

BEAAquaLogic® Enterprise Repository

Advanced Role-based Access Control Guide

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Overview

Advanced Role-based Access Control, if enabled, allows organizations to limit access to and visibility of ALER content by role at the asset and file level. This is accomplished by applying custom access settings to assets and/or files in order to limit their accessibility to particular communities of interest.

This foundational capability can be applied to a wide range of organizational initiatives:

- Exposing Web Services to customers and trading partners.
- Limiting the amount of intellectual property that is available to outsourced development teams and managing export control.
- Establishing a Federated Repository that allows everyone to view and access enterprise assets, but limits domain-specific information to relevant domains.
- Manages actions available to users, such as submitting, accepting, and registering assets.
- Limits visibility of assets under development and retired assets.
- Limiting access to source code files to asset production teams.
- Granting browse-only ALER access to selected groups.

Security Considerations

Role-based Access Control (RBAC) allows ALER to track asset usage and production on a by-user basis, and personalizes the presentation of assets, limiting visibility to designated content in ALER. However, Role-based Access Control is not intended to provide security for asset metadata, nor is it intended to supplement the security of underlying asset repositories.

ALER's access settings provide no additional security for otherwise unsecured assets or data. For maximum security, asset metadata should be managed in a manner that prevents direct access to the metadata in an unsecured database. Confidential information should be embedded in the asset downloadable payload, or attached as documentation files and hosted in a secure repository.

Caution! If you choose to circumvent an authentication and permission challenge from the underlying asset repository, you do so at your own risk.

The following actions also have security implications:

- Configuring SCM systems for access via a single ALER user account
- Allowing system access by unapproved users

Any of these actions has the potential to open the contents of the repository to anyone with network access to ALER.

Access Settings and the Asset Editor

Depending on the specific Access Settings in use, users with access to the **Asset Editor** may be able to see relationships to assets that are otherwise invisible to them in ALER. In this situation, the name of the hidden asset is visible, as is the detail of the relationship between that asset and an asset to which the users have access. No other information on the hidden asset is visible in the **Asset Editor**. In this situation, it is possible to delete the relationship between the visible and the hidden asset. However, given that the invisible asset is inaccessible to the users in question, the relationship cannot be restored.

Enabling Custom Access Settings

For ALER Advanced Edition users, **Custom Access Settings** are normally already enabled and configured properly upon installation. If not, three properties must be configured in order to enable **Custom Access Settings**.

1. Click System Settings in the sidebar on the ALER Admin page.

The System Settings section opens in the main pane.

- 2. Enter cmee.customaccesssettings.enabled in the Enable New System Setting text box.
- 3. Click the **Enable** button.

Custom Access Settings appears in the Advanced Role Based Access Control group in the Functional Settings section.

Advanced Role Rased Access	Control	
Autoricea Note Dased Access (Conta or	
Custom Access Settings	True C False	
omee.oustomaccesssettings.enabled	Enables advanced custom access settings	

- 4. Repeat the process to enable each of the following properties:
 - o cmee.customaccesssettings.file
 - \circ cmee.customaccesssettings.asset

Once enabled, all three CAS system settings will appear in the **Advanced Role Based Access Control** group in the **Functional Settings** section. (Disabling any of the properties turns the feature off.)

Note: If these **Access Settings** are not displayed in the **System Settings: Access** list, contact your System Administrator or ALER Customer Support.

- 5. Make sure each of the settings is set to **True**.
- 6. When finished, click Save.

Custom Access Settings now appears in the sidebar on the Admin screen.

Create New List All
Search
Name
Type All Types 💌
Applied Unspecified 💌
Default Unspecified 💌
Search

Basic Concepts

Roles

Within the context of AquaLogic Enterprise Repository, a role is defined by a specific combination of functions and responsibilities. Any given individual may have multiple roles. Access to specific assets or collections of assets, and to various AquaLogic Enterprise Repository features, is determined by the configuration of Access Settings for each role.

Access Settings

Access settings identify the functions and responsibilities that can be performed by a role. AquaLogic Enterprise Repository access settings fall into two categories:

- Basic Access Settings (BAS) determine the access to all assets in AquaLogic Enterprise Repository, and to specific tools, such as the Asset Editor. Basic Access Settings determine each user's rights to general functionality across the system. For example, a user with View permission can view all of the assets in ALER. A user with Use and Download can download all files for all assets in AquaLogic Enterprise Repository.
- **Custom Access Settings (CAS)**, if enabled, give users permission to access specific assets and files in AquaLogic Enterprise Repository. For example, Custom Access Settings can give a user the ability to view a specific group of assets, edit specific assets, view specific files within a particular set of assets, and so on. The following table identifies the permissions controlled by within BAS and CAS.

All sites have Basic Access Settings enabled. Depending on your repository configuration, Custom Access Settings may be enabled.

Process Overview

A few simple steps allow your organization to establish a variety of security models:

- Set up roles
- Assign users to roles
- Grant permissions to roles using BAS and CAS
- Assign CAS to assets or files



Granting and Denying Permissions

Individual users typically hold multiple ALER Roles. For example, an individual may have both **User** and **Registrar** roles. In this case, the **Registrar** has permissions that are not granted to **User**. Similarly, an outsourced development user may have both **User** and **Outsourced Development** roles. The **User** role might grant access to all assets in the repository, while the **Outsourced Development** role denies access to any assets that have sensitive information.

When determining how to assign specific permissions to a particular ALER user, keep in mind that permission status is divided into three levels:

- Granted:
 - The permission is explicitly granted.
- Not Granted:
 - The permission is not explicitly granted nor denied.
- Denied:
 - The permission is explicitly denied.

In multiple role situations, ALER recognizes the **Most Restrictive Access**, that is, **Denied** supersedes **Granted** in the permission status settings. Any permission specifically **Denied** to a role to which a user is assigned is also denied to that user in any other role.

Grant/Deny access to specific assets

If Advanced Role Based Access Control is enabled in your configuration, then you can use Custom Access Settings to grant or deny permission to access individual assets and files. In order to create any **Asset CAS**, you must be assigned both the **Access Administrator** role and the following (BAS) permissions:

- Launch Asset Editor
- Edit Access Settings

Access to the **Asset Editor** and permission to edit assets is required in order to make changes to existing access settings. ALER safeguards eliminate the possibility of locking yourself out of an asset after editing the asset's access settings (it is impossible to save such changes to the asset). However, changes to your role settings may restrict access to certain assets. Exercise caution when editing role settings.

Prerequisites

- Verify that all targeted users exist in AquaLogic Enterprise Repository.
- Assign global BAS permissions to each user (i.e. Create/Submit Assets, Launch Asset Editor).

If no existing role encompasses the appropriate users, one must be created. This procedure is performed on the ALER **Admin** page.

1. Click **Roles** in the left sidebar.

The Roles section opens.

Roles
Create New List All
Search
Name
Default Unspecified
Search

2. Click Create New

The Create New Role pop-up opens.

Create New Role	
Overview	
Name*: Description:	
	(Max 500 Characters)
Automatically assign to new users?	
Users	
Edit Users	
*Denotes required field	
Save Cancel	

- 3. Enter the appropriate information in the **Name** and **Description** fields in the **Create New User** popup.
- 4. Click Save

Create the Asset CAS

This procedure is performed on the ALER Admin page.

1. Click **Roles** in the left sidebar.

A list of available Roles appears in the main pane.

Delet	e,		Results (9
	Role Name	Default	Description
	accessAdministrator		Access Administrator
	advancedSubmitter		Advanced Submitter
	businessAnalyst		Business Analyst
	projectAdministrator		Project Administrator
	projectArchitect		Project Architect
	registrar		Registrar
	registrarAdministrator		Registrar Administrator
	systemAdministrator		System Administrator
	user	yes	Normal User
Overs Desc	view Name: accessAdministrator cription: Access Administrator		
priv,	all		

2. From the list, select the role to be edited.

The role detail appears in the bottom frame of the main pane.

3. Click the **Edit** button in the role detail.

The Edit Role pop-up opens.

édit Role: user	
Overview	
Name*:	used
Description:	Normal User
Automatically assign to new users?	(Max 500 Characters)
users	
priv, all	
ProjectTestUser1, ProjectTestUser1 P. ProjectTestUser2, ProjectTestUser2 P.	
use/Test1.	
userTest2,	
UserTestUser1, UserTestUser1 U.	
Edit Users	
*Denotes required field	
Save Cancel	

4. Click the Edit Users button in the Users section of the Edit Role pop-up.

The Add Users pop-up opens.

	Available Users	Selected Use	n -
al Users Jone epartment Al Departments		 >>> userTest1. < All>> 	
ale All Roles V		All<<	
Search			
st.Al		<u>M</u>	

- 5. Use Search or click List All to populate the Available Users column.
- 6. Use the << and >> buttons to move users from the Available Users to the Selected Users column.
- 7. When finished, click **OK**.

The Add Users pop-up closes, and the selected users are listed in the Users section of the Edit Role pop-up.

8. Click **OK**.

The Edit Role pop-up closes.

9. Click **Custom Access Settings** in the sidebar on the **Admin** screen.

Create New List All
Search
Name
Type All Types 💌
Applied Unspecified 💟
Default Unspecified 💌
Search

The Custom Access Settings section opens.

10. Click Create New.

The Create New Custom Access Setting pop-up opens.

Overview													
Name*i]		utomati	cally ap	pply to a	all new a	esets					
Description													
Турез	Asset 💌												
*Denotes requi	ired field												
Set Permiss	ions												
Show of Assign Permit Show of Roles	only Roles with red salons all available	View	Utse	Dosmicad	Review	Notity	Edit	Accept	Approve Tabs	Register	Edit Access Settings		
accessAdmir	sistrator												
advancedSub	emitter												
businessAna	lyst												
projectAdmi	nistrator												
projectArchi	tect												
registrar													
registrarAde	ninistrator												
- Not Gran Note - All Per	nted 🗹 - Granted missions are Most f	Centre -Deni	ed		-	-					0	Show Exten	ded S

- 11. Enter text as appropriate in the **Name** and **Description** text boxes.
- 12. Select Asset in the Type drop-down.
- 13. Use the check boxes in the **Set Permissions** section to assign relevant permissions to the appropriate roles.

 A single click grants permission:
○ A second click denies permission:

- $_{\odot}$ A third click clears the check box (permission Not Granted):
- 14. When finished, click Save.

The Create New Custom Access Setting pop-up closes.

- 15. Click **Assets** on the AquaLogic Enterprise Repository menu bar.
- 16. Click Edit / Manage Assets.



The Asset Editor launches.

Search Results	
----------------	--

- 17. Locate and open (or create, if necessary) the asset to which the new Custom Access Settings will be applied.
- 18. Click the asset's Administration tab.

Support Me	ture Standards Lifecy trics Miscelle	cle Taxonom meous	Forum	Administration	ishin N
tatus Active					-
pe Environment					
Custom Access Set	ings				
Available		44	S Basic_Defa	Selected	
	View	Access			
					11
		55	121		18

- 19. Use the << and >> buttons as necessary to move the new CAS from the **Available** to the **Selected** column.
- 20. Test the CAS by checking user permissions within and without the use case. Click the **View Access** button to confirm user access.

Grant/Deny access to specific download files within an asset

In order to create this or any File CAS you must be assigned the Access Administrator role and the following (BAS) permissions:

- Launch Asset Editor
- Edit Access Settings

Prerequisites

- Verify that all targeted users exist in AquaLogic Enterprise Repository.
- Assign global BAS permissions to each user (i.e. **Create/Submit Assets**, **Launch Asset Editor**) to allow them to submit and edit assets.

If no existing role encompasses the appropriate users, one must be created. This procedure is performed in the AquaLogic Enterprise Repository **Admin** screen.

1. Click Roles

- 2. Click Create New
- 3. Supply the appropriate information in the **Name** and **Description** fields in the **Create New User** window.
- 4. Click Save

Create the File CAS

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

- 1. Click Roles.
- 2. Using the Edit User button in the Edit Role screen, add the appropriate users to the new role.
- 3. When finished, click Save.
- 4. Click Admin in the AquaLogic Enterprise Repository's menu bar.
- 5. Click **Custom Access Settings** in the sidebar on the **Admin** screen.

The Custom Access Settings section opens.

6. Click Create New.

The Create New Custom Access Setting pop-up opens.

- 7. Enter text as appropriate in the Name and Description text boxes.
- 8. Select File in the Type drop-down.
- 9. In the **Set Permissions** section, select the **appropriate role(s)** and assign the **Download** permission for this CAS.
- 10. Click Save.
- 11. Click **Assets** on the AquaLogic Enterprise Repository menu bar.
- 12. Click Edit / Manage Assets.

The Asset Editor launches.

- 13. Locate and open (or create, if necessary) the asset to which the new Custom Access Settings will be applied.
- 14. Locate the asset's File Information metadata element.
- 15. Select the targeted file.
- 16. Click the **Edit** button.

17. In the **Custom Access Settings** section of the **Edit** window, carefully select ONLY the new **File CAS**.

If the targeted file does not exist, add a new file, and (in the **Custom Access Settings** section) select the new **File CAS**.

- 18. Click the asset's **Administration** tab.
- 19. Test the CAS by checking user permissions within and without the use case. Click the **View Access** button on the asset to confirm user access.

Several of the most common security use case scenarios are outlined in the sections below. Before implementing one of the new security models, however, it is necessary to configure the existing roles in your system to support Custom Access Settings.

Configuring Access Settings for Existing Roles

AquaLogic Enterprise Repository ships with several default roles, as defined below. When configuring AquaLogic Enterprise Repository for **Custom Access Settings**, these roles must be re-established using a combination of **Basic** and **Custom Access Settings** in order to insure that **Custom Access Settings** do not disrupt existing user access privileges.

User Roles and Default Privileges

- User
- Anyone with an AquaLogic Enterprise Repository user name and password. This role can be assigned as the default role for any new users at the time the user account is created. All AquaLogic Enterprise Repository users can:
 - View news on the home page about the host company's initiatives
 - Locate, evaluate, and use assets
 - View projects (if enabled)
 - Generate reports (if enabled)
 - Submit assets to the registrar

Access Administrator

- The Access Administrator creates all AquaLogic Enterprise Repository user accounts and assigns permissions. The Access Administrator must be familiar with the functions available on the AquaLogic Enterprise Repository Admin screen. Typically, Access Administrators can:
 - Create, view, and edit users and permissions
 - Generate reports (if enabled)

Advanced Submitter

- The Advanced Submitter role is typically assigned to asset builders and harvesters. Asset builders focus on building the asset content base in response to organizational asset needs and the needs of individual projects. Harvesters study post-implementation projects for asset reuse potential. Typically, advanced submitters can:
 - Locate, evaluate, and use assets
 - View projects that are associated with assets (if enabled)
 - Generate reports (if enabled)
 - Submit assets to the registrar
 - Edit asset metadata prior to asset registration
- Registrar
 - The Registrar is responsible for asset acceptance or rejection and registration. There may be more than one person functioning as a repository registrar, depending on the functions addressed. Typically, registrars can:
 - Locate, evaluate, and use assets
 - View projects that are associated with assets
 - Generate reports (if enabled)
 - Submit assets to the registrar

- Edit asset metadata prior to asset registration
- Accept assets for the registration process
- Approve Asset Editor tabs
- Register assets
- Edit access settings

Registrar Administrator

- The Registrar Administrator establishes and manages asset, compliance template, and policy types within AquaLogic Enterprise Repository using the **Type Manager**, if enabled in your configuration of the repository. Typically, Registrar Administrators can:
 - Locate, evaluate, and use assets
 - View projects that are associated with assets (if enabled)
 - Generate reports (if enabled)
 - Submit assets to the registrar
 - Edit asset metadata prior to asset registration
 - Accept assets for the registration process
 - Approve Asset Editor tabs
 - Register assets
 - Edit access settings
 - Edit Artifact Stores
 - Edit Types (if enabled)

Project Administrator

- If more than one default project is enabled in your configuration of the repository, then AquaLogic Enterprise Repository tracks asset use at the project level in order to maintain a history for maintenance purposes. Project Administrators create projects and assign users to projects using the AquaLogic Enterprise Repository **Projects** screen (visible only to users with appropriate permissions). Project Administrators also close projects and indicate which assets were deployed. Typically, Project Administrators can:
 - Create, edit, and view projects (if enabled)
 - Generate reports (if enabled)

System Administrator

- The System Administrator configures AquaLogic Enterprise Repository for use. The System Administrator typically can:
 - Enable and edit system settings
 - Generate reports (if enabled)

Access Options

Two options are available for configuring access settings for existing roles, as follows. If Advanced Role Based Access Control is enabled, then access to individual assets and files can be controlled using Custom Access Settings.

• Option 1 -- Access to Assets

- Grant or deny access to assets. This option is beneficial to organizations that want to use Custom Access Settings to expose a subset of assets to developers within a specific domain, to customers or trading partners, to outsourced developers, etc.
 - Use Option 1 to:
 - Expose web services to customers and trading partners

- Limit the exposure of intellectual property to outsourced development teams; manage assets that are subject to export controls
- Establish a Federated Repository that allows everyone to view and access enterprise assets, but limits domain specific information to users representing relevant domains
- Manage the asset life cycle by providing limited access to assets under development
- Restrict certain groups to browse-only access to the repository

• Option 2 -- File Access

- Grant or deny access to download files/payloads within an asset. This option is beneficial to organizations that use Custom Access Settings to support black box reuse. For example, developers may have access to compiled code, while asset producers and maintainers may have access to both source code and compiled code.
 - Use Option 2 to:
 - Limit access to source code files to asset production and maintenance teams

The setup process is different for each option. It is easiest to start by granting or denying access to assets (Option 1), and adding file access permissions at a later time, if necessary.

Note Regarding Option 2 -- File Access:

Under certain access settings, asset files that are hidden from a particular user's view during the download process will be visible and accessible to that same user when using the **Asset Editor**. In order to totally restrict that user's view of the files it is necessary to also block the user's ability to view the asset in the **Asset Editor**.

Option I: Grant or deny access to specific assets using CAS

Step 1 -- Re-establish default roles using Custom Access Settings.

- 1. Create a CAS for assets called Basic_Default_Assets.
- 2. Add the following roles and associated permissions to the CAS:
 - o Role: User
 - o Permissions: View, Use, Download, Review
 - o Role: Advanced Submitter
 - o Permissions: View, Use, Download, Review, Edit
 - Role: Registrar
 - Permissions: View, Use, Download, Review, Edit, Accept, Approve Tabs, Register, Edit Access Settings.

- Note: Under this configuration, Registrars can view and change Access Settings for all assets. To restrict this privilege, leave the Edit Access Settings checkbox blank for the Registrar role.
- Role: Registrar Administrator
- Permissions: View, Use, Download, Review, Edit, Accept, Approve Tabs, Register, Edit Access Settings
- 3. Check Automatically apply to all new assets at the top of the screen.
- 4. Click Save.
- 5. Click **Yes** when the **Apply this new setting to all existing assets** pop-up appears.

The image below illustrates the resulting Custom Access Setting.

Description: Allova all rolea to Type: Asset	access all as	oets th	rough	e Custi	om Acc	aaa 5a	ttinga				
int Permissions											
	New	Ube	Download	Review	Nettry	Edit	Accept	Approve Tabs	Register	Edit Access Settings	
advancedSubmitter	1	1	1	1		1					
registrar	×	1	1	1		~	1	1	1	1	
registrarAdministrator	1	1	1	1		1	1	1	1	1	
user	1	1	1	1							
- Not Granted 🖌 - Grante obe - All Permissions are Host assets linked to this Access	d X -Den Restrictive	ied (22)									

Step 2 -- Enable access to ALER Tools

- 1. Create the following new Roles: (include the numbers preceding the role to keep them together in the role list)
 - 1: Create/Submit
 - 2: Launch Asset Editor
 - o 3: Edit Artifact Stores

- o 4: Edit Types
- 2. Edit current BAS settings to reflect the following:
 - Role: 1: Create/Submit
 - **Permission:** Create/Submit
 - Role: 2: Launch Asset Editor
 - Permission: Launch Asset Editor
 - o Role: 3: Edit Artifact Stores
 - **Permission:** Edit Artifact Stores
 - o Role: 4: Edit Types
 - Permission: Edit Types

Remove existing BAS permissions for assets so that CAS becomes the default permission set for all assets in AquaLogic Enterprise Repository.

Note: In order to retain global tool permissions through BAS, each user must be assigned to one of the new functional roles for each of the four previously designated functional or tool permissions, as illustrated below.



Step 3 -- Tie new roles to existing users based on existing roles

- 1. Edit each role and place all users who should have the ability to create/submit assets, launch the asset editor, edit artifact stores, and/or edit types, respectively, into each of the four roles.
 - Assistance Note: The following table lists the default permissions for AquaLogic Enterprise Repository's default roles:

Role	Permissions							
User	Create/Submit							
Advanced Submitter	Create/Submit, Launch Asset Editor							
Registrar	Create/Submit, Launch Asset Editor							
Registrar Administrator	Create/Submit, Launch Asset Editor, Edit Artifact Stores, Edit Types							

Example:

Larry was previously assigned the default role **User** which includes the default permissions. In order to retain his existing permissions under the new settings he must be reassigned to **User** and also assigned to the new **1: Create/Submit** role.

Similarly, in order to retain the default permissions attached to his previously assigned **Registrar** role, Daryl must be reassigned to **Registrar** and also assigned to **1: Create/Submit** and **2: Launch Asset Editor**. It is also possible to add users to a role, as opposed to adding roles to users. If the default permissions for the AquaLogic Enterprise Repository roles are unchanged, each role can be edited to add all of the applicable users at once.

Step 4 -- Validate the changes

- 1. Create five users, and assign each to one of the following role combinations:
 - User, 1: Create/Submit
 - o Advanced Submitter, 1: Create/Submit, 2: Launch Asset Editor
 - Registrar, 1: Create/Submit, 2: Launch Asset Editor
 - Registrar Administrator, 1: Create/Submit, 2: Launch Asset Editor, 3: Edit Artifact Stores,
 4: Edit Types
 - Project Administrator.
- 2. Verify that each user assigned to each role listed above can see the following items:
 - o User
- Can see the Assets, Projects, My Stuff, and Reports links on the AquaLogic Enterprise Repository menu bar.
- The Submit an Asset link is visible on the Assets screen. (The Edit / Manage Assets link should not be visible.)
- A list of assets is visible after clicking the Search button on the Asset screen. The Subscribe and Use/Download buttons should be visible in each asset. (The Edit button should not be visible.) The User should also be able to post reviews.

 After clicking the Use/Download button on an asset that includes downloadable files, the User should be able to download the files.

Advanced Submitter

- Can see the Assets, My Stuff, and Reports links on the AquaLogic Enterprise Repository menu bar.
- Both the Submit an Asset and Edit / Manage Assets links are visible on the Assets screen.
- A list of assets is visible after clicking the Search button on the Assets screen. The Subscribe, Use/Download, and Edit buttons should be visible in each asset. The Advanced Submitter should also be able to post reviews.
- After clicking the **Use/Download** button on an asset that includes downloadable files, the **Advanced Submitter** should be able to download the files.
- Can click the Edit / Manage Assets link on the Assets screen to launch the Asset Editor.
 - Verify:
 - The Approve button at the bottom of each Asset Editor tab is inactive.
 - The Register button on the Administration tab in the Asset Editor is inactive.

o Registrar

- Can see the Assets, My Stuff, and Reports links on the AquaLogic Enterprise Repository menu bar.
- Both the Submit an Asset and Edit / Manage Assets links are visible on the Assets screen.
- A list of assets is visible after clicking the Search button on the Assets screen. The Subscribe, Use/Download, and Edit buttons should be visible in each asset. The Registrar should also be able to post reviews.
- After clicking the **Use/Download** button on an asset that includes downloadable files, the **Registrar** should be able to download the files.
- Can click the Edit / Manage Assets link on the Assets screen to launch the Asset Editor.
 - Verify:
 - The Approve button at the bottom of each Asset Editor tab is active.
 - The **Register** button on the **Administration** tab in the **Asset Editor** is active.
 - In the Asset Editor, the Accept button is visible on assets submitted via the Submit an Asset link on the AquaLogic Enterprise Repository Assets screen.
 - The Registrar can change an asset's access setting (if enabled in CAS).
- Registrar Administrator
 - Can see the Assets, My Stuff, and Reports links on the AquaLogic Enterprise Repository menu bar.

- Both the Submit an Asset and Edit / Manage Assets links are visible on the Assets screen.
- A list of assets is visible after clicking the Search button on the Assets screen. The Subscribe, Use/Download, and Edit buttons should be visible in each asset. The Registrar Administrator should also be able to post reviews.
- After clicking the Use/Download button on an asset that includes downloadable files, the Registrar should be able to download the files.
- Can click the Edit / Manage Assets link on the Assets screen to launch the Asset Editor.
 - Verify:
 - The Approve button at the bottom of each Asset Editor tab is active.
 - The Register button on the Administration tab in the Asset Editor is active.
 - In the Asset Editor, the Accept button is visible on assets submitted via the Submit an Asset link on the AquaLogic Enterprise Repository Assets screen.
 - The Registrar Administrator can change an asset's access setting.
 - The Actions menu of the Asset Editor should include Configure Artifact Stores and Manage Asset Types.

• Project Administrator

- Can see the **Assets**, **Projects**, and **My Stuff** links on the AquaLogic Enterprise Repository menu bar.
 - Verify:
 - The Submit an Asset and Edit / Manage Assets links are NOT visible on the Assets screen.
 - No search results appear after clicking the **Search** button.

Option II: Grant or deny access to specific files and assets using CAS

Create custom access settings that determine user access to assets, as well as to specific files within an asset.

Step 1 -- Enable all three CAS settings under System Settings

Step 2 -- Allow all roles that currently access the download files for all assets to get the same functionality through a File CAS

- 1. Create a CAS for files called Basic_Default_Files.
- 2. Add the following roles, each with download privileges: $_{\odot}~$ User

- Advanced Submitter
- o Registrar
- Registrar Administrator
- 3. Check Automatically apply to all new files.
- 4. Click Yes when the Apply this new setting to all existing files? pop-up appears.

Step 3 -- Allow all roles that currently access all assets to get the same functionality through an Asset CAS

- 1. Create a CAS for assets called **Basic_Default_Assets**. Add the following roles and associated permissions:
 - Role: User
 - **Permissions:** View, Use, Review
 - o Role: Advanced Submitter
 - o Permissions: View, Use, Review, Edit
 - Role: Registrar
 - Permissions: View, Use, Review, Edit, Accept, Approve Tabs, Register, Edit Access Settings
 - **Role:** Registrar Administrator:
 - Permissions: View, Use, Review, Edit, Accept, Approve Tabs, Register, Edit Access Settings
- 2. Check Automatically apply to all new assets at the top of the screen.
- 3. Click Yes when the Apply this new setting to all existing assets? pop-up appears.

Step 4 -- Remove existing BAS permissions for assets

CAS becomes the default set of permissions for all assets in AquaLogic Enterprise Repository.

Note: In order to retain global tool permissions through BAS, each user must be assigned to one of the new functional roles for each of the four previously designated functional or tool permissions, as illustrated below.

et Permissions															
		Global Permissions													
	View	Ube	Download	Review	Motify	Edit	Accept	Approve Tabs	Register	Edit Access Settings	Greate / Submit	Launch Asset Editor	Edit Artifact Stores	Edit Types	
I: Create/Submit											1				
h Launch Asset Editor												1			
I: Edit Artifact Stores													1		
k Edit Types														1	
idvancedSabmitter	1	1	1	1	1	1					1	1			
ngistrar	1	1	1	1	1	1	1	1	1	1	1	1			
registrar Administrator	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
uter	1	1	1	1							1				

- 1. Create four new Roles with the following names: (include the numbers preceding the role to keep them together in the role list)
 - o 1: Create/Submit
 - 2: Launch Asset Editor
 - 3: Edit Artifact Stores
 - o 4: Edit Types
- 2. Edit current BAS settings to reflect the following:
 - Role: 1: Create/Submit
 - **Permission:** Create/Submit
 - o Role: 2: Launch Asset Editor
 - o Permission: Launch Asset Editor
 - o Role: 3: Edit Artifact Stores
 - Permission: Edit Artifact Stores
 - o Role: 4: Edit Types
 - Permission: Edit Types

Step 5 -- Tie new roles to existing users based on existing roles

1. Edit each role and place all users who should have the ability to create/submit assets, launch the

asset editor, edit artifact stores, and/or Edit Types, respectively, into each of the four roles.

The following table lists the default permissions for AquaLogic Enterprise Repository's default roles:

Role	Permissions
User	Create/Submit
Advanced Submitter	Create/Submit, Launch Asset Editor
Registrar	Create/Submit, Launch Asset Editor
Registrar Administrator	Create/Submit, Launch Asset Editor, Edit Artifact Stores, Edit Types

Example:

Daryl was previously assigned the default role **User**, which includes the default permissions. In order to retain his existing permissions under the new settings he must be reassigned to **User** and also assigned to the new **1: Create/Submit** role.

Similarly, in order to retain the default permissions attached to his previously assigned **Registrar** role, Larry must be reassigned to **Registrar** and also assigned to **1: Create/Submit** and **2: Launch Asset Editor**.

It is also possible to add users to a role, as opposed to adding roles to users. If the default permissions for the AquaLogic Enterprise Repository roles are unchanged, each role can be edited to add all of the applicable users at once.

Step 6 -- Validate the changes

- 1. Create five users, and assign each to one of the following role combinations:
 - User, 1: Create/Submit
 - o Advanced Submitter, 1: Create/Submit, 2: Launch Asset Editor
 - o Registrar, 1: Create/Submit, 2: Launch Asset Editor
 - Registrar Administrator, 1: Create/Submit, 2: Launch Asset Editor, 3: Edit Artifact Stores,
 4: Edit Types
 - Project Administrator.
- 2. Verify that each user assigned to each role listed above can see the following items:
 - o User
- Can see the Assets, Projects, My Stuff, and Reports links on the AquaLogic Enterprise Repository menu bar.
- The Submit an Asset link is visible on the Assets screen. (The Edit / Manage Assets link should not be visible.)
- A list of assets is visible after clicking the Search button on the Asset screen. The Subscribe and Use/Download buttons should be visible in each asset. (The Edit button should not be visible.) The User should also be able to post reviews.

 After clicking the Use/Download button on an asset that includes downloadable files, the User should be able to download the files.

Advanced Submitter

- Can see the Assets, My Stuff, and Reports links on the AquaLogic Enterprise Repository menu bar.
- Both the Submit an Asset and Edit / Manage Assets links are visible on the Assets screen.
- A list of assets is visible after clicking the Search button on the Assets screen. The Subscribe, Use/Download, and Edit buttons should be visible in each asset. The Advanced Submitter should also be able to post reviews.
- After clicking the **Use/Download** button on an asset that includes downloadable files, the **Advanced Submitter** should be able to download the files.
- Can click the Edit / Manage Assets link on the Assets screen to launch the Asset Editor.
 - Verify:
 - The Approve button at the bottom of each Asset Editor tab is inactive.
 - The Register button on the Administration tab in the Asset Editor is inactive.

o Registrar

- Can see the Assets, My Stuff, and Reports links on the AquaLogic Enterprise Repository menu bar.
- Both the Submit an Asset and Edit / Manage Assets links are visible on the Assets screen.
- A list of assets is visible after clicking the Search button on the Assets screen. The Subscribe, Use/Download, and Edit buttons should be visible in each asset. The Registrar should also be able to post reviews.
- After clicking the **Use/Download** button on an asset that includes downloadable files, the **Registrar** should be able to download the files.
- Can click the Edit / Manage Assets link on the Assets screen to launch the Asset Editor.
 - Verify:
 - The Approve button at the bottom of each Asset Editor tab is active.
 - The Register button on the Administration tab in the Asset Editor is active.
 - In the Asset Editor, the Accept button is visible on assets submitted via the Submit an Asset link on the AquaLogic Enterprise Repository Assets screen.
 - The Registrar can change an asset's access setting (if enabled in CAS).
- Registrar Administrator
 - Can see the Assets, My Stuff, and Reports links on the AquaLogic Enterprise Repository menu bar.

- Both the Submit an Asset and Edit / Manage Assets links are visible on the Assets screen.
- A list of assets is visible after clicking the Search button on the Assets screen. The Subscribe, Use/Download, and Edit buttons should be visible in each asset. The Registrar Administrator should also be able to post reviews.
- After clicking the Use/Download button on an asset that includes downloadable files, the Registrar should be able to download the files.
- Can click the Edit / Manage Assets link on the Assets screen to launch the Asset Editor.
 - Verify:
 - The Approve button at the bottom of each Asset Editor tab is active.
 - The Register button on the Administration tab in the Asset Editor is active.
 - In the Asset Editor, the Accept button is visible on assets submitted via the Submit an Asset link on the AquaLogic Enterprise Repository Assets screen.
 - The Registrar Administrator can change an asset's access setting.
 - The Actions menu of the Asset Editor should include Configure Artifact Stores and Manage Asset Types.

• Project Administrator

- Can see the **Assets**, **Projects**, **My Stuff**, and **Reports** links on the AquaLogic Enterprise Repository menu bar.
 - Verify:
 - The Submit an Asset and Edit / Manage Assets links are NOT visible on the Assets screen.
 - No search results appear after clicking the **Search** button.