

BEAAquaLogic® Enterprise Repository

Configuration Guide

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Note: See the ALER **Administration Guide** for additional information on activating and configuring ALER features and functions.

Departments

Departments should be set up before Users and Projects.

Creating a New Department

This procedure is performed on the **Admin** screen.

- 1. In the left panel, click **Departments**.
- 2. Click Create New.
- 3. In the **Create New Department** dialog box, enter the appropriate information in each of the text boxes.

Name*:	Development	
Description:	This Department includes all developers and writers.	
	(Max 4000 Characters)	

4. When finished, click Save.

Editing Department Information

This procedure is performed on the **Admin** screen.

- 1. In the left panel, click **Departments**.
- 2. Click List All, or search for a particular department.
- 3. Select the department to be edited from the list in the right panel.

The department's detail is displayed.

- 4. Click Edit in the department detail.
- 5. In the **Edit Department** dialog box, update the text boxes as required.
- 6. When finished, click **Save**.

Projects

Overview

Projects are the primary means of gathering metrics in ALER. ALER tracks assets produced by projects, as well as assets consumed by projects. ALER users are assigned to projects, and when a user submits a new asset, they are prompted for the producing project. Likewise, when a user wants to reuse an asset, they are prompted for the project on which the asset will be reused. This level of tracking allows ALER to generate reports on the reuse savings per project. It also allows ALER to report on the savings generated by asset production teams. Projects are also hierarchical, which allows organizations to, for example, establish a program that may spawn many projects.

Projects are also a channel for governance practices. ALER Compliance Templates (usually taking the form of Architecture Blueprints or Project Profiles) can be applied to projects. The compliance templates indicate assets that should be used on the project to fulfill the project's functional and non-functional requirements. This allows business analysts, architects, project managers, and other roles/functions involved in the early phases of the software development life cycle to communicate or prescribe assets that should be leveraged by development teams.

The ALER **Projects** page provides access to tools for creating and managing projects.

D Projects			Results (2)
Create New	Project	Department	Status
List All	example Smith, Joe • MyProject	Development	Open
Search	Keguoy	Development	Open
Name			
Department			
All Departments 💌 📖			
Al Status			
Search			
	Project: Registry		4 þ.
	Overview Compliance Templates Consum	ed Assets Users Related Projects	Fint
	Registry		
	Description: The Registry project		
	Department: Development Start Date: 2007-06-19 Estimated Hours: 42 Status: Open		

Viewing Project Details

Project information is displayed the same as asset information, using a series of tabs:

Overview

Includes a project **Description**, and indicates the assigned **Department**, **Start Date**, **Estimated Hours**, and project **Status**.

Compliance Templates

Displays the Compliance Template(s) assigned to the project.



Consumed Assets

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

Project: example Smith, Joe - MyProject	30 C D D	
Overview Compliance Templates Consumed Assets	Users Related Projects	in Edit
Asset	Reported Asset Value (hours)	
Sample Application - Commercial Card Authorization System	• 9	
Results have not been reviewed by project lead		

Click the **Zoom** icon next to any listed asset to display its **Reported Asset Value**.

- Project members can view the Asset Usage Detail.
- Project leaders can view/edit the Reported Asset Value.

when, or ent	er a new value	to determine the	the hours cave Reported Au	d by reusing a et.Value to the	easts on the Project. Us	e the radio bu	Propert Lead may flore to select the	select the Predicted Value appropriate value.	• •*
Weet This ye Weet This ye	dus is provided (dus is provided)	ly the asset Produ by the Consumer, I	cer. It represents trapresents the	the total hours ected time sector	the Producer rgs declared b	expects the Con y the Consumer	oumer to save.		
d Value - Thi	a value is provid a vill ant ha iach	ed by the Project L	and. The Project	Load can onter a out Redail Based N	a differenti valu falles	a to everyde all	other values.		
(the		Producted Value	Concerned Vie			Project Load 1	Value	Reported Asset Value 1	e Project
Date	Status	the Saved	the lawed	Unage Type 7	Valuable?	the lared	Unage Type	Usage Type Hrs Saved	Bears a
2007-06-19	DV PROCESS	0.0			•	O b	Ungerified w	Unspecified 0.0	products
								•	
								Total Asset	Value (h
								Extension by usage ry	-
								Bigh Box 0	
								White Box 0	
								Internation di	
	alue, or est alue - This y de - This y divide - This stances of or f the tances of or f the tances of or f the tances of or f the	alan, of effort a rise value due - This value is provided due - This value is provided of the state - This value is provide stances of use will not be incl fibre Code States 2007-06-18 Dis MoDCESS	alor, or enter a new value to determine the dee - This value is provided by the asset Produ- dee - This value is provided by the Conserver. 3 (Value - This value is provided by the Property stances of use will not be included in Breakform (Dec Producted Value Code States Ins Brook 2007-06-55 Ex BROCEDES (© 0.0	alue. Or enter a new value to determine the Reported Ass day - This value is provided by the asset Produces for represent day - This value is provided by the Consumer. Strepresents the Value - This value is provided by the Consumer the Value - This value is provided by the Report Last. The Project stances of use will not be included in Enablishers by Usage Type of Constant Value - Producted Value - Consumer Va- Data - Markes - Producted Value - Consumer Va- Data - Markes - Res Second - Res Second 	alue, or enter a new value to determine the Reported Accel Value to the dear This value is provided by the asset Products. It represents the truth lows: the This value is provided by the Conserve Dropwenter the actual time and Value. This value is provided by the Properties. The Project Leaf (an order is transmission of the included in Resolutions by Usage Type and Petal Accel 1 (the Producted Value Concerned Value Data Nation Nation Medicated In Second Value Concerned Value Data Nation Nation Medicated In Second The Second Concerned Value Data Nation Medicated Second The Second Concerned Value Data Nation Second The Second The Second Concerned Value	alue, or enter a new value to determine the Reported Asset Value to the Project. Or day This value is provided by the asset Products, it represents the strail hours the Project. Or day This value is provided by the Conserve it represents the schall the solute declared Value - This value is provided by the Conserve it represents the schall the solute declared Value - This value is provided by the Dependence it represents the schall the solute declared Value - This value is provided by the Dependence it represents the schall the solute declared transmission of one will not be included in Breakdown by Usage Type and Petal Asset Value . It is the Predicted Value Observe Value Date Predicted Value Observe Value Date Balan Hes Gread Hes Level Break Type 7 ValueMet 2007-04-18 DN INGCESE (0.0.0)	alue, or enter a new value to determine the Reported Asset Value to the Project. One the radio to dee 1 This value is provided by the asset Products. It represents the total hours the Project. One the radio to dee 1 This value is provided by the Conserve Through the actual time and/og default with the Value - This value is provided by the Property Cand. The Project Land (an other a different value to override of transmission of some of the Conserve Theorem and Value - Conserve This value is provided by the Property Cand. The Project Land (an other a different value to override of transmission of some off and the included in Breakdown by Unage Type and Total Asset Value . Even Project Land Value Concerned Value Project Land (Defa Brates Hest Sound (Hest Sound) Hest Sound (Brates) Brates Brates Brates (Brates) Brates Brates (Brates) Brates Brates (Brates) Brates (Brates	alue, or where a new value to determine the Reported Accel Value to the Project. Use the radio buttors to solici the der - This value is provided by the Sector Direported to the function of the Project appets the Consuments source der - This value is provided by the Consumer Direported to a cost the model of the Consumer to source der - This value is provided by the Consumer Direported and the accel the model of the Consumer to source of Value - This value is provided by the Propertice. The Project Land (an enter a different value to even the all other values.) It and the source of not be included in Breakdown by Usage Type and Fatal Accel Value. It are not as the included in Breakdown by Usage Type and Fatal Accel Value. It are not be included in Breakdown by Usage Type and Fatal Accel Value. It are not be included in Breakdown by Usage Type and Fatal Accel Value. It are the included in Breakdown by Usage Type and Fatal Accel Value. It are the included in Breakdown by Usage Type and Fatal Accel Value. It are the included in Breakdown by Usage Type and Fatal Accel Value. It is fared to be the factor of the Second Type Type Type Type Type Type Type Type	alue, or what a new value to determine the Reported Asset Value to the Project. Use the radio buttors to solvet the appropriate value. dee - This value is provided by the Sonset Receiver to the trainfours the Project aspects the Consumer to solve. Adda - This value is provided by the Sonset Receiver to the solve of the Sonset Web to Consumer to solve. Adda - This value is provided by the Sonset Receiver to the solve of the solve of the Sonset Receiver to solve. Adda - This value is provided by the Sonset Receiver to the solve of the Sonset Receiver to solve. Adda - This value is provided by the Sonset Receiver to the solve of the Sonset Receiver to solve. Adda - This value is provided by the Sonset Receiver to Sonset Receiver to Sonset Receiver to solve the Sonset Receiver to solve the Sonset Receiver to Sonset R

• **Reported Asset Value** represents the hours saved by reusing assets on their projects. This value is derived from either the Predicted Value, Consumer Value, or a completely new value determined by the project leader. Only the project leader can set this value.

Produced Assets

Lists any assets produced by the project.

Project: projectTest1	399 D <i>ø</i>
	►.Edit.
Overview Compliance Templates Consumed Assets Produced Assets Users	Related Projects
Asset	1
Sample Service (2)	

Users

Lists all users associated with the project, as well as each user's role on the project (leader/members). Project leaders have the ability to assign a Reported Asset Value value to assets consumed by the project.

Project: Sample Project	***
Overview Compliance Templates Consumed Assets Users Re	Lated Projects
User	🕨 Reassign Users / Usage
Smith, Joe (Project Leader)	
Chin, Dennis	
kolli, sashi	
Last, RegistortF.M.	
<u>Stella, F</u>	

Related Projects

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

Creating a Project

This procedure is performed on the **Projects** page.

1. In the left panel, click Create New.

The Create New Project pop-up opens.

Create New Project	
Overview	
Name*:	
Description	
	(Max 4000 Characters)
Estimated Development Hours	0
Start Date*:	2007-06-24
Department*:	Select Department
Status	
Automatically assign to new users?	Open V
Users	- Tau
Project Leaders*	Project Nembers
Related Projects	b ten
Descent Destants	
Parent Projects	Child Phojects
*Denotes required field	
Save Cancel	

- 2. Enter the appropriate information in the **Name**, **Description**, and **Estimated Development Hours** text boxes.
- 3. Click the ... button 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.

The Add/Remove Users pop-up opens.

fit Project: Comm	on Project			
/ Remove Users				
d a User				
me	Department			
	All Departments	×	Hide inactive	users
Search				
List All Users				
Search Results		Project	Leaders	
	~	>>		
		55		
		All>>		
		All <<		
		Selecter	d Users	
		>>		
		All >>		
		All <<		
	~		1200	
OK Cancel				

- 8. Use Search or List All Users to display a list of users in the Search Results section.
 - o Use the **Department** drop-down to filter search results.
- 9. Use the >> and << icons 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.

Users	
	► Reassign Users / Usage
User	
Admin, Repository (Project Lea	ader)
Sauer, Randy	
Schieli, Jeff	
Yoder, John	

11. Click Save

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

Project: Sample Project	***
Overview Compliance Templates Consumed Assets Users Related Projects	Fide
Sample Project	
Description: An Example of an ALER Project	
Department: Development Start Date: 2007-06-20 Estimated Hours: 50 Status: Open	

Editing a Project

This procedure is performed on the **Projects** page.

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

Reassigning Users / Usage

This procedure is performed on the **Projects** page.

1. Select the Users tab.

Project: Sample Project	***
Overview Compliance Templates Consumed Assets Users	Related Projects
User	► Reassign Users / Usage]
Smith, Joe (Project Leader)	
Chin, Dennis	
kolli, zashi	
Last, RegistortF M.	
Stella, F	

2. Click Reassign Users/Usage.

The Reassign pop-up opens.

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

4. Click Choose a New Project.

The Search for a Project pop-up opens.

Name	Department All Departments	Status Status Image: Construction of the second
Search List All Projects		
Ok Cancel		

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

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

earch Results	22222310	Reassion as Project Leaders	
Admin, Repository (Project Leader) Sauer, Randy Schiefi, Jeff Yoder, John	>> << All>>		<
	All <<		y.
		Reassign as Project Members	
	>> << All>>		-
	All <<		
~			4

- 9. Use the >> and << icons to reassign users as Project Leaders and/or Project Members.
- 10. Click Next.

A confirmation message appears.

11. Click Done.

Locating a Project

This procedure is performed on the **Projects** page.

- 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. If enabled, you can also filter by Categorizations.
- 4. Click Search.

Search results are listed in the main pane.

Users

Creating a New User

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

- 1. In the left panel, click **Users**.
- 2. Click Create New in the Users section.

The Create New User pop-up opens.

3. 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*:	
	When the second on east login
	Password never expires

- 4. 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.)

Available Roles	Selected Roles	
accessAdministrator admin advancedSubmitter businessAnalyst projectAdministrator projectArchitect registrar registrarAdministrator systemAdministrator	All <<	
	X	M

6. 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.

epartments		
Available Departments	Selected Departm	nents
Development	 All >> All < 	<u>A</u>
	<u>×</u>	<u></u>

7. 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 (4)
User Name	Display Name	Status
Fred	Tomlinson, Fred	Active
nopriv	priv, no	Active
User: Fred		
		View Access F Clone F Edit
Overview		Roles
UserName:	Fred	accessAdministrator
First Name:	Fred	advancedSubmitter
Middle Name:		projectAdministrator
Last Name:	Temlinson	registrar
Email:	fred@company.com	registrarAdministrator
Phone:		systemAdministrator
Statusi	Active	user
		Departments
		This user does not belong to any departments
		Projects
		This user is not currently assigned to any projects

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: Fred	
	View Access F Clone Edit
Overview Roles Departments Projects UserName: Fred	
First Name: Fred	
Middle Name:	
Last Name: Tomlinson	
Email: fred@company.com	
Phone:	
Status: Active	

- 5. Click to switch back to the standard view of the **User** detail.
- 6. Click 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.
- 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 the Clone button 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.

2. Select a user from the list.

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

3. Click the **Edit** button 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
 - $_{\odot}~$ 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:
 - o 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 artifact stores are stored in the database in an encrypted format.

Customize the BEA AquaLogic Enterprise Repository Help System

Overview

In standard AquaLogic Enterprise Repository (ALER) installations, **Help** links point to BEA-hosted Help files. In some situations, however, it may be more appropriate to host the Help files locally. This document outlines the necessary procedure.

Download the Help File

- 1. Download the compressed AquaLogic Enterprise Repository **Help** file. (Contact BEA support for the correct version for your system.)
- 2. Extract the contents of the compressed **Help** file to the desired URL-accessible directory on the appserver/web server.

Configure the Custom Help URL Property

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

1. In the left panel, click System Settings.

The **System Settings** section opens.

Users	œ	System Settings: all
Sessions		2 YO Y YO
Roles	۲	Search Enable New System Setting
Departments	œ	
Basic Access Settings	œ	
Custom Access Settings	œ	00
System Settings	-	Brunctional Settings Big
Email Templates	-	B Server Settings B
Import Export	œ	Enterprise Authentication
SFID Manager	œ	B Open API
		DExternal Integrations
		Dimport / Export and Introspection
		#Components Bit
		> Mexanetimente detabana
		Save Cancel

2. Type help into the System Settings Search text box.

The Custom Help URL property appears.

Custom Help URL		
omee.tool.nelp.url	Specifies a custom URL for the Help link.	

- 3. Enter the appropriate URL for the Help files in the **Custom Help URL** property text box. The proper end-point to the URL should be **wwhelp.htm**
 - The primary **Help** URL must reflect the newly created file location. For example:

http://host.domain.name:port/aler-web/help/wwhelp.htm

- 4. Click Save.
- 5. Refresh the browser.
- 6. Click **Help** in the AquaLogic Enterprise Repository menu bar to verify that the link points to the appropriate URL.

Create and Configure an Upload Submission Directory

Create a Submission Upload Directory

On the application server, create a directory that will contain asset files that are uploaded during asset submission.

Set up a Shared Directory for a Submission Upload Directory

Using the appropriate procedure for the operating system in use, create a shared directory.

- For Windows this is usually a UNC share.
- In UNIX variants an application makes directories and files available (i.e., Samba, Apache, NFS, etc.).

Asset Upload System Settings

This procedure is performed on the ALER Admin screen.

- 1. In the left panel, click System Settings.
- 2. Locate the Upload Area section in the Server Settings group.

EUpload Area	
Submission Upload Directory crises server.paths.upload	The directory used to store files uploaded during asset submission. If left blank, users will not be able to upload
Registrar Submission Upload Path mea.server.paths.upload-registrar	The path for Asset Editor browsing. Usually a UNC path which allows direct access to the submission upload
Submission Upload Artifact Store	Anectory.
	Artifact store which allows direct public access to the submitted files. Used for one-step acceptance of submitted files in the Asset Editor.

3. Using the following information a as a guide, change the **Upload Area** settings to reflect your organization and its environment.

Submission Upload Directory

- o cmee.server.paths.upload
- Defines the directory used to store files uploaded with assets submitted from the Registry. If left blank, you cannot upload files. The directory should be placed inside the ALER web app. For example: <BEA_HOME>/user_projects/domains/<alerdomain>/ autodeploy/<aler-app-name>/aler-app/custom/upload where upload is a directory created inside the custom directory. It is not necessary that upload directory be a child of a custom directory but it is a recommended practice. This property enables the following features:
 - Enables the Add Attachment Now option in the Asset Submission form. (Required if files are to be attached to assets during the submission process.)
 - Enables Uploaded Submission Files option in the Asset Editor.

Registrar Submission Upload Path

- o cmee.server.paths.upload-registrar
- Defines the directory path for registrar browsing, typically a UNC path, which allows direct access to the submission upload directory. The upload folder should have a windows share. For example: \\<machineName>\<sharename>\upload. Leave blank if upload repository is not UNC.
 - Enables file browsing through the **Asset Editor** (Optional).
 - The path, when hosted by UNC, requires Windows OS or Samba/Sharity.
 - Enables the appearance of the Browse button in Uploaded Submission Files in the Asset Editor.

Submission Upload Artifact Store

- o cmee.server.paths.upload-repository
- Specifies a configured artifact store to allow direct public access to the submitted files.

Used for one-step acceptance of submitted files in the Asset Editor. When this property is set:

- Asset files that available for use/download are visible.
- The Accept button is visible in the uploaded submission files section of the Asset Editor.

Proxy Downloads

ALER includes an additional option that allows the Repository application server to act as a repository proxy for the user. This feature automatically removes username and password text that is supplied in the HTTP URL during file downloads. This feature is applicable to any artifact store providing that ALER can have network connectivity to resources in that store. Contact ALER support for details.

Examples of Artifact Store Configurations

For instructions on configuring one of the following artifact stores, see **Creating and Configuring an Artifact Store**.

• UNC

- o Hostname: aler
- Path: upload/
- o Username: aler
- o Password: flash
- o URL: file:///aler/upload/

• HTTP

- o *Hostname*: aler
- Path: aler-web/upload
- o **Username**: aler
- o Password: flash
- o URL: http://aler:flash@aler/aler-web/upload/

• FTP

- Hostname: meta.aler.com
- o Path: upload
- o **Username**: aler
- o Password: flash
- o URL: ftp://aler:flash@meta.aler.com/upload/
- ClearCase
 - Hostname: clearcase.aler.com
 - Path: ccaseweb/bin/ccweb
 - o **Username**: aler
 - o Password: flash
 - URL: http://clearcase.aler.com/ccaseweb/bin/ccweb/?dir=/ &elem=&cmd=view&user=aler&password=flash

• PVCS

• Hostname: pvcs.aler.com

- o Path: dav
- o **Username**: aler
- o Password: flash
- o URL:http://aler:flash@pvcs.aler.com/dav/
- Raw URI
 - Name: Example RAW URI
 - o RAW URI: http://www.example.com/path1/path2?parameter1¶meter2
 - o URL: http://www.example.com/path1/path2?parameter1¶meter2

Creating and Configuring an Artifact Store

An Artifact Store is where the files relevant to assets in ALER are stored. This procedure is begins on the ALER **Assets** page to access the Asset Editor.

1. Click Edit/Manage Assets



The Asset Editor opens.



2. Select Configure Artifact Stores in the Actions menu.

The Configure Artifact Stores pop-up opens

Configure Artifact Stores	X
ALER_CVS HTTP	Add Edit
OK	

3. Click Add.

The Create a New Artifact Store pop-up opens.

Create a new Artifact Store	$\overline{\mathbf{X}}$
Name	UNC
Туре	UNC
Hostname	aler
Path	upload/
Username	Myname
Password	*****
URL	file:////aler/upload/
Proxy Download Requests	
	OK Cancel

- 4. Enter a unique name for the artifact store in the **Name** text box.
- 5. Select the type of artifact store from the **Type** drop-down (this example use **UNC**).
- 6. Enter the host name of the application server in the **Hostname** box.
- 7. Enter the rest of the path in the **Path** text box.

A file link, appended with the host name and path, appears in the **URL** text box. This link can be cut/pasted into a file explorer/browser window in order to view the file.

- 8. If necessary, enter the appropriate information in the **Username** and **Password** text boxes.
- 9. Click **OK**.
- 10. Enable the artifact store using **Submission Upload Artifact Store** system setting, as described in **Selecting a New Artifact Store**.

Selecting a New Artifact Store

After configuring an artifact store as described in **Creating and Configuring an Artifact Store**, you must select it using the **Submission Upload Artifact Store** system setting on the ALER **Admin** page.

- 1. Open the ALER Admin page.
- 2. In the left panel, click System Settings.
- 3. Locate the **Upload Area** section in the **Server Settings** group of system settings.

EUpload Area	
Submission Upload Directory cree.server.paths.upload	The directory used to store files uploaded during asset submission. If left blank, users will not be able to upload files (This will not affect their able to link to link).
Registrar Submission Upload Path creas.server.paths.upload-registrar	The path for Asset Editor browsing. Usually a UNC path which allows direct access to the submission upload directory.
Submission Upload Artifact Store (mea.server.paths.upload-repository	None M Autlast store which allows direct public access to the submitted files. Used for one-step acceptance of submitted files in the Asset Editor.

- 4. Use the **Submission Upload Artifact Store** drop-down menu to select the newly created artifact store.
- 5. Click Save.

Creating an Asset Audit Log

With the proper system configuration, XML metadata for individual saved or changed assets can be exported to a text file in order to create an audit trail. The text file lives on the Application Server and is not available for review within the application. Contact BEA support the properties necessary to activate this feature.

This procedure is performed on the ALER Admin screen.

1. In the left panel, click System Settings.

The System Settings section opens in the main pane.

Users	œ.	Beneficial State
	100	System Settinge: all
Sessions		
Roles	æ	Search Enable New System Setting
Departments	œ	
Basic Access Settings	æ	
Custom Access Settings	œ	00
System Settings		E Functional Settings
Email Templates	-	B Server Settings
Import Export	æ	Enterprise Authentication
SFID Manager	œ	El Open API
		External Integrations
		Dimport / Export and Introspection
		#Components Pile
		> Maya antimat to finishing
		Save Cancel

- 2. Enter the property supplied by ALER support in the **Enable New System Setting** text box.
- 3. Click the **Enable** button.

Asset Save Export Filename appears in the list of properties in the main pane.

- 4. Enter the name of the file to which asset logs are to be stored in the **Asset Save Export Filename** text box.
- 5. Click Save.

Plug-ins and Adapters

The following plug-ins and adapters are available for ALER. Installation and configuration guides are available for each. Contact BEA support for more information.

- LDAP Adapter
- SSO Adapter
- Repository Integration with Eclipse using BEA WorkSpace Studio
- Visual Studio .NET Plug-in
- WSAD Adapter
- PVCS Integration
- Connector for IBM Rational ClearQuest
- Connector for IBM Rational ClearCase
- Connector for Serena ChangeMan Dimensions
- Producing Projects
- Assets-In-Progress
- Apache Ant Integration
- Harvest-HTTP Repository Integration

AquaLogic Enterprise Repository Default Artifact Store Integration

Integrating one of the default artifact stores with your system enables the use of an artifact store in ALER. Typically, an URL used to reach a file using one of the default types resembles the following:

• http://server.host.com:port/additionalPathStructure/fileName

Adding Files to an Asset

This procedure is performed in the ALER Asset Editor.

- 1. Use **Search** or other means to locate the asset to which a file will be added.
- 2. Locate the File Information element on the Overview tab.

Name	Description	URL	Add
Class Library	Class library .zip file	rep://REPOSITORY/sam	
			Edit
			Delete

3. Click the Add button.

The Edit pop-up opens.

orgiton			
aton Access Settings			D:R
Available		Sciented	
	Vew Access		

- 4. Fill in the Name and Description text boxes.
- 5. Click the Edit button (next to the URL field).

The Edit URL pop-up opens.

Edit URL			
🔾 Artifact S	tore File		
Store	Select a store	~	
Path			
File Name		Browse	View
⊙ External F	File		
URL			Test
Note: Use an	absolute URL including the protocol, fi	or example "http://	/"
🔵 Text File			
Type Selec	t a type		
File			
	OK Cancel		

6. Use the radio buttons to select the source of the file to be added.

o Artifact Store File

- 1. Select an item from the **Host** drop-down. (Configuration determines available selections.)
- 2. As necessary:
 - Enter the appropriate additionalPathStructure/fileName in the Path text box, or...
 - Click **Browse** to locate the file to be added.

This option is available when using Artifact Store types, ClearQuest, File Stores, and PVCS.

- o External File
 - 1. Enter the file URL in the **URL** text box
 - 2. Click **Test** to verify that the URL is valid.
- 7. If necessary, a supplementary text file may be created and added to the file:
 - 1. Select the **Text File** option.
 - 2. Select the type of text file from the **Type** drop-down.
 - 3. Enter text as necessary in the File text box.
- 8. When finished, click **OK** to close the **Edit URL** pop-up.
- 9. Click **OK** to close the **Edit** pop-up.

The added file appears in the list in the **File Information** element.

Adding Custom Reports

ALER allows you to add custom reports to the **Reports** page. All custom Reports must be generated by a reporting engine external to ALER and must be exposed by an URL. On the **Reports** page, the custom report can be given a name, description, and a hyperlink to it.

Important! If custom reports are added in this fashion, then the directory containing the reports must be backed up and protected during future upgrades of ALER.

Overview

The ALER Reports subsystem is built from a collection of .toc (table of contents), .jod (an XML representation of the internal report GUI), and .xml (ALER Report definition) files. These files reside within the WEB-INF/config/reports directory of the ALER web application. To construct a custom report, a .toc file must be modified and an .xml file must be created. The .jod files have nothing to do with this customization and should not be modified.

BEA provides a custom.toc file for the table of contents beneath the **Custom** section of the **Reports** page. A customreports.xml file is also included, and which must be copied and named to something for the report.

Configuration Steps

- 1. Browse to the WEB-INF/config/reports directory for your deployed instance of ALER.
- 2. Copy customreports.xml to a new name that will represent the report. The extension must be . xml (e.g., 'CustomerReportA.xml').
- 3. Edit customreports.xml to name it, describe it, and add a hyperlink to the report, as follows:
 - The <report> element has a parameter name that must refer to a unique, short name for the report. The filename is recommended (e.g., <report name='CustomerReportA'>).
 - The value of the <displayName> element is the label shown in the **Reports** page within the **Custom** section (e.g., <displayName>Report A</displayName>).

- The value of the <description> element is the description shown in the **Reports** page (e.g., <description>This describes Report A.</description>).
- o The value of the <externalLink> element is the URL for the report. This URL should execute the report. (e.g., <externalLink>http://www.example.com/reports/ CustomerReportA?cmd=execute</externalLink>).
- 4. Save the copied and modified customreports.xml file into the WEB-INF/config/reports directory. This is where ALER looks for all report files. The report is now created.
- 5. Edit the custom.toc file to add the newly created report to the Reports area of ALER.
 - The <report> element specifies the name of the report. Use identical text to what appears in the .xml file for the report. The filename is recommended. (e.g., <report name='CustomerReportA'>)
- 6. Back up the custom.toc and .xml files for the report. These copies will be required after upgrades since the upgrade will reset the files.
- 7. Restart the application server.

Role/Department-based Homepage Display

Overview

This feature displays a specific homepage based on user role or department assignment.

Installation

- 1. Create a file named homepages.xml. See Example homepages.xml File.
- 2. Add the homepages.xml file to the application classpath. For example, the ALER application's WEB-INF/classes directory is recommended.
- 3. Set the Homepage property cmee.enterprisetab.homepage to http://SERVER/APP/ custom/autoselect.jsp, where SERVER is the name of the server and APP is the context name of the ALER web application.

Homepage selection is defined by the contents of the homepages.xml file.

Example homepages.xml File

The following provides an example of the contents of a homepages.xml file:

```
1 <~HomepageSelector>
    <select criteria="roles">
2
      <option value="Admin">http://www.bea.com</option>
3
4
      <option value="Architect">architect.jsp</option>
5
      <option value="Developer">developer.jsp</option>
      <option value="User">generaluser.jsp</option>
6
7
      <defaultLocation>homepageDefault.jsp</defaultLocation>
    </select>
8
9 </~HomepageSelector>
```

Note the following line numbers:

- Line 2:
 - Sets the value for criteria. Valid values are
 - ∎ roles

- departments
- Lines 3-6:
 - The option value is indicated by the name of the role or department used for selection.
 - The node value is a relative path or absolute path to the page to which the user will be redirected. The path for a home page hosted on the ALER application server is relative to the custom/autoselect.jsp file. In the above example, the architect.jsp file is also located in the custom directory.
 - Order is important. Users with multiple roles or memberships in multiple departments will be directed to the first matching selection.
- Line 7:
 - o Identifies the default homepage for users who do not meet any of the selection criteria.

Rebranding ALER

Start with the CSS

ALER uses CSS (cascading style sheets) that can be edited to control colors and other visual aspects of the application. ALER is built on a mostly-neutral color palette and is branded around a single color. You can edit the color and type faces from the CSS.

Blue	BEA Aqualogic" Enterprise Repository
	Assets Projects My Stuff Reports Admin
Green	BEA Aqualogic Enterprise Repository
	Assets Projects My Stuff Reports Admin
Neutral	BEA Aqualogic Enterprise Repository
	Assets Projects My Stuff Reports Admin

ALER ships with the following skins:

- Blue -- #0066CC
- Green -- #669933
- Neutral -- #999999

The skins also include these colors:

- White -- #FFFFFF
- Grey -- #EEEEEE

Choosing a Skin

ALER ships with the Blue skin as the default, but you can change the active skin. The file that controls the skin is the skin.properties file. If you select the skin.properties file for the skin you want to use

and restart the server, you will see a new color palette for the application,

Creating a Skin

If you want to create your own custom skin for ALER, you must create a new folder for the skin and add it to the skins folder. A good way to get started is to copy an existing skin folder and rename it. BEA has designed the interface of ALER around a single color. A recommended best-practice is for a new skin's color palette to be in a similar, mid-tonal range as the default palettes shipped with ALER.

To update the CSS with your new color, do a search and replace on the hex number of the color you want to replace. For instance, if you copied the Blue skin, replace 0066CC with the new color. Do this for the settings.css and style.css files.

The CSS files are located in: ../skins/blue/

- settings.css
- style.css
- tabs.css (ignore this file)
- tree.css (ignore this file)

Images

You can complete rebranding by updating the default images. The images are stored in two different places, but the paths look the same. The bold folders are the only ones you need to work with. As a best-practice, your new images should be the same size (width and height) as the images they replace.

The images are located in ../skins/blue/images/menu/

- smalllogo.gif (271 x 21)
- wave.jpg (306 x 31)
- bea.gif (68 x 51)
- logo.gif (414 x 28)
- menuLogo.jpg (423 x 54)
- login_splash.jpg (338 x 508)

Activating Your Custom Skin

After completing the previous steps, you should have a custom skin that looks much like one of default skins in the skins folder. The final step is to create a new skin.properties file for your new skin. This is accomplished by copying and editing an existing skin.properties file. There are two items in the properties file that need to be edited: the name and the color values.

- In the line skin.name.org=blue, replace blue with the name of the new skin.
- Replace any hexadecimal color values with the values for the colors in the new skin's palette.

Once these changes are made, the new skin is activated by restarting the server.

Installing a BEA-supplied Custom Skin in AquaLogic Enterprise Repository

- 1. Obtain the custom skin ZIP file from the Flashline Customer Access Portal (CAP) site.
- 2. Extract the contents of the ZIP file into a temporary directory. Be sure to retain the directory paths for each of the files within the ZIP file.
- 3. Make a backup copy of the existing flashline/WEB-INF/classes/skin.properties file.
- 4. Copy the new skin.properties file from the custom skin ZIP archive to the flashline/WEB-INF/classes directory.
- 5. Replace the existing flashline/WEB-INF/classes/skin.properties file with new file.
- 6. Move the extracted custom skin directory containing the images and CSS files into the flashline-web/skins directory. The skin.properties file points to this directory to find the skin resources.
- 7. Restart the application server to apply the changes.

Using the Directory Structure

Create a New Skin

- 1. Create a your_skins_folder under /skins.
- 2. Change CSS and images as needed.
- 3. Edit the Skins.properties file so the entry skins.org.name reflects your_skins_folder
- 4. Restart the app server.

Note: Follow the naming conventions shown in the example below.

```
/skins/your_skins/folder/style.css
/skins/your_skins/folder/images/logo.gif
/skins/your_skins/folder/buttons/all_the_buttons
/skins/your_skins/folder/icons/the_other_icons
```

Using the Custom Tag Library

A skintags custom tag library is used to point CSS and image references to the proper /skins folder. Currently, there are two skin tags: css and image. Existing JSPs have been updated. Any new JSPs must use the skintags library.

Using the Skintags Library Tags

To use any of the skin tags, add the following to the JSP:

```
<%@ taglib uri="/skintags" prefix="skin" %>
```

(The prefix can be anything you like because it is a reference within the JSP only)

CSS

Tags for cascading style sheets resemble the following example:

<skin:css element='the_relative_path_to_the_style_sheet'/>

To use it within a stylesheet:

<LINK HREF="" REL="stylesheet" TYPE="text/css">

Image

An image tag resembles the following example:

<skin:image element='the_relative_path_to_the_image'/>

The example below illustrates the use of an image tag within an HTML IMG tag:

(Where the relative_path starts from the skin folder (as defined in the skin.properties file.)

Maintaining XSLT Templates for use with the Export-to-PDF Feature

Overview

FO is an XML format that describes paged documents. An FO processor, such as the Apache XML Project's FOP, consumes FO to generate PDF output. The production of a PDF document from an XML document is a two-step process:

- 1. The XML document is transformed to an FO document using an XSLT (XSL-FO) stylesheet.
- 2. The FO document is processed to generate PDF (or other output).

Since the ALER XSLT Printing functionality is applied at the Type level, only one template is needed to print any assets of the corresponding Type. However, there is no limit to the number or scope of the templates that can be created or applied to a specific Type.

The PDF printing functionality is distributed as follows:

- The ALER core application and upgrade ZIP files contain the application server-side components for all base and AquaLogic solution pack asset types.
- A separate pdfreporting_templates.zip file contains the XSL-FO template files for the base Types included in the initial ALER installation.

Additional ZIP files will be available for asset types included as part of an ALER Datapack installation. These template files will be updated as ALER-supplied Types are modified. The directory structure of this package supports EAR and exploded directory deployment methods. Therefore, this ALER feature is deployed as a seperate Web application within the application server.

Note: The proper deployment of ALER's XSLT asset printing feature varies according the application server in use.

Under Tomcat

1. If the installation is an upgrade, make a backup copy of any existing XSL stylesheet files.

- 2. Create a directory called pdfreport within the TOMCAT_HOME/webapps directory .
- 3. Copy the contents of the pdfreport/app/* directory from the base install or upgrade ZIP file into the TOMCAT_HOME/webapps/pdfreport directory.
 - The pdfreport directory contains a JSP that handles XSL stylesheet processing.
 - The WEB-INF directory contains the JAR files necessary for the creation of the resulting PDF documents.
- 4. Once the pdfreport and WEB-INF directories are copied into the pdfreport510 directory, the resulting paths should resemble the following:
 - o TOMCAT_HOME/webapps/pdfreport/pdfreport/applyXSLtoAssetXML.jsp
 - \circ TOMCAT_HOME/webapps/pdfreport/WEB-INF/classes
 - TOMCAT_HOME/webapps/pdfreport/WEB-INF/lib
- 5. Create a destination directory for reports produced by the PDF generation process: <<Does this call for the creation of a directory to house the sub-directories listed below, or is it sufficient to create the sub-dirs?>>
 - Add the following sub-directories:
 - pdfreport/export
 - Will contain the XML data
 - pdfreport/xsl
 - Will contain the actual XSLT templates formatted for the various asset types.
 - pdfreport/pdf
 - Will contain the resulting PDF files.
- All files backed up from Step 1 (above) should be restored/copied back into the new pdfreport/ xsl directory.
- 7. Restart the Tomcat application server process.
- 8. Login to ALER as a user in the **sysadmin** role.
- 9. Click Admin in the ALER menu bar.
- 10. Click System Settings in the left pane of the Admin page.
- 11. Enable each of the options listed below with the appropriate directory information for your environment:
 - For Windows (Note: The trailing slashes are required):
 - cmee.asset.xml.paths.export-destination=C:\\java\\jakartatomcat-5.0.25\\webapps\\aler\\report\\export\\
 - cmee.asset.xml.paths.out-destination=C:\\java\\jakartatomcat-5.0.25\\webapps\\aler\\report\\pdf\\
 - cmee.asset.xml.paths.xsl-source=C:\\java\\jakarta-tomcat-5.0.25\\webapps\\aler\\report\\xsl\\

- cmee.asset.xml.paths.export-destination-url=http:// localhost:8080/pdfreport/export/
- cmee.asset.xml.paths.out-destination-url=http://
 localhost:8080/pdfreport/pdf/
- cmee.asset.xml.paths.webapp-url=http://localhost:8080/
 pdfreport

• For Linux/Unix - (NOTE: The trailing slash is required):

- cmee.asset.xml.paths.export-destination=/usr/local/java/ jakarta-tomcat-5.0.25/webapps/pdfreport/export/
- cmee.asset.xml.paths.out-destination=/usr/local/java/ jakarta-tomcat-5.0.25/webapps/pdfreport/pdf/
- cmee.asset.xml.paths.xsl-source=/usr/local/java/jakartatomcat-5.0.25/webapps/pdfreport/xsl/
- cmee.asset.xml.paths.export-destination-url=http:// localhost:8080/pdfreport/export/
- cmee.asset.xml.paths.out-destination-url=http:// localhost:8080/pdfreport/pdf/
- cmee.asset.xml.paths.webapp-url=http://localhost:8080/
 pdfreport

Maintaining XSL:FO Templates for use with ALER

Maintaining the XSL template from an Asset XML export

- Prerequisites:
 - ALER has been configured for XSLT printing (as described above).
 - The process described below requires the use of Altova XML Spy.
- 1. Configure an instance of ALER with the XSLT Printing functionality as described above.
- 2. Login to ALER.
- 3. Use **Search** or other means to select a registered asset of the Type for which the XSL template is to be created.
 - Note: Selecting a well-documented asset will facilitate previewing the XSL:FO template.
- 4. Create a local work folder that contains the following sub-directories:
 - xmlschemaxslsps
- 5. Transfer the XML document from the <aler_home>/reports/export directory

to the newly created xml sub-directory.

- 6. Open that XML document with Altova XML Spy.
- 7. Select Generate DTD/Schema from the DTD/Schema menu in Altova XML Spy.
- 8. When prompted, select the following options for the generated schema file
 - DTD/Schema file format: W3C Schema
 - List of Values: Unlimited
 - Attribute/Element type detection: Best possible
 - Represent complex elements as: Complex types
 - Elements that were used once: Make local definition
- 9. Click the **OK** button to generate the schema.
- 10. Save the resulting XSD file to your schema sub-directory in the work folder.
- 11. When prompted, "Do you want to assign generated DTD/Schema to your XML document?", Select **No**.
- 12. Close Altova XML Spy.

The generated XML schema from the previous step will contain data element values that must be removed before processing the schema.

- 13. Use the find-and-replace function in a text editor to remove all lines containing the expression: <xs: enumeration value=.
- 14. Save the changes to the schema file.
- 15. Exit the text editor.
- 16. Open the modified schema file with Altova StyleVision.
 - **Warning:** Opening a schema file containing any element related to the value field will cause a **StyleVision** error.
- 17. Use **StyleVision** to modify the layout of the printed document.

To view layout modifications

- 1. Select Assign Working XML File... in the File menu.
- 2. Select the exported XML document.

This will generate a preview the output of the XSL:FO template populated with live information. The most common layout method is one that closely mimics the layout of the asset detail in ALER.

18. When the layout is completed, save the **StyleVision** formated document to the sps sub-directory in the local work folder for later retrieval and modification.

- 19. Open the **File** menu.
- 20. Select Save Generated Files.
- 21. Select Save Generated XSL:FO File...
- 22. Save the XSL document to the xsl sub-directory in the local work folder.

Use a filename that is appropriate for the Type to which the XSL document is associated.

- 23. Copy the generated XSL file to the <aler_home>/reports/xsl folder (as designated in the cmee.asset.xml.paths.xsl-source property listed above).
- 24. In ALER, select the asset that was exported to generate the original XML schema.
- 25. Click the **Print** button in the asset detail to export the asset's XML schema.

A pop-up opens.

26. Follow the prompts in the pop-up to select the newly created XSL:FO template, which will be used to generate the PDF document.

The generator will create the PDF document.

- 27. Click the **View Document** button to open the PDF document.
- 28. Compare the PDF document to the template design created in StyleVision.
- 29. Make changes as necessary.

Support for UTF-8/Unicode Characters

The Export to PDF feature cannot properly process UTF-8/Unicode characters unless the FOP engine uses **ArialUnicode** or a similar font that is capable of rendering Unicode.

Configuration to Render Unicode Characters

- 1. Locate the appropriate true type font (TTF) file.
- 2. Run the following command to create the XML definition of the file:

java -cp fop.jar org.apache.fop.fonts.apps.TTFReader {TTF_FILE_LOCATION}
{FONT_NAME}.xml

- Note: In the command:
 - Replace TTF_FILE_LOCATION with the location of the TTF file.
 - Replace FONT_NAME with the name of the font.
- 3. Create a configuration file named userconfig.xml. This file will configure FOP to use the selected font.

For more information:

- http://www.sagehill.net/docbookxsl/AddFont.html
- http://xmlgraphics.apache.org/fop/0.20.5/fonts.html#register
- 4. Place the userconfig.xml file in the classpath.

Suggested: The classes directory under WEB-INF.

5. Configure the XSLTs to use the new font whenever appropriate.

This generally requires the addition of font-family"{FONT_NAME}"= to the appropriate fo: block elements.

If the userconfig.xml file is not on the classpath, the Export to PDF process will replace Unicode characters with octothorpes.