



EA connector | for JIRA®



# Installation Guide

Version 3.0

 **deiser** | Xpress Learning

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## 1. INTRODUCTION

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The aim of this document is to explain in detail what should be the steps for installing and configuring the *EA Connector For JIRA®* software, to function properly.

Once the installation and configuration are completed, it will be available for users of Enterprise Architect and JIRA® the integration, meaning, the possibility of export, import and maintain synchronized several sets of elements between the two tools during its entire life cycle.

## 2. INSTALLATION

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### 1. Hardware and Software requirements:

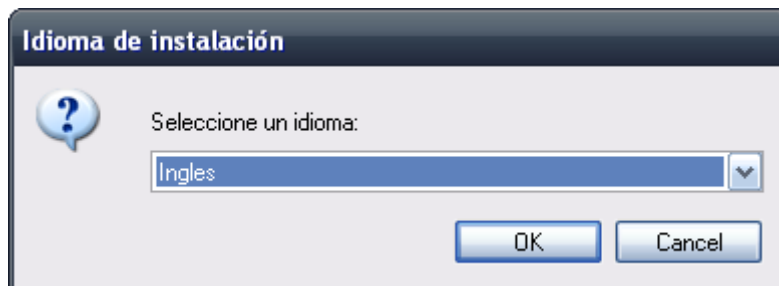
- Intel® Pentium III 450 Mhz class processor (or better).
- Microsoft® Windows Server 2003; Windows Server 2008; Windows 2000 SP3; Windows XP SP2; Windows Vista; Windows 7.
- RAM 96 MB (minimum); 256 MB (recommended).
- 5 MB Hard Disk space available.
- Atlassian JIRA® 4.x instance (or higher).
- Enterprise Architect v7.0 (or higher) installed.
- Microsoft .NET Framework 3.5 SP1

### 2. Installation steps:

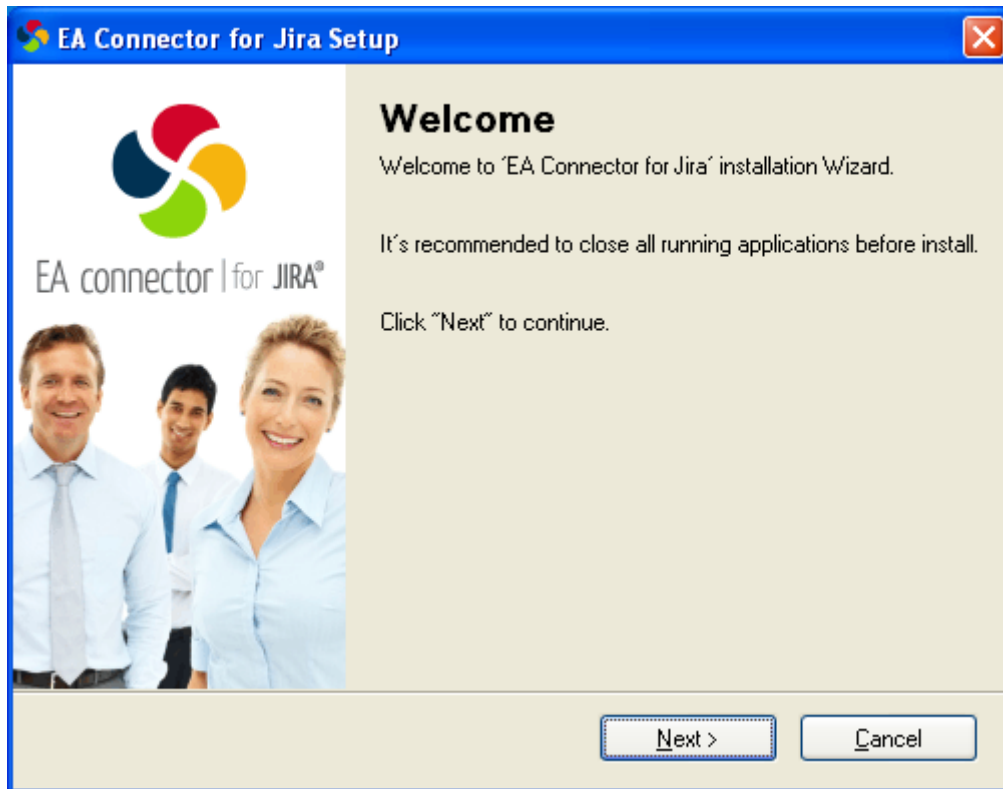
1. Execute the program “EAConnector4Jira.exe”. If you are installing under Windows Vista / Windows 7, execute the installer “as Administrator”:



2. Select the language. This option applies to both, the installer program and the Add-In. However, the Add-In language can be changed later at any time:



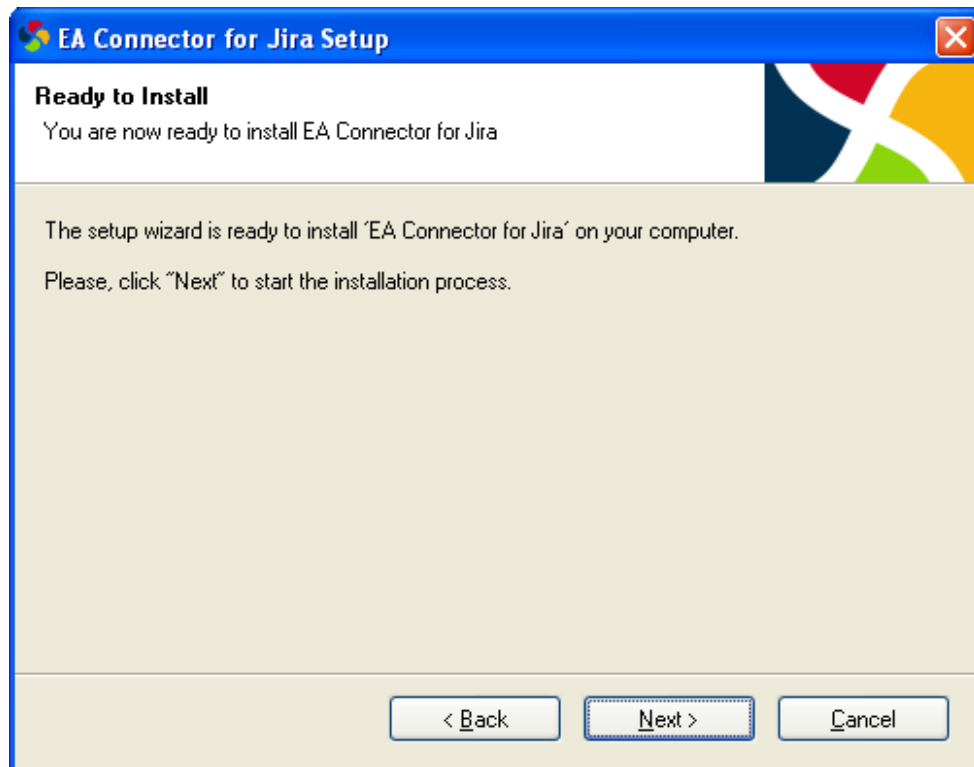
3. In the Welcome screen, click “Next”:



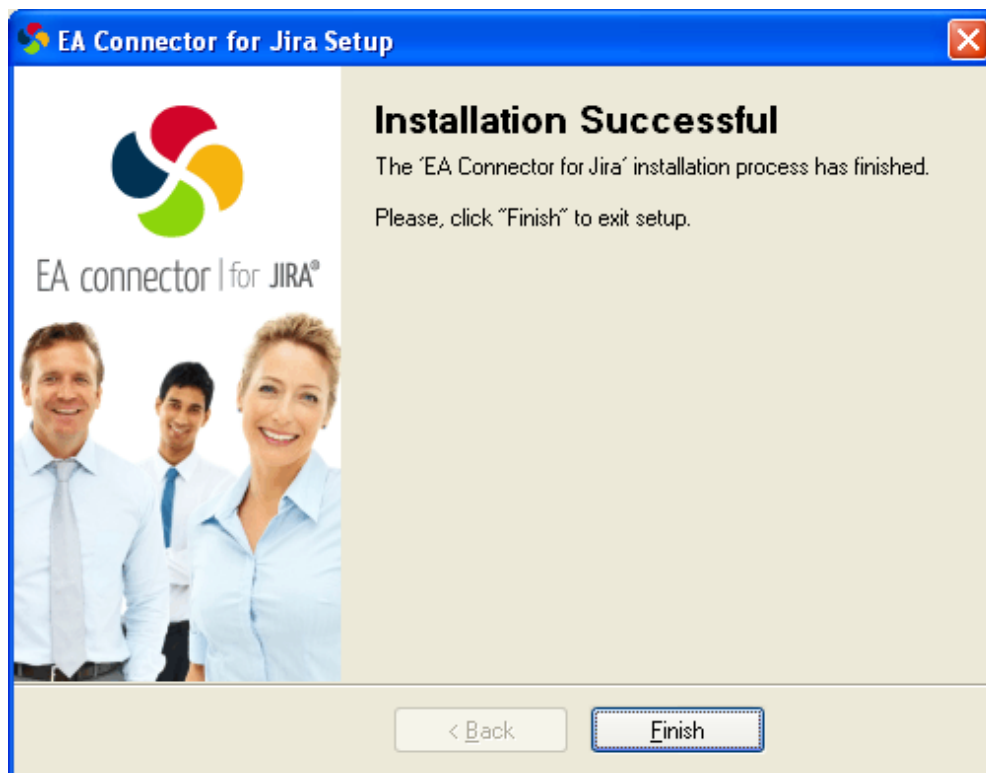
4. In the License Agreement screen, after carefully reading the license agreement, select "I accept the terms of the license agreement" if necessary and click "Next":



5. In the Ready to Install screen, click “Next” to proceed to install the Add-In:

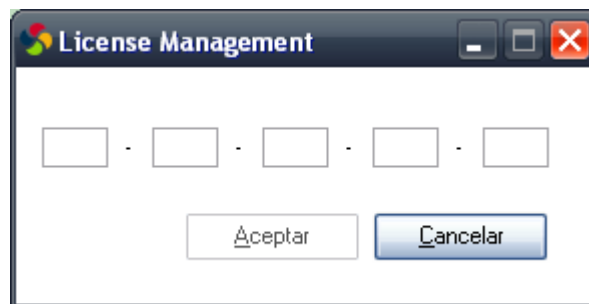


6. Once the installation is completed click “Finish”:



### 3. Steps to activate the license:

1. In order to activate the license, the first step is to open the menu “Add-In | EA Connector for JIRA® | Add License Number”
2. In the Activation screen insert the License Number and click “Enter”:



3. If the activation is successfully, the following message is displayed:



## 3. CONFIGURATION

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### JIRA® CONFIGURATION

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#### 1. Setting custom fields and issue types for the Project.

Create one custom field of type “Read-only Text Field” and associate it with the screen display according to the scheme designed for the project. The name of the custom field could be, for example:

- **EAGUID**

It's recommended that the custom field is hidden, users should not be allowed to edit this field (not associated with the message creation or editing).

All fields must be associated with the project:

**Choose applicable context**

Please choose the contexts where this configuration will be applicable. Note that this will apply to only issues with the selected issue type as above.

**Global context.** Apply to all issues in JIRA.

**Apply to issues under selected projects**

Proyectos:

SOP-T-Systems  
SOP-UNED  
SOP-Universidad de Oviedo  
SUP - RETAIL\_SPW  
ASC-Gestión de Pruebas

Apply for all issues in any selected projects

In order to create issue types you should follow the manufacturer (Atlassian) specifications, taken into account the relationship that will be mapped later with the EA element Types and Stereotypes.

## 2. Enabling the RCP plugin.

To invoke JIRA operations remotely, you should ensure that the RPC plugin is enabled on the JIRA installation you are targeting. First you need to check if the Accept Remote API Calls has been enabled in 'General Configuration' under 'Global Settings' in the left-hand menu:

Options	
Allow users to vote on issues	ON
Allow users to watch issues	ON
Allow unassigned issues	ON
Cache issues	ON
External user management	OFF
Logout Confirmation	Never
Use Gzip Compression	OFF
Accept remote API calls	ON

[Edit Configuration](#)

Then you need to enable the JIRA RPC Plugin in 'Plugins' under 'System' in the left-hand menu:

Installed Plugins	RPC JIRA Plugin																												
<a href="#">GreenHopper</a> 16 module(s).	<p><b>Description:</b> The standard JIRA RPC services, both SOAP and XML-RPC.  <b>Vendor:</b> <a href="#">Atlassian Software Systems Pty Ltd</a>  <b>Plugin Version:</b> 3.13.1  <b>JIRA Version:</b> 3.13</p> <table border="1"> <tbody> <tr><td>Token Manager (tokenManager)</td><td></td></tr> <tr><td>Project Service (projectService)</td><td></td></tr> <tr><td>Issue Constants Service (issueConstantsService)</td><td></td></tr> <tr><td>Scheme Service (schemeService)</td><td></td></tr> <tr><td>Issue Service (issueService)</td><td></td></tr> <tr><td>Search Service (searchService)</td><td></td></tr> <tr><td>User Service (userService)</td><td></td></tr> <tr><td>Admin Service (adminService)</td><td></td></tr> <tr><td>Add a version bean (addVersion)</td><td></td></tr> <tr><td>SOAP Service (soapService)</td><td></td></tr> <tr><td>SOAP Utils (soapUtilsBean)</td><td></td></tr> <tr><td>Project Role Service (projectRoleService)</td><td></td></tr> <tr><td>System SOAP Services (soap) The standard JIRA SOAP services.</td><td><a href="#">Disable module</a></td></tr> <tr><td>System XML-RPC Services (xmlrpc) The standard JIRA XML-RPC services.</td><td><a href="#">Disable module</a></td></tr> </tbody> </table>	Token Manager (tokenManager)		Project Service (projectService)		Issue Constants Service (issueConstantsService)		Scheme Service (schemeService)		Issue Service (issueService)		Search Service (searchService)		User Service (userService)		Admin Service (adminService)		Add a version bean (addVersion)		SOAP Service (soapService)		SOAP Utils (soapUtilsBean)		Project Role Service (projectRoleService)		System SOAP Services (soap) The standard JIRA SOAP services.	<a href="#">Disable module</a>	System XML-RPC Services (xmlrpc) The standard JIRA XML-RPC services.	<a href="#">Disable module</a>
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<a href="#">JIRA Charting Plugin</a> 25 module(s).																													
<a href="#">User Format</a> 6 module(s).																													
<a href="#">Admin Menu Sections</a> 67 module(s).																													
<a href="#">Issue Bucket Plugin</a> 6 module(s).																													
<a href="#">Custom Field Types &amp; Searchers</a> 36 module(s).																													
<b>RPC JIRA Plugin</b> 14 module(s).																													
<a href="#">Web Resources Plugin</a> 55 module(s).																													
<a href="#">Issue Operations Plugin</a> 18 module(s).																													
<a href="#">Workflow Plugin</a> 20 module(s).																													
<a href="#">JIRA Toolkit Plugin</a> 30 module(s).																													

**⚠** If the plugin does not appear as above then your RPC jar has not been properly installed. Download the jar from [the repository](#) and copy it to the atlassian-jira/WEB-INF/lib folder of your JIRA installation. Perform a restart and your plugin should appear.

Your server should now be ready to accept remote procedure calls.

## ENTERPRISE ARCHITECT CONFIGURATION

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### 1. Setting up the JIRA® connection:

1. Open the menu “Add-Ins | EA Connector for Jira | Options”. The following window appears:



The screenshot shows a dialog box titled "Connection options Enterprise Architect <--> Jira". It contains three text input fields: "Jira Base URL:", "Jira SOAP Service URL:", and "Settings Database:". The "Settings Database" field has a browse button (...). At the bottom right, there are "Ok" and "Cancel" buttons.

2. Complete the form data with:

- The Jira Base URL
- The Jira SOAP Service URL
- The path to the settings database, for types and fields mappings storage. You will find an empty database at the Add-In's installation folder (usually C:\Program Files\Sparx Systems\EA\EAConn4Jira).

**IMPORTANT:** It is possible to share a database between multiple users, placing it in a shared folder where all of them have access.

Below is an example of the Options window completed:



The screenshot shows the same dialog box as above, but with the following data entered into the fields: "Jira Base URL:" is "http://demo.madeira20.com/processmanager", "Jira SOAP Service URL:" is "http://demo.madeira20.com/rpc/soap/jirasoapservice-v2?wsdl", and "Settings Database:" is "D:\BBDD\ConfigurationDataBase.mdb". The "Ok" and "Cancel" buttons are visible at the bottom.

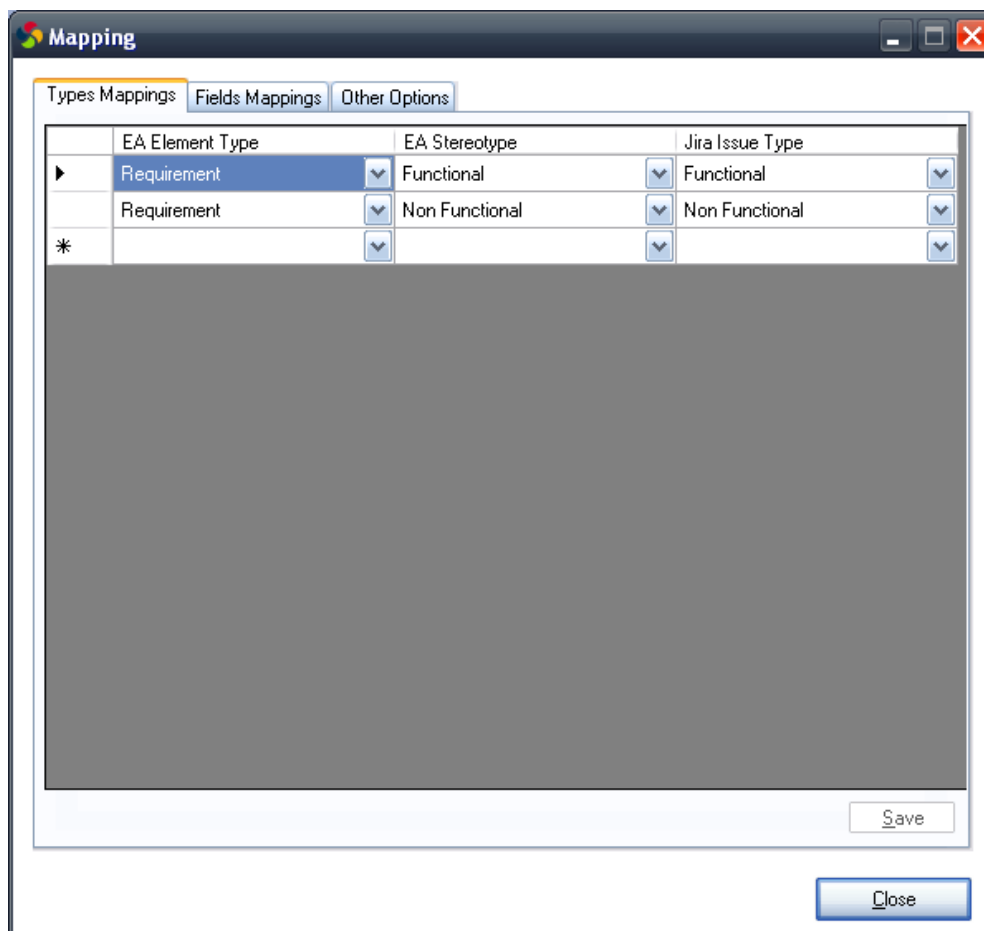
3. Click “OK” button to save the changes and continue.

## 2. Elements Mapping between EA and JIRA®:

1. Open the menu “Add-Ins | EA Connector for Jira | Mappings...”.
2. If you have not authenticated before, you will see a window asking the Jira Administrator user data :

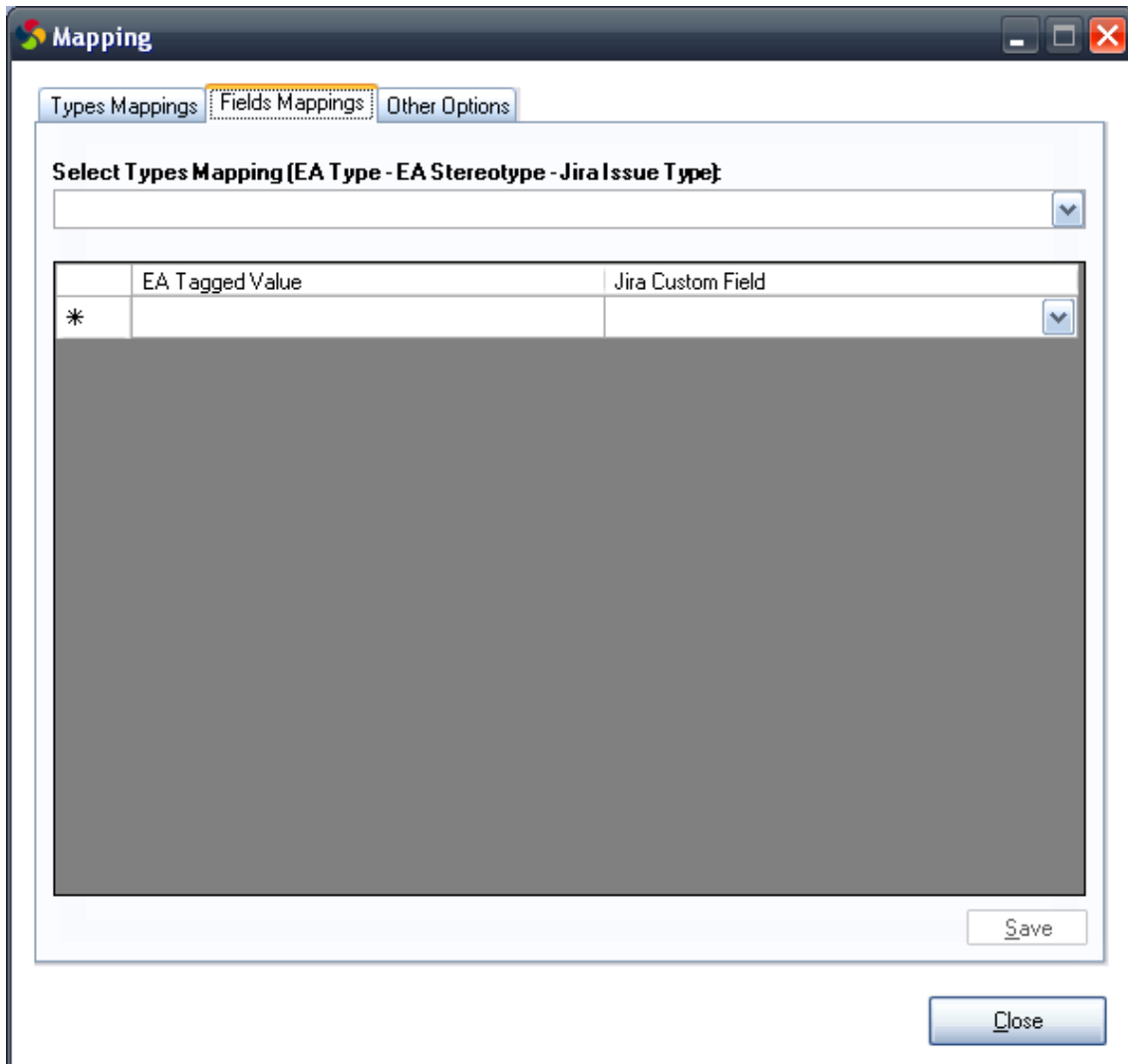


3. Enter authentication data and click “Connect”. If the authentication is successfully, the window for establishing the mapping through 3 tabs will appear. First, the Types mapping:



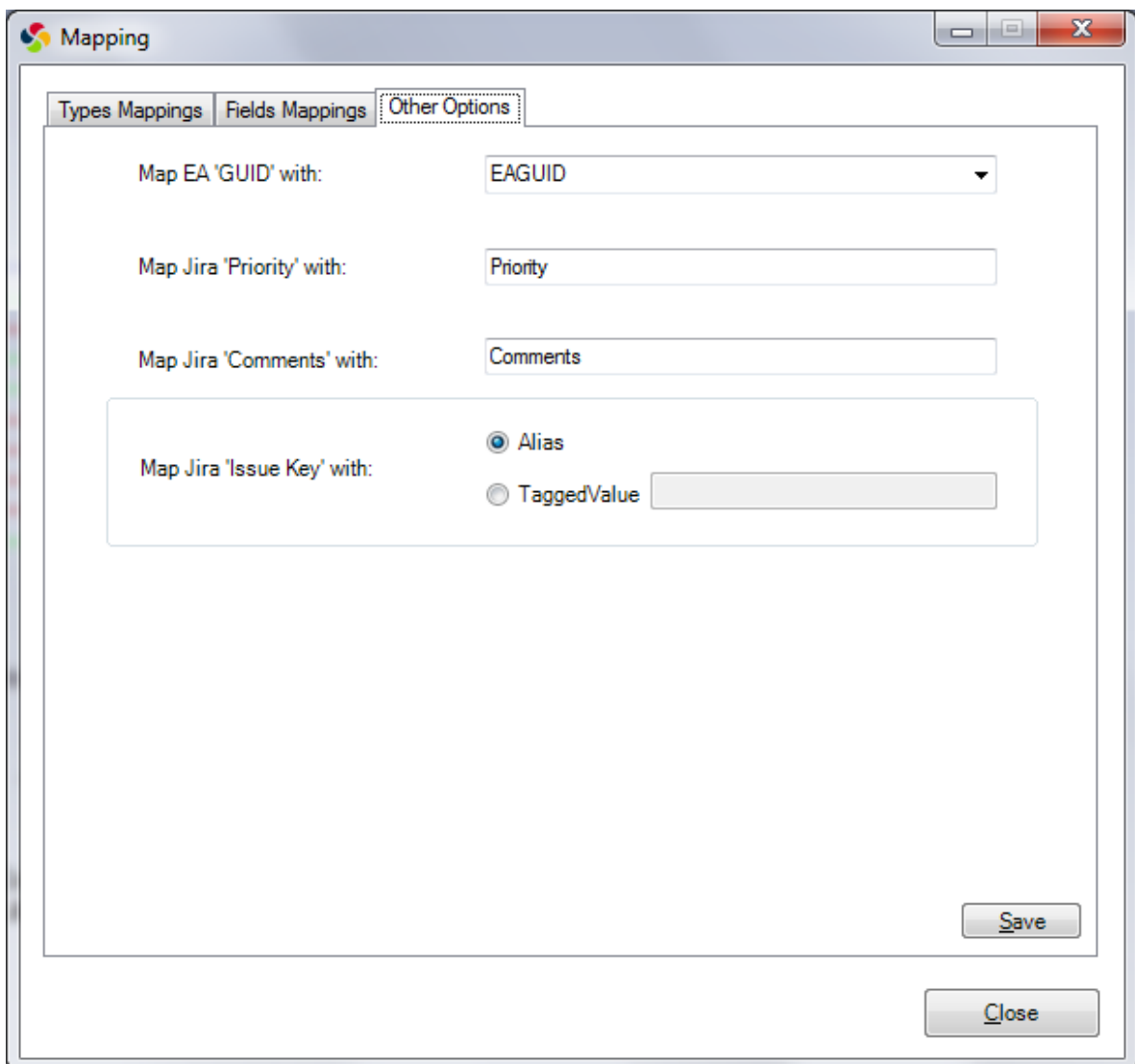
In this Windows is set in each row, a new mapping between EA elements Types / Stereotypes and its correspondence with Issue Types in Jira. These mappings can be completed in the next tab with the corresponding Fields mapping.

4. Now, the Fields mapping:



In this window is established, for each Types Mapping selected in the dropdown, a set of mappings between Tagged Values of EA and its correspondence with Custom Fields of Jira.

## 5. Finally, other mapping options:



The screenshot shows a window titled "Mapping" with three tabs: "Types Mappings", "Fields Mappings", and "Other Options". The "Other Options" tab is active. It contains four mapping configurations:

- "Map EA 'GUID' with:" followed by a dropdown menu showing "EAGUID".
- "Map Jira 'Priority' with:" followed by a text input field containing "Priority".
- "Map Jira 'Comments' with:" followed by a text input field containing "Comments".
- "Map Jira 'Issue Key' with:" followed by two radio button options: "Alias" (which is selected) and "TaggedValue" (which is unselected). The "TaggedValue" option has an empty text input field next to it.

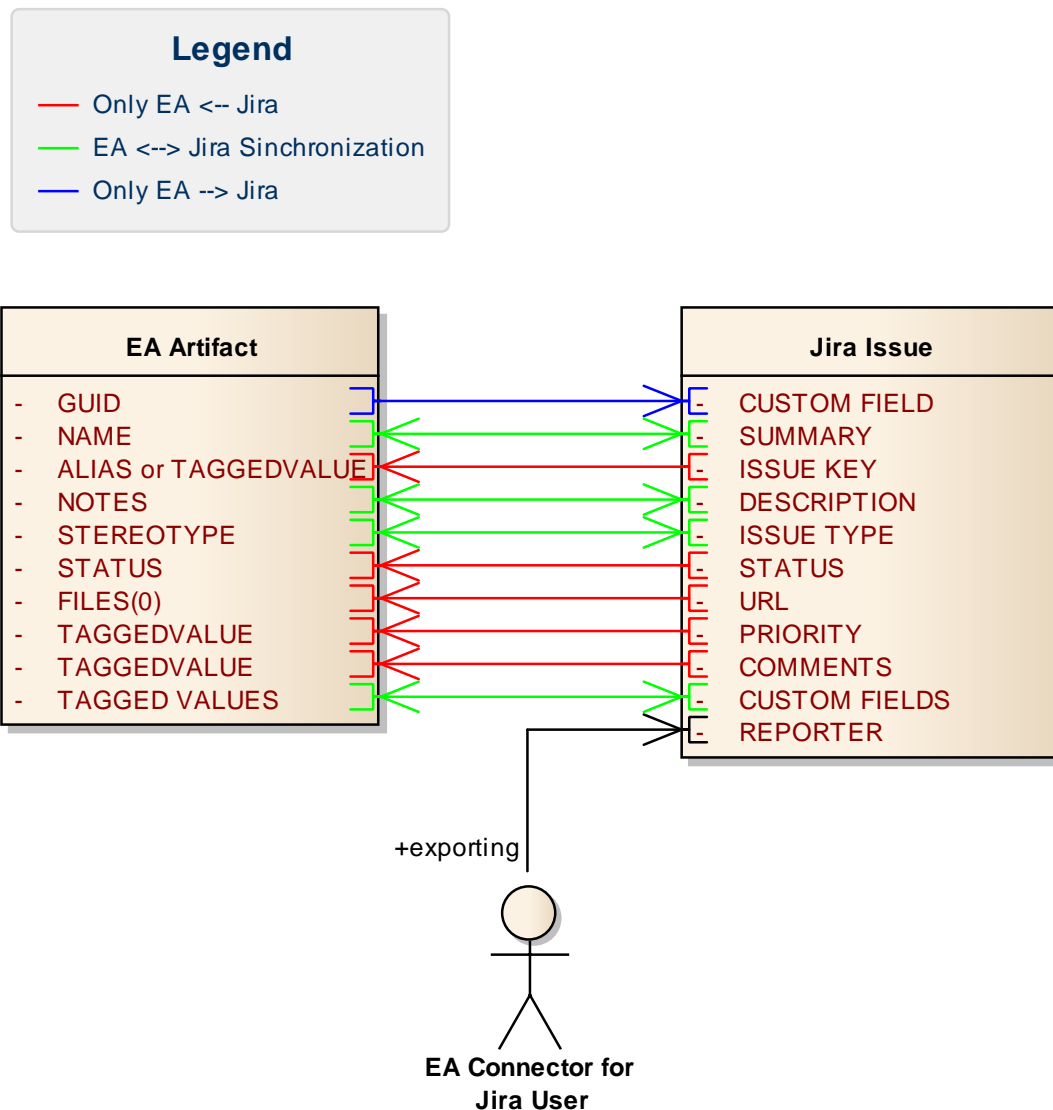
At the bottom right of the window, there are two buttons: "Save" and "Close".

In this window is established:

1. The Jira Custom Field that will store the associated EA element GUID.
2. The Tagged Value that will store the Priority of the Issue.
3. The Tagged Value that will store the Comments of the Issue.
4. The place where the Jira "Issue Key" will be stored on each EA element. You could choose between the "Alias" property or a specific Tagged Value.

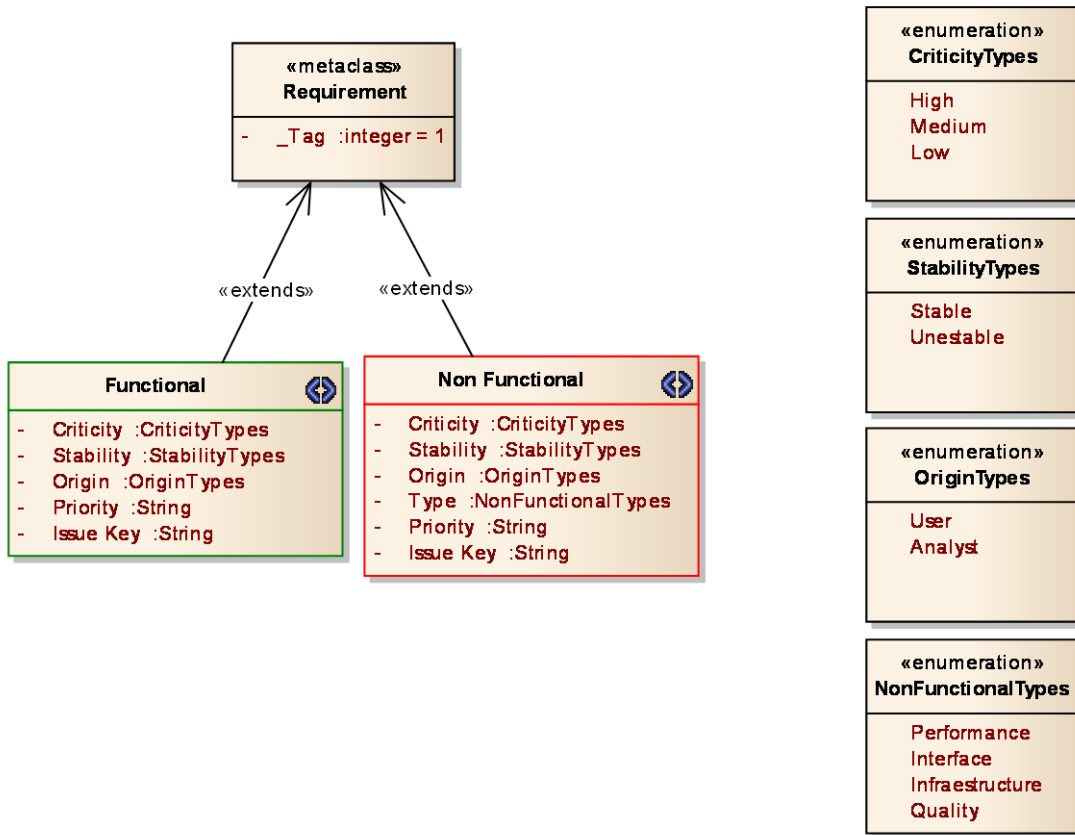
### 3. Examples and recommendations for elements mapping between EA and JIRA®:

The “EA Connector for Jira®” add-in uses the following mapping by default:

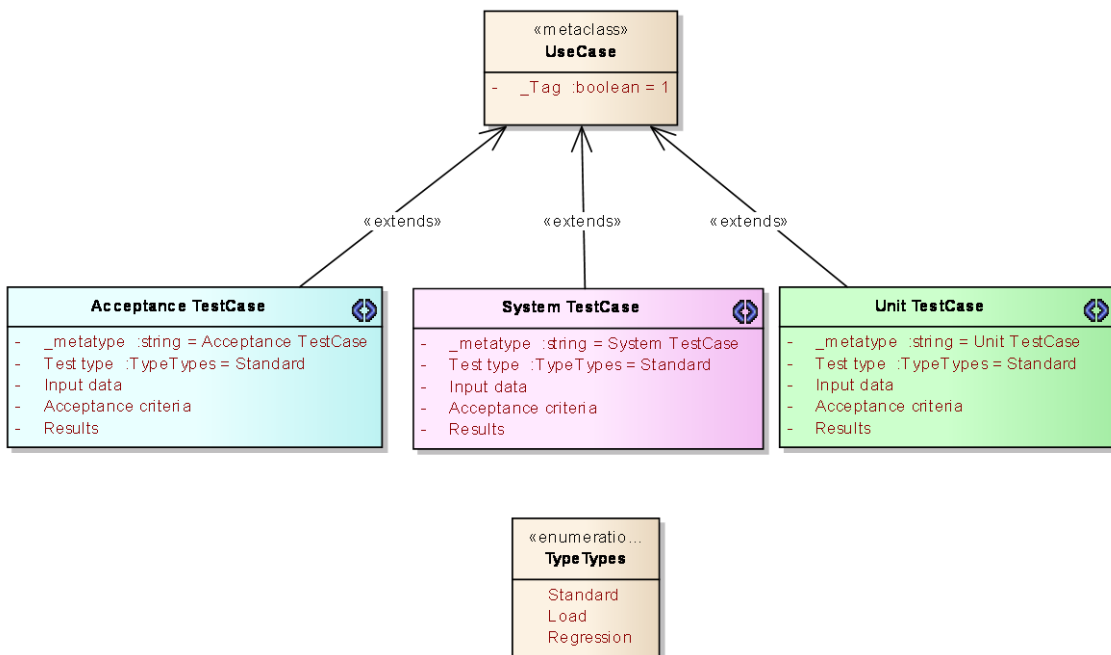


Therefore, we recommend creating an EA UML profile that contains the definition of EA as many stereotypes as there are Issue Types in the JIRA® project to integrate. These Stereotypes should contain as many “Tagged Values” as “Custom Fields” have the Issue, of the corresponding type.

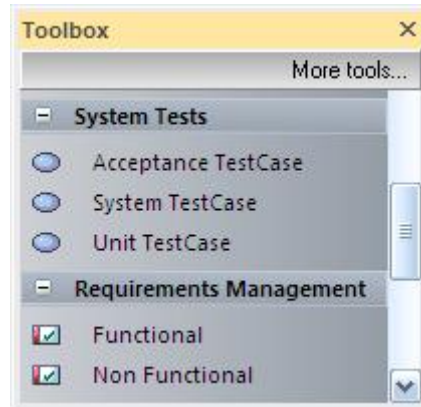
Below is an example of defining a UML profile for Management of Requirements, which includes two Stereotypes that are mapped with two JIRA® Issue Types: **Functional** and **Non-Functional**.



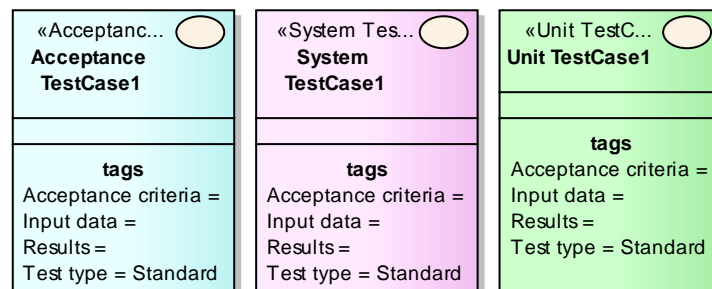
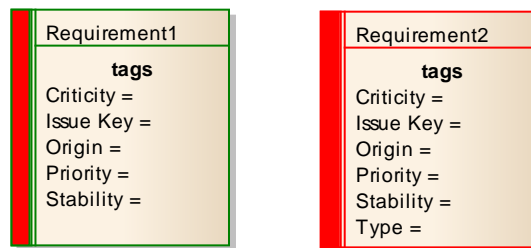
Another example, this time for Software Test Management:



With the addition of both UML Profiles to the repository, there would be one like this Toolbox:



Once instantiated these elements in a diagram, it looks like this:



The last step would be to define the Jira Issue Types and Custom Fields as necessary to establish the mapping as described in point 2, Elements Mapping between EA and JIRA® of this chapter.

Summary - The tasks to be performed to properly configure the mapping between JIRA® and Enterprise Architect would be:

ENTERPRISE ARCHITECT	JIRA®
Create a UML Profile that contains the required artifacts types (Stereotypes) to map with the JIRA® Issue Types.	Create the Issue Types, to map with with EA Stereotypes.
Define Artifacts Tagged Values in the UML Profile, to map with JIRA® Custom Fields.	Create needed Custom Fields to map with the Tagged Values of EA Artifacts.
Define the possible statuses of the Artifacts in “Settings   General Types   Status Types” in exact accordance with JIRA® Workflow.	Define the Workflow states, in exact accordance with the statuses of the EA Artifacts.

#### 4. Language modification

1. Open the Add-In Menu | EA Connector for Jira | Change Language...”:
1. Define language and click “Accept”:



## 4. UNINSTALL

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### Introduction

Procedure for uninstalling the EA module of “EA Connector for JIRA®”.

### Description

1. Execute the program “EAConnector4Jira.exe”:
2. Go to “Start → All Programs” you may find an entry called “EA Connector for JIRA®” which contains a shortcut to the uninstall program:



3. When you run the uninstaller, the following screen is displayed, click “Next”:



4. When the “Uninstall Successful” Windows appears, click on “Finish” button:



5. The EA module has been removed from the system.



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