



Enterprise Architect

User Guide Series

Reusable Asset Service (RAS)

How to share model data in distributed teams?

Sparx Systems Enterprise Architect has a Reusable Asset Service (RAS) to help you distribute or download single-source reusable data like architectural frameworks or industry standards via a Cloud Service.

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Reuseable Asset Service (RAS)

Within a large organization, groups of users can be separated by geographical distance and be on different networks. This can make it difficult to share common data, standards and modeling structures, without the complexity of using external Version Control tools or manually distributing XMI files between projects. Enterprise Architect supports a Reusable Asset Service (RAS) that provides a simple and convenient mechanism for modelers to distribute or download reusable model structures, information, as well as corporate directives and standards. The shared repository is accessible via a Pro Cloud Server connection, making it accessible for distributed teams. The person who sets up the reusable data can retain governance of the resource or asset, whilst users of the service can easily review the currency of the information and download the latest versions into their models or file folders.

The RAS gives distributed teams convenient access to a single 'source of truth' for shared data, including project milestones, architectural frameworks and industry standards.

Reusable Assets

A Reusable Asset Storage is contained in a Pro Cloud Server repository.

Reusable Assets can consist of:

- Packages containing elements, diagrams and structures (as drawn from any point within the Browser window), and
- Learning Center topics
- Files in a range of text, code and graphic formats, including .qea and .eap files

An asset can be, for example:

- A common Class library or framework
- The Baselines for a set of Packages or of the whole model
- A set of common Requirements or Use Cases
- A draft specification document
- Marketing collateral

Storage Structure and Use

A Reusable Assets registry contains any number of Storages, which can either be left unprotected for any user to create, or change-restricted by an Administrator password. Each Storage can contain any number of Asset Packages holding modeling structures, and files containing textual or graphical information and data. When a user creates a Storage, they can protect the contents from being updated in the Registry or downloaded into a model, using password protection defined by that user.

For each Package, the RAS automatically identifies the:

- Version of the Package held in the registry
- Diagrams and elements (including child Package

elements) contained by the Asset Package

- Dependencies on parent Packages of any external elements that the Asset Package references
- Dependencies on MDG Technologies

Features

Here is an overview of the features available in the RAS.

Feature	Description
Register Assets	The assets that can be created include: • Packages - including diagrams and subordinate Packages • Baseline Packages • Files • Learning Center contents.
Browse Assets	Any user, regardless of password protection, can freely browse and identify the contents of a Package held in a Storage - including displaying the diagrams - without importing the material into a model.
Import Content	Any user with access to the Pro Cloud Server repository and a password (if

	required), can import an Asset into their repository.
Dependencies	Any dependencies within a stored Package are viewable, providing a quick means to visually see what the Asset requires.
View Diagrams	Any diagrams set in an Asset are logged and can be viewed providing a quick means to check and visually compare the Asset diagrams against updates to diagrams in the current model.
Compare	Where a user that has imported an Asset Package into their model, they can compare their model Package against any version of the Asset Package, to check for and assess any differences between them.
Required Technologies	For a Package Asset that has specific Technologies these are displayed for clarification of what is required on importing the Asset.
Reviews	Reviews and comments can be posted against a Package.

Set Up the Asset Service

The process of setting up assets and files in the Reusable Asset Service has a number of simple stages, typically:

- Identify the Registry
- Create the Storages, including copying an existing Storage as a template for a new one
- Set password protection on each Storage
- Register the Asset Packages and Storage Files, and update them as necessary

Prerequisites

As a Reusable Asset Service is stored in a Pro Cloud Server repository, there must be a Pro Cloud Server (PCS) operating and a repository configured and enabled on this PCS.

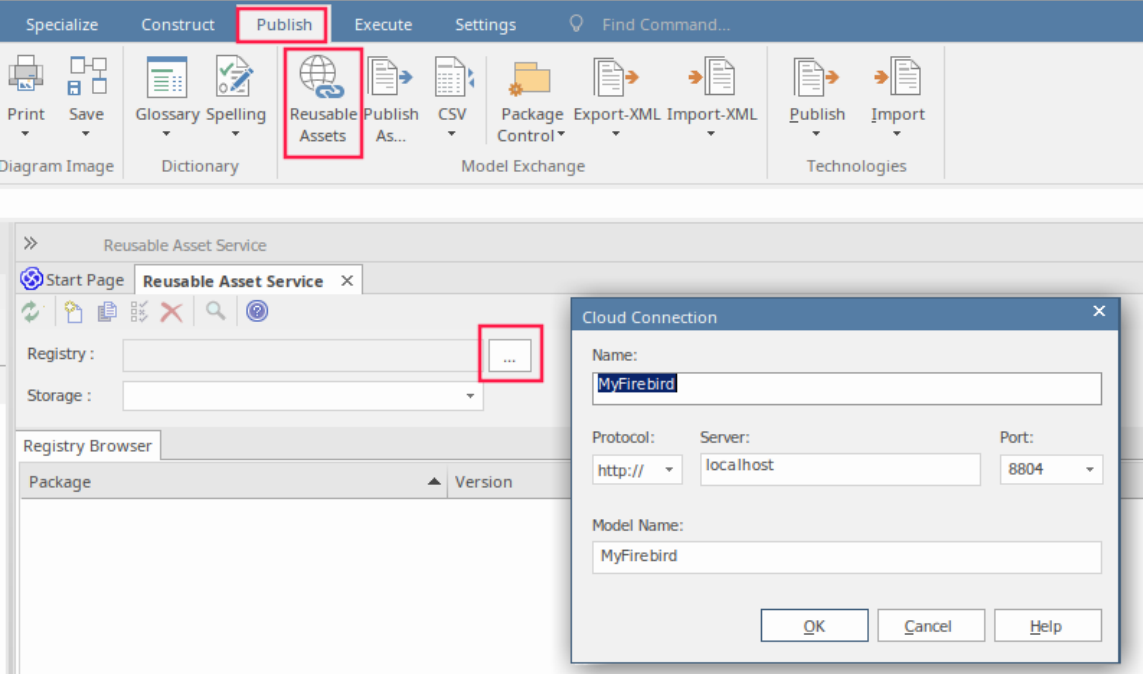
Access

Ribbon	Publish > Model Exchange > Reusable Assets
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Identify the Repository

A Reusable Asset Registry is contained in a PCS based repository that is typically configured by a System Administrator. If you have access to an existing PCS repository then the connection details for that can be used for creating Reusable Asset Storage. Otherwise, if a new repository needs to be created by a System Administrator, they will provide the repository connection details for you to use.

Step	Action
1	If a new repository is required, then the System Administrator creates a PCS based Repository to act as the Reusable Asset Registry and then provides you with the connection details like server and model name. If a PCS repository already exists and you have access to it, then proceed to step 2.
2	In the Reusable Asset Service view, click on the  button to the right of the 'Registry' field. The 'Cloud Connection' dialog displays. In the Cloud Connection dialog, type in the connection details of the PCS repository:

	
3	Click on the OK button. The 'Registry' field now shows the Cloud Connection name.
4	If required for security, set up a Registry Password.

Toolbar Options

Option	Description
	Option for creating a new storage as a container within the Registry for holding related assets and files.

	Used for copying a Storage as the basis for creating another Storage.
	Option for updating the Storage details.
	Option for deleting a storage's entire contents.

Set Up Registry Password

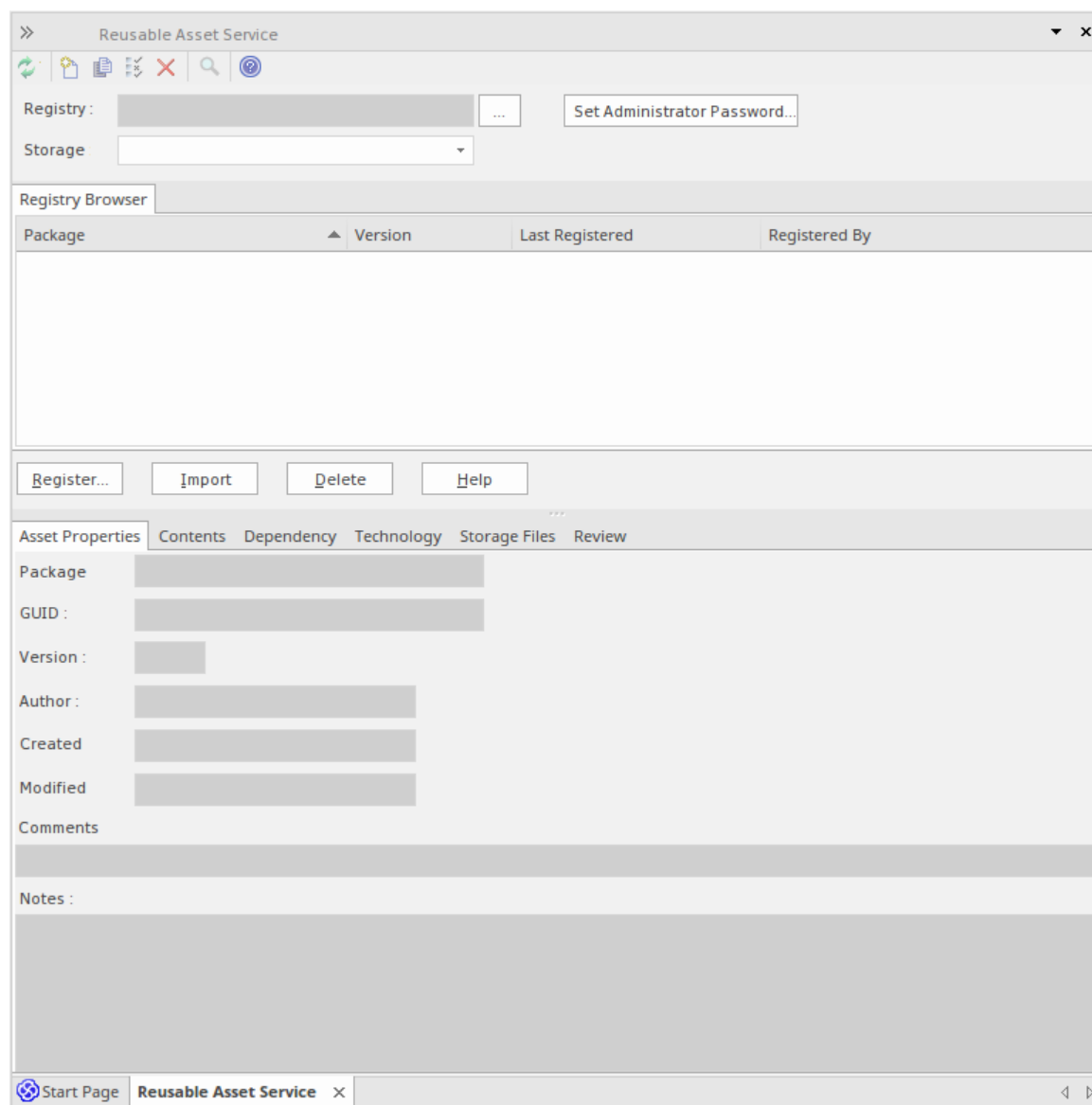
As a System Administrator, you can password-protect the Registry to prevent users from modifying the Registry; that is, restrict users from performing top-level activities such as creating, modifying and deleting Storages. Once you have set password protection, only those users who have a valid Administrator password can modify the Registry.

You can also change the password at regular intervals, for added security.

Access

In order to set the Registry Administrator password:

- In Enterprise Architect, open the Cloud model that is designated as the RAS Registry
- Open the RAS window (Publish > Model Exchange > Reusable Assets)
- The Set Administrator Password button is displayed next to the 'Registry' field



- Click on this button to display the 'Set Administrator Password' dialog

Set the Administrator Password

Option	Detail

Enter old password	Disabled if no password exists for the Registry. If Registry has a current password, type it in to this field.
New password	Type in the new Administrator password.
Retype new	Type in the new Administrator password, for confirmation.
OK	Click on this button to set the password and close the dialog.
Cancel	Click on this button to abort the changes and close the dialog.

Notes

- To remove password protection from the Registry, complete the 'Enter old password' field but leave the 'New password' and 'Retype new' fields blank
- If a Storage has a 'Complete Access' password, then you can use either the Administrator password or the 'Complete Access' password to modify the Storage

Creating Asset Storages

A Storage is a container within the Registry, holding related assets and files. There can be several Storages in the Registry, to support the different areas of work or purposes that your organization might define.

Create Storages

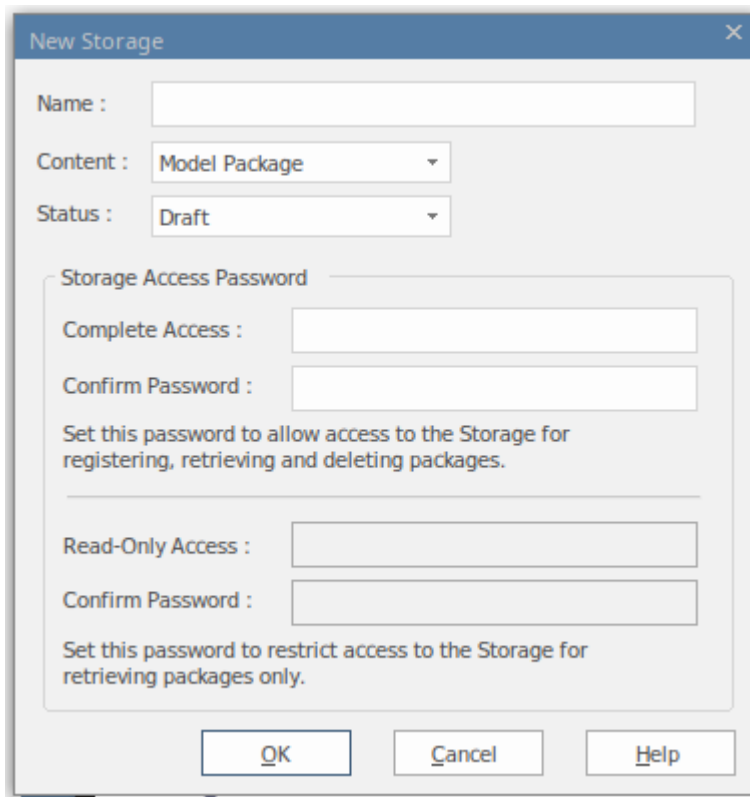
When creating a new Storage you have the option to set what type of storage this is to be. The Storage types available include:

- Model Package - contains Asset Packages and/or Files
- Learning Center Library - Learning Center Library content
- Reference Data Library - Enterprise Architect Reference Data Library
- Source Code Library - can be populated with any zipped files.

Step	Action
1	Click on the  icon in the Reusable Asset Service toolbar.
2	If necessary, enter the Administration password that enables update access to the Registry. Click on the

OK button.

The 'New Storage' dialog displays.



3 In the 'Name' field, type a name that indicates the purpose or content of the Storage.

4 In the 'Content' field, select:

- 'Model Package' if the Storage should contain Asset Packages and/or Files
- 'Learning Center Library' if the Storage should contain only Enterprise Architect Learning Center Library files - this Storage can be populated only with Library files and not with Asset Packages
- 'Reference Data Library' if the Storage should contain only Enterprise Architect Reference Data Library files - this Storage can be populated only

	with Library files and not with Asset Packages • 'Source Code Library' if the Storage should contain only Source Code Library files - this Storage can be populated only with Library files and not with Asset Packages
5	If you have selected 'Model Package' in the 'Content' field, then in the 'Status' field select: • 'Draft' if you intend to make significant changes to the content of the Storage, such as populating it with assets and/or files; you can also overwrite existing Packages or files in the Storage • 'Complete' if the Storage is ready for use; you cannot overwrite any Packages or files in the Storage, although you can delete Packages and files and add new ones You can modify a 'Model Package' Storage at a later time, and change this 'Status' setting (see the <i>Change Storage Details</i> section in this topic). Storage whose Content is 'Learning Center Library', 'Reference Data Library' or 'Source Code Library' will always be of 'Draft' Status - you can overwrite existing Library files in these Storages.
6	If you want to set Storage Access passwords on this Storage, click on the checkbox against one or both password types, and provide and confirm the 'Complete Access' and/or 'Read-Only Access' passwords.

	For more details, see the <i>Storage Access Passwords</i> section in this topic.
7	Click on the OK button. A prompt displays for you to confirm the creation of the Storage, with the type of access you have set on the Storage.
8	Click on the Yes button. A confirmation message displays; click on the OK button. The name of the new Storage displays in the 'Storage' field.

Storage Access Passwords

The Registry can be protected by a Registry password, so that only the Administrator can create and modify Storages. If no Registry password is set, a second level of password protection can be applied.

The owner of a Storage can apply password protection to restrict users in processing and modifying the contents of the Storage either intentionally or unintentionally. Password protection can be applied at two levels:

- Complete Access - users enter their password and can modify or delete the Storage itself, and within the Storage

can register, update and delete Packages and files in the Registry, view Packages and import assets into their models

- Read-Only Access - users enter their password and can import assets into their models

You set the 'Complete Access' password before you set the 'Read-Only Access' password.

If password protection is set and a user has no password, they can only view the contents of the Storage. If no password protection is set, all users can freely access and modify the Storage and its contents.

You set the passwords on each Storage as you create that Storage, using the 'New Storage' dialog. Once the Storage has been created, you can change or remove an existing password using the 'Modify Storage Access' dialog, but you cannot add a password.

If a Storage is password protected, the system displays a prompt for the password when the user begins to:

- Change or delete a password on the Storage
- Copy the Storage to create a new Storage
- Delete the Storage
- Register a Package or file in the Storage
- Import a Package, file or Technology from the Storage
- Delete a Package or file from the Storage
- Compare an Asset Package with a Package in the model

The system displays the password prompt when any of those operations is performed for the first time after the user:

- Connects to a Registry
- Reloads the Registry Browser
- Selects a Storage in the 'Storage' field in the Reusable Asset Services view

If the user enters the correct password and therefore establishes their credentials, the system does not display a password prompt again for any valid operation that user performs until they:

- Select a different Storage in the 'Storage' field in the Reusable Asset Services view or
- Reload the Registry Browser from the Registry

Register Assets and Files

Whilst a Storage exists and, if the Storage is under password protection, and you have the 'Complete Access' password, you can register Packages from a model and files from your system as assets in that Storage. If the Asset Package was developed using one or more MDG Technologies, you can optionally register those technologies in the Storage as well. See the *Register New Assets* Help topic.

Copying Asset Storages

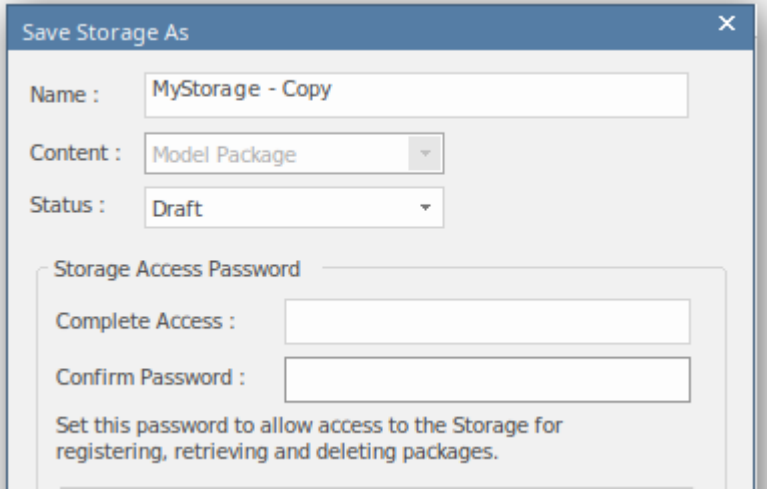
It is possible to copy a Storage as the basis for creating another Storage, for example if you want to use the same set of assets in the context of a larger set for a different department, work area or development phase.

Note: It is not possible to change the 'Content' of a Storage nor is it possible to change 'Status' of a 'Learning Center Library', 'Reference Data Library' or 'Source Code Library' Storage.

Copy Storages

To copy a Storage, follow these steps.

Step	Action
1	In the 'Storage' field, select the Storage to be copied.
2	Click on the  icon in the Reusable Asset Service toolbar.
3	If necessary, enter the Administrator password or your 'Complete Access' password and click on the OK button. The 'Save Storage As' dialog displays.

	
4	In the 'Name' field, type a name that indicates the purpose or content of the new Storage.
5	If 'Model Package' is selected in the 'Content' field, then in the 'Status' field select: • 'Draft' if you intend to make significant changes to the content of the Storage, such as populating it with assets and/or files; you can overwrite existing Packages or files in the Storage • 'Complete' if the Storage is ready for use; you cannot overwrite any Packages or files in the Storage, although you can delete Packages and files and add new ones You can modify a 'Model Package' Storage at a later time, and change this 'Status' setting (see the <i>Change Storage Details</i> section in this topic).
6	If you want to set Storage Access Passwords on this Storage, click on the checkbox against one or both password types, and provide and confirm the

	'Complete Access' and/or 'Read-Only Access' passwords.
7	Click on the OK button. A prompt displays for you to confirm the creation of the Storage, with the type of access you have set on the Storage.
8	Click on the Yes button. A confirmation message displays; click on the OK button. The name of the new Storage displays in the 'Storage' field.

Change Storage Details

After you have set up a Storage, you can update it at a later stage to:

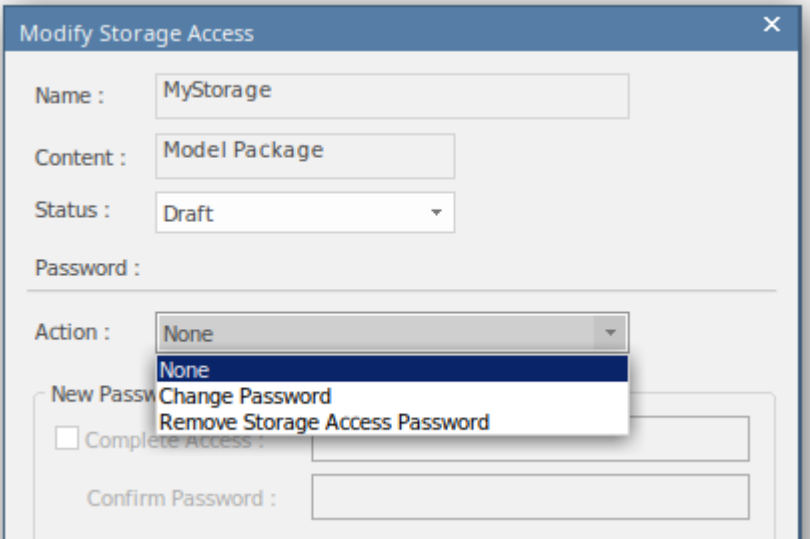
- Change the status of a 'Model Package' Storage
- Change one or both of the existing 'Complete Access' and 'Read-Only' Access passwords
- Delete one or both of the passwords

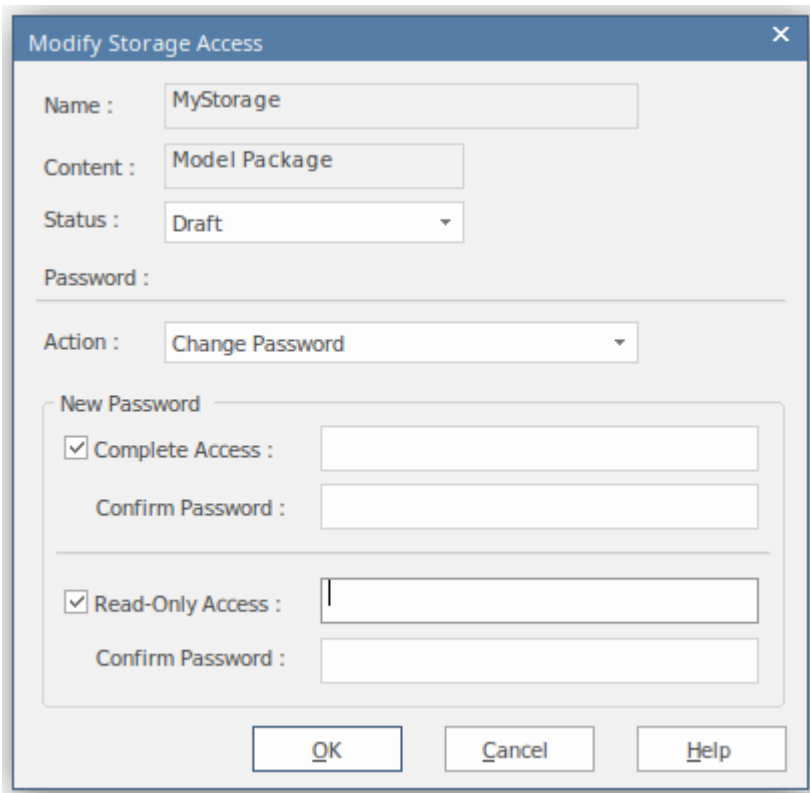
Note: there are restrictions in that:

- It is not possible to add a password where one has not previously been set.
- You cannot change or delete passwords unless you have the 'Complete Access' password yourself.
- It is not possible to change the 'Content' of a Storage nor is it possible to change 'Status' of a 'Learning Center Library', 'Reference Data Library' or 'Source Code Library' Storage.

Process

Step	Action
1	On the Reusable Asset Service view, in the 'Storage' field click on the drop-down arrow and select the Storage to update.

2	Click on the  icon in the Reusable Asset Service view toolbar.
3	If necessary, enter the Administrator password or your 'Complete Access' password and click on the OK button. The 'Modify Storage Access' dialog displays. 
4	If 'Model Package' is selected in the 'Content' field, then in the 'Status' field select: • 'Complete' if the Storage has now been set up and is ready for use; you cannot overwrite any Packages or files in the Storage, although you can delete them and add new Packages and files • 'Draft' if you intend to make significant changes to the content of the Storage; you can overwrite existing Packages or files
5	The 'Action' field defaults to 'None', to indicate no

	changes to the passwords. If you are changing or deleting the passwords, click on the drop-down field and select: • 'Change Password' to enable both password type fields ready for editing • 'Remove Storage Access Password' to simply delete the 'Complete Access' password altogether • 'Remove Read-Only Access Password' to simply delete the 'Read-Only Access' password altogether
6	If you have selected the 'Change Password' option, select the appropriate password checkbox or both checkboxes, and type in the new password(s). Re-type the password(s) in the 'Confirm Password' field(s). 

7	Click on the OK button to save your changes and close the 'Modify Storage Access' dialog.
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Delete a Storage

If a Storage has been created by mistake, or is no longer necessary in the Registry, you can delete it and its entire contents of Package and files in one action.

Process

Step	Action
1	On the Reusable Asset Service view, in the 'Storage' field click on the drop-down arrow and select the Storage to delete.
2	Click on the  icon in the Reusable Asset Service view toolbar. A prompt displays to confirm the deletion.
3	Click on the Yes button. If necessary, enter the Administrator password or your 'Complete Access' password and click on the OK button. A message displays to confirm that the Storage has been deleted.
4	Click on the OK button to clear the message.

	The Storage and its contents are cleared from the Registry.
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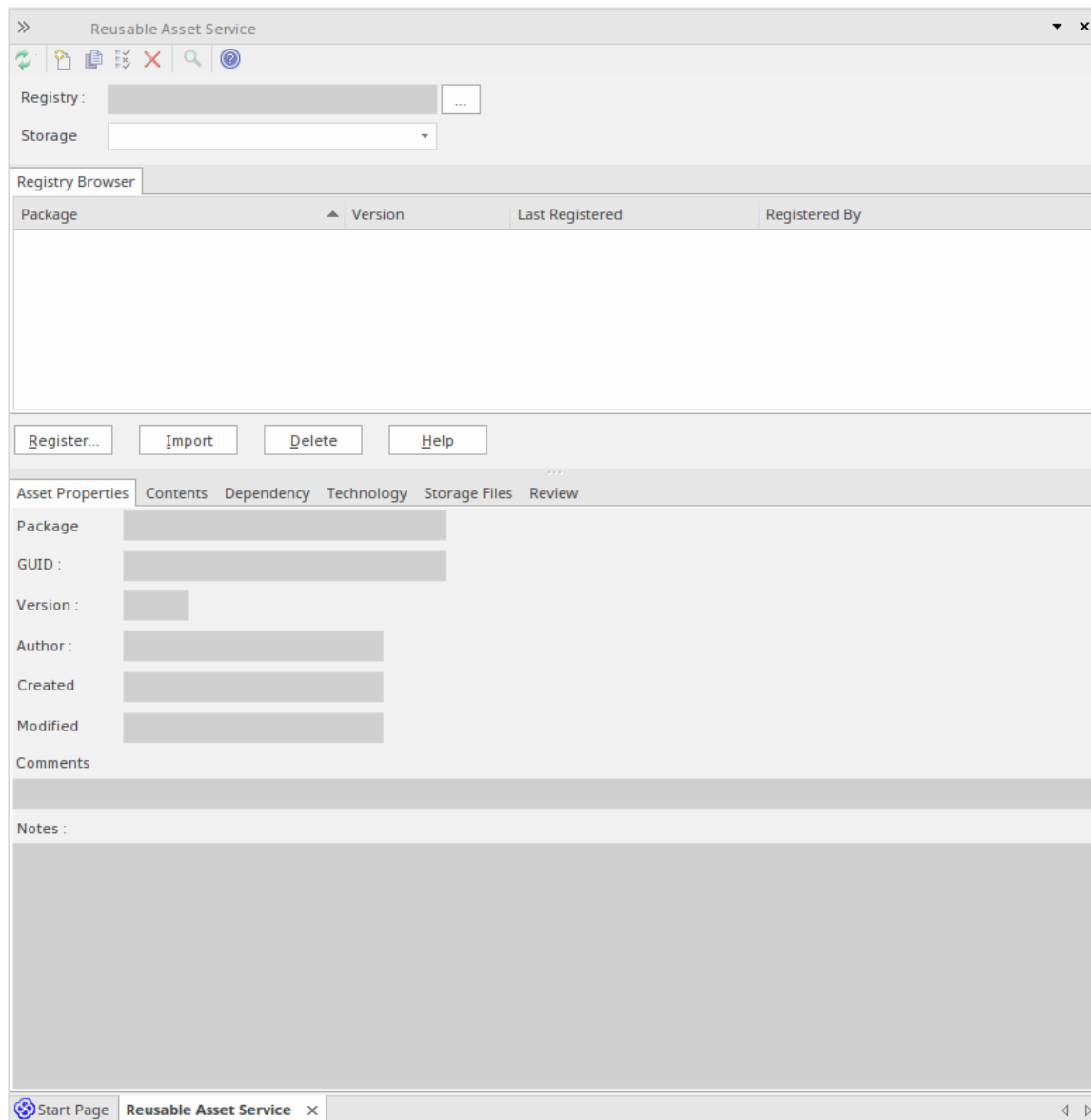
Connect to the Asset Service

The Reusable Asset Service provides model structures and documents to you from one or more registries on remote systems. You access these registries through a Pro Cloud Server connection to the appropriate server. The connection details should be provided to you by your System Administrator or Reusable Asset Service Administrator.

Access

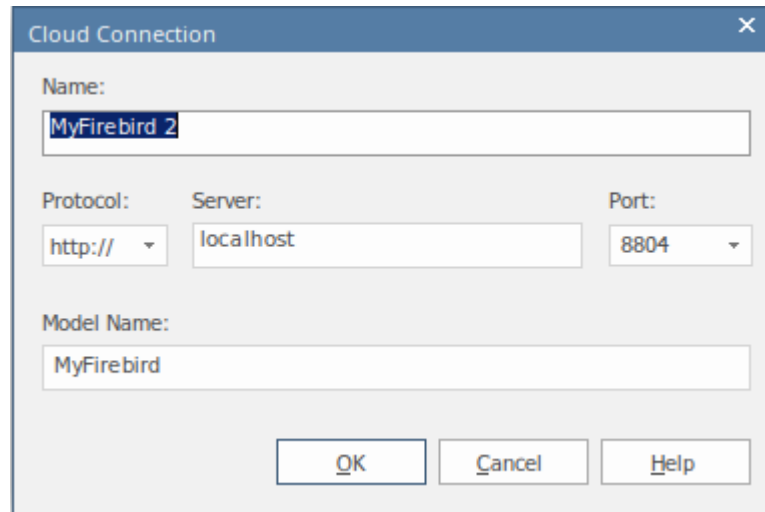
Ribbon	Publish > Model Exchange > Reusable Assets
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Connect to Assets

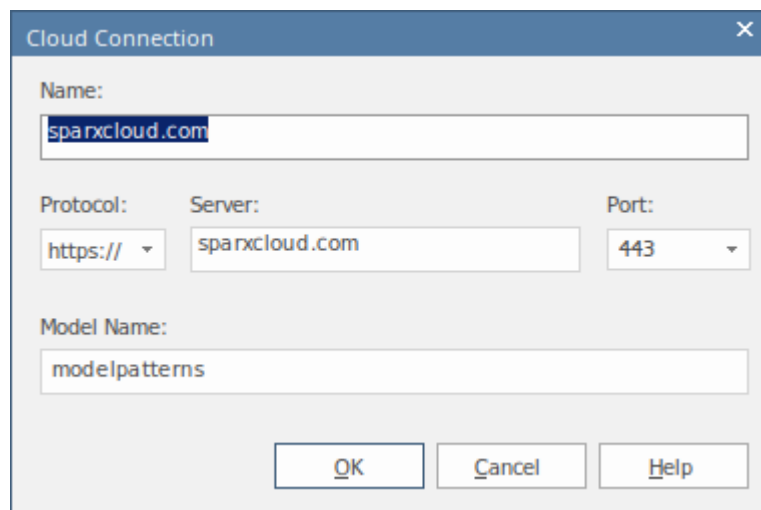


Option	Detail
Registry	This field normally defaults to the last-used registry name. If the field is empty, or if you want to switch to a different registry, click on the  button to the right of the field. The 'Cloud Connection' dialog displays. Using the information provided by your administrator, type in the Protocol, the

server name, the Port and the name of the model hosting the registry data.



For example, if you wanted to download the UBL Frameworks into your model, you would specify the server 'sparxcloud.com' and the model name 'modelpatterns'.



If advised by your Administrator, type in the user name and password for the server.

Click on the OK button; the 'Registry' field now shows the server name.

	Note: • If no Registry is available, Administrator can create a Cloud-based Repository to act as the Reusable Asset Registry
Storage	If there is more than one Storage available in the Registry, this field defaults to the first listed in the Registry. To check for or select other Storages, click on the drop-down arrow at the right of the field. Click on the Storage to review. For example, if you were downloading UBL frameworks, you would select 'UBL' in the list. The 'Registry Browser' tab displays the Packages registered in the selected Storage.

Notes

- The Reusable Asset Service is available in the Corporate, Unified and Ultimate Editions of Enterprise Architect

Browse Assets

When you select a Storage in the Reusable Asset Service, the 'Registry Browser' tab immediately displays a list of the Packages registered in that Storage. You can review and use these Packages using the context menu and buttons on the tab.

You can review the properties and contents of the selected Package in the Storage, and access any files in the Storage, using the tabs in the lower half of the Reusable Asset Service view, underneath the 'Registry Browser' tab.

If you have left the Registry Browser open for a while and there is a possibility that the Registry has been changed, you can click on the  icon in the Reusable Asset Service toolbar to refresh the Browser with the latest contents of the Registry.

Access

Ribbon	Publish > Model Exchange > Reusable Assets > Registry Browser
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Review Assets

Option	Detail
Toggle Filter Bar	Right-click on the column headings and select this option to show or hide the Filter Bar on the display.
(filter bar fields)	Type in the appropriate characters to list only Packages that have that string of characters in the values in the corresponding column.
Package	This column shows the name of the Packages held in the selected Storage.
Version	This column defaults to the most recent version of each Package held in the selected Storage. You can click on the drop-down arrow at the end of a field and select a different version of the corresponding Package, if any have been registered.
Last Registered	This column shows the date and time at which the currently-listed version of each Package was registered.
Registered	This column shows the user name of the person who registered the currently-listed

By	version of each Package.
Import	Click on a Package name and click on this button to begin to import either the Package alone or the Package and its dependent structures into your model. You can perform the same action by right-clicking on the Package name and selecting the 'Import from Registry' menu option. If the Package from the Registry already exists in your model, it is deleted and replaced by this import. For a: • 'Learning Center Library' Storage, the 'Download Library' dialog displays • 'Reference Data Library' Storage, the 'Import Reference Data' dialog displays • 'Source Code Library' Storage, the 'Save As' dialog displays
Compare with Package in Model	If you have previously imported a Package from the Registry into your model, you can right-click on the Package name in the 'Registry Browser' tab and select this option to compare the imported Package with the Registry version, and show any differences.

	The system automatically selects the model Package from the Browser window.
Find in Project Browser	If you have previously imported a Package from the Registry into your model, you can right-click on the Package name in the Registry Browser and select this option to highlight the corresponding Package in the Browser window.

Notes

- Some of the other options available on the Registry Browser are used to set up assets in the Registry
- If the Storage is password-protected, a prompt for you to enter a password displays when you select to perform an operation on the data; in this situation, you need the 'Read-only' password to process the information from the Storage, and the 'All-access' password to change the information in the Storage
- The 'Registry Browser' tab will be empty for a 'Learning Center Library', 'Reference Data Library' or 'Source Code Library' type Storage - the contents of these types of Storage will be available in the 'Storage Files' tab of the

Reusable Asset Service view

Asset Properties

When you select a Storage and a Package in the 'Registry Browser' tab, the first four tabs in the lower half of the Reusable Asset Service view are updated with information from the Package. The 'Asset Properties' tab is a read-only view of the properties of the selected Package itself.

Access

Open the Reusable Asset Service window using one of the methods outlined here.

Select a Package, then click on the 'Asset Properties' tab to display properties for that Package.

Ribbon	Publish > Model Exchange > Reusable Assets
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Review Package Properties

Field	Detail
Package	Displays the name of the selected Package.

GUID	Displays the Global Unique Identifier of the Package.
Version	Displays the version reference (such as 1.1 or Beta) of the Package.
Author	Displays the user ID of the person who created the Package (the Package Author).
Created	Displays the date and time at which the selected version of the Package was created (that is, registered) in the Registry.
Modified	Displays the date and time at which the selected version of the Package was last modified (that is, re-registered) in the Registry.
Comments	Displays any comment recorded against the Package when it was registered in the Storage.
Notes	Displays the notes recorded against the Package when it was registered in the Storage.

Notes

- The 'Asset Properties' tab will be empty for a 'Learning Center Library', 'Reference Data Library' and 'Source Code Library' type Storage

Package Contents

When you select a Storage and a Package in the 'Registry Browser', the first four tabs in the lower half of the Reusable Asset Service view are updated with information from the Package. The 'Contents' tab lists the diagrams and elements (including child Packages) held in the selected Package, listing the two types of object separately. You can organize the information within a column into alphabetical or reverse-alphabetical order for ease of reference, and use the Filter bar to filter the display to show only items with values containing specific characters or digits.

Access

Open the Reusable Asset Service window using one of the methods outlined here.

Select a Package, then click on the 'Contents' tab, to display the contents of that Package.

Ribbon	Publish > Model Exchange > Reusable Assets
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Review Package Contents

Option	Detail
Content Type	Click on this button to toggle between listing the Package diagrams first and listing the Package elements first.
Toggle Filter Bar	Right-click on the column headings and select this option to show or hide the Filter Bar on the display.
<filter bar fields>	Type in the appropriate characters to list only elements and diagrams that have that string of characters in the values in the corresponding column.
Content Type: Diagram Content Type: Element	These are the headers for the two types of object listed in this tab. Click on the appropriate expansion box to hide or show the list of diagrams or elements under the heading.
Name	Displays the name of the element or diagram available in the Package.
Type	Displays the type of the element or diagram, such as UseCase or Use Case diagram.

GUID	Displays the Global Unique Identifier of the element or diagram.
Content Type	Displays the object type of the item - Element or Diagram.
Find in Project Browser	Right-click on an element or diagram line and select this option to see if the element or diagram also exists in your model and, if it does, to highlight it in the Browser window.
View Diagram	Right-click on a diagram name and select this option to display the diagram within a labeled frame, as an image in a separate window. The image is displayed at the default zoom level for the model. Alternatively, to view the diagram, double-click on the diagram name.

Notes

- The 'Contents' tab will be empty for a 'Learning Center Library', 'Reference Data Library' or 'Source Code Library' type Storage

Package Dependencies

A Package held as an asset in the Reusable Asset Service registry might contain elements and diagrams that have relationships with objects in other Packages. The Packages containing these 'external' objects will also have been added to the Registry to support the first Package, and will be listed in the 'Registry Browser' tab along with other (unrelated) Packages. You can establish whether the selected Package in the 'Registry Browser' tab has links to other Packages in the Registry, and which they are, by reviewing the 'Dependency' tab.

Package A depends on Package B if any of these constructs (or their Tagged Values) in Package A references elements in Package B:

- Elements
- Attributes
- Operations
- Operation Parameters
- Diagrams
- Connectors

Access

Open the Reusable Asset Service window using one of the methods outlined here.

Select a Package, then click on the 'Dependency' tab, to display a list of Dependencies for that Package.

Ribbon	Publish > Model Exchange > Reusable Assets
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Check Package Dependencies

Option	Detail
Package	Displays the name of the related Package.
Version	Displays the latest registered version of the related Package that has links to the selected Package.
GUID	Displays the Global Unique Identifier of the related Package.
Find in Project Browser	Right-click on the 'Package' line and select this option to see if the Package also exists in your model and, if it does, to highlight it in the Browser window.

Notes

- If one Package depends on another, and that second Package itself depends on another Package, both the second and third Packages are shown in the 'Dependency' tab
- The 'Dependency' tab will be empty for a 'Learning Center Library', 'Reference Data Library' or 'Source Code Library' type Storage

Package Technologies

It is possible that the asset Package in the Registry is associated with one or more Technologies, especially if the Package comes from a model developed as an extension or customization of the UML. You can check whether an asset Package has any associated Technologies, and what they are, by viewing the 'Technology' tab of the Reusable Asset Service view.

Access

Open the Reusable Asset Service window using one of the methods outlined here.

Select a Package, then click on the 'Technology' tab, to display a list of Technologies required to support that Package.

Ribbon	Publish > Model Exchange > Reusable Assets
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Review Technologies

Option	Detail
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Name	Displays the name of the Technology as recorded in the Registry.
Version	Displays the required version of the Technology to support the asset Package, available through the Registry.
ID	Displays the unique identifier of the Technology.
Type	Identifies whether the Technology is system-supplied and built in to Enterprise Architect (such as BPMN 2.0 or ArcGIS), or user-defined. A user-defined technology can be introduced from an external source or developed by a user within the system.
Registry Status	Indicates whether the Technology file is: • Available - the Technology file is registered in the current Storage, or • Unavailable: - The Technology file is not registered in the Storage, or - The Technology is a built-in Technology and is already integrated with your system, or must be purchased under license, or

	- The Technology is available from a URL and can be downloaded from that URL
Import Technology	If your local system does not have one of the Available Technologies, you can quickly import it from the Registry. 1. Right-click on the Technology name and select the 'Import Technology' option. 2. A prompt displays for you to confirm the import to your system; click on the Yes button. 3. A message displays to confirm that the Technology has been imported; click on the OK button. You might have to restart Enterprise Architect to activate the Technology. Other than the remote Technologies, you cannot import a Technology flagged as 'Unavailable'. You can import a remote Technology from its URL site.

Notes

- You can also import Available Technologies from the

registry as part of the process of importing the asset Package

- If the Storage is password protected, a prompt to enter your password displays (this can be a Read-Only or a Complete Access password) after you confirm that you want to import the Technology; you cannot import the Technology without this password
- The 'Technology' tab will be empty for a 'Learning Center Library', 'Reference Data Library' or 'Source Code Library' type Storage

Storage Files

The 'Storage Files' tab of the Reusable Asset Service view simply lists the files that have been uploaded to the specified Storage. The files can be of any type, uploaded from any directory on any system connected to the registry. Typically they would be document or graphics files that provide standards, guidelines or design information on a model structure. The tab displays the file name and extension, and a comment on the nature or purpose of the file.

Files held in the Registry are compressed, so to view the contents you download them onto your local system.

Access

Open the Reusable Asset Service window using one of the methods outlined here.

Select a Package, then click on the 'Storage Files' tab to display a list of files associated with the Package, that are available for download.

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Review files in Model Package type Storage

On the 'Storage Files' tab, check the 'Comments' field against each file that interests you.

To view the contents of a file, right-click on the file name and select the 'Import From Registry' option. The 'Save As' browser displays, through which you select the directory into which to copy the file.

Click on the Open button. The file is copied into the selected location, from which you can open it.

Notes

- If the Storage is password-protected, the system prompts you to enter a password before you begin importing a file from the Storage; in this case you require either a 'Read-Only' or a 'Complete Access' password

Add Review Comments

For any Model Package in the Storage, you can add individual review comments on any aspect of the Package. These comments provide a permanent record on the Package - once they have been saved they cannot be edited or deleted. Each comment is attributed to the ID of the user who entered it, and is date stamped.

Note that the Review tab is present for a Learning Center Library Storage, Reference Data Library Storage, and Source Code Library Storage; however, the tab and panel are disabled and review comments cannot be entered for these storage types

Access

Open the Reusable Asset Service window using one of the methods outlined here.

Select a Registry, Model Storage and Package, then click on the 'Review' tab to display a list of comments associated with the Package, and a panel for entering further comments.

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Actions

Action	Description
Review Existing Comments	If there appears to be a longer comment than can be shown in the 'Review' tab, click on it. The full text displays in the 'Comments' field in the lower panel.
Add a New Comment	Click on the New button and start typing your comment on the Package in the 'Comments' field. You can delete and edit text as you type. When you have finished writing your comment, click on the Save button. Your comment, preceded by your user ID and the current date, is displayed in the 'Review' panel. Once you have saved your comment, you cannot edit or delete it.

Compare an Asset to the Model

If you are developing a Package in your model against a standard structure, or using common elements from the Reusable Asset Service, you can check that your model conforms to the standard or incorporates any changes to the common elements, by performing a comparison between the Asset Package and your model.

Access

Open the Reusable Asset Service view using one of the methods outlined here.

Select a Package, then right-click on the Package and choose 'Compare with Package in Model'.

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Compare Asset Package and Model

A prompt displays for you to confirm the comparison. Click on the Yes button.

The Baseline Comparison view displays, showing the

element hierarchy in which differences have been detected between the Package in the model and the asset Package in the Registry (as the Baseline).

All facilities of the standard Baseline Comparison are available, including the ability to 'roll back' differences so that the element or Package in the model matches the Registry.

Notes

- If the Storage is password-protected, the system prompts you to enter a password before you begin comparing information in the Storage and in the model; in this case you require either a Read-Only or a Complete Access password

Register Assets

After you have set up your Storages in the Reusable Asset Service Registry, you can register assets in them. The assets include:

- Packages of modeling structures of your model, shown in the Browser window; these Packages can include diagrams and subordinate Packages
- Any Packages containing model components on which the primary Asset Packages depend
- Any MDG Technologies that you used in developing the Asset Packages, and that you decide to register with the Packages
- Any text or graphics files you want to make available to your corporate community; these files are compressed before being added to the Storage

You register the first three items together. You can register files in the Storage during that same process, or separately.

You can register separate versions of the same Package. If you register a Package that already exists in the Registry under the same version reference, and the Storage has 'Draft' status, the existing version is overwritten. If you register the same Package with a different version number or reference, it is registered separately and users can access both versions of the Package from the Registry.

'Learning Center Library', 'Reference Data Library' and 'Source Code Library' type Storages cannot contain

Packages of modeling structures - they can contain only Library files, which will appear in the 'Storage Files' tab. A Library file is:

- A zipped file containing Enterprise Architect-specific Learning Center files for the 'Learning Center Library' Storage type
- An XML file containing Enterprise Architect-specific reference data XML files for the 'Reference Data Library' Storage type
- A zipped file containing source code files for the 'Source Code Library' Storage type

Once registered, the Library file will be available in the 'Storage Files' tab of the Reusable Asset Service view.

Access

Ribbon	Publish > Model Exchange > Reusable Assets
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Storage Types

Option	Description
Register	Registering Package-trees including

Packages and Files as Assets	diagrams, as well as files.
Register Learning Center Library	Register Learning Center files for use in other repositories.
Register Reference Data Library	Register the current model's Reference Data Library for use in other repositories.
Register Source Code Library	Register Zipped files of source code libraries for distribution.

Register Packages and Files as Assets

Having set up your Storages in the Reusable Asset Service Registry, you can register Packages of modeling structures as selected in the Browser window in your current model. These Packages can include diagrams and subordinate Packages, as well as files.

You can also create an Asset that purely contains files, by not selecting a Package, but just selecting a file. See the section *Register File as Asset* in this topic.

Register Packages and Files as Assets

Step	Action
1	In the Reusable Asset Service view, select the appropriate Registry and Storage.
2	In the Browser window, click on the Package to register as an Asset.
3	On the 'Registry Browser' tab, click on the Register button. If the Storage is password protected, a prompt displays for your 'Complete Access' password. Type this in and click on the OK button.

4	The 'Register Package(s)' dialog displays, showing the: • Name and type of the Storage • Name and status of the selected Package (the status at this point being 'Pending') • The name, GUID and current version of the selected Package; you can type a different version number or text string if necessary If there is a version of the Package already in the Registry, and the Storage has 'Draft' status, you can either: • Overwrite the registered Package with an update of that version, or • Add the updated Package as another Asset under a different version number; in this case, the 'Packages to Register' panel shows the version number, registration date and comments on the latest version of the Asset Package You cannot overwrite an existing Package if the Storage has 'Complete' status. In this case, add the Package under a different version number.
5	In the 'Comments' field type a short comment and, in the 'Notes' field, a longer explanation of the Package being registered.
6	Click on the Check Dependency button and resolve

	the dependencies of the Package. At the end of this process, the selected Package has the status 'Ready' (for registration).
7	You can, at this point, also register files as assets of the Storage. See Step 4 of the next table, <i>Register File as Asset</i>. However, if you prefer you can follow the complete procedure separate from registering Packages.
8	Click on the Register button. A prompt displays to confirm registering the Package. Click on the Yes button. If the same version of the selected Package already exists in the Registry (if the Storage is a 'Draft') a prompt displays to confirm overwriting it. Click on the Yes button. A progress dialog displays. If the Package does not have any associated MDG Technologies, a message displays confirming that Package registration is complete. Go to step 10.
9	If the Package has one or more associated MDG Technologies, the 'Register MDG Technology' dialog displays, listing the Technologies and prompting you to register (OK) or ignore all of them. If you want to register some Technologies but not others, click on those you do not want to register,

	and click on the Remove button for each one in turn. Click on the OK button or Ignore button. A message displays confirming that Package and Technology registration is complete. Notes: • If a remote Technology is removed from registration (that is, the Technology is not registered along with the Package), the registered Package will refer to this Technology at its URL. When importing the Package from Registry, the system will import this remote Technology from its URL (if the remote Technology is not already available in the importing model) • If a remote Technology is registered with the Package being registered, the system will store a copy of the Technology file in the Registry. When importing the Package from Registry, the system will import the Technology stored in the Registry and will not import it from its URL (if the remote Technology is not already available in the importing model)
10	Click on the OK button. The 'Registry Browser' tab is updated with the newly-added details of the Package and any dependent Packages. You can review the details on the tabs on the lower half of the Reusable Asset Service view.

Register File as Asset

Step	Action
1	In the Reusable Asset Service view, select the appropriate Registry and Storage.
2	On the 'Registry Browser' tab, click on the Register button. If the Storage is password-protected, a prompt displays for your 'Complete Access' password. Type this in and click on the OK button. The 'Register Package(s)' dialog displays.
3	If any Packages are listed in the 'Packages to Register' panel, and you do not want to re-register them, clear the checkbox against each Package name.
4	Click on the Additional Files button. The 'Select Additional Files' dialog displays.
5	Click on the Add button.

	A 'Select' screen displays, on which you browse for and click on the required file. You can only select one file at a time on this browser.
6	Click on the Open button. The 'Add Comment' dialog displays.
7	Type a brief comment on the nature or purpose of the file in the Registry, and click on the OK button. Focus returns to the 'Select Additional Files' dialog, which now lists the selected file.
8	Repeat steps 5-7 for each Asset file to register. When you have finished, click on the OK button. The 'Register Package(s)' dialog redisplays.
9	Click on the Register button. A prompt displays to confirm registration of the files.
10	Click on the Yes button. A 'Progress' dialog displays while the files are registered, followed by a message confirming that the (Package and) File registration is complete.
11	Click on the OK button to clear the message, and to return focus to the Reusable Asset Service view. You can review the files on the 'Storage Files' tab in

	the lower half of the view.
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Register Learning Center Library

Here is a walk through for registering a Learning Center Library file. This Storage can be populated only with Library files, not with Asset Packages.

Register Learning Center Library

Step	Action
1	In the Reusable Asset Service view, select the appropriate Registry and 'Learning Center Library' Storage.
2	On the 'Registry Browser' tab, click on the Register button. If the Storage is password protected, a prompt displays for your 'Complete Access' password. Type this in and click on the OK button.
3	The 'Register Learning Center Library' dialog displays. Click on the  button next to the 'File' field and select the Library file. Type in a short comment on the Library being registered, in the 'Comments' field.

4	Click on the Register button. A prompt displays to confirm registering the Library file. Click on the Yes button. If the same Library file already exists in the Registry, a prompt displays to confirm overwriting it. Click on the Yes button. A progress dialog displays followed by a message confirming that Library registration is complete.
5	Click on the OK button. The 'Storage Files' tab in the lower half of the Reusable Asset Server view is updated with the newly-added Library file.

Register Reference Data Library

When you have a complete project set up, with fully defined reference data, it is possible to transfer the reference data via the RAS by setting an Asset that you can import into another repository. The exported data includes all instances of the selected data type in the project; for example, all defined cardinality values, or all Document Style Templates.

Process

Step	Action
1	In the Reusable Asset Service view, select the appropriate Registry and 'Reference Data Library' Storage.
2	On the 'Registry Browser' tab, click on the Register button. If the Storage is password protected, a prompt displays for your 'Complete Access' password. Type this in and click on the OK button.
3	The 'Register Reference Data Library' dialog displays. Press the  button next to the 'File' field and select :

	• From File System – to select an existing Reference Data XML file from the file system • From Model – to open the 'Export Reference Data' dialog for selecting categories that will be registered as the Reference Data Library once the Register button is clicked and a name is entered in the 'Enter Reference Data File Name' dialog Type in a short comment for the Library being registered in the 'Comments' field.
4	Click on the Register button. A prompt displays to confirm registering the Library file. Click on the Yes button. If the same Library file already exists in the Registry, a prompt displays to confirm overwriting it. Click on the Yes button. A progress dialog displays followed by a message confirming that Library registration is complete.
5	Click on the OK button. The 'Storage Files' tab in the lower half of the Reusable Asset Server view is updated with the newly-added Library file.

Register Source Code Library

These steps outline the process for registering a source code library.

Process

Step	Action
1	In the Reusable Asset Service view, select the appropriate Registry and 'Source Code Library' Storage.
2	On the 'Registry Browser' tab, click on the Register button. If the Storage is password protected, a prompt displays for your 'Complete Access' password. Type this in and click on the OK button.
3	The 'Register Source Code Library' dialog displays. Select the Library file by pressing the  button next to the 'File' field. Type in a short comment for the Library being registered, in the 'Comments' field.
4	Click on the Register button.

	A prompt displays to confirm registering the Library file. Click on the Yes button. If the same Library file already exists in the Registry a prompt displays to confirm overwriting it. Click on the Yes button. A progress dialog displays, followed by a message confirming that Library registration is complete.
5	Click on the OK button. The 'Storage Files' tab in the lower half of the Reusable Asset Server view is updated with the newly-added Library file.

Check Package Dependencies

As you register a Package in the Reusable Asset Service, the system provides a check on whether that Package is dependent on any external content; that is, whether it links to any modeling component held in Packages other than its own child Packages. You can perform three types of dependency check:

- Complete, which will consider Package A to be dependent on Package B if Package A contains any element, attribute, operation, operation parameter, diagram or connector (or their Tagged Values) that references elements in Package B
- Normative, which is the same as a Complete Dependency Check except that it will not treat as a dependency for Package A any element from Package B that is added as a link on a diagram in Package A
- Package Dependency/Import, where only those Packages that are the target of a Dependency/Package Import connector from Package A will be treated as dependent Packages for Package A

You perform this dependency check as an integral part of the Asset Registration process (specifically, at step 6 of the *Register Package as Asset* process). The check automatically identifies, firstly, the Packages directly needed by the Asset Package, and then any Packages needed by those initial Packages, and so on until the needed Packages are not dependent on any other.

In practice, such dependency chains are likely to be quite short. If you know that the original Asset Package is dependent on two other Packages, one of which is subordinate to the other, you can simplify the process further by selecting the Parent or Ancestor Package first and thus avoid the extra steps of selecting the two Packages separately.

Access

Open the Reusable Asset Service window, using one of the methods outlined here.

Ribbon	Publish > Model Exchange > Reusable Assets : Register
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Check Package Dependencies

Step	Action
1	Select the appropriate Registry, Storage and version of the model Package to register, and provide any appropriate comments or notes.

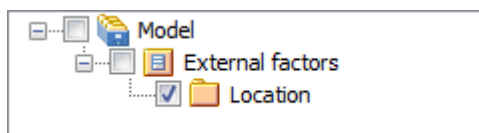
2

Click on the Check Dependency button.

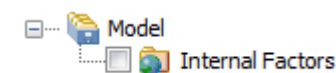
If there are no Packages on which the Asset Package depends, the system sets that Package to 'Ready'. Go to step 6.

The 'Select Needed Package: <dependent package name>' dialog displays, showing the model hierarchy containing the Packages needed by the Asset Package. Each needed Package has a selected checkbox against it.

If you know that a needed Package is a child or grandchild of another needed Package, click on the checkbox next to the 'higher' Package name so that the child is validated as part of the parent. In this example, if the Asset Package has dependencies on both External factors and Location, click on the 'External factors' checkbox to register both dependencies as External factors.



If the needed Package is already registered in the Registry, it is indicated by a globe icon:



In this case, select the 'Use latest version of selected package in Registry (if available)' checkbox to link to the registered version. For such Packages, no further dependency check is performed and, on the 'Register Package(s)' dialog, the Package's Status is set to 'Ready'.

3	Click on the OK button. The 'Register Package(s)' dialog updates to show the initial 'Asset Package status' as 'Ready', and to list the needed Packages each with the status of 'Pending'.
4	Click on the Check Dependency button again. If there are no Packages on which the needed Package depends, the system sets that Package to 'Ready' and sets the focus on the next Pending Package. If there are no more Pending Packages, go to step 6. If the needed Package is dependent on other Packages, the 'Select Needed Package: <dependent package name>' dialog displays again, showing the model hierarchy containing those Packages, each with a selected checkbox next to it. As in step 2, you can select a 'higher' Package if appropriate.
5	Click on the OK button. The 'Register Package(s)' dialog updates to show the first needed Package status as 'Ready', and to list any further needed Packages with the status of 'Pending'.
6	If there are further needed Packages in the chain, repeat step 4. The system automatically identifies them and lists them for validation as in step 5. Otherwise the system sets the final needed Package

	status to 'Ready' and you can continue to register files and MDG Technologies.
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Notes

- A Package with status 'Pending' cannot be registered; only Packages with status 'Ready' can be registered
- If you are certain that there are no parent-child relationships between the needed Packages, you can work through these steps quickly by just clicking on the Check Dependency button and OK button alternately until all Packages in the Package to Register list have the status Ready
- The system does not allow you to register an Asset Package that has dependencies on its own parent or grandparent Package; such dependencies would cause the Asset Package to be registered twice - by itself and as part of the parent Package - creating the risk of differences developing between the two instances

Update an Asset

Over time, you might need to revise the contents of the Registry. Such updates can include:

- Registering additional Asset Packages and files
- Registering a new version of an Asset Package
- Registering a new edition of a Storage file
- Registering new Libraries
- Deleting an Asset Package
- Deleting a Storage file
- Deleting a Library
- Changing the details of a Storage
- Deleting an entire Storage and the assets and files within it

Access

Ribbon	Publish > Model Exchange > Reusable Assets > Registry Browser
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Update Tasks

Task	Detail
Register new Asset Packages and Storage files	You can add further Asset Packages and files to a Storage at any time.
Register a new version of an Asset Package	You register a new version of an Asset Package as if it were a new Asset. In the 'Current Version' field on the 'Register Package(s)' dialog, you type a different number or reference to that assigned to the currently-registered Asset. You can overwrite an existing Asset Package under the same version number only if the Storage has 'Draft' status. If the Storage has 'Complete' status, you cannot overwrite the existing Asset Package under the same version number. To replace the current version, you must delete the Asset from the Storage and register the Package again.
Delete Asset Package from Storage	Click on the Package name in the 'Registry Browser' tab and either: • Click on the Delete button or • Right-click and select the 'Delete From Registry' menu option In either case a short submenu displays,

	prompting you to select to delete: • The Asset Package only, or • The Asset Package and the Packages on which it is directly or indirectly dependant When you select the appropriate option, a prompt displays for you to confirm the deletion. Click on the Yes button. A message displays to confirm that the Package has been deleted from the Registry, and the name of the Package is removed from the 'Registry Browser' tab. If the Storage is password-protected, the system prompts you to enter a 'Complete Access' password before it begins deleting the Package(s). If any of the registered Packages depend on the Package being deleted, the system displays the names of these Packages and prompts for confirmation before deleting each Package.
Register a new version of a Storage File	You register a new version of a Storage file as if it were a new file under a different file name. You can overwrite an existing file under the same file name only if the Storage has

	'Draft' status. If the Storage has 'Complete' status, you cannot overwrite the existing file. To replace the current version, you must delete the file from the Storage and register the file again.
Delete Storage Files from Storage	On the 'Storage Files' tab, right-click on the file name and select the 'Delete From Registry' option. A prompt displays for you to confirm the deletion. Click on the Yes button. A status message confirms the deletion, the file is removed from the Registry and the file name is removed from the 'Storage Files' tab. If the Storage is password-protected, the system prompts you to enter a 'Complete Access' password before it begins deleting the file.
Register a new Library File	You can add further Library files to a Storage at any time. When you register a Library file, the file name and location will be used as the unique identifier for the file. You can overwrite this Library file in the Registry by registering a file with the same name and from the same file system location.

Delete Library Files from Storage	To delete all Library files in Storage, click on the Delete button in the 'Registry Browser' tab. To delete a particular Library file, right-click on the Library file name in the 'Storage Files' tab and select the 'Delete From Registry' option. A prompt displays for you to confirm the deletion. Click on the Yes button. A status message confirms the deletion, each Library file is removed from the Registry and each Library file name is removed from the 'Storage Files' tab. If the Storage is password-protected, the system prompts you to enter a 'Complete Access' password before it begins deleting the Library file(s).
Change Storage Details	This task is as documented for setting up the Registry. Note that whilst you can copy a Storage as a new Storage, you cannot transfer assets directly between existing Storages.
Delete a Storage and its contents	This task is as documented for setting up the Registry. Note that whilst you can copy a Storage as a new Storage, you cannot transfer assets directly between existing Storages.

Refresh Registry Browser	If there is a possibility that another user has updated the Registry while you have had it open, click on the  icon in the Reusable Asset Service toolbar to refresh your display from the latest updates to the Registry.
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Import an Asset into the Model

The Reusable Asset Service provides common or standard information and data that you can import into your local model. The unit that you import is a selected version of the Asset Package; you can also, optionally, import:

- Other Packages on which the selected Asset Package depends, and/or
- Available Technologies that support full use of the model structures in the Asset Package

The Asset Package (with, if selected, any needed Packages) is imported into the currently-selected model Package in the Browser window, unless the Asset Package already exists anywhere else in the Project. In this case, the system locates the existing Package and overwrites it with the imported Asset Package.

Access

Open the Reusable Asset Service window, using one of the methods outlined here.

On the 'Registry Browser' tab, either;

- Select an Asset Package and click on the Import button, or
- Right-click on an Asset Package and select the 'Import from Registry' option

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Import Asset Package

Before selecting an Asset Package to import into your model, click on the 'Version' drop-down arrow and select the appropriate version of the Package to import.

When you select to import an Asset Package into your model, a short menu displays from which you select to import:

- The Package alone or
- The Package with the related Packages on which it is dependent

A prompt then displays for you to confirm the import, and to warn you that if the Package already exists in the model, it will be overwritten by the import. Click on the Yes button to continue, or the No button to cancel the import.

If the Storage is password protected, after you confirm the import a prompt displays for your 'Read-Only' or 'Complete-Access' password; enter this and click on the OK button.

The 'Import from Registry' dialog displays, followed by confirmation that the import of the Package or Packages is complete. Click on the OK button.

If the Package depends on Technologies

If the Technologies associated with an Asset Package are not already on your system and/or enabled in your model, during the display of the 'Import from Registry' dialog the 'Import Technology From Registry' dialog also displays. Process this dialog as described.

Option	Detail
Name	Displays the name of the Technology as recorded in the Registry. The checkbox against each name is selected by default. If you want to import one technology but not another, deselect the checkbox of the technology to ignore.
Version	Displays the required version of the Technology to support the Asset Package, available through the Registry.
Registry Status	Indicates whether the Technology file is: • Available - the Technology file is registered in the current Storage, or • Unavailable - for one of these reasons: - The Technology file is not registered in the Storage, or - The Technology is a built-in

	Technology and is already integrated with your system, or must - be purchased under license, or - The Technology is available from a URL and can be downloaded from that URL
Model Status	Indicates whether the Technology is already in your model and disabled. (If the Technology is in your model and enabled, there is no need to import it and it is not listed in the dialog.)
OK	Click on this button to import and/or enable the selected Technology or Technologies in your system. A status message displays to indicate that the Package and Technologies have been imported and the Technologies enabled. You might have to restart Enterprise Architect for the Technologies to take full effect. Click on the OK button to clear the message. In the Browser window, the Package has been added to the model with (if selected) the Packages on which it is dependent.

Notes

- You can also import Technologies separately from the Package that is dependent on them, using the 'Technology' tab of the Reusable Asset Service view
- 'Learning Center Library', 'Reference Data Library' and 'Source Code Library' type Storages do not contain any Asset Packages

Search Registry

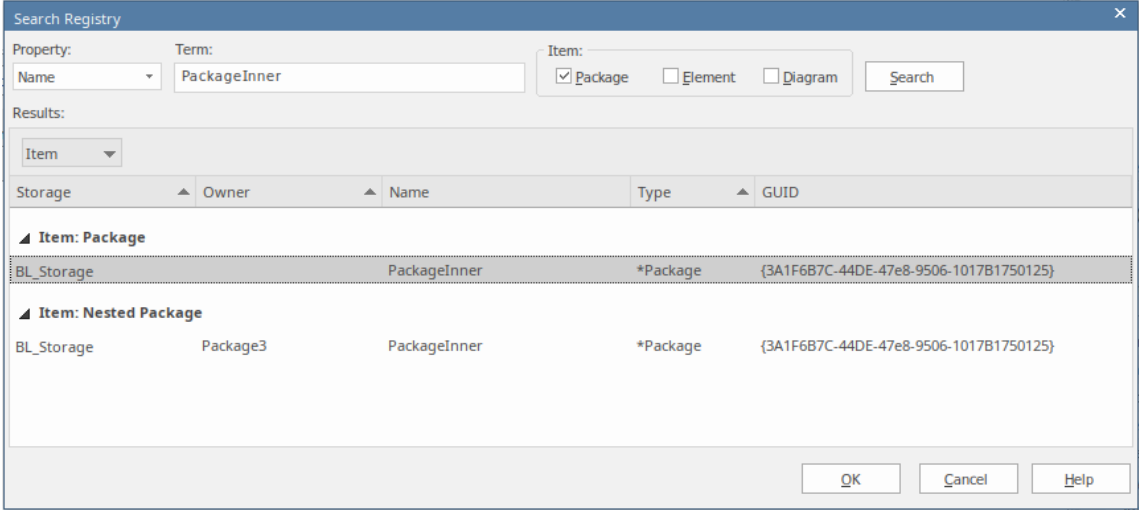
After you have set up your Storages in the Reusable Asset Service Registry and registered Asset Packages in them, you can search the Registry to locate modeling items such as Packages, elements and diagrams using their names or Global Unique Identifiers (GUIDs).

Access

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Search Registry for Asset Package Contents

Step	Action
1	Click on the  icon in the Reusable Asset Service toolbar. The 'Search Registry' dialog displays.

	
2	In the 'Property' field, select: 'GUID' if you intend to search the Registry for a modeling item based on its Global Unique Identifier 'Name' if you intend to search the Registry for a modeling item based on its name
3	In the 'Term' field, type in the GUID or name of the modeling item. Note the interpretation of this field is case-sensitive.
4	In the 'Item' section, select the modeling item to search for; that is, Package, element and/or diagram.
5	Click on the Search button to search the Registry for the selected modeling item(s) and to display the results, if any, in the 'Results' section.
6	The 'Results' section displays the results of the

	search, showing these details: • Storage - the name of the Storage in the Registry that has the modeling item • Owner - the name of the Asset Package that contains the modeling item • Name - the name of the modeling item • Type - the Enterprise Architect type of the modeling item • GUID - the Global Unique Identifier of the modeling item Notes : • The search results will be grouped by modeling item • The group <i>Nested Package</i> represents all those Packages (that satisfy the search criteria and) that are a part of another registered Package
7	Select an entry in the 'Results' section and click on the OK button to open the Storage (containing the modeling item) in the Registry Browser and close this dialog. You will be prompted for a password if the Storage is password protected; enter the 'Complete Access' or 'Read-Only Access' password and click on the OK button to view the Storage contents.

