



MDG Link for DOORS User Guide

Welcome to the MDG Link for DOORS User Guide. The MDG Link for DOORS enables you to work simultaneously with both Enterprise Architect and DOORS and merge the changes with minimal effort.



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MDG Link For DOORS User Guide

Introduction

by Aaron Bell

The MDG Link for DOORS enables you to work simultaneously with both Enterprise Architect and DOORS and merge the changes with minimal effort.

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Foreword

The MDG Link for DOORS enables you to work simultaneously with both Enterprise Architect and DOORS and merge the changes with minimal effort.

1 Welcome



Welcome to the *MDG Link for DOORS®* - Enterprise Architect MDG Add-In, Version 2.0.

MDG Link for DOORS® is an Add-In for Enterprise Architect that facilitates a direct connection between Enterprise Architect and Telelogic DOORS®. It enables you to import DOORS modules of requirements into Enterprise Architect packages.

Note:

The MDG Link for DOORS is available for the Corporate and Professional editions of Enterprise Architect.

The key function of this Add-in is to ensure that a nominated Enterprise Architect package always reflects data from a particular DOORS module. After the initial import any modifications to the DOORS module can be synchronized by re-importing the module into the Enterprise Architect package.

The MDG Add-In incorporates the following features:

- Direct import of DOORS modules into Enterprise Architect
- Synchronization of imported DOORS modules and DOORS tree with Enterprise Architect Packages and Model Hierarchy
- Filtered import using DOORS View Filtering
- The Add-In provides a context-sensitive **Find In DOORS** command (requires *Absolute Number* attribute to be mapped).

Getting Started

For instructions on how to obtain, install and register the MDG Link for DOORS, see [Getting Started](#)^[11].

For instructions on importing data into Enterprise Architect from DOORS, see [Using MDG Link for DOORS](#)^[19].

For a guide to viewing requirements in Enterprise Architect see [View Requirements in Enterprise Architect](#)^[30]

See Also

- [Copyright Notice](#)^[3]
- [Trademarks](#)^[7]
- [Support](#)^[8]
- [License Agreement](#)^[4]

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1.2 Software Product License Agreement

MDG Link for DOORS - Enterprise Architect MDG Add-In, Version 2.0

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1.3 Acknowledgement of Trademarks

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- DOORS®

Trademarks of Microsoft

- Windows®

1.4 Support

Technical support for the MDG Link for DOORS is available to registered users of Enterprise Architect. Responses to support queries are sent by email. Sparx Systems endeavors to provide a rapid response to all product-related questions or concerns.

Registered users can lodge a support request by visiting:
http://www.sparxsystems.com/registered/reg_support.html.

Trial users can contact Sparx Systems with questions regarding their evaluation at:
support@sparxsystems.com.

An online user forum is also available for your questions and perusal, at
<http://www.sparxsystems.com/cgi-bin/yabb/YaBB.cgi>.

1.5 System Requirements

MDG Link for DOORS runs under the following environments:

Windows Operating Systems

- Windows ME
- Windows Vista (32 bit)
- Windows 2003
- Windows NT® (SP5 or later)
- Windows XP Professional
- Windows XP Home
- Windows XP Media Edition
- Windows XP Tablet Edition
- Windows 2000 Professional (SP3 or later).

Enterprise Architect

- Enterprise Architect Professional Edition, Version 7.1 (or later)
- Enterprise Architect Corporate Edition, Version 7.1 (or later).

DOORS

- DOORS Version 7.0 or later.

1.6 Order MDG Link for DOORS

MDG Link for DOORS is designed, built and published by [Sparx Systems](#).

The latest information on pricing and purchasing is available at: [Sparx Systems Purchase/Pricing Website](#).

For more information, contact sales@sparxsystems.com

Once you have paid for a licensed version of the MDG Link for DOORS, you receive (via email or other suitable means) a license key for each installation, and the address of the web site from which to download the full version.

2 Getting Started

To start working with the MDG Link for DOORS, to import Requirements information from DOORS into an Enterprise Architect package, you must perform the following steps:

1. [Register](#) ¹² the MDG Link for DOORS (which automatically enables the Add-In for use).
2. [Create](#) ¹⁴ a link between a selected Enterprise Architect package and a DOORS module.
3. [Define](#) ¹⁷ any import options that are specific to the package/module link.
4. [Import](#) ¹⁷ the contents of the DOORS module into the Enterprise Architect package.

To perform these steps, you select [options](#) ¹⁸ on the **Add-Ins** menu and **Add-Ins | DOORS** menu.

2.1 Register the MDG Link for DOORS

Follow these steps to activate the MDG Link for DOORS:

1. Purchase one or more licenses. Once you have paid for a licensed version of MDG Link for DOORS, you receive (via email or other suitable means):
 - a license key or keys
 - the address of the web site from which to download the full version.
2. Download the latest full install package from the address supplied.
3. Run the setup program to install the full version.
4. Start Enterprise Architect.

If this is the first time you have installed MDG Link for DOORS, the **MDG Link For DOORS** dialog displays, prompting you to register the MDG Link or to continue the trial.



5. To enter the new key click on the **Enter Key** button. The **License Management** dialog displays.



6. Click on the **Add Key** button. The **Add Registration Key** dialog displays.



Add Registration Key

Enter Private Key | Get Shared Key

Name:

Company:

Copy registration key into space below, then press OK button

OK Cancel Help

7. Copy the license key from the email and paste it into the **Copy registration key ...**field.
8. Click on the **OK** button. The full version of the MDG Link for DOORS is enabled and available for use with your version of Enterprise Architect.

2.2 Create Link to a DOORS Module

This section covers the process of connecting an Enterprise Architect package to a DOORS module.

You can also [disconnect](#)¹⁶ the package from the module.

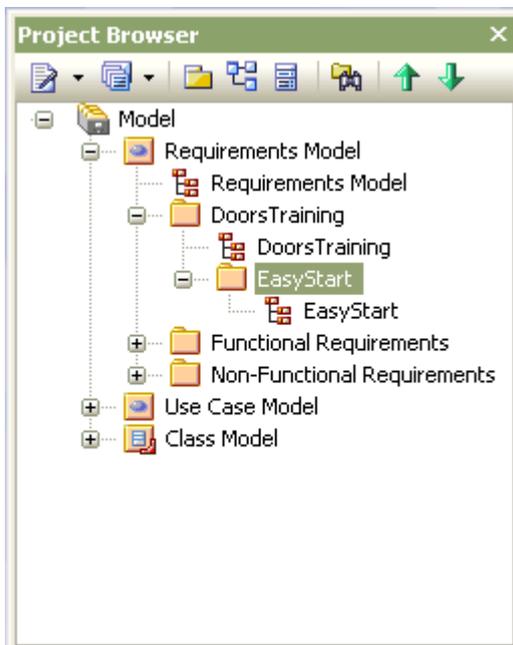
Prerequisites

Before importing data into Enterprise Architect from DOORS:

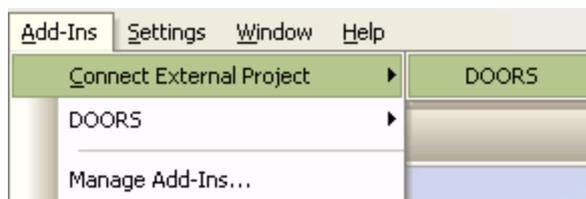
- The two applications must be opened.
- You must be logged into DOORS with read access rights to the module to be exported.

Steps

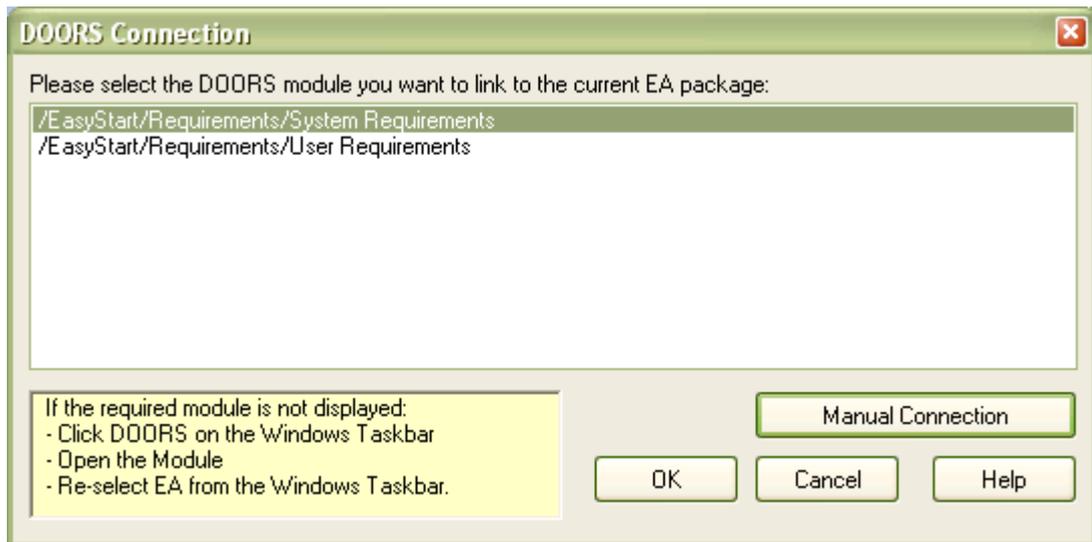
1. Open your model in Enterprise Architect.
2. In DOORS, open the module to import.
3. In the Enterprise Architect **Project Browser**, create a new package or click on an existing package into which to import the DOORS data.



4. From the main menu in Enterprise Architect select: **Add-Ins | Connect External Project | DOORS**.



The **DOORS Connection** dialog displays:

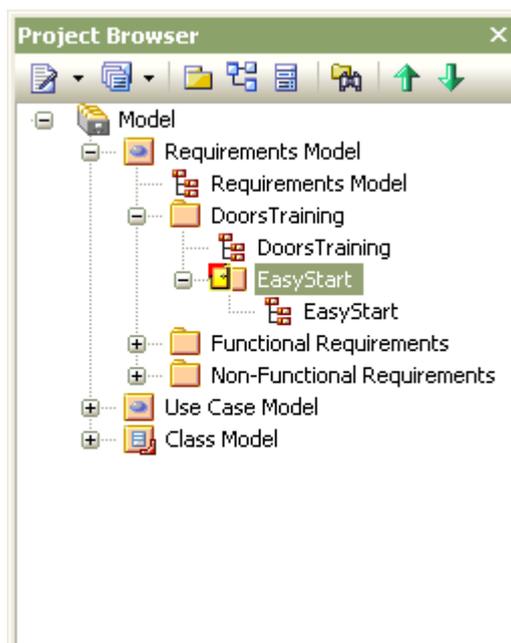
**Notes:**

If none of the modules have been opened in DOORS, no modules are listed. To be able to select a module in this window:

- In the main DOORS project view, select and open a module.
- Select Enterprise Architect from the Windows Task Bar to bring it back in view.
- The **DOORS Connection** dialog then displays the set of currently opened modules.

If a module is already connected to an Enterprise Architect package, it is omitted from the list on the dialog.

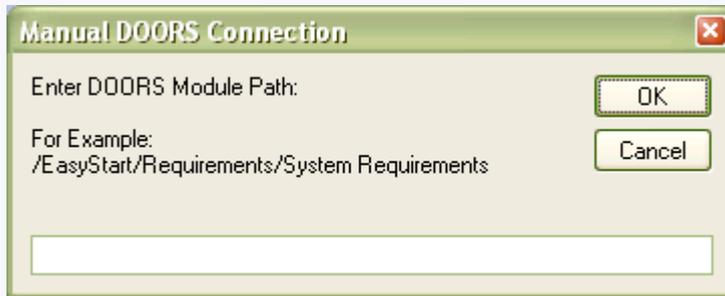
5. From the **DOORS Connection** dialog select the module to import. This sets the currently selected package as linked to the selected module in DOORS.
6. Click on the **OK** button to continue. The package icon in the **Project Browser** is updated to indicate the connection to the DOORS module.



7. [Import the Module From DOORS](#) .

Note:

If, at step 5, you cannot create the link to the DOORS module, you can try to establish the link manually. On the **DOORS Connection** dialog, click on the **Manual Connection** button to display the **Manual DOORS Connection** dialog.



Type in the DOORS module path and click on the **OK** button to establish the connection.

Disconnect DOORS Module

Once a DOORS module is connected to a package, the **Add-Ins** menu option for the connection changes to **Disconnect from DOORS**.

To disconnect the module from the package, click on the package in the **Project Browser** and select the **Add-Ins | Disconnect from DOORS** menu option. The package and its module are no longer connected, and the indicator on the package icon in the **Project Browser** is removed.

2.3 Importing For The First Time

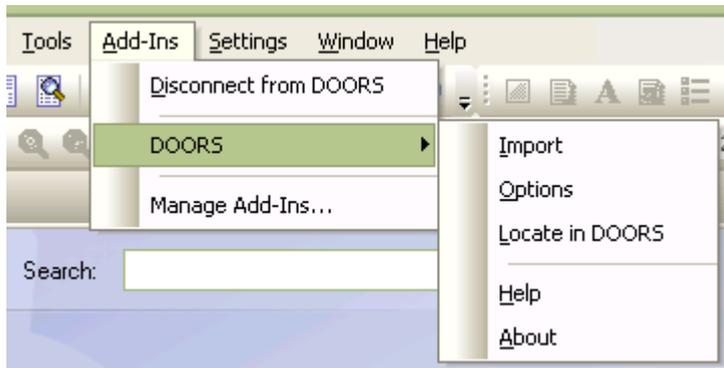
The first time you attempt to import a newly connected DOORS module, the import [Options](#) ^[20] dialog automatically displays, prompting you to modify the way DOORS attributes are mapped to Enterprise Architect properties. If you are unsure of how you want information mapped, click on the **OK** button to use the default mapping. Mappings can be changed later.

The settings on the [Options](#) dialog apply only to the link between a specific DOORS module and a specific Enterprise Architect package. Each module/package connection has its own option settings.

You can initiate the [import](#) ^[27] from the [Options](#) dialog, or from the [Add-Ins | DOORS | Import](#) ^[18] menu option.

2.4 Available Commands

To access the DOORS Interface menu, select the **Add-Ins | DOORS** menu option in Enterprise Architect.



Menu Option	Description
Import	Starts the process for importing ^[27] a module from DOORS to the currently selected package in Enterprise Architect.
Options	Enables you to select which DOORS attributes ^[20] of the current module are to be imported.
Locate in DOORS	Enables you to locate ^[33] a selected Enterprise Architect requirement in DOORS.
Help	Displays this help file.
About	Displays a panel of release and version information on the MDG Link for DOORS.

Related Options

Add-Ins Menu Option	Description
Disconnect from DOORS	Removes the link between the currently selected package in Enterprise Architect and its corresponding DOORS module.
Manage Add-Ins	Displays the Manage Add-Ins dialog, which you use to enable and disable Add-Ins including MDG Link for DOORS.

3 Using MDG Link For Doors

In the course of using MDG Link for DOORS to transfer Requirements information from DOORS to Enterprise Architect, you perform the following tasks:

- [Create and remove links between Enterprise Architect packages and DOORS modules](#) ^[14]
- [Select the appropriate import parameters for each package/module link](#) ^[20]
- [Import the filtered contents of a module from DOORS](#) ^[27]
- Continue to [refresh](#) ^[29] the Enterprise Architect packages with Requirements information from the corresponding DOORS modules
- [View Requirements in Enterprise Architect](#) ^[30]
- [Trace Requirements to related UML artifacts](#) ^[32] in Enterprise Architect
- [Locate Enterprise Architect Requirements in DOORS](#) ^[33].

3.1 Import Options

The **Options** dialog enables you to view and change the manner in which information is transferred from DOORS. The settings on the **Options** dialog apply only to the link between a specific DOORS module and a specific Enterprise Architect package. Each module/package connection has its own option settings.

Options

EA Package: **EasyStart**

DOORS Module: **/EasyStart/Requirements/System Requirements**

Filter by View: Standard view

Import Rules: Refresh Attributes

DOORS	Enterprise Architect
Absolute Number	(Tagged Value)
Bar	
Cost	
Created By	(Tagged Value)
Created On	(Tagged Value)
Foo	
Industrial Area	
Last Modified On	(Tagged Value)
Object Identifier	Alias
Object Level	(Tagged Value)
Object Number [: Object Heading]	Name
Object Parent	
Object Short Text	
Object Text	Notes
Old Id	
Suspect	
Verification Method	

Map ...

Combine ...

Remove

Mappings ...

Save and Import OK Cancel Help

Access the Options Dialog

The dialog displays automatically the first time you select to import via a new connection between an Enterprise Architect package and a DOORS module. Thereafter, you can display the dialog by selecting the **Add-Ins | DOORS | Options** menu option.

Notes:

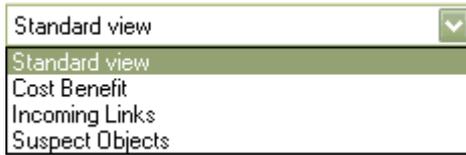
If the selected Enterprise Architect package is locked or checked-in under version control, the buttons on the **Options** dialog are disabled. You cannot change the settings or invoke an import.

Options Dialog Fields and Buttons

Field	Description
EA Package	Shows the name of the target Enterprise Architect package to which these options apply.
DOORS Module	Shows the name of the module to which this Enterprise Architect package is connected; the only way to change this is to disconnect and reconnect ¹⁴ to a new module.
Filter by View	Enables you to specify a filtered view ²² that restricts the DOORS elements that are imported. If this entry is Standard view , all items are imported from the module.
Import Rules	This section shows a combination of known mappings (those with values in the Enterprise Architect column) and unmapped DOORS attributes associated with the connected module.

Field	Description
	<p>The mappings are defined by:</p> <ul style="list-style-type: none"> • The default mappings available to any new connection, or • Mappings copied and pasted from another connection. <p>Additionally, you can add your own mappings to the list.</p> <p>Within the list, the unmapped DOORS attributes comprise attributes in the connected DOORS module that do not appear in any mapping.</p>
Button	Description
Refresh Attributes	Refreshes the Import Rules list with any changes made to the available attributes in the linked DOORS module, since the last import.
Map	Click on an unmapped attribute and then this button to map ^[23] a single DOORS attribute to an Enterprise Architect Requirement field, one-to-one.
Combine	Click on an unmapped attribute and then this button to combine ^[24] the selected DOORS attribute with a second attribute and map the pair to an Enterprise Architect Requirement field.
Remove	Removes the mapping so that the DOORS attribute is free to be mapped to another Enterprise Architect field.
Mappings	<p>Copy - Copies the mappings to the clipboard so that they can be pasted into another Enterprise Architect model.</p> <p>Paste - Replaces the current DOORS attribute mappings with mappings from the Windows Clipboard. The list of DOORS attributes remains unchanged with the exception of new attributes that appear in new mappings.</p> <p>Default - Replaces the current DOORS attribute mappings with the default mappings. The list of DOORS attributes remains unchanged with the exception of new attributes that appear in new mappings.</p>
Save and Import	Saves the options defined on the dialog, and immediately initiates the import ^[27] .

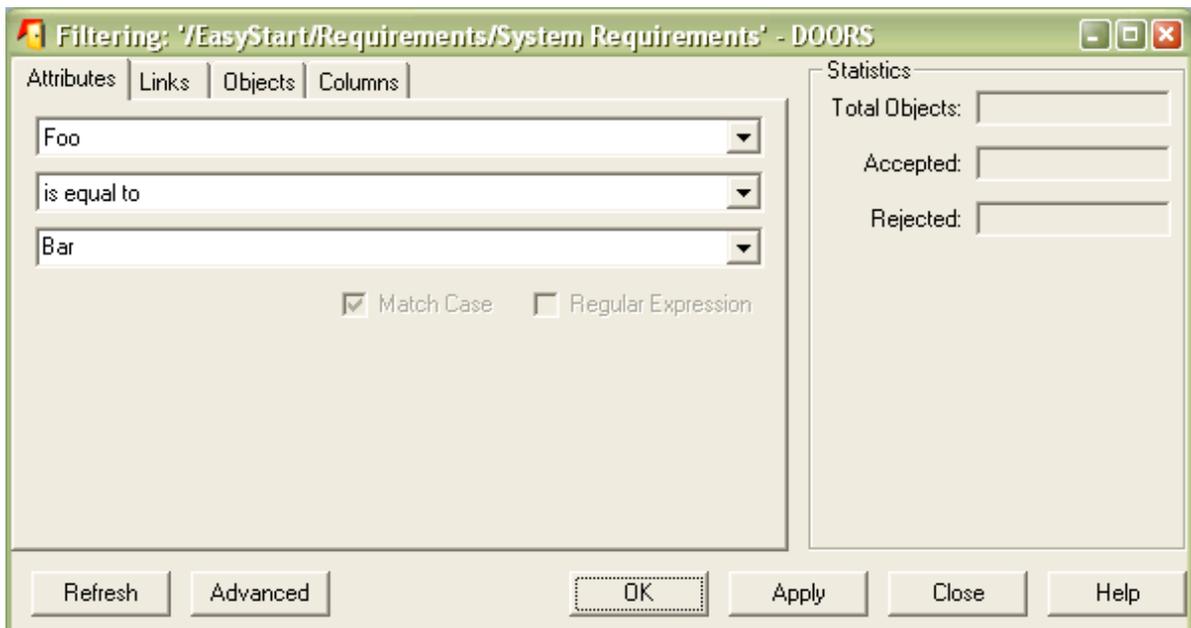
3.2 Filter By View



The **Filter by View** field lists a number of views defined in the DOORS module; each view applies a set of filters to the import process, restricting the objects imported from the DOORS module to a specific subset.

The **Standard View** option is the default, which imports all items from the DOORS module.

You configure the filters for each View in DOORS, on the **Filtering** dialog.



See the DOORS documentation for full details on how to configure and save filters.

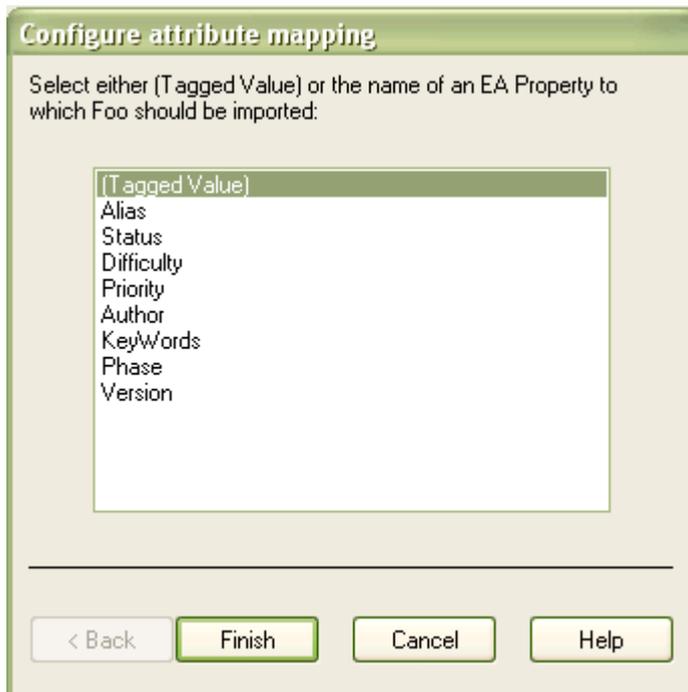
3.3 Configure Import Mapping

On the **Options** dialog, the **Map** button invokes the mapping wizard, which assists you in mapping attributes from your DOORS module to Enterprise Architect properties associated with the requirements in your Enterprise Architect package.

Select Target

On the **Options** dialog, click on the required unmapped DOORS requirement in the **Import Rules** panel, and click on the **Map** button.

The wizard then prompts you to select the target object into which the DOORS data is imported. You can select one of the Enterprise Architect properties associated with requirements (such as *Alias* or *Difficulty*) or select (*Tagged Value*) to indicate that the DOORS attribute(s) are to be stored in a Tagged Value attached to the Enterprise Architect requirement.



Click on the **Finish** button to map the requirement and return to the **Options** dialog.

3.4 Combine Attributes

On the **Options** dialog, the **Combine** button invokes the mapping wizard, which assists you in combining two DOORS attributes to be merged into an Enterprise Architect property associated with the Requirements in your Enterprise Architect package. The two attributes are then shown on the same line, with a separator character that you also define.

Procedure

1. Click on the first attribute in the **Import Rules** panel of the **Options** dialog, and click on the **Combine** button. The first **Configure attribute mapping** dialog displays, listing the uncombined DOORS attributes from the **Options** dialog.



2. Click on the second attribute to combine with the first, and click on the **Next** button. The second **Configure attribute mapping** dialog displays.



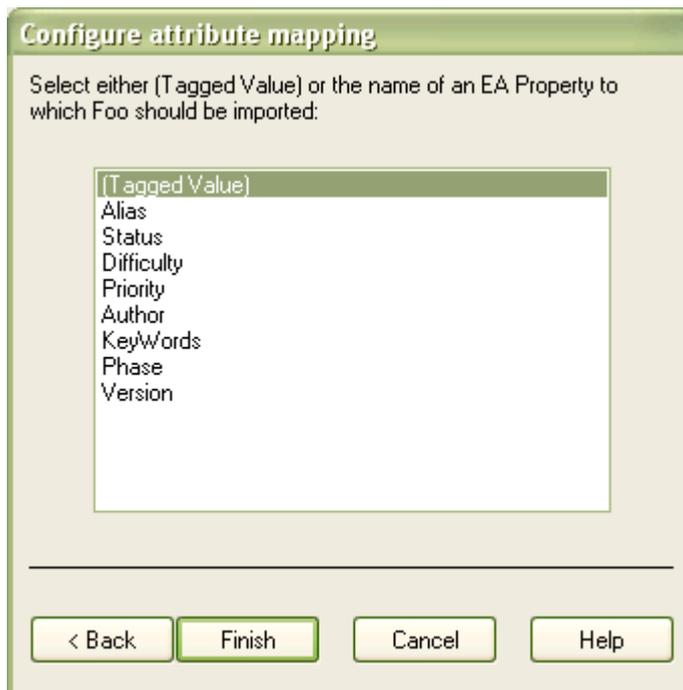
Configure attribute mapping

Specify the token that you want to separate these two fields:

Separator:

< Back Next > Cancel Help

3. In the **Separator** field, type one or more characters to insert between the two attributes. Click on the **Next** button. The third **Configure attribute mapping** dialog displays.



Configure attribute mapping

Select either (Tagged Value) or the name of an EA Property to which Foo should be imported:

(Tagged Value)
Alias
Status
Difficulty
Priority
Author
KeyWords
Phase
Version

< Back Finish Cancel Help

4. Click on **(Tagged Value)** or the name of the property to which to map the combined DOORS attributes.
5. Click on the **Finish** button. The **Options** dialog redisplay.

Import Rules:	
DOORS	Enterprise Architect
Absolute Number	
Cost	
Created By	(Tagged Value)
Created On	(Tagged Value)
Foo [; Bar]	(Tagged Value)
Industrial Area	
Last Modified On	(Tagged Value)
Object Identifier	
Object Level	
Object Number [; Object Heading]	Name
Object Parent	
Object Short Text	
Object Text	Notes
Old Id	
Suspect	
Verification Method	

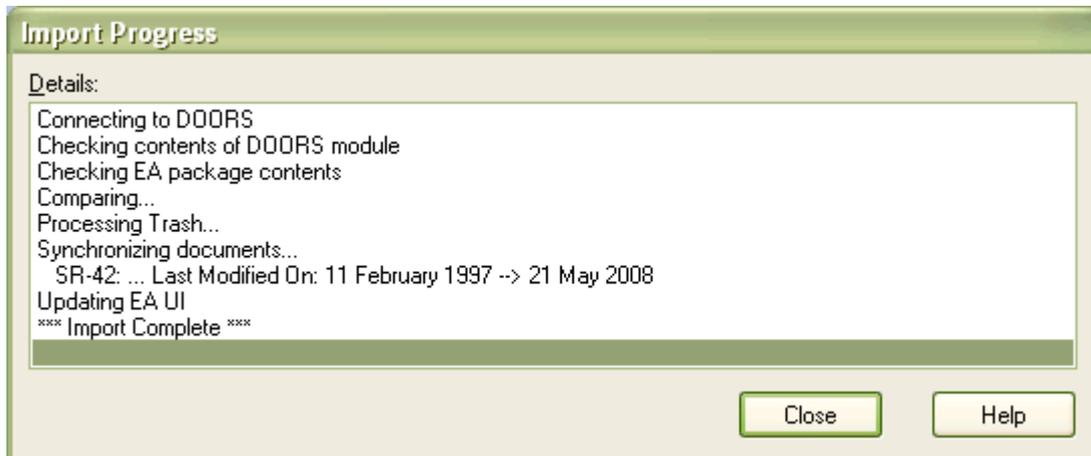
Notice that the two attributes are now displayed on the same line, separated by the characters you have specified, and mapped to the Enterprise Architect property.

3.5 Import

To import the contents of a DOORS module into an Enterprise Architect package:

- Select the package in Enterprise Architect to be updated
- From the Enterprise Architect main menu select: **Add-Ins | Doors | Import**.

The **Import Progress** dialog displays and the system starts to update the package in Enterprise Architect:



Click on the **Close** button to clear this window.

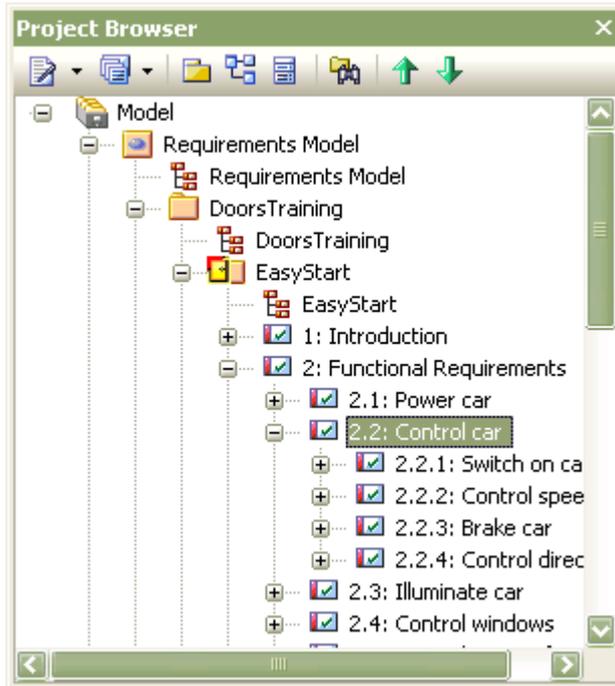
Note:

If the package you have selected is locked or checked-in under version control, the import cannot proceed. The following message dialog displays:



Click on the **OK** button to close the dialog.

The **Project Browser** in Enterprise Architect should now show the hierarchy of objects imported from the DOORS Module:



See Also

- [Synchronize DOORS Module and Enterprise Architect](#) ²⁹

3.6 Synchronize DOORS Module and Enterprise Architect

Once a DOORS module has been imported into Enterprise Architect, and further modifications have been made to the module in DOORS, the module can simply be [re-imported](#)^[27] to update and synchronize the data in the Enterprise Architect package.

In cases where:

- New entries are made in DOORS - these are copied to Enterprise Architect and existing Enterprise Architect entries are renumbered as required to reflect the alterations to the hierarchy.
- Attributes data has changed - the change is updated in the Enterprise Architect Requirements and explanatory notes are listed in the **Import Progress** dialog.
- Objects are deleted or filtered out - the Requirements in Enterprise Architect representing the deleted DOORS objects are placed in a separate (Trash) package for you to process.
- Objects moved into the Trash package due to a previously-filtered import are detected for re-import. The objects are restored from the Trash package..
- There are deleted or unselected DOORS attributes - these remain attached to the corresponding Enterprise Architect Requirements as Tagged Values.

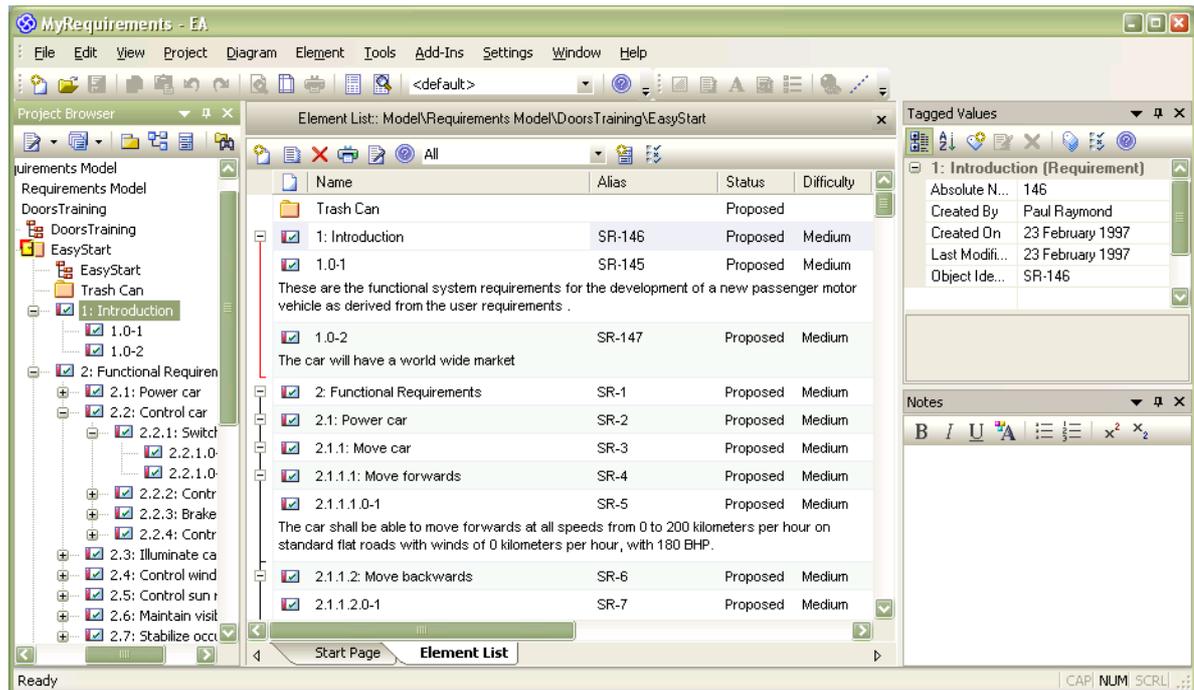
3.7 View Requirements in Enterprise Architect

As Enterprise Architect provides dockable windows, viewing of requirements can be set up to mimic the general structure used in DOORS.

The key windows used for viewing requirements in Enterprise Architect are:

- **Project Browser**
- **Element List**
- **Notes** window
- **Tagged Values** window

The following example shows these windows docked to reflect the DOORS module window:



By default Enterprise Architect's **Project Browser** is located on the right of the screen. The **Project Browser** is similar to the **Module Explorer** in DOORS (it displays the hierarchy view). The **Project Browser** can be easily docked to the left of the screen to reflect the position of the hierarchy view in DOORS.

The **Element List** can be used to view the Requirement element text details instead of the diagram view. This is accessible from the main menu by selecting the **View | Element List** option.

The DOORS attribute *Object Text* is imported into Enterprise Architect as an *Element Note*. The **Notes** field can also be viewed and edited using the **Notes** window. This is accessible from the main menu by selecting the **View | Notes** menu option.

The user-definable attributes in DOORS are imported as Tagged Values in Enterprise Architect. The **Tagged Values** window is accessible from the main menu by selecting the **View | Tagged Values** menu option.

For information on saving this setup see: [Save an Enterprise Architect View](#) ³⁰

3.7.1 Save an Enterprise Architect View

Save a View

Once a view has been set up for working with requirements in Enterprise Architect, it can be saved as either:

- A predefined view selectable by the user. or
- The default view for the user's copy of Enterprise Architect.

Save a Layout

To save the current view as a custom layout, select the **View | Visual Layouts | User Layouts** menu option. The **Custom Layouts** dialog displays:



To save the current layout:

1. Select the layout number it is to be saved as.
2. Select the **Save Layout to Selected** option .

Load a Layout

To load a custom layout, select the **View | Visual Layouts | User Layouts** menu option.

1. Select the layout to load.
2. Select the **Load Selected Layout** option.

Set Default View

To save a view as the default layout simply adjust the view and close Enterprise Architect.

Note:

If you have multiple copies of Enterprise Architect open, ensure the last instance of Enterprise Architect is set in the layout you have set up. On restarting Enterprise Architect this is the default layout loaded.

3.8 Trace Requirements to Other UML Artifacts

Enterprise Architect has its own [Requirements Management](#) facilities, which you can use to create, edit, link and monitor your Requirements. Of particular use in monitoring the use and realization relationships of Requirements and Use Cases, Features and Classes in your model are the:

- [Requirements Hierarchy](#) and
- [Dependency Report](#).

You can also examine and edit the relationships of Requirements using the Enterprise Architect [Relationships Matrix](#) and [Relationships Window](#).

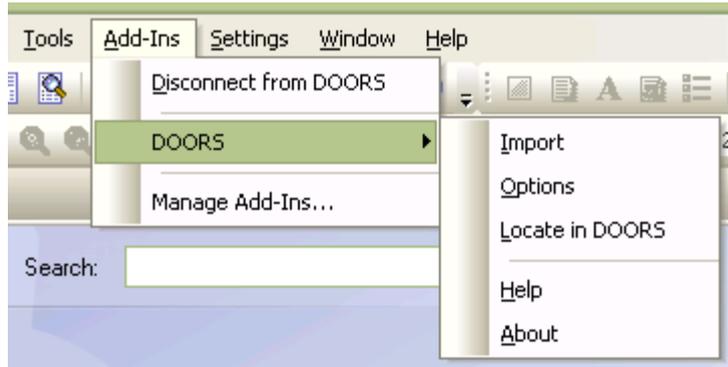
3.9 Locate Enterprise Architect Requirement in DOORS

The MDG Link for DOORS enables you to select a Requirement in Enterprise Architect and locate that Requirement in the source DOORS module (provided that the connection between the package and module still exists).

For this facility to work, the *Absolute Number* attribute in DOORS must be mapped and synchronized with an Enterprise Architect property.

To locate the Requirement:

1. Click on the Requirement in the Enterprise Architect **Project Browser**.
2. Select the **Add-Ins | DOORS | Locate in DOORS** menu option.



3. If the DOORS module is not open, the MDG Link for DOORS opens it. The module list displays with the Requirement selected.

Note:

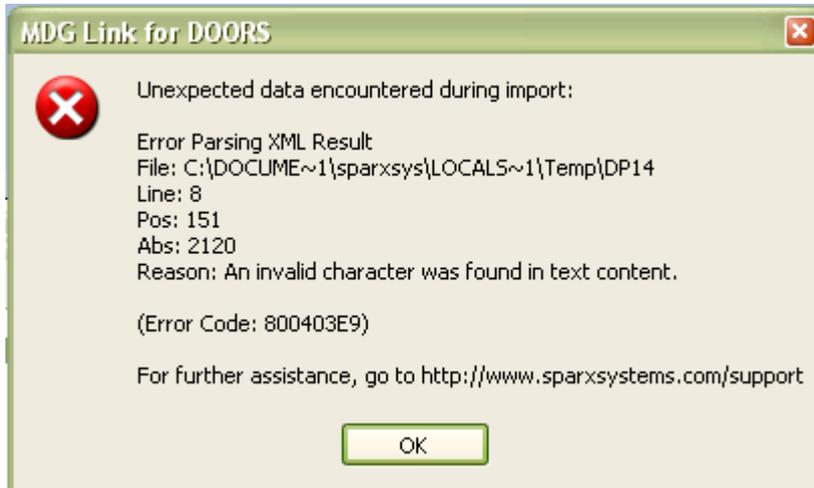
If the DOORS module is already open, it does not necessarily come to the front of the display. You might therefore have to select DOORS from the tabs at the bottom of the Windows Desktop.

4 Troubleshooting

During the import of data from DOORS to Enterprise Architect, the MDG Link for DOORS performs data validation and might detect incorrect data. In this case, it assists you in identifying and correcting the error.

Error Detection and Correction

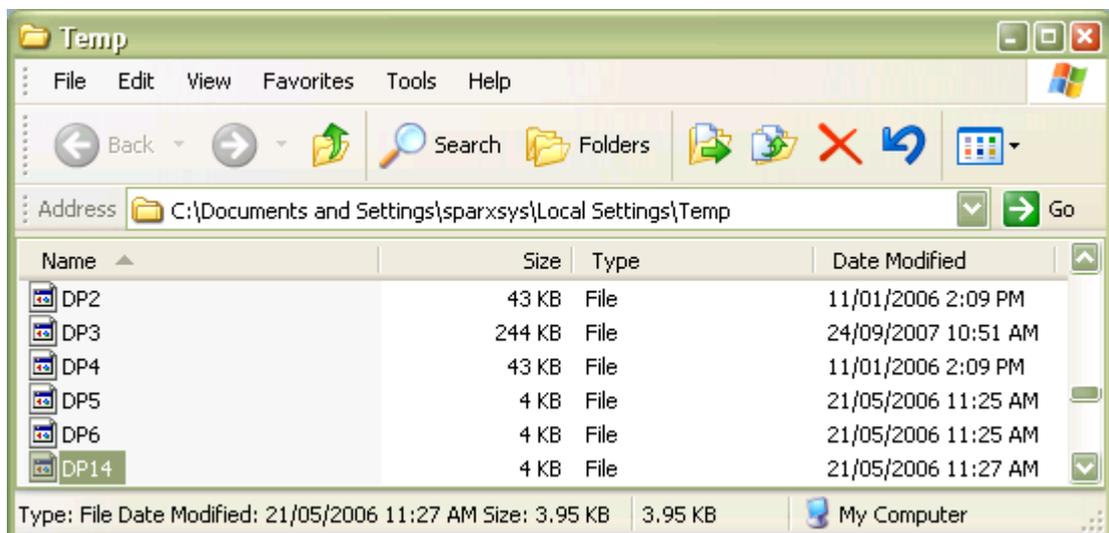
If MDG Link for DOORS detects a data error during an import, the following error dialog displays:



1. Note the error reason, and the filename, line number and character position that identify the location of the error.
2. Click on the **OK** button. A prompt displays, to help you locate and open the XML file containing the error.



3. Click on the **Yes** button. Windows Explorer opens for the *Temp* folder, highlighting the XML file containing the error.



4. Open the file in your preferred XML or text editor, and locate the error using the information from the original error message.

```
<a9>Overview of the Document□</a9>
```

5. Note the error (in this case, an invalid character), then return to the DOORS module and locate and correct the error there.

ID	Requirements
PR-6	1.5 Overview of the Document□

6. After you have corrected the error and saved the changes, repeat the import.

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