Services-V4.1-MR.bin
USLAM ETL	Linux	HP_USLAM_ETL-V4.1-MR.bin
USLAM BOE	Windows	HP_USLAM_BOE-V4.1-MR.tar (not needed if you have Business Objects Enterprise installed)
USLAM Reports	Windows	HP_USLAM_Reporting-V4.1-MR.biar
USLAM Report Publisher	Windows	HP_USLAM_Report_Publisher-V4.1-MR.exe
	Linux	HP_USLAM_MyUSLAMPortal-V4.1-MR.bin
MyUSLAM portal	Windows	HP_USLAM_MyUSLAMPortal-V4.1-MR.exe

To install USLAM solution, you will have to install several components, it is recommended to install and configure the following components in order:

- 1. USLAM Services (see Error! Reference source not found.)
- 2. USLAM ETL (see Error! Reference source not found.)
- 3. USLAM Reporting (see Error! Reference source not found.)
- 4. MyUSLAM Portal (optional) (see Chapter 8)

# 3.3 Code Signing

Below mentioned procedure\* allows you to assess the integrity of the delivered Product before installing it, by verifying the signature of the software packages.

Pick the signature (.sig) file shipped along with the product and use following GPG command

gpg --verify <product.sig> <product>
Example: gpg --verify VPNSVP-X51-3A.zip.sig VPNSVP-X51-3A.zip
## Note: Look for the comments shown below in the command output
Good signature from "Hewlett-Packard Company (HP Code signing Service)"

Note: If you are not familiar with signature verification using GPG and intended to verify HP Product signature, follow the steps given below.

1. Check whether gnupg gpg is installed on the system. If not, install gnupg gpg

- 2. Configure GPG for accepting HP signature. The steps are the following:
  - a. Log as root on your system
  - b. Get the hpPublicKey from following location:

<u>https://h20392.www2.hp.com/portal/swdepot/displayProductInfo.do?productNum</u> <u>ber=HPLinuxCodeSigning</u> and save it as hpPublicKey.pub

Note that the hpPublicKey file will be located in the root's home directory.

c. Follow the instruction found at above URL in the "Verification using GPG" section.

\*HP strongly recommends using signature verification on its products, but there is no obligation. Customers will have the choice of running this verification or not as per their IT Policies.

# 3.4 Prerequisite

Before the installation begins, the following primary system checks are made. If your operating system fails to meet any one of these checks, the installation will abort.

- Is the operating system 64-bit Red Hat Linux?
- Do you install with root?
- Is X window service installed on Linux system?
- Is there sufficient disk space?

Please refer to the **HP USLAM Support Matrix** for hardware and software requirement.

# Chapter 4 Installing and Configuring USLAM Services

# 4.1 Installing USLAM Services

## 4.1.1 Installation Kit

The installation kit for the USLAM solution is provided as .*bin* file: **HP\_USLAM\_Services-V4.1-MR.bin** 

### 4.1.2 Installation Wizard

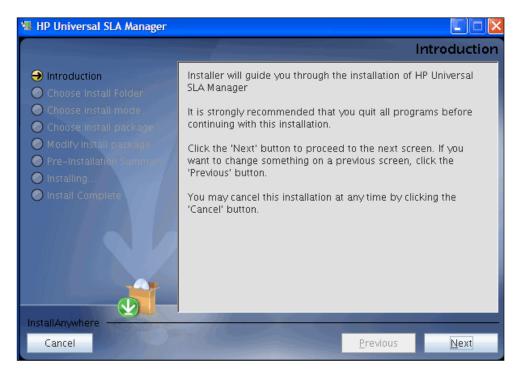
To install the USLAM solution, you will be required to run the USLAM Installation Wizard and perform the following steps:

- 1. Log on to the Linux server with appropriate write access for the installation directory.
- 2. Locate and browse the USLAM installation kit and then run the installation wizard by running command line: ./HP\_USLAM\_Services.bin



Please make sure that the HP\_USLAM\_Services.bin file has 'execute' permission and that a X-Window service is installed on the Linux system

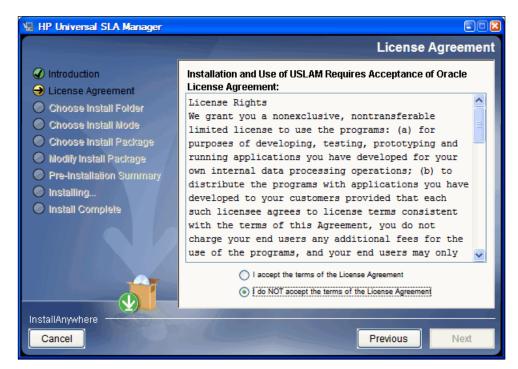
- 3. The installer displays a progress indicator and deploys the installation files on your Linux system
- 4. Once the installation files are deployed, the HP Universal SLA Manager installation wizard displays



### **Figure 2: USLAM Services Installation - Introduction**

- 5. Make sure you follow the instructions displayed on this window and then click [Next]
- 6. The License Agreement window displays

### Figure 3: USLAM Services Installation – License Agreement



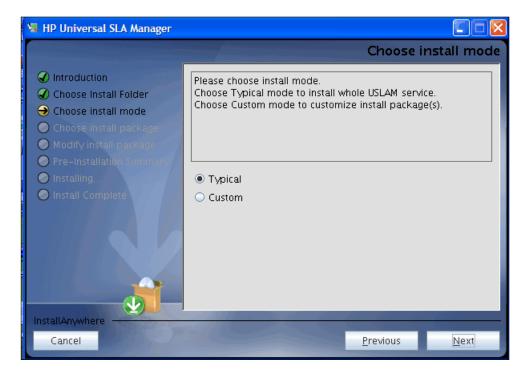
- 7. Select I accept the terms of the License Agreement and then click [Next].
- 8. The next screen asks you to choose an Installation Folder

📲 HP Universal SLA Manager		
	Choos	e Install Folder
<ul> <li>Introduction</li> <li>Choose Install Folder</li> <li>Choose Install package</li> <li>Choose Install package</li> <li>Modify Install package</li> <li>Pre-Installation Summer</li> <li>Installing</li> <li>Install Complete</li> </ul>	Please choose the install folder /opt/USLAM Restore Default Folder	Ch <u>o</u> ose
Cancel	<u>Previous</u>	Next R

### Figure 4: USLAM Services Installation – Choose Install Folder

- 9. Browse and select the location on your system where you would like to install USLAM Services. Click [Choose...] to browse or click [Restore Default Folder] to auto-enter the default installation path
- 10. Click [Next]. The next screen asks you to choose the Installation Mode

### Figure 5: USLAM Services Installation – Choose Install mode



11. Select either **Typical** to install complete USLAM Services or **Custom** to choose the package(s) you want to install. If you select **Typical**, skip to step 14.

12. If you select **Custom**, the next screen asks you to select the package(s) you want to install

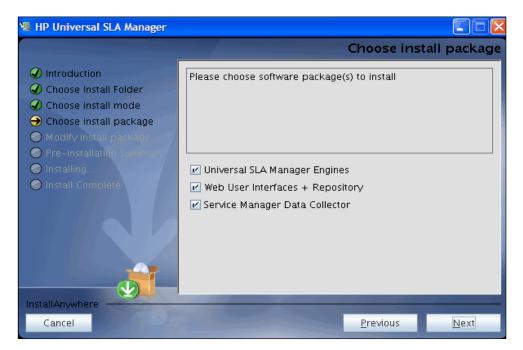


Figure 6: USLAM Services Installation – Choose Install Package

- 13. Select the software package(s) to install. At least one software package must be selected
- 14. Click [Next]. The Pre-Installation Summary window displays

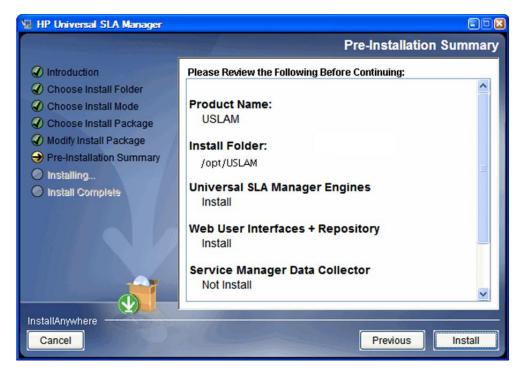


Figure 7: USLAM Services Installation – Pre-installation Summary

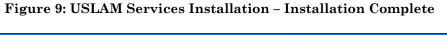
15. Review the summary information and then click [Install] to begin installation.

16. The installer displays a progress indicator



Figure 8: USLAM Services Installation – installing USLAM

17. Once the installation is complete, the 'Install Complete' window appears





**18**. Click [Done] to complete the installation and follow instructions in next chapters to configure USLAM Services



The install log is located at <INSTALL\_DIR>/install.log.

## 4.1.3 Creating USLAM Services Database User

Before the installation, you must create a new user for the USLAM Services in the Database (the user name taken as example in this document is USLAM\_SERVICE).

Please contact your system Database DBA to create the user, performing the following steps:

- 1. Log in to the database server as dba user
- 2. To create a user, use the following command (user name is "USLAM\_SERVICE" and password is "USLAM\_SERVICE"):

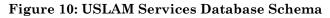
SQL> create user USLAM\_SERVICE identified by USLAM\_SERVICE;

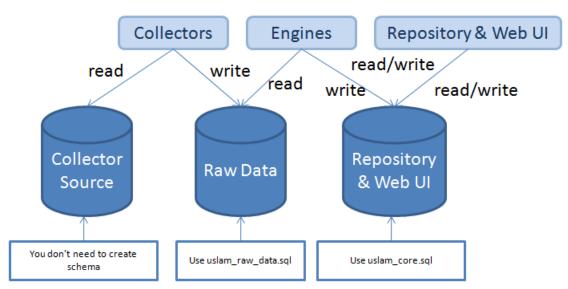
3. To grant proper privileges:

```
SQL> grant create session,create procedure,create
sequence,create table,create trigger,create view to
USLAM_SERVICE;
SQL> grant unlimited tablespace to USLAM SERVICE
```

## 4.1.4 Creating USLAM Services Database Schemas

You need to create database schema for USLAM Services manually before performing any other configuration. The following figure provides a depiction of the steps:





# 4.1.4.1 Creating USLAM Services Database Schemas in Oralce database

You will require *sqlplus* to execute the scripts mentioned in the following steps.

The following database scripts will be automatically installed to *<INSTALL\_DIR>/scripts* by the USLAM Services installer.

- uslam\_core.sql
- uslam\_core\_oracle.sql
- uslam\_raw\_data.sql

To create the schema, you will be required to perform the following steps:

- Log in to the Oracle with sqlplus tool using the USLAM\_SERVICE username and password, by entering: sqlplus <USLAM\_SERVICE \_User >/< USLAM\_SERVICE \_Password>@ < ORACLE\_SID>
- 2. To create the Universal SLA Manager Engines schema and the Web User Interfaces/Repository schema, you will be required to execute *uslam\_core.sql* and *uslam\_core\_oracle.sql* scripts.

@/<USLAM\_INSTALL\_DIR>/scripts/uslam\_core.sql @/<USLAM\_INSTALL\_DIR>/scripts/uslam\_core\_oracle.sql

3. To create the Raw Data schema (output tables of the USLAM collectors: tickets, data records), you will be required to execute the uslam\_raw\_data.sql script.

@/<USLAM\_INSTALL\_DIR>/scripts/uslam\_raw\_data.sql

# 4.1.4.2 Creating USLAM Services Database Schemas in EnterpriseDB database

You will require *edbplus* to execute the scripts mentioned in the following steps.

The following database scripts will be automatically installed to *<INSTALL\_DIR>/scripts* by the USLAM Services installer.

- uslam\_core.sql
- uslam\_core\_edb.sql
- uslam\_raw\_data.sql

To create the schema, you will be required to perform the following steps:

- Log in to the EnterpriseDB with *edbplus* tool using the USLAM\_SERVICE username and password, by entering: edbplus.sh <USLAM\_SERVICE \_User >/< USLAM\_SERVICE \_Password>@ < DATABASE NAME>
- 2. To create the Universal SLA Manager Engines schema and the Web User Interfaces/Repository schema, you will be required to execute *uslam\_core.sql* and *uslam\_core\_edb.sql* scripts.

```
@/<USLAM_INSTALL_DIR>/scripts/uslam_core.sql
@/<USLAM_INSTALL_DIR>/scripts/uslam_core_edb.sql
```

3. To create the Raw Data schema (output tables of the USLAM collectors: tickets, data records), you will be required to execute the uslam\_raw\_data.sql script.

@/<USLAM\_INSTALL\_DIR>/scripts/uslam\_raw\_data.sql

## 4.1.5 Configuring USLAM Services Database

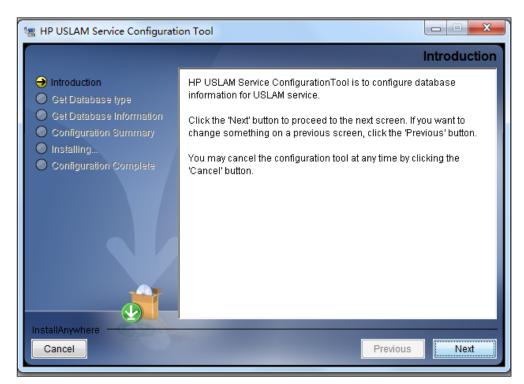
To run USLAM Services Configuration tool, you need to create a schema for USLAM Services (as described in 4.1.4 Creating USLAM Services Database Schemas) and then run the tool, performing the following steps:

- 1. Log in to Linux server with appropriate write access for the installation directory.
- Locate and browse to <*INSTALL\_DIR*>/bin and then run the configuration tool for USLAM Services by running the command line: ./configuration\_tool.sh



Please make sure that the **configuration\_tool.sh** file has 'execute' permission and that a X-Window service is installed on the Linux system

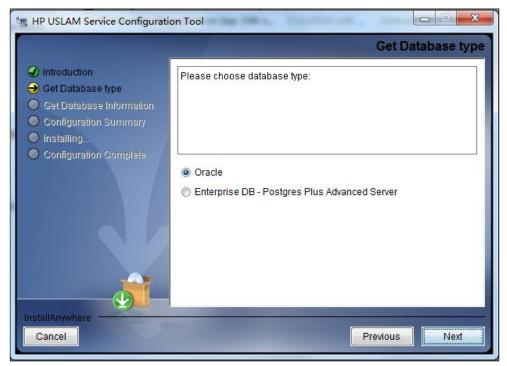
- 3. The installer displays a progress indicator and deploys the installation files on your Linux system
- 4. Once the installation files are deployed, the HP USLAM Services Configuration Tool wizard displays.



### Figure 11: USLAM Services Configuration Tool - Introduction

5. Click [Next]. The Get Database type window displays

Figure 12: USLAM Services Configuration Tool – Database type



6. Select database type .Click [Next]. The Get Database Information window displays

#### Figure 13: USLAM Services Configuration Tool – Database Information

📲 HP USLAM Service Configurati	ion Tool
	Get Database Information
<ul> <li>Introduction</li> <li>Get Database type</li> <li>Get Database Information</li> <li>Configuration Summary</li> </ul>	Please Input Database information for USLAM service. Click "Next" to test database connection Database Host:
<ul> <li>Installing</li> <li>Configuration Complete</li> </ul>	Database Port: 1521
	Database Name:
	Password:
InstallAnywhere Cancel	Previous

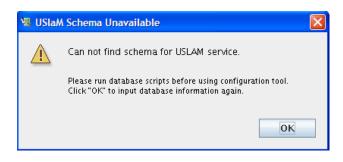
- Enter the required information in the relevant text fields i.e. Database Host, Database Port, Database Name, User Name and Password (this is the DB user created in 4.1.3 "Creating USLAM Services Database User")
- 8. Click [Next]. The configuration tool will check the information you entered, and display warning message if the check fails.
- 9. If the information is not correct, the installer displays the following warning. Click [OK] to enter again

#### Figure 14: USLAM Services Configuration Tool – Incorrect Database Information

🖫 Datab	base information is not correct	×
	Database information is not correct Click "OK" to input database information again.	
		ОК

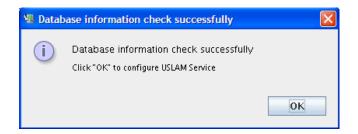
10. If USLAM schema cannot be found, the installer displays the following warning. Click [OK] to enter the information again

### Figure 15: USLAM Services Configuration Tool – Unavailable USLAM Schema



11. If the information check is successfully, the installer displays the following message.

Figure 16: USLAM Services Configuration Tool – Successfully Check



12. Click [OK]. The Configuration Summary window displays.

### Figure 17: USLAM Services Configuration Tool – Configuration Summary



13. Review the Configuration information before beginning to configure USLAM Services. Click [Install] to begin the configuration.

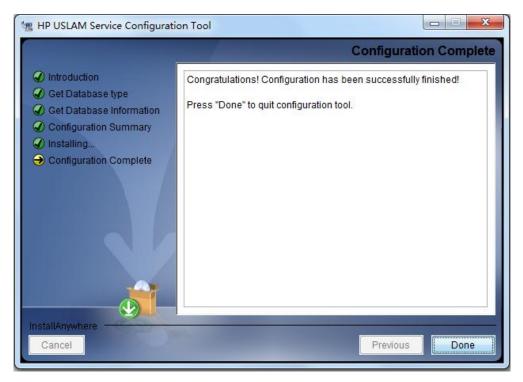
### 14. The configuration progress indicator displays

Figure 18: USLAM Services Configuration Tool – Installing



15. Once the configuration is complete, the Configuration Complete window displays.

Figure 19: USLAM Services Configuration Tool – Configuration Complete



16. Click [Done] to finish the configuration.

# 4.1.6 Specific Settings for Oracle Database Connection (Oracle RAC, ...)

The JBOSS data source files generated by the USLAM installer work only for a simple DB server host configuration. In case specific Oracle connection requirement is needed, such as connecting to an Oracle RAC data base configuration.

The  $\{USLAM_HOME\}/jboss/server/default/deploy/uslam-ds.xml need to be manually patched before USLAM start.$ 

If the entry for your database connection in your \${ORACLE\_HOME}/NETWORK/ADMIN/tnsnames.ora file is:

```
USLAM_prod=(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=<myDbHost>)(
PORT = 1530)) (CONNECT_DATA = (SERVER = DEDICATED)
(SERVICE_NAME=<myDbServiceName>)))
```

#### Then the content of the file:

\${USLAM\_HOME}/jboss/server/default/deploy/uslam-ds.xml should be manually patched as follows (where slam\_user, slam\_password will be set with the correct values):

```
<datasources>
         <local-tx-datasource>
           <jndi-name>uslamDatasource</jndi-name>
           <connection-
       url>jdbc:oracle:thin:@(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)
       )(HOST=<myDbHost>)(PORT=1530))(CONNECT DATA=(SERVER=DEDIC
       ATED) (SERVICE NAME=<myDbServiceName>))) </ connection-url>
           <driver-class>oracle.jdbc.OracleDriver</driver-class>
           <user-name>slam user</user-name>
           <password>slam password</password>
          <min-pool-size>3</min-pool-size>
           <max-pool-size>32</max-pool-size>
           <check-valid-connection-sql>select 1 from
       dual</check-valid-connection-sql>
           <exception-sorter-class-
       name>org.jboss.resource.adapter.jdbc.vendor.OracleExcepti
       onSorter</exception-sorter-class-name>
           <valid-connection-checker-class-name>...</valid-
       connection-checker-class-name>
           <metadata>
              <type-mapping>Oracle10g</type-mapping>
           </metadata>
         </local-tx-datasource>
</datasources>
```

### 4.1.7 Configuring USLAM Services properties

Please check the "USLAM Platform Configuration" chapter from the HP USLAM Administration Guide where you can find the mandatory USLAM parameters.

## 4.1.8 Installing a USLAM License

The USLAM service will verify the license at startup and the status will be recorded in console and in a log file. You can view the license status message from the log file located at: <INSTALL\_DIR>/jboss/server/default/ slam\_licensecheck.log.

If the USLAM license expires, it will not be possible to restart the USLAM services after a stop.

Please refer to chapter 1 of this Guide in order to request a valid USLAM license.

### 4.1.9 Starting USLAM Services

Once you have installed and configured the USLAM Services you can start these services by performing the following steps:

- 1. After the installation and configuration of USLAM Services, go to <*INSTALL\_DIR*>/bin and enter uslam\_start.sh to start USLAM services
- 2. It can take few minutes to be completely started. You can check if the USLAM services are running by executing the following command:

export JAVA\_HOME=<INSTALL\_DIR>/jre
<INSTALL DIR>/jboss/bin/twiddle.sh get "jboss.system:type=Server" Started

- 3. If the response from this command is: Started=true, then the USLAM services are running
- 4. Going forward from this point, you can start the USLAM Web User Interface or start to data load the USLAM database.
  - Launch the USLAM Web UI (see 7.1 Logging in to the USLAM UI)
  - Run the USLAM dataload tool located at <INSTALL\_DIR>/bin/uslam\_load.sh

At this stage, the USLAM Services are installed and configured.



uslam start script will also execute the license tool before starting to validate you get an valid license. It will warm you in case you have an expired license.

# 4.2 Stopping USLAM Services

To stop USLAM Services you will be required to perform the following steps:

- 1. Browse to the directory where USLAM Services are installed, and browse to: <INSTALL\_DIR>/bin
- 2. Enter uslam\_stop.sh with the correct parameters to stop USLAM services (uslam\_stop -h to get the complete usage)
- 3. You can check if the *jboss* has stopped by executing the following command:

#### ps -ef | grep jboss

4. If there are no active processes for jboss, it implies USLAM Services is not running.

# 4.3 Modifying USLAM Services Installation

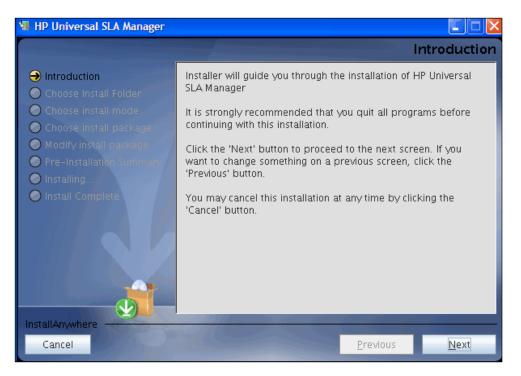
To modify an existing installation (i.e. either install a new module or remove a previously installed module) of the software package(s), you will be required to run the USLAM Installation Wizard performing the following steps:



Make sure you stop completely the USLAM Services before modifying the installation

(see 4.2 Stopping USLAM Services)

- 1. Locate and browse to the USLAM installation kit and then run the installation wizard by running command line ./HP USLAM Services.bin
- 2. The installer displays a progress indicator and deploys the installation files on your Linux system
- 3. Once the installation files are deployed, the HP Universal SLA Manager installation wizard displays



#### **Figure 20: USLAM Services Installation - Introduction**

- 4. Make sure you follow the instructions displayed on this window and then click [Next]
- 5. Click [Next]. The Choose Install Folder window displays

📲 HP Universal SLA Manager		
	Choose Ir	nstall Folder
<ul> <li>Introduction</li> <li>Choose Install Folder</li> <li>Choose install mode</li> <li>Choose install package</li> <li>Modify install package</li> <li>Pre-Installation Summer</li> <li>Installing</li> <li>Install Complete</li> </ul>	Please choose the install folder /opt/USLAM  Restore Default Folder	Ch <u>o</u> ose
InstallAnywhere Cancel	<u>Previous</u>	<u>N</u> ext

Figure 21: USLAM Services Installation – Choose Install Folder

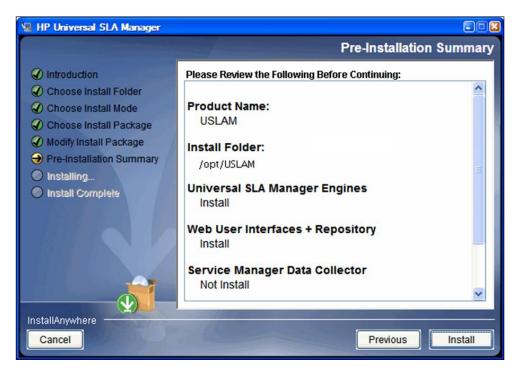
- 6. Choose the folder that USLAM has been installed in. If the folder chosen is not USLAM installed folder, installer will run with the new install mode
- 7. Click [Next]. The Modify Install Package window displays. The software package(s) which has been installed will be shown in the previously selected state. Select the packages you want to install or un-install. Selected package(s) will be installed if not installed already. Un-selected package(s) will be un-installed if installed already



Figure 22: USLAM Services Installation – Choose Install Package

8. Click [Next]. The Pre-Installation Summary window displays

## Figure 23: USLAM Services Installation – Pre-installation Summary



- 9. Review the summary information before beginning to install/uninstall USLAM. Click [Install] to begin installation
- 10. Once the Install/Uninstall completes, the Install Complete window displays

#### Figure 24: USLAM Services Installation – Installation Complete



11. Click [Done] to finish software package installation or un-installation.

Please refer to *HP USLAM User Guide*, "Logging in to the USLAM UI" in order to start the USLAM web UI.

## 4.4 Uninstalling USLAM Services

To uninstall the USLAM services, you will be required to run the USLAM Installation Wizard performing the following steps:



Make sure you stop completely the USLAM Services before uninstalling (see 4.2 Stopping USLAM Services)

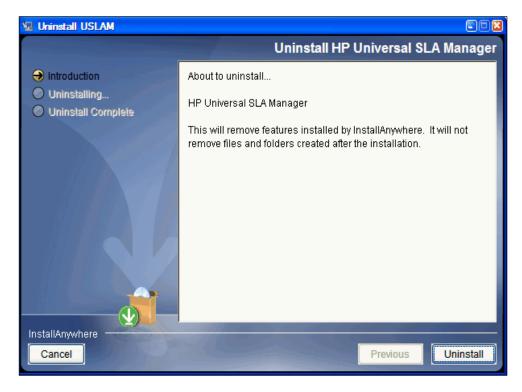
1. Go to <install\_DIR>/Uninstall and run command ./Uninstall to uninstall USLAM services



Please make sure that the Uninstall file has 'execute' permission and that a X-Window service is installed on the Linux system

2. Once the progress indicator completes, the Uninstall HP Universal SLA Manager wizard displays

Figure 25: USLAM Services Uninstallation – Introduction



- 3. Review the Uninstall summary and then click [Uninstall]
- 4. The un-installation progress indicator displays

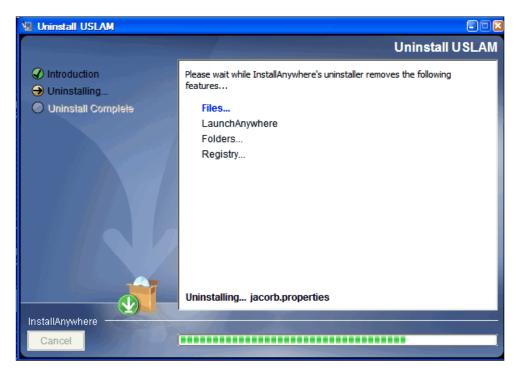
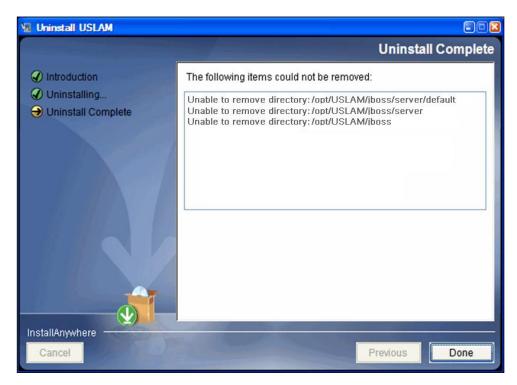


Figure 26: USLAM Services Uninstallation – Uninstalling

5. You can manually remove the files that could not be removed by the uninstaller

### Figure 27: USLAM Services Uninstallation – Uninstallation Complete



6. Click [Done] to exit the un-installation wizard.

# Chapter 5 Installing and Configuring USLAM ETL

This chapter is designed as a guide to install and configure the HP Universal SLAM ETL software kit.

The software kit includes the following ETL components:

- USLAM ETL jobs, functions and datastores based on:
  - SAP Business Objects Information Platform Services (SBOP IPS) 4.1 SP3
  - SAP Business Objects Data Services (BODS) 4.2 SP2
- USLAM Datamart Scripts in charge of generating the schema for USLAM reporting solution. The installer extracts these scripts to the USLAM\_datamart\_scripts folder, and the scripts should be executed before running ETL Configuration Tool.

# 5.1 Installing USLAM ETL

## 5.1.1 Installation kit

The installation kit of USLAM ETL is: HP\_USLAM\_ETL-4.1.0.bin

Make sure that all these statements are valid in your environment before starting the USLAM ETL installation

- the server Linux version is RHEL 6.5 or higher
- the server has a minimum of 4 processors (or 2 dual core processors) (with a minimum of 2GHz) and 8 GB of memory
- 19 GB of disk space are available
- the Security-Enhanced Linux (SELinux) is disabled (sestatus command returns disabled)
- X Window and OpenGL libraries are installed



- The Linux library libstdc++.so.6 is installed in /usr/lib/. You can check this by running the command:
  - locate libstdc++.so.6
  - If not installed, please install it with the following command: yum install libstdc++.so.6
- The other libs that must be installed are : compat-libstdc++-33
- glibc
- There is a high speed network connection between the ETL server and the DB server
- hostname command returns the name of the host (and not localhost)
- hostname -f command returns the complete Fully Qualified Domain Name of the system (and not localhost)

- ping `hostname` command returns IP address
- ifconfig command output contains the IP address returned by ping `hostname`
- /bin/ksh must be present

It's recommended that you use the following user resource limits.

You can display these settings by running the <code>ulimit -a</code> command from your *hpuslametl* user.

User resource limit	Value
core file size (blocks)	unlimited
data seg size (kbytes)	unlimited
stack size (kbytes)	2048
open files	1024
core file size (blocks)	unlimited
max memory size (kbytes)	unlimited
max locked memory (kbytes)	64
max user processes	7168
cpu time (seconds)	unlimited

## 5.1.2 Creating Groups and Users

A specific local operating system group and user are required if you are installing HP USLAM ETL:

- a HP USLAM ETL group (for example: hpuslametl)
- a HP USLAM ETL user (for example: hpuslametl)

To determine whether this group and user already exist, and if necessary, to create them, follow these steps:

- 1. To determine whether the **hpuslametl** group exists, enter the following command: **# grep hpuslametl /etc/group**
- 2. If the output of this command shows the **hpuslametl** group name, then the group already exists.
- 3. If necessary, enter the following commands to create the hpuslametl group:

#/usr/sbin/groupadd hpuslametl

- 4. To determine whether the **hpuslametl** user exists and belongs to the correct group, enter the following command: **# id hpuslametl**
- 5. If the **hpuslametl** user exists, then this command displays information about the group to which the user belongs, for example:
- uid=12842 (hpuslametl)

- gid=12843 (hpuslametl)
- groups=12843 (hpuslametl)
- 6. If necessary, complete one of the following actions:
- If the **hpuslametl** user exists, but its primary group is not **hpuslametl** or it is not a member of the **hpuslametl** group, then enter the following command:

#/usr/sbin/usermod -g hpuslametl -G hpuslametl hpuslametl

• If the **hpuslametl** user does not exist, enter the following command to create it:

#/usr/sbin/useradd -g hpuslametl -G hpuslametl hpuslametl

This command creates the **hpuslametl** user and specifies **hpuslametl** as the primary group.

7. Enter the following command to set the password of the **hpuslametl** user (**hpuslametl** user should have read/write/execute permissions to run the ETL package):

# passwd hpuslametl

<u>Before the USLAM ETL installation</u>, the *hpuslametl* user must define the value of NLS\_LANG environment variable in <u>its shell environment profile</u>. The NLS\_LANG environment variable must define the correct character set.

The format of the variable is

NLS\_LANG=<language>\_<country>.<characters\_encoding>



Those three fields must match the 'NLS\_LANGUAGE', 'NLS\_TERRITORY', 'NLS\_CHARACTERSET' values from your database server.

For example, on Oracle, to determine the currently configured character set, you can use the following request:

select \* from nls\_database\_parameters where PARAMETER = 'NLS\_LANGUAGE' OR PARAMETER = 'NLS\_TERRITORY' OR PARAMETER = 'NLS\_CHARACTERSET';

Example: export NLS\_LANG=AMERICAN\_AMERICA.UTF8



The installation program requires the system to be configured with a UTF-8 locale. To set your system locale to UTF-8, set the LANG or LC\_ALL environment variables.

For example: export LANG=en\_US.utf8 export LC\_ALL=en\_US.utf8

## 5.1.3 Installation Wizard

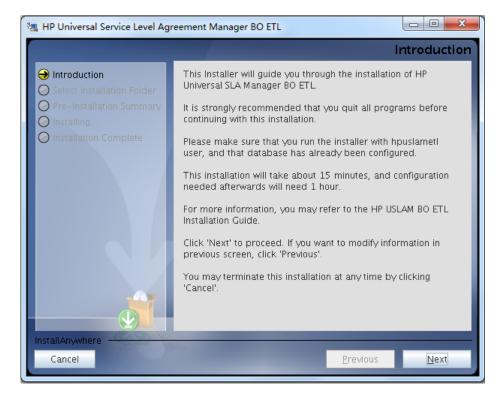
Make sure that you have a X-server running before performing this procedure. To start the installation, perform the following steps:

1. Log as **hpuslametl** 

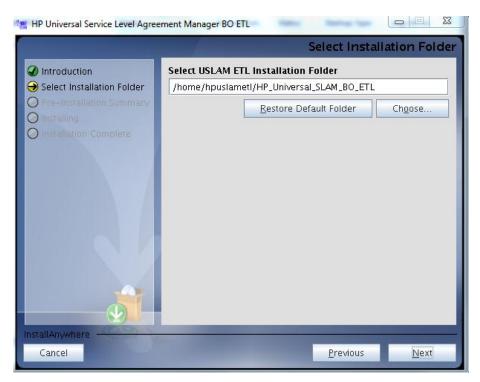
2. Use the command ./HP\_USLAM\_ETL-4.1.0.bin to start up the installation.

The Introduction dialog displays

### Figure 28: USLAM ETL Installation - Introduction



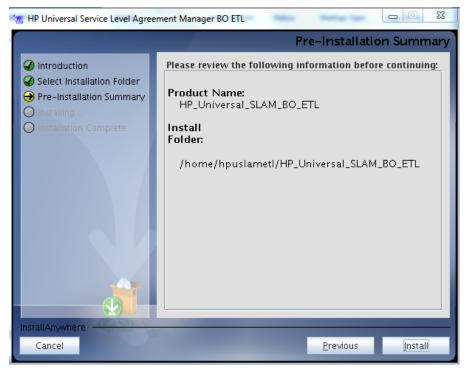
- 3. Click [Next] to continue
- 4. The Choose Install Folder window displays. Enter the location for your HP USLAM ETL installation



## Figure 29: USLAM ETL Installation – Installation Folder

- 5. Specify the location where USLAM ETL must be installed. The default location is <hpuslametl\_home\_directory>/HP\_Universal\_SLAM\_BO\_ETL (Restriction: the location must not contain any multi-byte characters. You must specify the installation location with single-byte characters only).
- 6. Click [Next] to continue
- 7. Pre-Installation Summary screen displays.

Figure 30: USLAM ETL Installation – Summary



8. Click [Install] to complete

Depending on the database server you are using, 'Oracle' or 'EnterpriseDB Postgres Plus Advanced Server', please read the following section or the next one

## 5.1.4 Configuration of USLAM ETL with Oracle Database

Make sure that all these statements are valid in your environment before starting the USLAM ETL configuration with Oracle Database



- Oracle 11g client for Linux (64 bits) is installed (installation type must be 'Runtime' or 'Administrator' but not 'Instant Client') or Oracle 11g server for Linux (64 bits) is installed



The 2 following variables must also be defined for the *hpuslametl* user before the USLAM ETL installation:

export ORACLE\_HOME=<64bOracleClientHome>
export LD\_LIBRARY\_PATH=\$LD\_LIBRARY\_PATH:\$ORACLE\_HOME/lib/

## 5.1.4.1 Define TNS Name Alias for USLAM ETL internal databases

Before the installation, it is required to create two USLAM ETL <u>internal</u> databases: **IPS DB** and **BODS Repository DB**.

First, you must define the Oracle TNS Name aliases for those two databases. As *oracle* user,

# vi \$ORACLE\_HOME/network/admin/tnsnames.ora

The following is a sample output displayed by running this command: SLAMDM = (DESCRIPTION = (ADDRESS = (PROTOCOL = TCP) (HOST = myhost.mydomain.com)(PORT = 1521)) (CONNECT\_DATA = (SID = SLAMDM)))

Modify it according to your hostname, service name for those two databases.

Once done, you can test the connection to the Oracle server listener with the following command (SLAMDM is the TNS entry name taken as example here):

## # \$ORACLE\_HOME/bin/tnsping SLAMDM

In order to optimize the connectivity to the oracle server listener, <u>you must</u> <u>define the oracle server hostname and IP address in the /etc/hosts</u> <u>system configuration file</u> (this avoids DNS calls and points directly to the oracle listener server).

## 5.1.4.2 Create USLAM ETL internal database users

Before the installation, you must create two new database users for the USLAM **IPS** database and the USLAM **BODS Repository** Database (small databases used by ETL BODS)

(the user names taken as example in this document are: IPS and BODS\_REPOS)

Please contact your Oracle database administrator to create the user, performing the following steps:

Log in to the oracle database server as **sysdba** 

Create the IPS user:

SQL> create user IPS identified by IPS;

Grant privileges:

SQL> grant connect, resource to IPS;

Create the **BODS Repository** user:

SQL> create user BODS REPOS identified by BODS REPOS;

Grant privileges:

SQL> grant connect, resource, create view to BODS\_REPOS;

## 5.1.4.3 Create Datamart database User

(the user name taken <u>as example</u> in this document is: SLA\_DATAMART)

NOTE: It is strongly recommended that your Datamart user is created on a separate Oracle instance (other than USLAM Services Database). This database will contain all the USLAM historical data.

Please contact your system Oracle DBA to create the user, performing the following steps:

- 1. Log in to the oracle database server as sysdba
- 2. Create the datamart schema:

SQL> create user SLA\_DATAMART identified by SLA\_DATAMART;

3. Grant privileges:

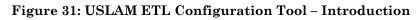
SQL> grant connect, resource to SLA\_DATAMART; SQL> grant unlimited tablespace to SLA\_DATAMART;

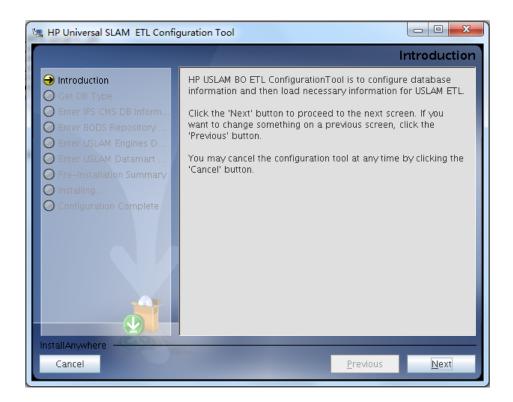
## 5.1.4.4 Configuration Wizard

Make sure that you have a X-server running before performing this procedure. To start the configuration, perform the following steps:

- 1. Log as *hpuslametl*
- 2. Go to the directory <USLAM\_ETL\_Install\_Dir>/bin
- 3. Use command ./ETL\_Configuration\_Tool.bin to start up configuration tool

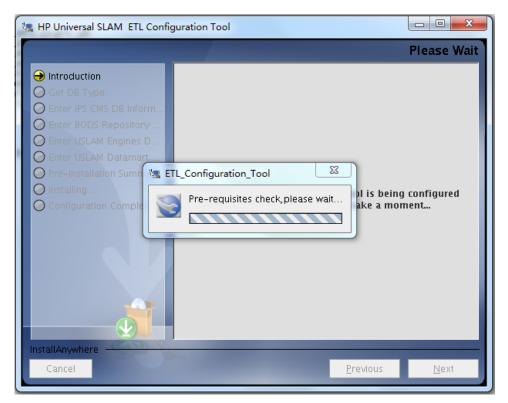
4. The ETL Configuration tool screen displays





5. Click [Next] to continue, the installation will check the pre-requisites

Figure 32: USLAM ETL Configuration Tool – Check pre-requisites



- 6. If pre-requisites check are OK, choose database type ,select Oracle
- Figure 33: USLAM ETL Configuration Tool –Database Type

🐫 HP Universal SLAM ETL Config	guration Tool
	Get DB Type
<ul> <li>Introduction</li> <li>Get DB Type</li> <li>Enter IPS CMS DB Inform</li> <li>Enter BODS Repository</li> <li>Enter USLAM Engines D</li> <li>Enter USLAM Datamart</li> <li>Pre-Installation Summary</li> <li>Installing</li> <li>Configuration Complete</li> </ul>	Please choose database type: <ul> <li>Oracle</li> <li>Enterprise DB – Postgres Plus Advanced Server</li> </ul>
InstallAnywhereCancel	Previous Next

7. Click [next].

## Figure 34: USLAM ETL Configuration Tool – IPS Database Information

📲 HP Universal SLAM ETL Configuration Tool		
	Enter IPS CMS DB Information	
<ul> <li>✓ Introduction</li> <li>✓ Get DB Type</li> <li>→ Enter IPS CMS DB Inform</li> </ul>	Please enter Oracle database information for IPS CMS. TNS Name Alias (Specified in the \$ORACLE_HOME/network/admin/tnsnames.ora)	
<ul> <li>Enter BODS Repository</li> <li>Enter USLAM Engines D</li> <li>Enter USLAM Datamart</li> </ul>	uslamdm Username	
<ul> <li>Pre-Installation Summary</li> <li>Installing</li> <li>Configuration Complete</li> </ul>	ips Password	
	•••	
InstallAnywhere Cancel	<u>P</u> revious <u>N</u> ext	

8. Enter the connection information for the IPS Database

9. Click [next].

## Figure 35: USLAM ETL Configuration Tool – BODS Repository Database Information

🥦 HP Universal SLAM ETL Configuration Tool		
	Enter BODS Repository DB Information	
<ul> <li>Introduction</li> <li>Get DB Type</li> <li>Enter IPS CMS DB Inform</li> <li>Enter BODS Repository</li> <li>Enter USLAM Engines D</li> <li>Enter USLAM Datamart</li> <li>Pre-Installation Summary</li> <li>Installing</li> <li>Configuration Complete</li> </ul>	TNS Name Alias uslamdm Database server name ccmeph13.chn.hp.com Database port 1521 SID uslamdm Username BODS_REPO	
	Password	
InstallAnywhere Cancel	<u>P</u> revious <u>N</u> ext	

 Enter the connection information for your BODS Repository Database. Many information are needed in order to configure correctly the underlying BODS server.

(When entering the Database server name, put the full name of the server)

11. Once done, click [next].

## Figure 36: USLAM ETL Configuration Tool –USLAM Engine Database Information

📲 HP Universal SLAM ETL Configuration Tool			
Enter USLAM Engines DB Information			
<ul> <li>Introduction</li> <li>Get DB Type</li> <li>Enter IPS CMS DB Inform</li> <li>Enter BODS Repository</li> </ul>	Please enter Oracle database Information for USLAM Engines. TNS Name Alias ©pecified in the \$ORACLE_HOME/network/admin/tnsnames.ora)		
Enter USLAM Engines D     Enter USLAM Datamart     Pre-Installation Summary	USLAM Username uslam		
O Installing O Configuration Complete	Password		
InstallAnywhere Cancel	<u>P</u> revious <u>N</u> ext		

12. Enter the connection information for the USLAM Engines Database.

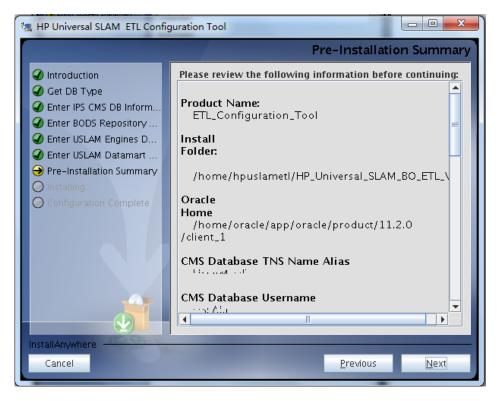
Note that the TNS alias must be configured (in tnsnames.ora) in order to access the USLAM Engines database.

13. Click [next].

#### Figure 37: USLAM ETL Configuration Tool –USLAM Datamart Database Information

📲 HP Universal SLAM ETL Configuration Tool		
	Enter USLAM Datamart DB Information	
<ul> <li>Introduction</li> <li>Get DB Type</li> <li>Enter IPS CMS DB Inform</li> <li>Enter BODS Repository</li> <li>Enter USLAM Engines D</li> <li>Enter USLAM Datamart</li> <li>Pre-Installation Summary</li> <li>Installing</li> <li>Configuration Complete</li> </ul>	Please enter Oracle database information for USLAM Datamart. TNS Name Alias (Specified in the \$ORACLE_HOME/network/admin/tnsnames.ora) uslamdm Username sla_datamart Password •••••••	
InstallAnywhere Cancel	Previous <u>N</u> ext	

- 14. Enter the connection information for your USLAM Datamart Database
- 15. Click [Next] to proceed. The 'Summary' window is then displayed Figure 38: USLAM ETL Configuration Tool –Summary



16. Click [Install] to start the configuration.

(Depending on your system, this configuration processing can take up to 50 minutes)

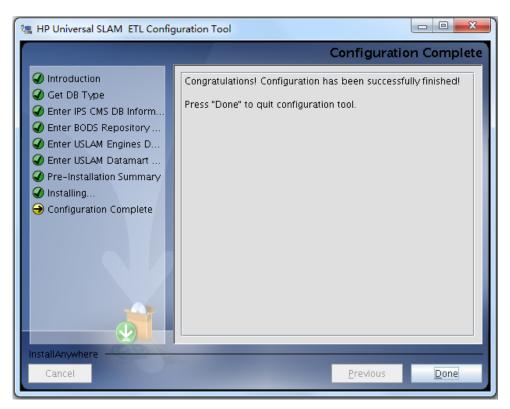


Figure 39: USLAM ETL Configuration Tool –Installation Complete

17. Click [Done] to exit the Installer.



The installation log file is <USLAM\_ETL\_INSTALL\_DIR>/ HP\_Universal\_SLAM\_BO\_ETL\_InstallLog.log and the configuration log file is <USLAM\_ETL\_INSTALL\_DIR>/bin/ETLConfigurationTool.log

## 5.1.4.5 Starting USLAM ETL servers

As hpuslametl user,

```
$ cd <USLAM_ETL_Install_Dir>/bin/
$ ./uslam etl start.sh
```

Once you have started USLAM ETL servers, you must execute the Datamart scripts on the Oracle database (see next section).

## 5.1.4.6 Executing Datamart Scripts

You must now build the Datamart schema.

The following operations assume that you have Oracle installed with the partitioning feature enabled (which is the default for the Oracle Enterprise Edition). If it is not the case, please look at the information at the end of this section.

Please perform the following steps:

1. cd <USLAM ETL InstallDir>/USLAM datamart scripts

2. Log in to the *sqlplus* tool using the Datamart username and password:

sqlplus <Datamart user name>/<Datamart password>@<Datamart Tns
String>

1. In sqlplus, run the following script in order to build the USLAM Datamart schema

```
SQLPLUS> @uslam_datamart_oracle.sql
SQLPLUS> exit
```

Your datamart schema is now created, and is ready to be populated by the ETL.

In case you do not have the partitioning feature with your Oracle installation, please perform the following steps:

1. cd <USLAM ETL InstallDir>/USLAM datamart scripts/.DDLwithoutPartitioning/



2. Log in to the *sqlplus* tool using the Datamart username and password: sqlplus <Datamart user name>/<Datamart password>@<Datamart Tns String>

3. In sqlplus, run the following script in order to create the USLAM Datamart schema SQLPLUS> @uslam\_datamart.sql SQLPLUS> exit

## **5.1.5** Configuration of USLAM ETL with Enterprise DB Postgres Plus Advanced Server Database

The following section aims at presenting the configuration of USLAM ETL based on Enterprise DB Postgres Plus Advanced Server database.



 USLAM ETL will require many connections to EDB PPAS DB. So, you must modify the PPAS configuration file *postgresql.conf* (in '*data*' folder of PPAS): there's a *max\_connection* parameter, set it to 1000, then restart PPAS DB.

## 5.1.5.1 Create Datamart database User

(the user name taken <u>as example</u> in this document is: *sla\_datamart*)

NOTE: It is strongly recommended that your Datamart user is created on a separate Enterprise DB instance (other than USLAM Services Database).

Please contact your system DBA to create the user, performing the following steps:

- 1. Log in to the Enterprise DB Postgres Plus Advanced Server database server as **dba**
- 2. Create the datamart schema:

SQL> create user sla\_datamart identified by sla\_datamart;

3. Grant privileges:

SQL> grant connect, resource to sla\_datamart; SQL> grant unlimited tablespace to sla\_datamart;

## 5.1.5.2 Configuration Wizard

Make sure that you have a X-server running before performing this procedure. To start the configuration, perform the following steps:

- 1. Log as **hpuslametl**
- 2. Go to the directory <USLAM\_ETL\_Install\_Dir>/bin
- 3. Use the command . / ETL\_Configuration\_Tool.bin to start up configuration tool
- 4. ETL Configuration Tool screen displays

Figure 40: USLAM ETL Configuration Tool – Introduction



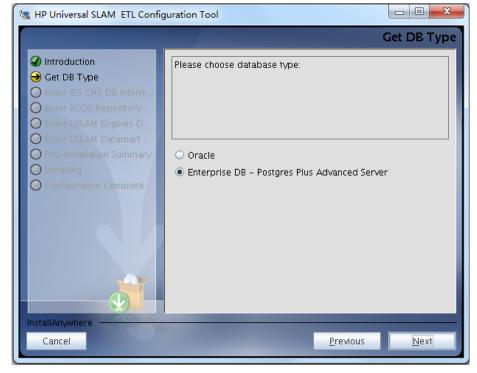
5. Click [Next] to continue, the installation will check pre-requisites



Figure 41: USLAM ETL Configuration Tool – Check pre-requisites

6. If pre-requisites check are OK, choose database type ,select Enterprise DB - Postgres Plus Advanced Server Database

Figure 42: USLAM ETL Configuration Tool – Database type



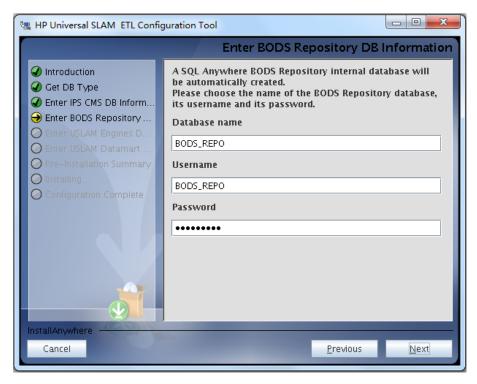
7. Click [next].

## Figure 43: USLAM ETL Configuration Tool – IPS Database Information



- 8. Enter the information for the creation of SQLAnywhere IPS Database
- 9. Click [next].

Figure 44: USLAM ETL Configuration Tool – BODS Repository Database Information



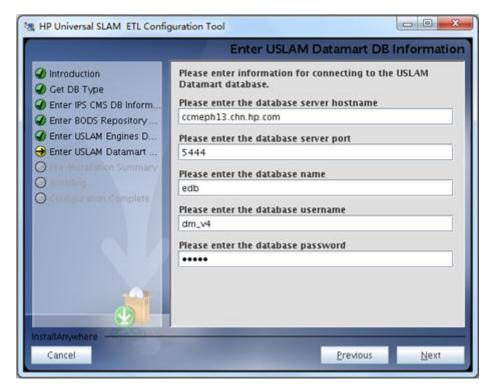
- 10. Enter the information for creation of SQLAnywhere BODS Repository Database. It's using the same port than the IPS database.
- 11. Once done, click [next].

Figure 45: USLAM ETL Configuration Tool –USLAM Engine Database Information

📲 HP Universal SLAM ETL Configuration Tool			
Enter USLAM Engines DB Information			
<ul> <li>Introduction</li> <li>Get DB Type</li> <li>Enter IPS CMS DB Inform</li> <li>Enter BODS Repository</li> <li>Enter USLAM Engines D</li> <li>Enter USLAM Datamart</li> <li>Pre-Installation Summary</li> <li>Installing</li> <li>Configuration Complete</li> </ul>	Please enter the database server port          Please enter the database server hostname         Please enter the database server port         S444         Please enter the database name         edb         Please enter the database username         uslam_v4         Please enter the database password		
InstallAnywhere Cancel	Previous Next		

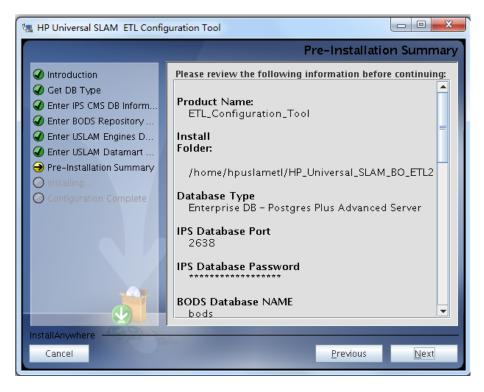
- 12. Enter the connection information for the USLAM Engines Database.
- 13. Click [next].

## Figure 46: USLAM ETL Configuration Tool –USLAM Datamart Database Information



- 14. Enter the connection information for your USLAM Datamart Database
- 15. Click [Next] to proceed. The 'Summary' window is then displayed

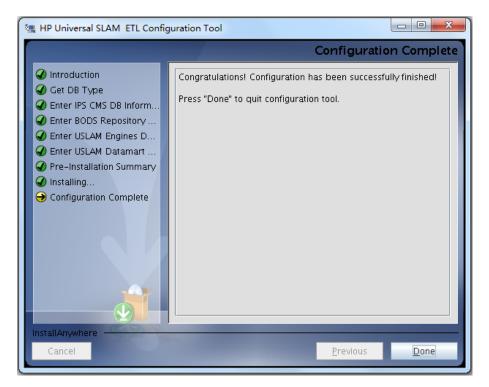
Figure 47: USLAM ETL Configuration Tool –Summary



16. Click [Install] to start the configuration.

(Depending on your system, this configuration processing can take up to 50 minutes)

Figure 48: USLAM ETL Configuration Tool –Installation Complete



17. Click [Done] to exit the Installer.



The installation log file is <USLAM ETL INSTALL DIR>/HP Universal SLAM BO ETL InstallLog.log and the configuration log file is <USLAM\_ETL\_INSTALL\_DIR>/bin/ETLConfigurationTool.log

## 5.1.5.3 Database preparation

In order to make the USLAM ETL BODS server working with EDB Postgres Plus Advanced Server, you must perform a database superuser operation.

- 1. Go to <USLAM\_ETL\_Install\_Dir>/USLAM\_datamart\_scripts/ directory
- 2. Log in to the Enterprise DB Postgres Plus Advanced Server database server as superuser
- 3. Run the following script:

```
SQL> @SetVersion.sql
SQL> exit
```

## 5.1.5.4 Starting USLAM ETL servers

As hpuslametl user,

```
$ cd <USLAM_ETL_Install_Dir>/bin/
$ ./uslam_etl_start.sh
```

Once you have started USLAM ETL servers, you must execute the Datamart scripts in the Enterprise DB Database (see next section).

## 5.1.5.5 Executing Datamart Scripts

You must now build the Datamart schema

Please perform the following steps:

- 1. cd <USLAM\_ETL\_InstallDir>/USLAM\_datamart\_scripts
- 2. Log in to the *edbplus* tool using the Datamart username and password:

edbplus.sh <Datamart user name>/<Datamart password>@<Datamart
database name>

3. In *edbplus*, run the following script in order to build the USLAM Datamart schema

```
SQL> @uslam_datamart_edb.sql
SQL> exit
```

Your datamart schema is now created, and is ready to be populated by the ETL.

## 5.1.6 Executing ETL Jobs

Before any other ETL execution, it is mandatory to execute the two following ETL jobs:



JB\_Lkp\_Reps\_Dictionary

### JB\_Dim\_Time

They must be executed only once, <u>just after installation</u> (there is no need to execute them later)

In order to execute these two jobs, you need to:

1. Log to the BODS Management console

Open your web browser and enter the following URL to access the **Business Objects Data Services Administrator Console**.

http://<server address>:8180/DataServices/launch/logon.do

#### Figure 49: BODS Management Console Login

Log On to the Data Services	Management Console
Enter your user information and clic (If you are unsure of your account	<b>k Log On.</b> Information, contact your system administrator.)
System:	ETL_SRV
User Name:	Administrator
Password:	•••••
Authentication:	Enterprise 👻
	Log On

Enter the User name and Password (by default these are: *Administrator/IPSadmin*) and Log On

2. Click on the Administrator Icon

#### Figure 50: BODS Management Console - Administrator



3. Click on Status / <name of your BODS repos server> Then, click on the Batch Job Configuration tab.

Administrator			Home   About	Release Notes   Logout
	Batch			
Administrator	Repository: BOI	OS41_REPOSITORY		
Status		_		
Batch	Batch Job Status	Batch Job Configuration	Repository Schedules	
Web Services				
<b>•</b>				
T SAP Connections	Project All Proje	cts 👻		
💼 Server Groups	Batch Jobs			
Management	Project	Job	Action	Other information
	USLAM_ETL_V4	JB_Ci_Versioning_Prepare	Execute, Add Schedule, Export Execution Comr	nand Schedules
	USLAM_ETL_V4	JB_Dim_Bif	Execute, Add Schedule, Export Execution Comr	
	USLAM_ETL_V4	JB_Dim_Calendar	Execute, Add Schedule, Export Execution Comr	
	USLAM_ETL_V4	JB_Dim_Collector	Execute, Add Schedule, Export Execution Comr	
	USLAM_ETL_V4	JB_Dim_Event_Records	Execute, Add Schedule, Export Execution Comr	nand Schedules
	USLAM ETL V4	JB Dim Holiday	Execute, Add Schedule, Export Execution Comm	nand Schedules
	USLAM ETL V4	JB Dim Party	Execute, Add Schedule, Export Execution Comr	nand Schedules
	USLAM_ETL_V4	JB_Dim_Reference_Period	Execute, Add Schedule, Export Execution Comr	nand Schedules
	USLAM_ETL_V4	JB Dim Service	Execute, Add Schedule, Export Execution Comm	nand Schedules
	USLAM ETL V4	JB Dim Service Definition	Execute, Add Schedule, Export Execution Comr	nand Schedules
	USLAM_ETL_V4	JB_Dim_Service_Offering	Execute, Add Schedule, Export Execution Comm	nand Schedules
	USLAM_ETL_V4	JB_Dim_Sla_Clause	Execute, Add Schedule, Export Execution Comm	nand Schedules
	USLAM_ETL_V4	JB_Dim_Sla_Item	Execute, Add Schedule, Export Execution Comm	nand Schedules
	USLAM_ETL_V4	JB_Dim_Sli_Instance	Execute, Add Schedule, Export Execution Comm	nand Schedules
	USLAM_ETL_V4	JB_Dim_Ticket	Execute, Add Schedule, Export Execution Comm	nand Schedules
	USLAM_ETL_V4	JB_Dim_Time	Execute, Add Schedule, Export Execution Comm	nand Schedules
	USLAM_ETL_V4	JB_Fct_Bif	Execute, Add Schedule, Export Execution Comm	nand Schedules
	USLAM_ETL_V4	JB_Fct_Bif_Parameter	Execute, Add Schedule, Export Execution Comr	nand Schedules
	USLAM_ETL_V4	JB_Fct_Event_Prepare	Execute, Add Schedule, Export Execution Comm	
	USLAM_ETL_V4	JB_Fct_Event_Records	Execute, Add Schedule, Export Execution Comm	nand Schedules
	USLAM_ETL_V4	JB_Fct_Perf_Metric_Event	Execute, Add Schedule, Export Execution Comm	nand Schedules
	USLAM_ETL_V4	JB_Fct_Sla_Clause_Status	Execute, Add Schedule, Export Execution Comm	nand Schedules
	USLAM_ETL_V4	JB_Fct_Sla_Clause_Status_Ad		
	USLAM_ETL_V4	JB_Fct_Sla_Item_Status	Execute, Add Schedule, Export Execution Comm	
	USLAM_ETL_V4	JB_Fct_Sla_Sli_Event	Execute, Add Schedule, Export Execution Comm	nand Schedules
	USLAM_ETL_V4	JB_Fct_Sla_Status	Execute, Add Schedule, Export Execution Comm	
	USLAM_ETL_V4	JB_Fct_Snap_and_Adjustment		nand Schedules
	USLAM_ETL_V4	JB_Fct_TICKET_NoImpact_Even	t Execute, Add Schedule, Export Execution Comm	nand Schedules
	USLAM_ETL_V4	JB_Fct_Ticket_Event	Execute, Add Schedule, Export Execution Comm	nand Schedules
	USLAM_ETL_V4	JB_Lkp_Reps_Dictionary	Execute, Add Schedule, Export Execution Comm	nand Schedules
	USLAM ETL V4	JB Load Configuration Tables	Execute, Add Schedule, Export Execution Comm	nand Schedules

Figure 51: BODS Management Console – Batch Job Execution

- 4. Then, for the job *JB\_Lkp\_Reps\_Dictionary*, click on "Execute", and then click on the "Execute" button at the bottom of the page.
- 5. Do the same for the job *JB\_Dim\_Time*

You can monitor the status of these two jobs looking at the tab "*Batch Job Status*".

Once these two job executions are completed, USLAM ETL can be fully executed.

- a) Login to the server with user *hpuslametl*
- b) # cd <USLAM ETL Installation Folder>
- c) # cd bin
- d) #./HP\_USLAM\_ETL\_Jobs.sh

This ETL execution will populate the USLAM Datamart by loading and processing the current USLAM engine DB data.

6. You can monitor the execution status of the jobs using the BODS console

## 5.1.7 How to schedule ETL

In a production environment, the ETL must be run regularly in order to update the Datamart with the model/instance updates from USLAM Repository and calculation updates from USLAM engine.

So, we recommend scheduling USLAM ETL using Unix CRON utility:

- 1. Log in as *hpuslametl* user
- 2. Edit the crontab file: crontab -e

Add an new entry for the batch file HP USLAM ETL Jobs.sh

```
0 0,3,6,9,12,15,18,21 * * * cd /home/hpuslametl/bin/;./HP_USLAM_ETL_Jobs.sh
```

In this example ETL jobs will be run each 3 hours starting at 00:00 AM

# 5.2 Uninstall USLAM ETL

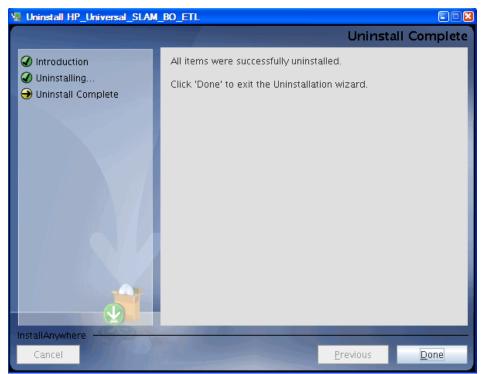
Perform the following steps in order to uninstall the USLAM ETL kit:

- 1. Disable any crontab entry (if exists) concerning executions of jobs
- 2. Stop all IPS/BODS servers: As *hpuslametl* user,
- \$ cd <USLAM\_ETL\_Install\_Dir>/dataservices/bin/
- \$ ./actaservices stop
- \$ cd <USLAM\_ETL\_Install\_Dir>/sap\_bobj/
- \$ ./tomcatshutdown.sh
- \$ ./stopservers
- 3. Go to the <USLAM ETL InstallDir>/Uninstall directory and run ./Uninstall
- 4. The uninstall information displays

#### Figure 52: USLAM ETL Uninstallation – Introduction

Uninstall HP_Universal_SLAM	I_BO_ETL
	Uninstall HP Universal SLA Manager BO ETL
<ul> <li>Introduction</li> <li>Uninstalling</li> <li>Uninstall Complete</li> </ul>	You are about to uninstall HP Universal SLA Manager BO ETL. This will remove all the features installed by the HP Universal SLA Manager BO ETL installer. This will not remove files and folders created after the installation.
InstallAnywhere	Previous

- 5. Click [Uninstall] to start the uninstallation
- 6. The uninstallation process begins



### Figure 53: USLAM ETL Uninstallation – Uninstallation Complete

- 7. Click [Done] when the un-installation process is complete.
- 8. If a warning message says that some files are not removed, please remove them manually.
- 9. For example:

\$ cd	<usi< th=""><th>LAM_ETL_InstallDir&gt;</th></usi<>	LAM_ETL_InstallDir>
\$ rm	-rf	dataservices
\$ rm	-rf	sap_bobj



For details about BO Data Services un-installation, please refer to *Data Services Installation Guide for UNIX*.

# Chapter 6 Installing and Configuring USLAM Reporting

This chapter is designed as a guide to install and configure the HP Universal SLAM Reporting solution.

# 6.1 Software kits

There are 3 kits related to USLAM Reporting.

- HP USLAM Reporting Software The Business Object Enterprise XI solution
- HP USLAM Universe and Standard Reports The USLAM Universe and USLAM standard reports, standard reporting dashboards relying on BOE XI
- HP USLAM Report Publisher An optional tool for the automation of report publications

## 6.1.1 USLAM reporting software

The installation kit of USLAM Reporting Software is provided as .tar file:

 $HP\_USLAM\_\ BOE\text{-}4.1.0.tar$ 

-

It relies on the **Business Object Enterprise XI 3.1** platform that includes:

## **BO Enterprise Client components:**

- The Import Wizard
- Universe Designer
- Data Access pack for Oracle.
- BO Enterprise Server component:
  - Central Management Server
  - Event Server
  - Input File Repository Server
  - Output File Repository Server
  - Report Application Server
  - Job Servers
  - Web Component Adapter
  - Web Intelligence Report Server
  - Data Access pack for Oracle
  - Embedded tomcat.



In case you already have Business Objects Enterprise XI 3.1 installed, you do not need to install this kit.

## 6.1.2 USLAM Universe and standard reports

Provided as a Business Objects archive file 'HP\_USLAM\_Reporting-4.1.0.biar', this kit contains the USLAM Universe and the USLAM standard reports.

## 6.1.3 USLAM Report Publisher

The installation kit of the USLAM Report Publisher is provided as a .exe file: **HP\_USLAM\_Report\_Publisher-4.1.0.exe**.

This is an optional tool for the USLAM reporting solution that could allow you to automate the publication of a report at the end of each SLA reference period.

## 6.2 USLAM reporting installation



The variable *NLS\_LANG* must be defined on the Windows Server running BOE. This will allow to have the reports displaying the language specific characters correctly.

Once the system variable is defined, the *Apache Tomcat server* and the BOE Server Intelligence Agent must be restarted (using the BOEXI Central Configuration Manager).

Example: NLS\_LANG=AMERICAN\_AMERICA.UTF8

USLAM supports now Oracle database and Enterprise DB Postgres Plus Advanced Server database.

So, depending on the database server you are relying on, here are the different possibilities of deployment for the USLAM Reporting solution.

In the following,

- USLAM Datamart DB designates the USLAM database that stores the SLA historical data (this database was created during the USLAM ETL installation step)

#### - BOE CMS DB stands for

Business Objects Enterprise Central Management Server Database This a small database dedicated to BOE internal processing.

This database can be installed automatically during the BOE installation or you can prepare your own one before the installation, and the installer will set it up.

	Oracle	EDB PPAS	
USLAM Datamart DB	Oracle DB	EDB PPAS DB	
BOE CMS DB	MySQL BOE embedded DB or Oracle DB	MySQL BOE embedded DB	

## 6.2.1 Preparation for an installation relying on Oracle

#### **Oracle client**

You must install on your windows server, as *Administrator*, the 32 bits version of Oracle client 11g Release 2 (11.2.0.4) (even if your Oracle server is 64-bits).

#### TNS Name alias for USLAM Datamart Oracle database

You must define the Oracle Client TNS name alias of USLAM Datamart database.

Edit the Oracle client *tnsnames.ora* configuration file:

C:> notepad %ORACLE\_HOME%/network/admin/tnsnames.ora

For example.

SLAMDM = (DESCRIPTION = (ADDRESS = (PROTOCOL = TCP) (HOST =
myhost.mydomain.com)(PORT = 1521)) (CONNECT DATA = (SID = SLAMDM)))

Modify it according to your hostname and service name for Datamart database.

#### **Creating CMS Database User**

If you do not want have a MySQL CMS database automatically installed by the BOE XI installer, you can prepare an Oracle CMS DB.



In case you already installed BOE platform, you already have a CMS schema created, and thus you can skip this step.

Please note the CMS information; it will be used later during the configuration steps.

Please contact your Oracle database administrator in order to create the CMS schema:

- 1. Log in to the oracle database server as sysdba
- 2. Create the CMS user:

SQL> create user <CMS username> identified by <CMS password>;

3. Then, grant proper privileges:

SQL> grant connect, resource to <USLAM CMS username>;

## 6.2.2 Preparation for an installation relying on EBD PPAS

#### **EDB ODBC driver**

You must install, as *Administrator*, on your windows server, the 9.3 EDB ODBC driver 32 bits.

**ODBC DSN entry for USLAM Datamart PPAS database** 

You must configure a ODBC DSN entry for the USLAM Datamart database.

This can be done through the 'setup datasources ODBC' tool (32 bits version).

For example:

C:\Windows\SysWOW64\odbcad32.exe

Then, select the *System DSN* tab and '*Add*' a Data Source for EnterpriseDB9.3 driver, that you can then configure:

Figure 54: Add a datasource for EnterpriseDB ODBC Driver

interpriseDB O	DBC Driver		×
Data Source	EnterpriseDB	Description	
Database	edb	SSL Mode disable	~
Server	i lugti, m	Port 5444	
User Name	sla_datamart	Password ••••••	
Options			Test
Datasource	Global	Manage DSN Save	Cancel

#### **CMS** Database

There is nothing to prepare for the CMS database because the installer will automatically install and setup a MySQL CMS database.

## 6.2.3 Installation of USLAM Reporting software



In case you already have Business Objects Enterprise XI 3.1 installed, you do not need to install this kit. You can go directly to the next section.

The installation wizard will install **Business Object Enterprise XI 3.1** platform.



Make sure that all these statements are valid in your environment before starting this installation:

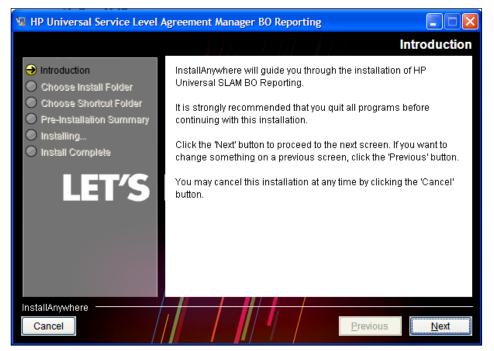
 If you target a "Windows server 2008 R2" system, please install as a prerequisite the "Microsoft visual C++ 2005 Redistribuable" patch (downloadable from <u>http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=1</u> <u>4431</u>).  $\underline{\textbf{Do not}}$  install "Microsoft visual C++ 2008 Redistribuable" windows patch.

2. You have administrator rights on the Windows system.

Now, follow these steps in order to start the installation:

- 1. Untar the HP USLAM Reporting software kit HP\_USLAM\_ BOE-4.1.0.tar
- 2. Execute: Disk1\InstData\VM\HP USLAM BOE.exe
- 3. The Introduction dialog displays

Figure 55: USLAM Reporting Installation - Introduction



4. Click [Next] to continue.

Figure 56: USLAM Reporting Installation – Warning

You haven	't installed BusinessObject Enterprise XI 3.1	×
1	You haven't installed BusinessObject Enterprise XI 3.1	
-	The installer did not detect the BusinessObject Enterprise XI 3.1 on your system.	
	So we will the install BusinessObject Enterprise XI 3.1 Suite during the installing.	
	Note: The installing for BusinessObject Enterprise XI 3.1 Suite will cost several hours.	
	Press "Ok" to continue.	
	ОК	I

- 5. Click [OK] to proceed
- 6. The "Choose Install Folder" window displays. Enter the destination path for your USLAM Reporting installation.

📲 HP Universal Service Level Agreement Manager BO Reporting			
	Choose Install Folder		
<ul> <li>Introduction</li> <li>Choose Install Folder</li> <li>Choose Shortcut Folder</li> <li>Pre-Installation Summary</li> <li>Installing</li> </ul>	Please choose a destination folder for this installation.		
Install Complete <u>Where Would You Like to Install?</u>			
LET'S	C:\Program Files (x86)\HP Universal SLAM BO Reporting           Restore Default Folder         Choose		
InstallAnywhere Cancel	Previous Next		

Figure 57: USLAM Reporting Installation – Install Folder

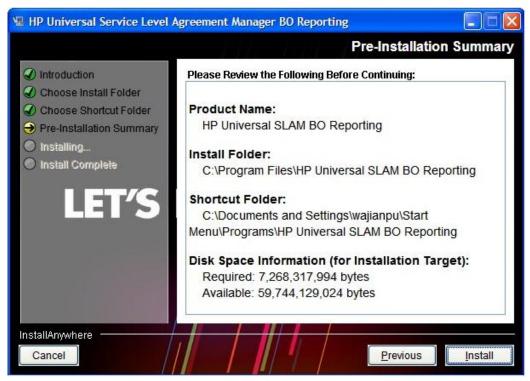
- 7. Click [Next] to continue
- 8. The "Choose Shortcut Folder" window displays. Select your desired settings and then click [Next] to proceed

Figure 58: USLAM Reporting Installation - Shortcut Folder

HP Universal Service Level /	Agreement Manager BO Reporti	ing	
		Choose Sho	ortcut Folder
<ul> <li>Introduction</li> <li>Choose Install Folder</li> <li>Choose Shortcut Folder</li> <li>Pre-Installation Summary</li> <li>Installing</li> <li>Install Complete</li> </ul>	Where would you like to create         In a new Program Group:         In an existing Program Group:         In the Start Menu         On the Desktop         In the Quick Launch Bar         Other:         Don't create icons	HP Universal SLAM BO	Reporting
InstallAnywhere		Previous	Next

9. The Pre-Installation Summary window displays

## Figure 59: USLAM Reporting Installation – Pre-Installation Summary



- 10. Click [Install] to proceed with the installation.
- 11. Select I accept the License Agreement and then click [Next]. The User Information dialog displays

## Figure 60: BO Enterprise XI - Setup User Information

🖟 BusinessObjects Ent	erprise XI 3.1 Setup	
User Information The Name field must be fil	ed in prior to proceeding. The Organization field is optional.	)
Full N <u>a</u> me:	[	]
<u>O</u> rganization: Please enter your 26 char in the CD liner notes or th	acter Product Key. You can find this number on the sticker e CD sleeve.	
Product <u>K</u> eycode:		]
	< <u>B</u> ack Next > C	ancel

- 12. Enter the relevant user information and then click [Next] to proceed
- 13. The Install Type dialog displays once you complete the initial set up of the BusinessObjects Enterprise installation

When you install **BusinessObjects Enterprise**, you can choose one of the following installation types. Consider which of these types best suit your intended deployment:

- **New:** Installs all components on one machine. Select this installation type to quickly set up a complete deployment, with all server and client components on a single machine
- **Custom or Expand:** Installs the components that you select on the machine. Select this installation type to specify which components to install when performing a distributed deployment, or when adding servers to an existing deployment
- Web Tier: Installs only the used by a web application server to run web applications. Select this installation type to set up Java or .NET web application components when performing a distributed deployment.

BusinessObjects Ente	erprise XI 3.1 Setup
nstall Type Select the desired in	stallation type.
• Ne <u>w</u>	Install a new BusinessObjects Enterprise System.
	🔿 Install MySQL Database Server
	Use an existing database server
	Enable servers upon installation
C Custom or Expand Install	Use this option to choose which application features you want installed and where they will be installed. Recommended for advanced users.
🔿 Web Tier	Install the Web Tier features
Destination Folder	
C:\Program Files (x8	6)\Business Objects\ Browse
,	

#### Figure 61: BO Enterprise XI - Installation Type

- 14. Select the following settings in the "Install Type" dialog:
  - Select **New** and then select:
    - **Install MySQL Database Server**, if you did not prepare a CMS database (in chapter 6.2.1)
    - **Use an existing database server,** if you already prepared a CMS database (in chapter 6.2.1)
  - Select the Enable servers upon installation checkbox if you want to launch BusinessObjects Enterprise when the installation procedure ends
  - Do not change the default destination folder for the Business Objects Enterprise installation, in the **Destination Folder** text field.
- 15. Click [Next] to proceed. The "Server Components Configuration" dialog displays

BusinessObjects	Enterprise XI 3.1 Setup s Configuration	 ()
Administrator	oort numbers and the password for the Busine orts C <u>M</u> S port 6400	
A	dministrator account           Password           Confirm password           Configure the BusinessObjects Enterpris           Administrator password at a later time	e
	< Back	lext > Cancel

## Figure 62: BO Enterprise XI – Server Components Configuration

- 16. The "Server Components Configuration" window is used to enter the port number and an administrator password for the new Central Management Server (CMS). The CMS manages BusinessObjects Enterprise servers and manages the system and audit database. Select the following settings in this dialog:
  - Specify a port number in the CMS port text field. The default CMS port number is 6400. The CMS will communicate with other BusinessObjects Enterprise servers through the specified port
  - Specify a password for the CMS administrator account in the Password text field and then re-enter the password in the Confirm password text field. You can choose to skip this step by selecting the Configure the BusinessObjects Enterprise Administrator password at a later time check box.
- 17. Click [Next] to proceed. The "Server Intelligence Agent" dialog displays

## Figure 63: BO Enterprise XI - Service Intelligence Agent

etup 📃 🗖 🖡
ver Intelligence Agent
ent of Server Intelligence, the service 3.1. This utility simplifies the deployment and e servers and improves fault-tolerance by ig of those servers.
be any name that identifies this node of your nust not be part of the chosen Node Name.
6410
< Back Next > Cancel

- 18. A Server Intelligence Agent (SIA) node is automatically created during installation of BusinessObjects Enterprise. The Server Intelligence Agent dialog is used to provide a name and designate a port address for the SIA. Select the following settings in this dialog:
  - Provide a unique name to identify the SIA node in the Node Name text field. Do not use spaces or non-alphanumeric characters in a SIA node name
  - Specify a port number for the SIA in the **Port** text field (default is 6410). This port will be used by the SIA to communicate with the Central Management Server (CMS).
- 19. Click [Next] to proceed. Once the SIA information is entered, the port number will be validated before you can proceed to configure the CMS database for your installation. A warning message displays if the port you specified is not available
- 20. The "CMS Database Information" dialog displays

🖶 BusinessObjects Enterprise XI 3.1 Setu	ıp 📕 📕 🗶		
CMS Database Information CMS Database Information	)		
CMS Database Select existing CMS database: Oracle	Auditing Database     Select existing Auditing database:     MySQL		
Server doblpn Username USLAM_CMS Password ••••••	Database Server Port Username Password		
Reset existing database			
	< Back Next > Cancel		

Figure 64: BO Enterprise XI - CMS Database Information

21. Use this dialog to enter connection and authentication details for the BOE CMS internal database.

The example shows connection information for Oracle database.

Select the following settings in this dialog:

- Select Oracle from the Select existing CMS database drop-down list in the CMS Database pane. Depending on your database server selection, corresponding input fields are displayed in the CMS Database pane
- Provide all the required information for the database in the fields provided in the CMS Database pane(note: 'Server:' field value must be set to the CMS database TNS alias from tnsnames.ora)
- Select the Auditing Database check-box to set up an existing auditing database. The input fields in the Auditing Database pane are activated. If you do not want to specify an auditing database (<u>this is an optional feature</u>) for your new installation, skip to step 20. If you do not install an auditing database, you can use the "Add/Remove Programs" applet in the Windows Control Panel to add an auditing database later. Adding an auditing database from the "Add/Remove Programs" applet requires you to configure the auditing database using the Central Configuration Manager (CCM)
- Select a database type from the Select existing Auditing database drop-down list in the Auditing Database pane. Depending on your database server selection, corresponding input fields are displayed
- Provide all the required information for the database in the fields provided in the Auditing Database pane.

- 22. Select the Reset existing database check box if you want to delete all current tables and entries in existing database CMS and auditing databases, otherwise clear the checkbox
- 23. Click [Next] to proceed. The "Select Web Application Server" dialog displays. This dialog only displays if a connection is established with the database configuration you provided

### Figure 65: BO Enterprise XI - Web Application Server

BusinessObjects Enterprise XI 3.1 Setup	_ 🗆 🗙
Select Web Application Server Select the application server you want to deploy BusinessObjects applications to:	Þ
Java Web Application Server:	
Install Tomcat application server and deploy to it.	
f C Automatically deploy to a pre-installed Web Application Server. Please choose or from the following list.	ne
Tomcat 5:5	
O I will deploy the web components after installation.	
☑ IIS Web Application Server:	
Deploy to the following website:	
Default Web Site	
< <u>B</u> ack <u>N</u> ext > <u>C</u> a	ncel

- 24. Select "Java Web Application Server" and choose the option "Install Tomcat application server and deploy to it". This will automatically install and configure Tomcat
- 25. Click [Next] to proceed. The "Configure Tomcat" dialog displays

BusinessObjects Enterprise XI 3.1 Se Configure Tomcat Configure Tomcat and the Java SDK	tup 🗖	
C <u>o</u> nnection port <u>S</u> hutdown port <u>R</u> edirect port	8080 8005 8443	
	< <u>B</u> ack Next > Cancel	

## Figure 66: BO Enterprise XI - Tomcat Configuration

- 26. Accept the default values or specify new port numbers for **Connection port**, **Shutdown port**, and **Redirect port**
- 27. Click [Next] to continue with the installation procedure. Ignore any *Windows Script Host* pop-up messages that may appear during the installation
- 28. To continue to installation, please refer to the steps described in 6.2.5 Installing USLAM Report.

## 6.2.4 Installing USLAM universe and USLAM standard reports

## 6.2.4.1 Import the BusinessObjects XI archive resource file (BIAR)

After the installation of the USLAM Reporting software, you need to import the USLAM BO XI Archive Resource file **HP\_USLAM\_Reporting-4.1.0.biar** to the BO system.

This archive file contains the USLAM Universe, USLAM Web Intelligence standard reports and USLAM dashboard examples.

- 1. Launch the Import Wizard Tool using the Windows Menu Start → All Programs → Business Objects XI 3.1 → Business Objects Enterprise → Import Wizard
- 2. The 'Welcome' dialog displays

### Figure 67: BO Import Wizard - Welcome

🛃 Import Wizard	X
	Language : English Welcome to the Import Wizard This wizard helps you import information from Crystal Enterprise or BusinessObjects Enterprise into your current BusinessObjects Enterprise deployment. You will need to:
	<ul> <li>Select a source environment</li> <li>Select a destination environment</li> <li>Select users and objects to import</li> <li>Throughout this wizard, you can move to the next page by clicking Next, or return to a previous page by clicking Back.</li> </ul>
	To begin importing content, click Next.
	<back next=""> Cancel Help</back>

- 3. Select the desired language and then click [Next] to proceed
- 4. The Source environment dialog displays
- 5. Select "Business Intelligence Archive Resource (BIAR) file" within the Source drop-down list

urce environmen Select an existing object/folder inform	environment from which the Wizard will import user/group and
S <u>o</u> urce:	Business Intelligence Archive Resource (BIAR) File
Select the from	Business Intelligence Archive Resource file you want to import
<u>U</u> ser Name:	
Password:	
BIAR file:	C:\boeresources.biar

### Figure 68: BO Import Wizard – Source Environment

- 6. In the "Biar file" text field, select the location of the BIAR file, and then click [Next]
- 7. The 'Destination environment' dialog displays

Figure 69: BO Import Wizard – Destination Environment

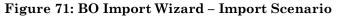
🛉 Import Wizard		×
<b>Destination environmer</b> Select the destination e	nt environment to which the Wizard will export content.	
Enter the name also need to s	e of the Business0bjects Enterprise XI 3.1 destination CMS. You pecify your user name and password.	
CM <u>S</u> Name:	CSLAMMO	
<u>U</u> ser Name:	Administrator	
Password:		
<u>A</u> uthentication:	Enterprise	
	< <u>B</u> ack <u>N</u> ext > Cancel	Help

- 8. Enter the **CMS Name**, **User Name** and **Password** for target BOE platform, then click the [Next]
- 9. The 'Select objects' to import dialog displays

Figure 70: BC	) Import Wizard –	<b>Objects</b> to	) Import
---------------	-------------------	-------------------	----------

🙀 Import Wizard	X
Select objects to import Select the objects to import.	
The Import Wizard enables you to select objects from the source environment to import to the destination environment. Select one or more categories below to import.	
Import corporate categories Import folders and objects Import discussions associated with the selected reports Import application folders and objects Import events Import server groups Import repository objects Import calendars Import universes Import profiles	
Select All	
< <u>B</u> ack <u>N</u> ext > Cancel	Help

- 10. Click the "Clear All" button then select "Import application folders and objects" and "Import universes".
- 11. Click [Next]
- 12. The 'Import scenario' dialog displays



Tmport Wizard X
Import scenario
Please select the appropriate import scenario:            • Use the object's unique identifier to determine whether it already exists in the destination system.             If it already exists:             • Update the destination object. In case of name conflict, gename it.             • Update the destination object. In case of name conflict, do not import it.             • Do not import the object.             • Use the object's name and path to determine whether it already exists in the destination system.             If it already exists:             • Keep the destination object and import a genamed copy of the object.             • Lipdate the destination object.
< <u>B</u> ack <u>N</u> ext > Cancel Help

- 13. Keep the default options for import, and then click [Next]
- 14. The Incremental import dialog displays

## Figure 72: BO Import Wizard – Incremental Import

🙀 Import Wizard	×
Incremental import	
Select the objects whose source contents will overwrite the corresponding objects in the destination environment if the objects already exist in the destination.	
Overwrite universe contents	
Overwrite connection contents	
Security rights associated to the object from the source environment can be used to overwrite the rights of its corresponding object in the destination.	
Overwrite object rights	
< Back Next > Cancel	lelp

- 15. Keep the default options for incremental import, and then click [Next]
- 16. On the next dialog box 'A note on importing object right', click [Next]
- 17. The 'Folders and objects' dialog displays

## Figure 73: BO Import Wizard – Folders and Objects

🚮 Import Wizard	×
Folders and objects Select the folders and objects you want to import by clicking the box beside the item.	
PIXELV1.emea.hpqcorp.net/6400 (Business0bjects Enterprise XI 3.1)         Image: State of the state of t	
< Back Next > Cancel	Help

- 18. Click [Select All], expand the top folders to ensure that the sub folders and reports are selected and then click [Next]
- 19. The 'Select application folders and objects' dialog displays

🚺 Import Wizard	×
Select application folders and objects Select the application folders and objects you want to import. If the selected folders and objects exist on destination system, they will be updated using the source system as a reference.	Ð
Select All	
< <u>B</u> ack <u>N</u> ext> Cancel Help	,

## Figure 74: BO Import Wizard – Applications

- 20. Keep the defaults and click [Next]
- 21. The 'Import options for universe and connections' dialog displays

Figure 75: BO Import Wizard - Import Universes

🚰 Import Wizard	×
Import options for universes and connections	
Select an importing option for universe objects:	
Import all universes and all connection objects.	
$\mathbb{C}$ . Import all universe and only connection objects used by these universes.	
Import the universes and connections that the selected Web Intelligence and Desktop Intelligence documents use directly. In the next dialog box, you can select additional universes that are not used by any imported document.	
Select the following option if you want universe overloads to be migrated with the universes.	
✓ Keep universe overloads for imported users and groups	
< <u>B</u> ack <u>N</u> ext > Cancel	Help

- 22. Keep the default options and click [Next]
- 23. The 'Import options for publications' dialog displays

Mart Wizard		×
Import options for publications.		
Select import option for importing profiles.		
O Import <u>all</u> profiles,		
Import profiles used by selected publications.		
Select import option for importing publication recipients.		
C Import recipients used by selected publications.		
Do not import recipients.		
< <u>B</u> ack <u>N</u> ext >	Cancel	Help

- 24. Keep the default options and click [Next] to proceed
- 25. A dialog box 'A note on importing reports' displays, Click [Next]
- 26. The Import Wizard now lists all the selected objects to be importedFigure 77: BO Import Wizard Ready to Import

📑 Import Wizard	×
	Ready to import The Import Wizard will now import all selected objects.
	Selected objects to import          Image: Selected selected selected selected         Image: Selected selected selected selected selected         Image: Selected
	< <u>B</u> ack Finish Cancel Help

- 27. Click [Finish] to complete the Import procedure.
- 28. Finally, click the [Done] button.
- USLAM Universe and USLAM standard reports have been imported onto the BOE XI server.

## 6.2.4.2 Configuring the Universe Connection

After having imported the USLAM reporting archive file, the connection of the universe must be defined in order to point to your USLAM Datamart schema (created previously at ETL installation time)

So, please follow these steps:

- 1. Browse the Windows Start menu
- → BusinessObjects XI 3.1 → BusinessObjects Enterprise → Designer

This opens the BOE XI Universe Designer

- 2. In the logon window, enter/select
- the '*system*' : the BOECMS server, generally this is the hostname (short name)
- the '*user name*' and '*password*' : identifies the Administrator of the BOECMS server (if USLAM Reporting software was installed from the kit, this is *Administrator/BOadmin*)
- the 'authentication' : this must be *Enterprise*, then click [OK]

#### → If you are using a USLAM Datamart relying on Oracle:

Click *Tools*  $\rightarrow$  *Connections*, select the connection **USLAM\_Datamart\_V4**, and click [Edit]

Name	🛆 🛛 Туре	Network Lay	/er Da
n Conversion Audit Conr	ection Secured	Oracle OCI	Or
DSLAM_BI_V4_JDBC	Secured	JDBC	Ot
USLAM_Datamart_V4	Secured	Oracle OCI	Ot
🎁 club	Secured	ODBC	MS
🎁 club-webi	Secured	ODBC	MS
🎁 efashion	Secured	ODBC	MS
🎁 efashion-webi	Secured	ODBC	MS
∢  Add   R	emove		) Test

#### Figure 78: BOE Wizard Connection – Connection List

Edit USLAM\_Datamart\_V4 connection and fill:

Authentication mode: set to "Use specified username and password"

User name: enter the USLAM Datamart username

Password: enter the USLAM Datamart password

Service: enter the TNS name alias of the USLAM Datamart

Edit USLAM_Datamart_	V4 connection
Login Parameters [2 Define the login pa Client	//4] anameters to access your Oracle database server using Net
Authentication Mode	Use specified username and password
User name:	SLA_DATAMART
Password:	ROBEROBERO
Service:	SLAMDM
Test Connection	Kack Next > Cancel Help

Figure 79: BOE Wizard Connection–Login Parameters (for Oracle)

Click on *Test Connection* to test if the connection to the Datamart works and click *Next*

<b>Figure 80: BOE Wizard Connection</b>	- Configuration Parameters
---	----------------------------

SLAM_BI_V1_0 conne	ection
Configuration Paramet Define the advanced Net Client	rers [3/4] parameters to access your Oracle database server using
Connection Pool Mode	Keep the connection active for
Pool timeout:	10 📩 Minutes:
Array fetch size:	250
Array bind size:	32767
Login timeout:	600 Minutes:
	< Back Next > Cancel Help

Keep the default values and click Next.

•

SLAM_BI_V1_0 conne	ction			
ustom Parameters [4 Define the custom pa Net Client		s your Oracle da	tabase server using	
Custom Parameters				
Hint ConnectInit				

#### Figure 81: BOE Wizard Connection - Custom Parameters

- Click [Finish]
- In the '*Wizard Connection*' window, click [Finish] to complete connection configuration of the universe.
- Close the Designer, the Universe Connection is now configured.
- → If you are using a USLAM Datamart relying on EDB PPAS, you will need to create a new connection to the Datamart. Please follow the instructions below:
  - Click on *File*, then *Import*, and select the *USLAM\_Universe\_v4*, then *OK*. Click again on *OK*
  - Click on *File*, then *Parameters*
  - Click on New (new connection wizard), then Next
  - Choose those values:

Connection Type: Secured

**Connection Name** : USLAM\_Datamart\_V4\_PPAS

Select in the Data Access Driver **tree**: PostgreSQL / PostgreSQL 8 / ODBC Drivers

Click Next and fill the Login Parameters:

Authentication mode: set to "Use specified username and password"

 ${\bf User\ name}:$  enter the USLAM Datamart username

Password: enter the USLAM Datamart password

Data source name: enter the ODBC DSN entry of the USLAM Datamart

- Click on *Test Connection* to test if the connection to the Datamart works and click *Next*.
- Click Next again
- Click on *Finish*

- Click on *OK*
- Click on *File*, then *Save*
- Click on *File*, then *Export*
- Close the Designer, the Universe Connection is now configured.

Your USLAM universe is now plugged to your USLAM Datamart, and USLAM reports are available from the BO Infoview web page, please refer to the *HP USLAM User Guide* in order to start using **USLAM Reporting.** 

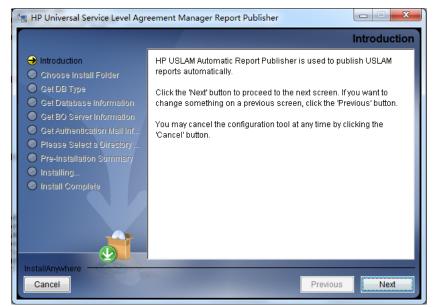
## 6.2.5 Installing USLAM Report Publisher

**USLAM Report Publisher** is an optional tool for the USLAM reporting solution that could allow you to automate the publication of a report at the end of each SLA reference period.

In order to start the installation, perform the following steps on the USLAM Reporting server:

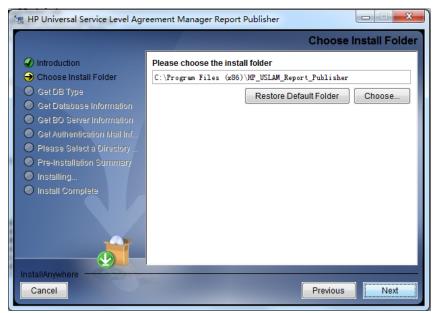
- 1. Execute: HP\_USLAM\_Report\_Publisher-4.1.0.exe
- 2. The Installation wizard begins and the Introduction window displays

#### Figure 82: HP USLAM Report Publisher - Introduction



3. Click [Next] to continue

#### Figure 83: HP USLAM Report Publisher – Install Folder



4. Select the database type and then click [Next] to continue

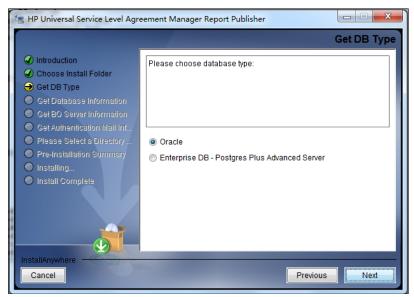


Figure 84: HP USLAM Report Publisher – Install Folder

5. Select the installation folder and then click [Next] to continue

Figure 85: HP USLAM Report Publisher – Database Information

雲 HP Universal Service Level Agro	eement Manager Report Publisher
<ul> <li>Introduction</li> <li>Choose Install Folder</li> <li>Get DB Type</li> <li>Get Database Information</li> <li>Get BO Server Information</li> <li>Get Authentication Mail Inf</li> <li>Please Select a Directory</li> <li>Pre-Installation Summary</li> <li>Installing</li> </ul>	Get Database Information Please enter connection information to the USLAM Datamart DB Oracle Host:  Oracle Port:  1521 Oracle SID: User Name:
Install Complete	Password: Previous Next

6. This screenshot shows connection information for Oracle database; you will have the same kind of information requested for Enterprise DB PPAS.

Enter the **USLAM Datamart** database information and then click [Next] to continue

📲 HP Universal Service Level Agreement Manager Report Publisher			
Get BO Server Information			
✓ Introduction	Please Input Business Object Server Information.		
Choose Install Folder			
🖌 Get DB Type	BO Server Name:		
Get Database Information			
→ Get BO Server Information	BO Port:		
Get Authentication Mail Inf	6400		
Please Select a Directory	BO Username:		
Pre-Installation Summary			
Installing			
Install Complete	BO Password:		
InstallAnywhere			
Cancel	Previous		

### Figure 86: HP USLAM Report Publisher – BO Server Information

- 7. Enter the BOE XI server information.
- 8. Click [Next] to continue

## Figure 87: HP USLAM Report Publisher – Authentication Mail Information

📲 HP Universal Service Level Agreement Manager Report Publisher			
	Get Authentication Mail Information		
Introduction	Please Input Authentication Mail Information.		
Ochoose Install Folder	System Admin Mail Address:		
Get DB Type			
Get Database Information	Authentication Mail Password:		
Get BO Server Information			
<ul> <li>Get Authentication Mail Inf</li> <li>Please Select a Directory</li> </ul>	Authentication Mail Server (SMTP):		
<ul> <li>Prease select a Directory</li> <li>Pre-Installation Summary</li> </ul>			
<ul> <li>Installing</li> </ul>			
Install Complete			
InstallAnywhere			
Cancel Previous Next			
	Previous INEXL		

9. Enter the mail server information.

If the SMTP server you want to use does not require any authentication, please just put a fake "authentication mail address" and you will skip this step. Click [Next] to continue

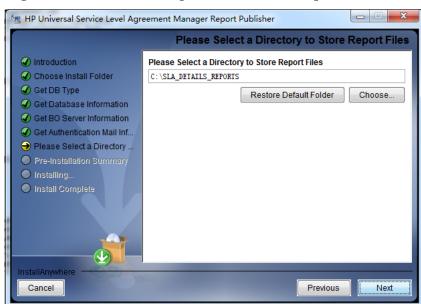
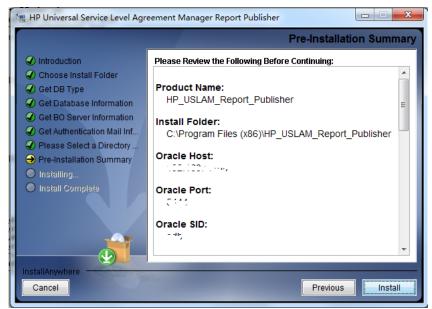


Figure 88: HP USLAM Report Publisher – Report Files Directory

10. Choose a folder where the USLAM Report Publisher will generate the report files and then click [Next] to continue

## Figure 89: HP USLAM Report Publisher – Pre-Installation Summary



11. Click [Install] to install the HP USLAM Report Publisher.

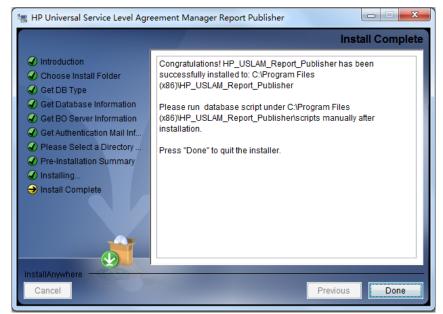


Figure 90: HP USLAM Report Publisher – Installation Complete

12. Click [Done] to exit the setup.

Do not forget to run the script on USLAM Datamart database, by following these steps:

- 1. Go to <USLAM\_Report\_Publisher\_InstallDir>\scripts
- 2. Connect on the datamart database:
- 3. Then, run the following script to create the tables and data required by the USLAM Report Publisher.

SQL> @BI\_AutomaticReportPublisher\_init.sql SQL> exit

Concerning the configuration and the usage of the **USLAM Reports Publisher**, please refer to the *HP USLAM Administration Guide*.

## 6.3 Uninstalling USLAM Reporting

## 6.3.1 Uninstalling USLAM Report Publisher

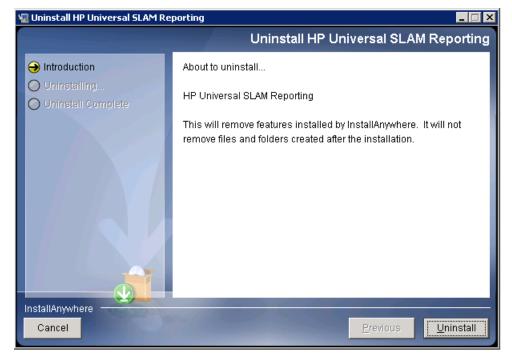
If you have installed the optional tool **USLAM Report Publisher** and you want to uninstall it, please follow the below steps:

1. Locate the folder where the USLAM Report Publisher is installed (the default directory is:

C:\Program Files (x86)\HP\_Universal\_SLAM\_Reporting\Uninstall)

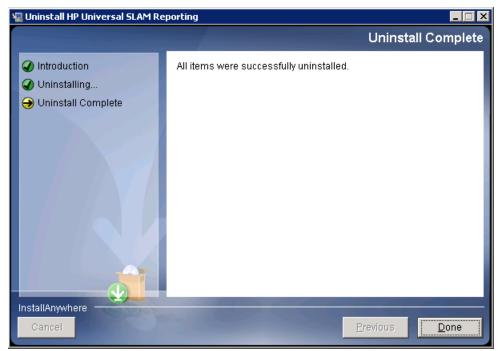
2. Launch the *Uninstall Uninstall.exe* application. The Introduction dialog displays as the setup wizard is initiated

Figure 91: Uninstalling USLAM Report Publisher – Introduction



- 3. Click [Next] to proceed
- 4. Once the uninstallation of the components is finished, the following message displays

## Figure 92: Uninstalling USLAM Report Publisher – Uninstall Complete



5. Some folders may be listed as not removed.

Click [Done] to exit the installer.

## 6.3.2 Uninstalling USLAM universe and standard reports

Because the USLAM Universe and USLAM standard reports have only been loaded to the BOE XI server, there is nothing specific in order to uninstall them. If you want to uninstall the USLAM Reporting software please go to the next section.

## 6.3.3 Uninstalling USLAM Reporting software



For details about BO Enterprise un-installation, please refer to BO guide xi3-1\_bip\_install\_win\_en.pdf, Installation Guide for Windows.

It is recommended that you back up reports, documents and system information before uninstalling **BusinessObjects Enterprise**. For more information on backing up your system see **Managing and Configuring Servers** in the *BusinessObjects Enterprise Administrator's Guide*.

To uninstall BusinessObjects Enterprise from your system, you will be required to perform the following steps:

- Go to Windows Menu Start → Programs → BusinessObjects XI 3.1 → BusinessObjectsEnterprise → Central Configuration Manager. The CCM console displays
- 2. Right-click to highlight all listed servers and select [Stop]. For more information on stopping servers see Managing and Configuring Servers in the BusinessObjects Enterprise Administrator's Guide
- 3. Go to Start  $\rightarrow$  Settings  $\rightarrow$  Control Panel  $\rightarrow$  Add or Remove Programs

- 4. Select BusinessObjects Enterprise XI 3.1
- 5. Click [Remove]. The Add or Remove Programs dialog prompts to confirm if you want to remove *BusinessObjects Enterprise*
- 6. Click [Yes]. Please wait while the files are removed and your system is reconfigured. You will be prompted once the configuration process is complete
- 7. Click [Finish].



The installer removes only the files that it originally installed. Folders or files created after the installation, for example logs or report files, are not uninstalled by the un-installation process.

# Chapter 7 Starting the USLAM Web User Interface

## 7.1 Logging in to the USLAM UI

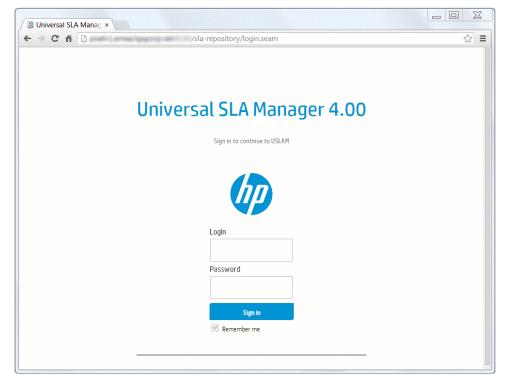
The USLAM graphical user interface can be accessed using a web browser. You will need appropriate access credentials depending on your user role.

1. Open your web browser and enter the following URL to access the USLAM user interface.

http://<server address>:8080/sla-repository

2. The Universal SLA Manager window displays.

Figure 93: USLAM Web User interface Login



3. Enter your user access credentials in the relevant text fields and then click [Sign in] to log in to the USLAM UI. A built-in administrator user name is "admin" and its default password is "admin".

USLAM Web UI provides two user authentication modes **Built-in** or **LDAP**. Please refer to chapter "Configuring USLAM UI User Authentication" from HP USLAM Administration Guide.

# Chapter 8 Installing and Configuring MyUSLAM Portal

MyUSLAM Portal is an optional package which offers a new end user community portal powered by Liferay Portal 6.1.1. This highly customizable portal embeds several USLAM portlets that can be used to build private or public business dashboards, extending business metrics visibility to business managers, end customers and partners.

## 8.1 Installing MyUSLAM Portal

## 8.1.1 Installation Kit

The installation kit for the MyUSLAM Portal is provided as .bin file on Linux systems or as .exe file on Windows systems:

HP\_USLAM\_MyUSLAMPortal.bin for Linux only

HP\_USLAM\_MyUSLAMPortal.exe for Windows only

## 8.1.2 Installation Wizard

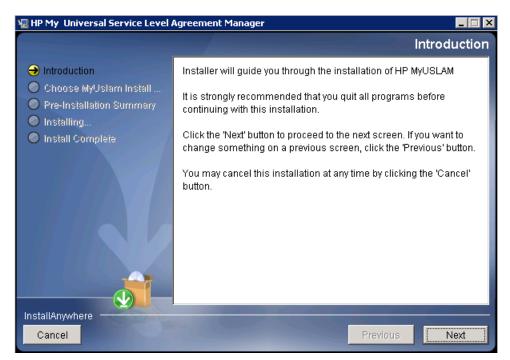
To install the MyUSLAM Portal solution, you will be required to run the MyUSLAM Portal Installation Wizard and perform the following steps:

- 1. Log on to the Linux or Windows server with appropriate write access for the installation directory.
- Locate and browse the USLAM installation kit and then run the installation wizard by running command line: ./HP\_USLAM\_MyUSLAMPortal.bin on Linux or HP\_USLAM\_MyUSLAMPortal.exe on Windows



On Linux, please make sure that the HP\_USLAM\_MyUSLAMPortal.bin file has 'execute' permission and that a X-Window service is installed on the Linux system

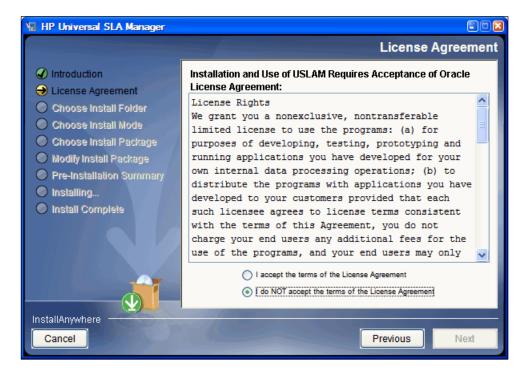
- 3. The installer displays a progress indicator and deploys the installation files on your Linux or Windows system
- 4. Once the installation files are deployed, the installation wizard displays



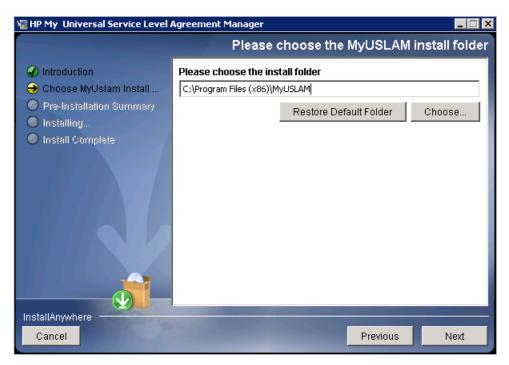
## Figure 94: MyUSLAM Portal Installation - Introduction

- 5. Make sure you follow the instructions displayed on this window and then click [Next]
- 6. The License Agreement window displays

Figure 95: MyUSLAM Portal Installation – License Agreement



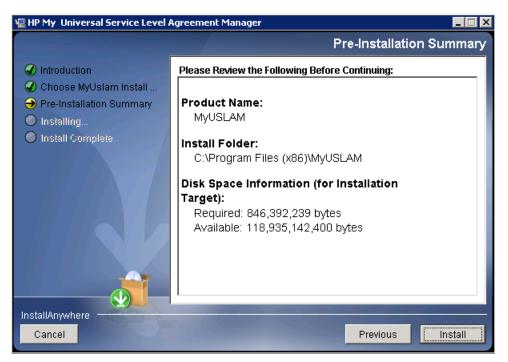
- 7. Select I accept the terms of the License Agreement and then click [Next].
- 8. The next screen asks you to choose an Installation Folder



## Figure 96: MyUSLAM Portal Installation – Choose Install Folder

- 9. Browse and select the location on your system where you would like to install MyUSLAM Portal. Click [Choose...] to browse or click [Restore Default Folder] to auto-enter the default installation path
- 10. Click [Next]. The Pre-Installation Summary window displays

#### Figure 97: MyUSLAM Portal Installation – Pre-installation Summary

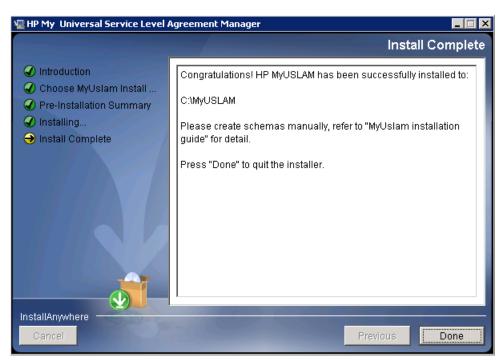


- 11. Review the summary information and then click [Install] to begin installation.
- 12. The installer displays a progress indicator



Figure 98: MyUSLAM Portal Installation – installing USLAM

Once the installation is complete, the 'Install Complete' window appears
 Figure 99: MyUSLAM Portal Installation – Installation Complete



14. Click [Done] to complete the installation and follow instructions in next chapters to configure MyUSLAM Portal



The install log is located at <INSTALL\_DIR>/MyUSLAM\_install.log.

## 8.1.3 Creating MyUSLAM Portal Database User

Before the installation, you must create a new user ( lportal ) for MyUslam in Database

Please contact your system DBA to create the user performing the following steps:

- 1. Log in to the database server as dba
- 2. To create a user use the following command:

SQL> create user lportal identified by lportal;

3. To grant proper privileges:

```
SQL> grant create session,create procedure,create
sequence,create table,create trigger,create view to lportal;
SQL> grant unlimited tablespace to lportal;
```

## 8.1.4 Creating MyUSLAM Portal Database Schemas

You need to create database schema for MyUslam manually before performing any other configuration.

## 8.1.4.1 **Oracle database**

You will require *sqlplus* to execute the scripts mentioned in the following steps.

The database script is available in the following path

<MYUSLAM\_INSTALL\_DIR >/script/portal-minimal-oracle.sql

To create the schema, it's required to perform the following steps:

1. Log in to the Oracle with *sqlplus* tool using the **myuslam** username and password, by entering:

sqlplus <myuslam user name>/<myuslam password>@<myuslam database name>

2. To create the MyUSLAM schema, you have to execute the portal-minimaloracle.sql script.

@/<MYUSLAM\_INSTALL\_DIR>/script/portal-minimal-oracle.sql

### 8.1.4.2 EnterpriseDB Postgres Plus Advanced Server database

You will require *edbplus* to execute the scripts mentioned in the following steps.

The database script is available in the following path <MYUSLAM\_INSTALL\_DIR >/script/ portal-minimal-postgre.sql

To create the schema, it's required to perform the following steps:

- Log in to the EnterpriseDB with *edbplus* tool using the myuslam username and password, by entering: edbplus.sh <myuslam user name>/<myuslam password>@<myuslam database name>
- 2. To create the MyUSLAM schema, you have to execute the portal-minimaledb script.

@/<MYUSLAM\_INSTALL\_DIR>/script/portal-minimal-edb.sql

## 8.1.5 Configuring MyUSLAM Portal Database

To run MyUSLAM Portal Configuration tool, you need to create a schema for MyUSLAM Portal (as described in 8.1.4 Creating MyUSLAM Portal Database Schemas) and then run the tool, performing the following steps:

- 1. Log on to the Linux or Windows server with appropriate write access for the installation directory.
- Locate and browse <INSTALL\_DIR>/bin and then run the configuration tool for MyUSLAM Portal by running the command line: ./myuslam\_configuration.bin on Linux or myuslam\_configuration.exe on Windows



On Linux, please make sure that the myuslam\_configuration.bin file has 'execute' permission and that a X-Window service is installed on the Linux system

- 3. The installer displays a progress indicator and deploys the installation files on your Linux or Windows system
- 4. Once the installation files are deployed, the HP MyUSLAM Portal Configuration Tool wizard displays.

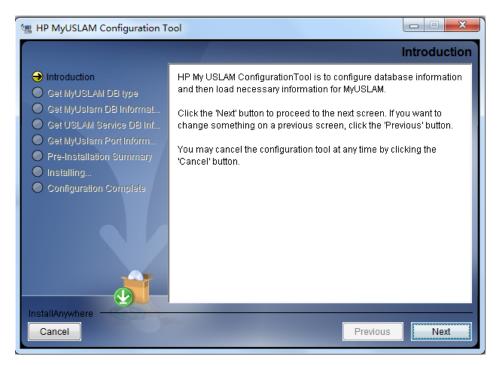
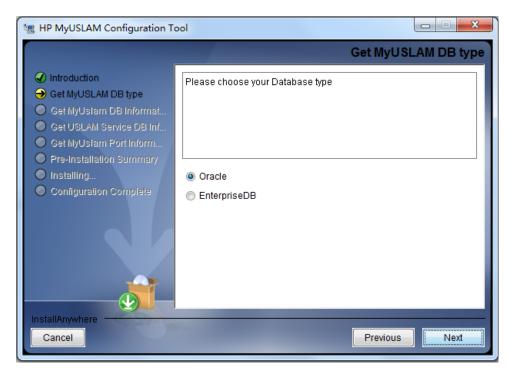


Figure 100: MyUSLAM Portal Configuration Tool - Introduction

5. Click [Next]. The Get Database type window displays

Figure 101: MyUSLAM Portal Configuration Tool – Database Information



6. Select database type, Click [Next]. The Get Database Information window displays

📲 HP MyUSLAM Configuration T	
	Get MyUslam DB Information
<ul> <li>Introduction</li> <li>Get MyUSLAM DB type</li> <li>Get MyUslam DB Informat</li> <li>Get USLAM Service DB Inf</li> <li>Get MyUslam Port Inform</li> <li>Pre-Installation Summary</li> <li>Installing</li> <li>Configuration Complete</li> </ul>	Please Input Database information for MyUSLAM. Click "Next" to test database connection Oracle Host:
InstallAnywhere	Previous Next

Figure 102: MyUSLAM Portal Configuration Tool – Database Information

- 7. Enter the required information in the relevant text fields i.e. **Database Host**, **Database Port**, **Database Name**, **User Name** and **Password** (this is the DB user created in 8.1.3 "Creating MyUSLAM Portal Database User")
- 8. Click [Next]. The configuration tool will check the information you entered, and display warning message if the check fails.

9. If the information is not correct, the installer displays the following warning. Click [OK] to enter again

Figure 103: MyUSLAM Portal Configuration Tool – Incorrect Database Information



10. If the information check is successfully, the installer displays the following message.

Figure 104: MyUSLAM Portal Configuration Tool – Successfully Check



11. Enter the connection information for the USLAM Engines Database.

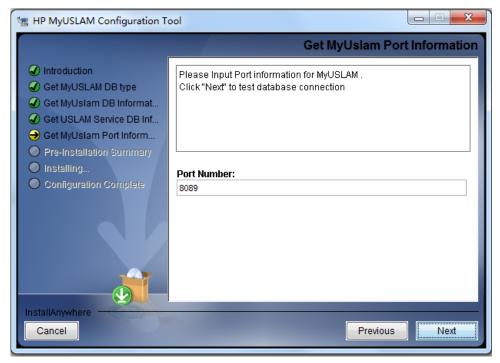
Figure 105: MyUSLAM Portal Configuration Tool – Get USLAM Service DB Information

🖅 HP MyUSLAM Configuration Tool	
Get USLAM Service DB Information	
Please Input Database information for USLAM Service. Click "Next" to test database connection	
Oracle Host:	
Oracle Port:	
Oracle SID:	
User Name:	
Password:	
Previous Next	

- 12. Click [next]
- 13. Enter the HTTP port used by MyUslam Portal (default value is 8089)

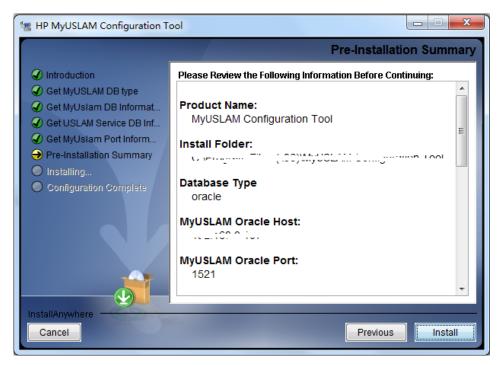
This is the port number that you'll have to specify in your Web browser to access MyUSLAM Portal (e.g.: <u>http://<MyUSLAMServer>:<MyUSLAMPort</u>>)

### Figure 106: MyUSLAM Portal Configuration Tool – Get MyUSLAM Port Number



14. Click [OK]. The Configuration Summary window displays.

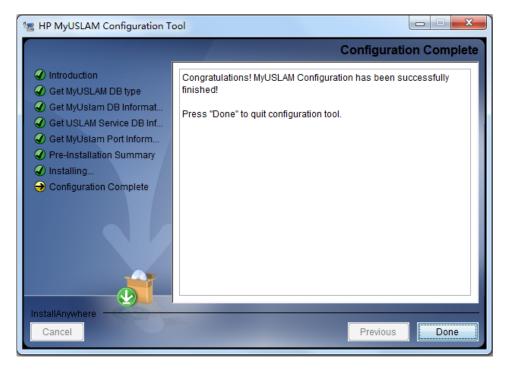
Figure 107: MyUSLAM Portal Configuration Tool – Configuration Summary



15. Review the Configuration information before beginning to configure MyUSLAM Portal. Click [Install] to begin the configuration.

16. Once the configuration is complete, the Configuration Complete window displays.

#### Figure 108: MyUSLAM Portal Configuration Tool – Configuration Complete



17. Click [Done] to finish the configuration.

# 8.1.6 Specific Settings for Oracle Database Connection (Oracle RAC, ...)

The JBOSS data source files generated by the USLAM installer work only for a simple DB server host configuration. In case specific Oracle connection requirement is needed, such as connecting to an Oracle RAC database configuration,

<MYUSLAM\_INSTALL\_DIR>\jboss\standalone\configuration\standalone.xml needs to be manually patched before MyUSLAM Portal start.

If the entry for your database connection in your \${ORACLE HOME}/NETWORK/ADMIN/tnsnames.ora file is:

```
USLAM_prod=(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=<myDbHost>)(
PORT = 1530)) (CONNECT_DATA = (SERVER = DEDICATED)
(SERVICE_NAME=<myDbServiceName>)))
```

Then the content of the file:

<MYUSLAM\_INSTALL\_DIR>\jboss\standalone\configuration\standalone.xml should be manually patched as follows (where myuslam\_user, myuslam\_password will be set with the correct values): <datasources>

```
<local-tx-datasource>
```

<jndi-name>uslamDatasource</jndi-name>

<connectionurl>jdbc:oracle:thin:@(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP))(HOST=<myDbHost>)(PORT=1530))(CONNECT\_DATA=(SERVER=DEDICATED)(SERVICE\_NAME=<myDbServiceName>)))/connection-url>

<driver-class>oracle.jdbc.OracleDriver</driver-class>

<user-name>myuslam\_user</user-name>

<password>myuslam\_password</password>

<min-pool-size>3</min-pool-size>

<max-pool-size>32</max-pool-size>

<check-valid-connection-sql>select 1 from
dual</check-valid-connection-sql>

#### <exception-sorter-class-

name>org.jboss.resource.adapter.jdbc.vendor.OracleExcepti
onSorter</exception-sorter-class-name>

<valid-connection-checker-class-name>...</validconnection-checker-class-name>

<metadata>

<type-mapping>Oracle10g</type-mapping>

</metadata>

</local-tx-datasource>

</datasources>

## 8.1.7 Configuring MyUSLAM Portal properties

Please check the "MyUSLAM Portal Configuration" chapter from the HP USLAM Administration Guide where you can find the mandatory MyUSLAM portal parameters.

## 8.1.8 Installing a MyUSLAM Portlets License

MyUSLAM Portlets deployed in MyUSLAM Portal need a valid license file.

Please refer to chapter 1 of this Guide in order to request a valid MyUSLAM Portlets license.

## 8.1.9 Starting MyUSLAM Portal

Once you have installed and configured MyUSLAM Portal you can start it by performing the following steps:

- 1. After the installation and configuration of MyUSLAM Portal, go to <*INSTALL\_DIR*>/bin and enter myuslam\_start.sh on Linux or myuslam\_start.bat on Windows to start MyUSLAM portal
- 2. It can take few minutes to be completely started.
- Going forward from this point, you can connect to the MyUSLAM Portal using your favorite browser at <u>http://<MyUSLAMServer>:<MyUSLAMPort</u>>

At this stage, the MyUSLAM Portal and MyUSLAM Portlets are installed and configured.

## 8.2 Stopping MyUSLAM Portal

To stop MyUSLAM Portal you will be required to perform the following steps:

- 1. Browse to the directory where MyUSLAM Portal is installed, and browse to: <INSTALL\_DIR>/bin
- 2. Enter myuslam\_stop.sh on Linux or myuslam\_stop.bat on windows with the correct parameters to stop MyUSLAM Portal
- 3. You can check if the *jboss* has stopped by executing the following command:

```
ps -ef | grep jboss
```

4. If there are no active processes for jboss, it implies MyUSLAM Portal is not running.