

# BEA AquaLogic<sup>™</sup> Enterprise Repository (Evaluation Version)

# **Installation Guide**

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Note: See the ALER Administration Guide for more information on configuration.



## **Installation Prerequisites**

Successful installation of AquaLogic Enterprise Repository requires the following:

#### 1. BEA WebLogic Server 8.1

o (SP2 thru SP6)

#### 2. Oracle 9i Database

- Properly configured and running
- o Minimum patch level 9.2.0.6.0

#### 3. Oracle 10g JDBC Driver Release 2 (10.2.0.2)

- ojdbc14.jar must be available on the computer on which ALER is to be installed.
- Oracle JDBC drivers are available from: http://www.oracle.com/technology/ software/tech/java/sqlj\_jdbc/index.html



# **Oracle Database Installation**

ACCOUNT UNLOCK;

## **Example Scripts**

Note	ALER requires that the Oracle database is configured to support the UTF-8/ Unicode character encoding.
<ul><li>Not</li><li>A W</li></ul>	ice that the Tablespace scripts below are for a Linux based DataFile. /indows path of c:\oracle\\file.dbf would be appropriate syntax for a ndows installation.
CREATE T DATA ON NEXT EXTI LOGO ONLT SEGN	TABLESPACE aler_data AFILE '/opt/oracle/data/aler_data.dbf' SIZE 100M AUTOEXTEND 10240K MAXSIZE UNLIMITED ENT MANAGEMENT LOCAL AUTOALLOCATE GING INE MENT SPACE MANAGEMENT AUTO;
CREATE T DATA ON NEXT EXTH LOGO ONLT SEGN	TABLESPACE aler_index AFILE '/opt/oracle/data/aler_index.dbf' SIZE 100M AUTOEXTEND 5120K MAXSIZE UNLIMITED ENT MANAGEMENT LOCAL AUTOALLOCATE GING INE MENT SPACE MANAGEMENT AUTO;
DROP USI	ER aler CASCADE;
CREATE ( DEF TEMI PROF	JSER ALER IDENTIFIED BY aler_pwd AULT TABLESPACE ALER_DATA PORARY TABLESPACE TEMP FILE DEFAULT

GRANT "CONNECT" TO ALER; GRANT "RESOURCE" TO ALER; ALTER USER ALER DEFAULT ROLE "CONNECT", "RESOURCE"; GRANT CREATE MATERIALIZED VIEW TO ALER; GRANT CREATE SEQUENCE TO ALER; GRANT CREATE SESSION TO ALER; GRANT CREATE SYNONYM TO ALER; GRANT CREATE TABLE TO ALER; GRANT CREATE TRIGGER TO ALER; GRANT CREATE TRIGGER TO ALER;



# **BEA AquaLogic Enterprise Repository (Evaluation Version)**

### Windows and Linux Installation

Note: Click Exit at any point to terminate the installation process.

- 1. Launch the BEA ALER Installer application by double-clicking the alerXX\_wind32. exe file, or if running Linux, execute the alerXX\_linux32.bin file from a shell prompt.
- 2. Review the Instructions in the **Welcome** pop-up.



- 3. Click Next to proceed.
- 4. Review the terms of the **BEA Software License Agreement**. Select the **Yes** radio button to indicate acceptance. (**No** ends the installation process.)

🛃 BEA Product - Aqua	Logic Enterprise Repository 2.6	
BEA License Agre Read the license agreem You must choose Yes to o	ement int and select the appropriate button. continue the installation.	sbea .
BEA SYSTEMS, INC. SOFT	WARE LICENSE AGREEMENT	A
USE OF SOFTWARE ORD PLEASE READ THE FOLLO ACCEPTANCE BOX. CERT	RED FROM BEA SYSTEMS, INC. ("BEA") IS PRO WING LICENSE CAREFULLY AND INDICATE YOU AIN CAPITALIZED TERMS ARE DEFINED IN SECT	VIDED ONLY UNDER LICENSE FROM BEA. R ACCEPTANCE BY CLICKING THE FION 11.
1. LICENSE TE	845	
a. Evaluation I Evaluation customer. Sub license to use the Softwa any, may be used solely by such third parties. Thi with this Agreement. Wh granted to you herein and	ise. The terms of this Section 1(a) are applicable ject to the terms of this Agreement, BEA grants re solely for Evaluation Use. Third party software with the Software, and may be subject to your a ilcense begins upon downloading and ends if an an the license terminates you must stop using the retained by BEA.	to you if you have registered as an to you a non-exclusive, non-transferable, e products or modules supplied by BEA, if cceptance of terms and conditions provided id when terminated by BEA in accordance e Software. All rights not specifically
	Do you agree with the terms of the	license?
	⊙ Yes ○ N2	
Egit		Previous Next

- 5. Click **Next** to proceed.
- 6. Use the radio buttons to select **Use an existing BEA Home** or **Create a new BEA home** in the the **Choose BEA Home Directory** pop-up.

🛃 BEA Product - AquaLogic Enterprise Repository 2.6	
Choose BEA Home Directory Specify the BEA Home where you wish to install AquaLogic Enterprise Repository 2.6.	sbear V
BEA Home Type     Use an existing BEA Home     O Create a new BEA Home	
BEA Home Directory	
Cribea	
Browse Beset	
Egt	Previous Next

7. Click Next to proceed.

8. Enter information as appropriate in **Product Home** or use the **Browse** button to specify the **Product Installation Directory**. (Defaults to a subdirectory of the previously specified **BEA Home Directory**.)

hoose Product Installation Directories ovide the directories where you wish to install guaLogic Enterprise Repository 2.6.	(bea
	Č Disgard Changes
BEA Home Directory	
C:\bea	
Product Installation Directories	
The Product Home will contain utilities enabling standalone use of this p	roduct as well as product
un-installation. Product Home:	
Un-installation. Product Home: C:\bea\repository26	growse
un-installation. Product Home: C:\bea\repository26	growse
un-Installation. Product Home: C:\bea\repository26	growse
un-Installation. Product Home: C:\bea\repository26	Browse
un-installation. Product Home: C:\bea\repository26	growse

- 9. Click **Next** to proceed.
- 10. Use the radio buttons to select the appropriate **Start Menu** shortcut location.

BEA Product - AquaLogic Enterprise Repository 2.6	_ 🗆 🗵
hoose Shortcut Location e installer creates shortcuts to BEA components, samples, and tools. As a er with administrative privileges, you can specify where these shortcuts are created.	P
Select the Start Menu folder in which you want to create BEA shortcuts:	
"All Users" Start Menu folder (recommended)	
If a user without administrative privileges uses the BEA Configuration Wizard in this installation to create domains, the user may have to create Start menu shortcuts manually. Refer to the documentation for more information.	
O Local user's Start Menu folder	
Select this option if you need to ensure that other profiles registered on this machine will not have access to these shortcuts.	
Egt	Next

- 11. Click **Next** to proceed.
- 12. Enter the appropriate information in the **Domain Name**, **Port Number**, **Full app server path** (as a combination of the fully-qualified host name of the server and appending the port number specified in the port number field) text boxes.

Note: If you accept the default **localhost** setting for **Full app server path**, you will be the only user able to access this ALER installation.

vide the required data b	o initialize Enterprise R	epository.	be	a
The information provi application container	ided here will be us for this repository.	ed by the installer to	generate a WebLogic S	erver
*Domain name:	alerdomain		*Port number:	7101
*Full app server path:	localhost: 7101			
Provide the names to	be used by the app ory application name:	aler		
*Repository web resou	rce application name:	aler-web		

13. Click **Next** to proceed.

The domain installation begins.

🛃 BEA Pro	duct - AquaLogic Enterprise Repository 2.6	
BE/ A me busir mide and	A AquaLogic <sup>™</sup> Enterprise Repository 2.6 etadata repository for software assets from ness processes and Web services to applications, dleware, patterns, frameworks, components, data artifacts.	
	Maps asset relationships for impact analysis	
	Governs the asset lifecycle to reduce risk and increase agility	
0	Promotes and optimizes reuse for greater ROI	
	Measures bottom-line software asset value to the enterprise.	<b>«bea</b>
Instaling	.aler.jar	1%
Eyr		Previous Next

14. Installation progress is indicated by the progress bar.

🛃 BEA Pro	duct - AquaLogic Enterprise Repository 2.6	
De dev2 0 0 0	V2Dev dev.bea.com Code samples, components, and software downloads Technical articles, tutorials, books, and white papers Webinars, developer events, and User Group meetings The Dev2Dev Dispatch email newsletter Expert advice and a community of your peers	ebea <sup>-</sup>
Done		100%
Eyt		Previous Next

- 15. Click **Next** to proceed.
- 16. Enter the appropriate information in the **Data tablespace**, **BLOB tablespace**, and **Index tablespace** text boxes.

🛃 BEA Product - AquaLo	gic Enterprise Repository 2.6	
Provide Database To Provide the requested inform configured for use by Enterp	ablespace Names nation about the tablespaces rise Repository.	cbea <sup>.</sup>
Data tablespace:	aler_data	
BLOB tablespace:	aler_data	
Index tablespace:	aler_index	
Egt		Previous Next

17. Click Next to proceed.

18. Enter the appropriate information in the **Database Type**, **Driver**, and other text boxes.

ide the requested inf rprise Repository will	ormation about the databse use		(bear
			test Connection
Database Type:	Oracle		*
Driver:	oracle.jdbc.driver.OracleDriver		
Connection Class:	com.flashline.db.ext.OracleConnection		
river File Location:	C:\tmp\30BC\oracle10\o)dbc14.ja	r	Browse
DBMS Name:	utf8sid	User Name:	aler
DBMS Host:	oracle.example.com	User Password:	***********
DBMS Port:	1521	Confirm User Password:	**********
URL:	jdbc:oracle:thin:@oracle.example	.com:1521:utf8sid	

19. Click the Test Connection button.

A successful test is indicated by a pop-up message.

Test Pas	sed 🔀
٩	The database connection test passed!

- 20. Click **Next** to proceed. The installation process will begin to build the database tables and load the sample data at this point. There may be a long delay while this process is completed depending on your database configuration.
- 21. When the installation process has completed, Click **Done** to exit the installer.



# Starting the AquaLogic Enterprise Repository application

- 1. If you have installed the ALER in a Windows environment, you can start and/or stop the ALER application by using the following Start menu items:
  - Starting: Start -> All Programs -> AquaLogic Enterprise Repository 2.6 -> Start ALER
  - Stopping: Start -> All Programs -> AquaLogic Enterprise Repository 2.6 -> Stop ALER
- 2. If you have installed the ALER in a Linux environment, you can start and/or stop the ALER application by using the following shell commands:
  - o Starting: \$BEA\_HOME/user\_projects/domains/<your domain name>/
    startWebLogic.sh
  - Stopping: \$BEA\_HOME/user\_projects/domains/<your domain name>/ stopWebLogic.sh



# Accessing the AquaLogic Enterprise Repository

## Starting the ALER WebLogic Domain

- When using Windows, start the domain through the Start menu option under the AquaLogic Enterprise Repository 2.6 program group -> Start AquaLogic Enterprise Repository.
- When using Linux, navigate to the BEA\_HOME/user\_projects/alerdomain and execute the shell script ./startWebLogic.sh
- Navigate to the URL specified during the installation process (e.g. http://host:7101/ aler)
- When you are presented with the login screen, login as follows:
  - o Username: admin
  - Password: admin

This will provide administrator privileges and access.

# Stopping the ALER WebLogic Domain

- When using Windows, stop the running domain through the Start menu option under the AquaLogic Enterprise Repository 2.6 program group -> Stop AquaLogic Enterprise Repository.
- When using Linux, navigate to the BEA\_HOME/user\_projects/alerdomain and execute the shell script ./stopWebLogic.sh



# **Utilizing the Diagnostics Testing Tool**

The **Diagnostics** tool allows testing and troubleshooting of certain aspects of BEA AquaLogic<sup>™</sup> Enterprise Repository application.

### Launching the Diagnostic Tool

To launch the ALER Diagnostics tool, navigate to: http://host\_name/application\_name/ diag/index.jsp

Diag Home BEA AquaLogic Enterprise	BEA AquaLogic Enterprise Repository Diagnostics
Repository Generic Web App Installation Tests Tools BEA AquaLogic Enterprise Repository Tests Runtime - Configuration Runtime - Assets Burtime - Security	These tests are designed to be a diagnostic starting point for your BEA AquaLogic Enterprise Repository installation. You may be asked to perform some of these tests by BEA Support, however, we do not recommend using these tools without guidance from BEA Support. Diagnostic logging is presently ON.
Optional Tests SOAP Services Logging Options	
Import/Export System	
List Import/Export Jobs	
RBAC LockBroker Status	
Inspect LockBroker Status	
Clustering	
Status	

### **Navigating the Diagnostics Tool**

In addition to the **Diag Home** and **BEA AquaLogic Enterprise Repository** links, the left sidebar of the **Diagnostics** tool (the gray area in the image above) includes links to several tests that can be run to check your installation of ALER. Click any of these links to display the available tests in the main pane of the **Diagnostics** tool.

#### Generic Web App

- Installation Tests
  - Product Version Information
    - Provides information on the installed version of the ALER, the version of the installed ALER database, upgrade dates, and the maintenance mode setting for the database.
  - Snoop Servlet
    - Provides an output listing of all cookies, headers, CGI-Variables, Servlet Context Attributes, Session information and Session values set as a part of the request to the application server.
  - Test Required Libraries
    - Provides information about the application server's configuration regarding required JAR library files, installed XML parsers, and and the presence of the minimally required ALER properties files.
  - Run Active Diagnostic Tests
    - Runs a JUnit test against the installed ALER application. Many of these tests are required to allow ALER to build and parse XML data.
  - Test Database
    - Provides insight into the JDBC driver functionality, including the number of database side functions that are expected to be supported. Also tests the connection string set in the database.properties file, provides additional information regarding the version of the JDBC driver, and may also indicate deficiencies within the database tables.
  - List System Paths
    - Lists the pathways (local and absolute URL's) configured within the cmee.properties file as well as those stored within the database.
       Also helps to indicate why some parts of the application deployment function while others do not (such as images not loading).

Installation Tests	
Product Version Information	Displays internal product version, database schema version, and information about the most recent upgrade/install performed to BEA AquaLogic Enterprise Repository.
Snoop servlet	Tests servlet engine response, shows parameters passed from web client to server.
Test Required Libraries	Tests libraries, property files and system properties essential to proper functionality.
Run Active Diagnostic Tests	Performs tests against common application and environment troublespots.
Test Database	Tests database container access, availability of JDBC driver and presence of important BEA AquaLogic Enterprise Repository data tables.
List System Paths	Lists all BEA AquaLogic Enterprise Repository paths. Similar to 'List Enabled System Settings' below, but limited to world-visible paths and therefore does not require login.
Test Browser Redirection Compatibility	Via Response Code 302 - to standard URL Via Response Code 302 - to local OS file

#### o Tools

- JSP Precompiler
  - Forces the application server to perform an immediate JIT compile of JSP pages within the ALER application. This process greatly improves the performance of page loads if performed after each application server restart.
- Encrypt Strings for Passwords
  - Performs an MD5 Hash on a string supplied in a text field. Useful if a user forgets hhis/her password. Please contact BEA Support for the proper procedure to update a password in the database.

#### Tools

JSP Precompiler	Pre-compiles most JSPs in the system for speedier first time access. This is likely to take quite awhile (20- 30 minutes), and generates false errors as JSPs are loaded without the proper parameters passed. This is OK and expected.
Encrypt Strings for passwords	Converts strings to encrypted passwords for use in misc. places in the system (see documentation for more details)

#### BEA AquaLogic Enterprise Repository Tests

- Runtime Configuration
  - List Enabled System Settings
    - Lists all values set in the ALER database as well as those set in properties files).
  - Edit System Paths
    - Allows an administrator to make permanent changes to the cmee.
       properties file on the application server.

Runtime - Configu	ration
These tests require be set on your brow Enterprise Reposito cookies.	either a BEA AquaLogic Enterprise Repository login cookie to ser, or for you to have been logged into BEA AquaLogic ry recently with your browser enabled to allow session
List Enabled System Settings	Lists all enabled BEA AquaLogic Enterprise Repository settings. Values that deviate from the default are colored blue.
Edit System Paths	Edits BEA AquaLogic Enterprise Repository paths. This can be used to bootstrap a new installation.
Constant Harris	Current Home Page selection Criteria

#### Runtime - Assets

- List Types
  - Produces XML output that describes all Asset Types stored within the ALER's database.
- Edit Asset Custom Data
  - Allows a registrar to modify XML data contained within an asset in the event that an asset's metadata is otherwise uneditable. Do not use this tool unless specifically directed by BEA Support personnel
- Get XML: Show Type ID
  - Produces the XML description of a specific Asset Type based on the

unique ID of the Asset Type record.

- Get XML: Type ID As String
  - Produces the XML description of a specific Asset Type based on the unique ID of the Asset Type record as one continuous string.
- Get XML: Type XML Schema
  - This tool produces the XML schema of a specific Asset Type based on the unique ID of the Asset Type record.
- Get XML: Type XML Schema as String
  - This tool produces the XML schema of a specific Asset Type based on the unique ID of the Asset Type record as one continuous string.
- Get XML: Asset ID
  - Produces the XML data of an Asset based on the uniqe ID of the Asset.
  - The include extended metadata option produces additional information related to Policies and other data.
- Get XML: Asset ID as String
  - Produces the XML data of an Asset based on the uniqe ID of the Asset as one continuous string.

These tests requi be set on your b Enterprise Repo cookies.	ire either a BEA AquaLogic En rowser, or for you to have been sitory recently with your browse	terprise Repository login cookie to logged into BEA AquaLogic r enabled to allow session
List Types	Lists all types in the system. The ID's provided here are useful in the next test.	
Edit Asset Custom Data	Allows editing the custom data XML for an asset. This is useful when fixing invalid xml that is preventing an asset from loading.	
Search	Submits a search using criteria t	formatted in XML.
Get XMI		
Show Type ID:	Editor • Show	Displays the XML for the specified type id. You may need to right click and select View Source to see the XML.
Show Type ID as	String: Editor  Show	Displays the XML as a single string for the specified type id.
Show Type XML	Schema:	Displays the XML Schema for an type. You may need to right click and select View Source to see the XML.
Show Type XML	Schema as String: Show	Displays the XML Schema for an type as a single string for the specified type.
Show Asset ID: metadata. Sho	include extended	Displays the XML for the specified asset id. You may need to right click and select View Source to see the XML.
Show Asset ID a	s String:	Displays the XML as a single string for the specified asset id

Show	anny for the opeoned doorth.
Show Asset ID extended metadata entries: Show	Itemizes the extended metadata entries for the specified asset id.

o Runtime - Security

 Runtime - Security

 These tests require either a BEA AquaLogic Enterprise Repository login cookie to be set on your browser, or for you to have been logged into BEA AquaLogic Enterprise Repository recently with your browser enabled to allow session cookies.

 • List Auth Tokens

 • List Custom Access Settings

- Optional Tests
  - SOAP Services

SOAP Services	
These tests are no	ot always necessary for BEA AquaLogic Enterprise Repository
to function properly	y. Run these if instructed to do so by BEA Support.
Soap Admin	Loads the soap admin console. List should show forum and
Console	openapi services if configured.

• Logging Options

Logging Options
These tests are not always necessary for BEA AquaLogic Enterprise
Repository to function properly. Run these if instructed to do so by BEA
Support.

 Edit
 Allows changing of different logging options while registry is
running.

#### Import/Export System

List Import/Export Jobs



#### • RBAC LockBroker Status

• Inspect LockBroker Status

Currently Held Locks
Pecently Epiled Lock Pequests
Recently Falled Lock Requests

- To access the ALER login page click the **AquaLogic Enterprise Repository** link in the sidebar of the **Diagnostics** page.
- To activate the debugging mode for the current session, click the **turning logging on** link in the main pane.

### **Checking Product Version Information**

- 1. Click Installation Tests under Generic Web App.
- 2. Click Product Version Information in the main pane. .

A new browser window opens to display information on the internal product version, database schema version, and information about the most recent upgrade/install.

#### BEA AquaLogic Enterprise Repository Version Information

Product Version: 2.5.0 Database Version: 14.0.0

BEA AquaLogic Enterprise Repository database version properly matches the running instance of ALER.

Information From Database:

Database Installed From: 5.2.0 Database Version: 14.0.0 Database Date: 2006-06-02 19:06:20.0 Upgrade Maintenance Mode: off

Steps of last upgrade:

Step	Start Date	End Date	Required?
Disable/drop Foreign Keys	2006-06-02 19:06:20.0	2006-06-02 19:06:20.0	yes
Pre-Data Schema Changes	2006-06-02 19:06:20.0	2006-06-02 19:06:20.0	yes
Data Migration	2006-06-02 19:06:20.0	2006-06-02 19:06:20.0	yes
Post-Data Schema Changes	2006-06-02 19:06:20.0	2006-06-02 19:06:20.0	yes
Java Based Migration	2006-06-02 19:06:22.0	2006-06-02 19:06:23.0	yes
Deprecation Scripts	2006-06-02 19:06:23.0	2006-06-02 19:06:23.0	no

### **Test Servlet Functionality**

- 1. Click Installation Tests under Generic Web App.
- 2. Click **Snoop Servlet** in the main pane.

A new browser window opens to display information on the parameters passed from the Web client to server.

Snoop Servlet - Request/Client Information		
Requested URL:		
http://qa-app2.flashling	e.com:3080/flashline/Snoop	
<b>Request Infor</b>	mation:	
Request method	GET	
Request URI	/flashline/Snoop	
Request protocol	HTTP/1.1	
Servlet path	/Snoop	
Dath info	(nono)	

## **Test Required Libraries**

- 1. Click Installation Tests under Generic Web App.
- 2. Click **Test Required Libraries** in the main pane.

A new browser window opens to display information on the property files and system properties essential to proper functionality.



### **Test Database Connectivity**

- 1. Click Installation Tests under Generic Web App.
- 2. Click **Test Database** in the main pane.

A new browser window opens to display information on container access, the availability of JDBC drivers and the presence of important ALER data tables.

Self test: com.flashl	ine.cmee.servlet.diag.Database
JDBC Driver	oracle.jdbc.driver.OracleDriver
URL	jdbc:oracle:thin:@qa-app2.flashline.com:1521:sid1
Username	cmee50qa1
Password	(private)
Driver Name	Oracle JDBC driver
Driver Version	9.2.0.5.0
String Functions	ASCII, CHAR, CONCAT, LCASE, LENGTH, LTRIM, REPL
Date Functions	CURDATE, CURTIME, DAYOFMONTH, HOUR, MINUTE
Numeric Functions	ABS,ACOS,ASIN,ATAN,ATAN2,CEILING,COS,EXP,FI
System Functions	USER
SQL: select count(	*) as bad_editor_xmls from assettypeeditorxmls where editorx
BAD_EDITOR_X	XMLS
0	

# **List System Paths**

- 1. Click Installation Tests under Generic Web App.
- 2. Click List System Paths in the main pane.

A new browser window opens to display all ALER paths.

cmee.server.paths.image=http://qa-app2.flashline.com:3080/flashline-web/images cmee.server.paths.jnlp-tool=http://qa-app2.flashline.com:3080/flashlineweb/webstart cmee.server.paths.jsp=http://qa-app2.flashline.com:3080/flashline cmee.server.paths.resource=http://qa-app2.flashline.com:3080/flashline-web cmee.server.paths.servlet=http://qa-app2.flashline.com:3080/flashline cmee.server.paths.upload=/usr/local/build-jakarta-tomcat-5.0.25/webapps/flashline/WEB-INF/upload cmee.server.paths.upload-registrar=\\qa-app2\upload-autobuild\ cmee.server.paths.upload-registrar=\\qa-app2\upload-autobuild\

## **Run Pre-Compile Servlet**

- 1. Click Tools under Generic Web App.
- 2. Click JSP Precompiler in the main pane.

A new browser window opens to display a list of system JSPs that have been pre-compiled for speedier first time access.

```
Base URL: http://qa-
app2.flashline.com:3080/flashline/
Compiling jsps using jsplist.txt...
Starting : http://qa-app2.flashline.com:3080/flashline/c
Finishing: http://qa-app2.flashline.com:3080/flashline/c
Starting : http://qa-app2.flashline.com:3080/flashline/i
Finishing: http://qa-app2.flashline.com:3080/flashline/i
Starting : http://qa-app2.flashline.com:3080/flashline/c
SKIPPED: http://qa-app2.flashline.com:3080/flashline/c
Finishing: http://qa-app2.flashline.com:3080/flashline/c
```

- Note:
  - The Pre-Compile Servlet test does not function for WebSphere 5.0
  - This servlet produces errors within the error log; please reset logs before

starting the application server.

### **Other Features**

Additional **Diagnostics** functionality includes:

- Testing browser redirection compatibility to both a standard URL or local file
- Listing all enabled ALER Settings
- Listing all Types in the system
- Displaying XML for a specific Type (both editor and viewer).
- Displaying ml for a specific asset.
- Current authtokens and custom access settings.
- Listing import/exports jobs
- Inspecting LockBroker status
- SOAP admin console

You may be instructed by BEA Support to use these optional features as a troubleshooting measure.

## Test the Web Server Installation

- Open a browser and enter the URL for the Web server: Host:port/aler-web, followed by /images/logo.gif.
- 2. When the page loads, note the address and whether the image appears in the browser. That address, minus /logo.gif, is the value for aler.server.paths.image.



# **Departments**

Departments should be set up before Users and Projects.

### **Creating a New Department**

This procedure is performed on the Admin screen.

- 1. Click **Departments**.
- 2. Click Create New in the Departments section.

Departments 🔹 👽
Name
Search
Create New List All

3. In the **Create New Department** dialog box, enter the appropriate information in each of the text boxes.

Create New Department
Name*: R&D Description: This department includes all developers and writers.
*Denotes required field Save Cancel

4. When finished, click **Save**.

## **Editing Department Information**

This procedure is performed on the Admin screen.

- 1. Click **Departments**.
- 2. Click List All, or search for a particular department.
- 3. Select the department to be edited from the list in the main pane.



The department's detail is displayed in the bottom frame.

- 4. Click Edit in the department detail.
- 5. In the **Edit Department** dialog box, make changes as necessary to information in each of the text boxes.

Edit Department: R&D	
Name*: R&D	
Description: This department includes all developers and writers.	]
*Denotes required field Save Cancel	

6. When finished, click **Save**.



# **Projects**

### **Overview**

The AquaLogic Enterprise Repository **Projects** screen provides access to tools for creating and managing projects.



## **The Project Detail**

Project information is displayed in the same manner as asset information, via a series of tabs:

- Overview
  - Includes a project Description, and indicates the assigned Department, Start Date, Estimated Hours, and project Status.
- Consumed Assets

• Lists any assets used in (or under consideration for use in) the project.



Click P next to any listed asset to display its **Reported Asset Value**. (This feature is only available to the project leader.)

Pred Com Pred Com Proj Reje	ct Lea Isamer Scied V Laner V ect Lea	da are respo Value, or er Value - This v Value - This v et Value - This stances of us	melble for accurate o for a new value to o alue is provided by th calue is provided by th a value is provided b a value is provided b	eporting of the lotermine the F e asset Product le Consumer I y the Project Le d in <b>Breakdow</b>	hours saved by Reported Asset ar. It represents the ad. The Project L h by Usage Type	reusing and Value to the total hours indual time as ead can ente and Total As	ets on their proj e Project. Use s the Producer ex eings declared b r a different value set Value.	ects. The Project La the radio buttons to pects the Consumer to the Consumer. to override all others	ad may selec soloci the ap to save. values.	t the Predict propriate val-	ed Value PL
ostar	ices of	(Use	Predicted Value	Consumer W	alue		Project Lead	Value	Reported A	iset Value 1	Project
lser	Dete	Steture	Him Seved	His Saved	Reeper Type 7	Veloable?	Ers Saved	Reage Type	Usage Type	His Saved	Source
anith	2005-10-10	DEFLOYED	ST6.0			1.4	0.0	Unspecified _	Unspecified	575.0	predicted
									Ereakdown 2 Reference Sliack Box White Box	576 Total Asset 10 y Linage Typ 0 0 0	due (hes) a

#### Produced Assets

• Lists any assets produced by the project.

Overview Consumed Assets	Produced Assets	Users Related Projects
Asset Another Sample Service (1.0)		

#### Users

 Lists all users associated with the project, as well as each user's role on the project (leader/members).

	Reassign Users / Usage
User	
jsmith (Project Leader)	
bwilson	
Fred	
stella, F	

- Related Projects
  - When enabled, lists any related projects, and defines the relationships in parent/ child terms.

## **Create a Project**

1. Click Create New in the Projects sidebar.

Projects 🔹
Name
Department All Departments Status
Search
Create New List All

The Create New Project pop-up opens.

Name":		-		
Description:				
	(May 4000 Characters)			
Estimated Development Hours:		_		
Start Date*:	2006-10-16		100	
Department*:	Select Department			
Status:	Onen .			
tomatically assign to new users?				
	-			
ers				 ► Ed
Project Leaders*		Project Mer	nbers	
lated Projects				 ► Ed
				_
Parent Projects		Child Proje	cts	the second

- 2. Enter the appropriate information in the Name, Description, and Estimated Development Hours text boxes.
- 3. Click to open the calendar to select a **Start Date**.



4. Select a department from the **Department** drop-down.



5. Select the appropriate status in the **Status** drop-down.



6. If necessary, select Automatically Assign New Users.



7. Click **Edit** in the **Users** section.

roject Leaders"	Project Members
mith	

The Add / Remove Users pop-up opens.

ind a User	
iame	Department All Departments
Search	
List All Users	
Search Results	Project Leaders
Foldi, Chris	>> jsmith
stella, casey E.	
	All >>
a management	an er l
	MISS
	Colored Harry
	>> Rhubart, Bob
	Smith, John
	<
	All >>
	Contraction of the second s
	All <<

- 8. Use Search or List All Users to display a list of users in the Search Results section.
  - Use the **Department** drop-down to filter search results.
- 9. Use the >> and << buttons to move users between the Search Results, Project Leaders, and Selected Users sections.
- 10. Click **OK**.

The assigned **Project Leaders** and **Project Members** appear in the **Users** section of the **Create New Project** pop-up.

ers		
Project Leaders*	Project Members	
jsmith	Rhubart, Bob	
accounter a contraction of the	Smith, John	
	Yoder, John	

#### 11. Click Save

The **Create New Project** pop-up closes, and the new project detail appears on the **Projects** screen.

Project: Example Project	8000
	Edit
Overview Consumed Assets Users Related Projects	
Example Project	Launch Navigator
Description: An example of an ALER project.	
Department: MyDepartment Start Date: 2006-10-16 Estimated Hours: 100	
Status: Open	

### **Edit a Project**

- 1. Use **Search** or other means to locate the project to be edited.
- 2. Click the Edit button in the project detail.
- 3. Edit the project information as necessary. (See Create a Project.)

## **Reassign Users / Usage**

1. Select the **Users** tab.

	Reassign Users / Usage
User	
jsmith (Project Leader)	
bwilson	
Fred	
stella, F	

2. Click Reassign Users / Usage

The Reassign pop-up opens.

Select A	ction		
• Reas	sign Users with their Usage to a	new project	
O Reas	sign Usage Only		
Select P	roject		
Select P	roject Choose a New Project		
Select P	roject Choose a New Project		
Select F	roject Choose a New Project		

3. Use the radio buttons to select the appropriate action.



The Search for a Project pop-up opens.

Name	Department All Departments	Status     All Status •
Search List All Projects		
Example Project Project 1		-
Project 1a test-project		

- 5. Use **Search** or **List All** to display a list of projects.
- 6. Select the project to which the users and/or usages are to be reassigned.
- 7. Click Next

The Select users you wish to reassign pop-up opens.

rs

- 8. Use the >> and << buttons to reassign users as **Project Leaders** and/or **Project Members**.
- 9. Click Next.

A confirmation message appears.

Big Project
Reassignment successful. You may press done now to close the window, or reassign more users / usage.
Done

10. Click Done

## Locate a Project

Projects 💎
Name
Department All Departments 💽
Status All Status -
Search
Create New List All

- 1. Enter a keyword or search term in the **Name** text box.
- 2. Use the **Department** and **Status** drop-downs as necessary to filter the search.
- 3. Click the **Search** button.

Search results are listed in the main pane.

		Result	
	Project	Department	<u>Status</u>
Ċ	Big Project	My Department	Open
٥	Example Project	My Department	Closed
Ċ	Project 1	My Department	Open
8	Project 1a	My Department	Open



# Users

## **Creating a New User**

This procedure is performed on the BEA AquaLogic Enterprise Repository Admin screen.

1. Click Create New in the Users section.

Users	0
Name	
Department	
All Departments	
Role All Roles	
Status	
Search	
Create New List All	

The Create New User pop-up opens.

2. Enter the appropriate information in each of the text boxes in the **Overview** section.

Overview	
Username*:	
First Name:	
Middle Name:	
Last Name*:	
Email*:	
Phone:	
Status:	Active
Password*:	
	Must change password on next login
	Password never expires

- 3. Select Active in the Status drop-down.
- In the Roles section, assign roles to the new user by using the >> and << buttons to move items from the Available Roles column to the Selected Roles column. (The User role is the default role for all new users.)

accessAdministrator admin	>> user
advancedSubmitter businessAnalyst projectAdministrator projectArchitect registrar registrarAdministrator systemAdministrator	< <p>All &gt;&gt;</p>

 In the Departments section, assign the new user to departments by using the >> and << buttons to move items from the Available Departments column to the Selected Departments column.

Departments	
Available Departments	Selected Departments
Department #1 Department #2	All >>

6. When finished, click **Save**.

# **Viewing User Information**

This procedure is performed on the BEA AquaLogic Enterprise Repository Admin screen.

1. In the Users section, use Search or List All to locate the user(s) to be viewed.

The list of users opens in the main pane.

		Results (7)
User Name	Display Name	<u>Status</u>
bwilson	bwilson	Active 🛋
cstella	stella, F.	Active
flashline	flashline	Active
Fred	Tomlinson, Fred (50006)	Active
jsmith	Smith, John J. (50004)	Active 🚽
User: jsmith		© © © ©
		View Access Clone Edit
Overview		Roles
UserName:	jsmith	admin
First Name:	John	user
Middle Name:	James	Departments
Last Name:	Smith	Department #1
Email:	jsmith@company.com	Department #1
Phone:	555-555-1234	Projects
Status:	Active	Big Project
		example jsmith - MyProject (Closed)
		example jsmith - Project1a (Closed)
		Example Project
		Project 1
		Project 1a
		test-project

2. Select a user from the list.

The user's information is displayed in the lower pane.

- 3. Click to expand the **User** detail to fill the main pane.
- 4. Click 😁 to switch to the tabbed view of the **User** detail.

User: jsmith	
View Access CI	one Edit
Overview Roles Departments Projects	
UserName: jsmith	
First Name: John	
Middle Name: James	
Last Name: Smith	
Email: jsmith@company.com	
Phone: 555-555-1234	
Status: Active	

- 5. Click 🗐 to switch back to the standard view of the **User** detail.
- 6. Click **Solution** to scroll through the list of users.

### **User Search**

This procedure is performed on the BEA AquaLogic Enterprise Repository Admin screen.

1. Enter appropriate text in the **Name** text box.

Users 🔽
Name
Department
All Departments 💽
Role All Roles
Status
Search
Create New
List All

- 2. Use the Department, Role, and **Status** drop-downs as appropriate to narrow the search.
- 3. Click the **Search** button.

Search results appear in the list in the upper frame of the main pane.

# **Cloning a User**

#### Overview

Cloning a user provides an easy way for administrators to quickly duplicate user accounts.

This procedure is performed on the BEA AquaLogic Enterprise Repository Admin screen.

- 1. In the Users section, use Search or List All to locate the user to be cloned.
- 2. Click Clone in the user detail.

The **Clone User** pop-up opens (same form as the **Create New User** pop-up). The **Overview** section will be blank, but information in the **Roles** and **Departments** sections duplicates that of the cloned user.

- 3. Enter the appropriate information in each of the text boxes in the **Overview** section.
- 4. If necessary, edit the information in the in the **Roles** and **Departments** sections by using the >> and << buttons to move items between the **Available** and **Selected** columns.
- 5. When finished, click **Save**.

## **Editing user Information**

This procedure is performed on the BEA AquaLogic Enterprise Repository Admin screen.

1. In the **Users** section, use **Search** or **List All** to locate the user(s) to be edited.

The list of users opens in the main pane.

		Results (7)
User Name	Display Name	Status
bwilson	bwilson	Active 🛋
cstella	stella, F.	Active
flashline	flashline	Active
Fred	Tomlinson, Fred (50006)	Active
jsmith	Smith, John J. (50004)	Active 🗾
User: jsmith		⇔ < > <>
		View Access Clone Edit
Overview		Roles
UserName:	jsmith	admin
First Name:	John	user
Middle Name:	James	Departments
Last Name:	Smith	Department #1
Email:	jsmith@company.com	Department #1
Phone:	555-555-1234	Projects
Status:	Active	Big Project
		example jsmith - MyProject (Closed)
		example jsmith - Project1a (Closed)
		Example Project
		Project 1
		Project 1a
		test-project

2. Select a user from the list.

The user's information is displayed in the lower pane.

3. Click **Edit** in the user detail.

The **Edit User** pop-up opens (same form as the **Create New User** and **Clone User** pop-ups).

- 4. Make changes as necessary in the **Overview**, **Roles**, and **Departments** sections.
- 5. When finished, click **Save**.



# **Password Encryption**

Password encryption is enabled by default within the BEA AquaLogic Enterprise Repository, however, you may use the JVM startup parameter *cmee.passwordencryption=false* to disable password encryption.

## **Generation of encrypted passwords**

- 1. Access the AquaLogic Enterprise Repository Diagnostics page.
  - Navigate to: http://host\_name/application\_name/diag/index.jsp (replace host\_name with the appropriate location).
- 2. Scroll down to the **Tools** section and click the *Encrypt Strings for passwords* link to lauch the **Password encryption** page.
- 3. Enter the clear text password into the **String to Encrypt** text box.
- 4. Click the **Submit Query** button.
- 5. Copy the resulting encrypted password string and paste it into the appropriate context or properties file(s).

# Suggested uses of Encrypted Passwords

- database.properties
  - The connection password for the database.
- Ant task property file or build script
  - The password the ALER user will use at login.

## **Other Passwords**

- Other passwords in the system are encrypted automatically. This operation is invisible to the user.
- A number of fields stored in the properties files are encrypted by default, including:
  - Idap.bindPassword
  - o enterprise.guest.password
  - o cmee.wsaa.password

This encryption occurs when the properties are edited and saved. Automatic encryption of passwords during an upgrade script is unavailable at this time.

• Passwords stored with the repository hosts are stored in the database in an encrypted format.



# Install Java Web Start on the Client

Java Web Start is a browser plug-in that runs files with .JNLP extensions. Java Web Start must be available on the client in order to use AquaLogic Enterprise Repository's **Asset Editor**.

## **Download and Install Java Web Start**

- 1. Download Java Web Start from *java.sun.com*.
- 2. When the download is complete, install Java Web Start.
- 3. When installation is complete, open the Windows control panel.
- 4. Open the Java Plug-in.
- 5. Click the browser tab and check the appropriate browser(s) with which to use the Java Web start application. (Required for proper **Asset Editor** functionality.)
- 6. Click the **Advanced** tab.
- 7. Select the appropriate SUN Java JRE version for use with the installed version of AquaLogic Enterprise Repository.
- 8. Close and re-open all instances of the Internet Explorer or Netscape browsers.
- 9. Navigate to the AquaLogic Enterprise Repository instance.



10. Click Edit / Manage Assets on the AquaLogic Enterprise Repository Assets screen.



A security warning pop-up opens. (This occurs only during the first launch of the **Asset Editor**.)



### 11. Click Start.

Java Web Start installs and the Asset Editor opens.

# Java Web Start Troubleshooting

AquaLogic Enterprise Repository employs a browser MIME type support checking process that is executed when the **Edit/Manage Assets** (**Assets** screen) and **Edit** (asset detail display) links are generated. This process will inspect the client browser to determine if there is a registered handler for a JNLP file (which should launch Java Web Start). If this process fails or returns no results, the link HREF target will point to flashline-web/web start/launch.htm.

The browser-supported mime type determines which client installed application will be presented as the target of the **Edit / Manage Assets** and **Edit** links. Java Web Start must be properly installed in order to work correctly with the operating system as the handler for JNLP files passed to the client browser.

The process of registering this mime type with the browser is normally handled during installation of the Java Web Start plug-in application. Certain corporate security measures or anti-spyware applications may block this kind of change to the Windows Registry, as will the improper installation and/or removal of the Java Web Start application, Java Run Time Environment or Java SDK if improperly registered within the Java Plugin applet within the

Windows Control Panel.

The following instructions may help to rectify the incorrect MIME type support, assuming that Java Web Start and an appropriate version of the SUN Java JRE are properly installed within the client computer system.

To manually set the file/MIME association within the Windows operating system using the Windows Explorer:

- 1. Open the **Tools** Menu.
- 2. Select Folder Options
- 3. Select the File Types tab.
- 4. Scroll down to JNLP or create a new JNLP file type.
- 5. Associate the Java Web Start Application (located in the correct path if more than one JWS is installed) with the JNLP file extension.
- 6. In the Windows **Control Panel**, add support (check the option) for Internet Explorer within the Java Plug-in console applet. This process should assign the JNLP file type to Java Web Start within the Windows operating system.



# **Enabling the Navigator**

### **Overview**

The AquaLogic<sup>TM</sup> Enterprise Repository **Navigator** provides a dynamic, three-dimensional graphical representation of relationships and interdependencies that connect assets and projects.

## **Enabling the Navigator**

The procedure is performed on the AquaLogic Enterprise Repository Admin screen.

#### 1. Click System Settings.

System Settings	0
	_

The System Settings section opens in the main pane.

BEA AquaLogic" Enterprise Repos Assets Projects My Stuff Re	atory Iparts Admin	Repository Request   Help
Users O	System Settings: all	Enable New System Setting
Roles O Departments Department	(+ Clear	Enable
System Settings	D Functional Settings	90 • 0
Email Templates	Server Settings     Enterprise Authentication	99 89
	External Integrations Import / Export and Introspection	86 86
	Save Cancel	> Move settings to database

2. Enter navigator in the System Settings Search text box.

Search	
▶ Clear	

The Projects and Navigator section opens.

Projects and Navigator	
Navigator & Project Hierarchy omee.projecttool.advanced	© True O False Enables advanced project options including the navigator and project hierarchy
Navigator Support for Microsoft JDK omee.navigator.force-msjdk-support	© True O False Uses alternative navigator applet which is compatible with Microsoft's applet plugin for Internet Explorer.

- 3. Set the Navigator and Project Hierarchy property to True.
- 4. Set the Navigator Support for Microsoft JDK property to True.
- 5. Click Save.

The Navigator is now enabled. The **Launch Navigator** button now appears in the asset detail display.





# Using an X Windows Server with the ALER Reporting Engine

When running on Unix/Linux, the reporting engine in AquaLogic Enterprise Repository requires a connection to an X Windows server in order to generate reports. This is a functional requirement of the Java JRE, which creates a handle to the graphics environment to determine font sizes and perform other graphics-related operations. On Windows platforms, availability of the graphics environment is a given, but on Linux and other Unix platforms, it is not always present. The X Windows server can run on either the same machine as the application server or on another machine, provided that proper access is granted to use the X Windows environment from the application server.

Two steps are necessary for use (unless the application server is started while logged into the X Windows environment). The X Windows security model generally only allows applications to use the environment if they are started within the X Windows environment.

#### **Granting Temporary Access to an X Windows server**

- 1. On a local machine, to allow a background server process access to the X Windows server, perform the following command in an xterm window (or equivalent):
  - o xhost +<user>
    - (Where <user> is the username of the application server process.)
- 2. To allow the application to connect to a remote server, perform the following command on the remote X Windows server in an xterm window (or equivalent):

o xhost +<ip>

(Where <ip> is the IP address of the application server.)

#### **Granting Permanent Access to an X Windows server**

To configure X Server access to selected hosts follow these three steps:

1. Search through all files in the directory /usr/lib/X11/xdm (or in /etc/X11/xdm) for

occurrences of the command "xhost +" or "/usr/bin/X11/xhost +".

- 2. Remove or comment out all such lines.
- 3. Create or edit the file "/etc/Xn.hosts" where 'n' is the display number of the server on the local host, normally 0, as in "/etc/X0.hosts".
- 4. To deny all X access to your system, the file /etc/X0.hosts will contain a single character, "-".
- 5. To grant access to hosts "localhost", "newhost.gov" and "secondhost.gov" and no other hosts the file /etc/X0.hosts will consist of:

```
+localhost
+newhost.gov
+secondhost.gov
```

### Setting DISPLAY Variable

- 1. On the application server, preferably in the application server software's startup script, add the following (assumes an *sh* or *sh* derivative shell):
  - o DISPLAY=<xwindows host>:0.0 export DISPLAY,
  - o (Where <xwindows host> is the name or IP of the remote X Windows server.)
    - (localhost may be used for a server running on the same machine)
- 2. Restart the application server.

#### **Other Notes**

- While the reporting engine does not require the X Windows server to run on the application server itself, the X11 client libraries must be accessible on the application server to reference the graphics toolkit functions.
- In order to test the authorization and setting of the DISPLAY variable, launch an application, such as **xterm** or **xeyes** from the application server and verify that the application appears properly on the remote X Windows desktop.
- If you experience authorization problems with the application server connecting to the remote X Windows server, try "xhost +" to allow all remote client access to the X Windows server.

#### **X Windows Alternatives**

For installations where X Windows is not a feasable option within the Enterprise Architecture, or where servers are racked together within a datacenter and run headless. Since each of these options simulates an X server, the X Windows installation instructions above regarding setting the appropriate *DISPLAY* environment variable and the use of the *xhost* commands also apply. Two options have proven to be effective and compliant within many environments:

- **XVfb** X Virtual Frame Buffer An alternative to a fully fledged X Windows installation.
- **VNC Server** Again an effective alternative with added benefits of allowing a remote console connection to the hosting machine if configured properly.
  - One of the more common misconfigurations with the VNC Server option is how a firewall will block a listening port for either of these services. For example, vncserver by default will listen on TCP port 5901 which would correspond with a *DISPLAY=:1.0*. A vncserver process configured to run on *DISPLAY=:11.0* the process would be listening on TCP port 5911, etc.
  - The very minimal installation of vncserver is all that is required to allow the functionality of the AquaLogic Enterprise Repository reporting engine.



# Test the AquaLogic Enterprise Repository Installation

Testing the AquaLogic Enterprise Repository installation involves a number of tasks that ensure the proper operation of all ALER features and functions.

These instructions apply to all application servers currently supported by ALER.

#### **Test Installed Assets**

To test installed assets:

- 1. Launch ALER.
- 2. On the **Assets** tab, select an asset from the navigation tree.

Display of the asset in the main pane of the window indicates that XML data stored as BLOBS in the database are correctly loaded.

### Submit an Asset

This procedure is performed on the ALER **Assets** screen.

- 1. Click Submit an Asset.
- 2. In the Asset Submission dialog box, enter the Asset Name, Version, and Type.
- 3. Enter a description of the asset and, in the URL box, enter the file's location URL (for example, / /.example.com/repository/).

- 4. When finished, click **Continue**.
  - Note: Attempts to save as asset without first completing all required data fields will result in a warning message. A confirmation message indicates the the asset was successfully saved.
- 5. Click Close.

## Accept an Asset

This procedure is performed on the ALER **Assets** screen.

1. Click Edit/Manage Assets.

The Asset Editor launches.

- 2. Click the **Submitted** folder in the tree in the **Asset Editor**.
- 3. Locate and open the asset submitted in the previous task.
- 4. Click the asset's Administration tab.
- 5. Select Accept, Accept and Assign, or Reject, as appropriate.

Note: The registrar makes decisions about an asset based on company requirements. To accept and assign an asset means that the registrar accepts the asset and assigns it to another person to shepherd it through the remainder of the registration process.

### **Register an Asset**

- 1. On the **General** tab, complete the remaining information, including the notification email, licensing information, forum information, and support contacts.
  - Note: The notification email automatically sends notification to the email address when the asset is downloaded/selected for use. The asset can be moved from its original location to the storage repository on this tab.

#### 2. Click Approve.

- Result: The tab label changes color and the Approve button changes to Unapprove.
- 3. Click the **Taxonomy** tab.
- 4. Assign the asset to the appropriate categories and/or domains.
  - Note: Categories and domains are configurable. (See the AquaLogic Enterprise Repository Administration Guide.)
- 5. Enter any keywords and classify the asset into one of five categories:
  - **Raw:** No assurance of quality or completeness.
  - **Educational:** To be used for educational purposes only. The asset may not be complete in terms of documentation, test results, or other information.
  - **Approved:** Approved for use by the registrar
  - **Recommended:** Successfully used on at least one project.
  - Mandated: Must be used whenever the functionality it provides is needed (This is especially relevant for Web services that access customer data, process payments, and so on).
- 6. Click Approve.
  - Result: The tab label changes color, and the Approve button changes to Unapprove.
- 7. Click the **Documentation** tab.
- 8. When all of the documentation requirements are met, click Approve.
- 9. Continue the approval process for each of the remaining tabs.
- 10. On the **Administration** tab, click **Register** to complete the registration process or **Assign** to assign the asset to someone else.

- 11. Save changes.
  - Result: The asset is moved to the **Registered** folder.

### Test the new Asset

This procedure is performed on the ALER **Assets** screen.

1. Use **Search** or other means to locate the asset.

The asset should appear in the list in the upper frame of the main pane, indicating that the XML data stored as a BLOB is correctly loaded in the database.

2. Click the asset to open the asset detail in the lower frame.