Installation Guide
Version 3.0
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1. INTRODUCTION

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

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”:

   ![EAConnector4Jira.exe Setup Application]

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:

   ![Idioma de instalación]

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”: 

   SOFTWARE LICENSE

   Deisar is willing to license the Software “EA Connector for Jira” (the “Software”) to you, or the organization (if any) on whose behalf you are accepting the license, if you accept all the terms of this License. Please read the terms carefully, and indicate your acceptance at the end by checking the “I agree to the terms of this license agreement” checkbox and then selecting the “Next” button. If you do not agree to any of these terms, do not check the license terms checkbox, in which case you will not be permitted to install, access, copy or use the Software.

   1. License

      1.1 I hold to the payment of the product, Deisar grants you the license for the utilization of the same one in the terms agreed in the purchase, to use the number of copies of the
5. In the Ready to Install screen, click “Next” to proceed to install the Add-In:

The setup wizard is ready to install ‘EA Connector for Jira’ on your computer.
Please, click “Next” to start the installation process.

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”:

   ![License Management](image1)

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

   ![License Management](image2)
3. CONFIGURATION

JIRA® CONFIGURATION

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:

<table>
<thead>
<tr>
<th>Choose applicable context</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

- Global context: Apply to all issues in JIRA.
- Projects: SOP-T-Systems
- SOP-UNED
- SOP-Universidad de Oviedo
- SLIP – RETAIL SPA
- ABC-Gestion de Preguntas

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:

<table>
<thead>
<tr>
<th>Options</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Allow users to vote on issues</td>
<td>ON</td>
</tr>
<tr>
<td>Allow users to watch issues</td>
<td>ON</td>
</tr>
<tr>
<td>Allow unassigned issues</td>
<td>ON</td>
</tr>
<tr>
<td>Cache issues</td>
<td>ON</td>
</tr>
<tr>
<td>External user management</td>
<td>OFF</td>
</tr>
<tr>
<td>Logout Confirmation</td>
<td>Never</td>
</tr>
<tr>
<td>Use Gzip Compression</td>
<td>OFF</td>
</tr>
<tr>
<td>Accept remote API calls</td>
<td>ON</td>
</tr>
</tbody>
</table>

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

- **JIRA RPC Plugin**
  - Description: The standard JIRA RPC services, both SOAP and XML-RPC.
  - Vendor: Allegian Software Systems Pvt. Ltd
  - Plugin Version: 3.13.1
  - JIRA Version: 3.13
  - 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 Util (soapUtilBean)
  - Project Role Service (projectRoleService)

⚠️ 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

1. Setting up the JIRA® connection:

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

   ![Connection options Enterprise Architect --> Jira](image)

   Jira Base URL: 
   Jira SOAP® Service URL: 
   Settings Database: 

   ![Ok | Cancel](image)

   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:

   ![Connection options Enterprise Architect --> Jira](image)

   Jira Base URL: http://demo.madera20.com/processmanager
   Settings Database: D:\BDD\ConfigurationDataBase.mdb

   ![Ok | Cancel](image)

   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:

   ![System Authentication Window]

   Jira Admin user: [Input field]
   Jira Admin password: [Input field]

   [Connect] [Cancel]

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:

   ![Mapping Window]

<table>
<thead>
<tr>
<th>EA Element Type</th>
<th>EA Stereotype</th>
<th>Jira Issue Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requirement</td>
<td>Functional</td>
<td>Functional</td>
</tr>
<tr>
<td>Requirement</td>
<td>Non-Functional</td>
<td>Non-Functional</td>
</tr>
<tr>
<td>*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   [Save] [Close]
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:

![Mapping Window]

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®:

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

<table>
<thead>
<tr>
<th>Legend</th>
</tr>
</thead>
<tbody>
<tr>
<td>Only EA &lt;-- Jira</td>
</tr>
<tr>
<td>EA &lt;-&gt; Jira Synchronization</td>
</tr>
<tr>
<td>Only EA --&gt; Jira</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EA Artifact</th>
<th>Jira Issue</th>
</tr>
</thead>
<tbody>
<tr>
<td>- GUID</td>
<td>- CUSTOM FIELD</td>
</tr>
<tr>
<td>- NAME</td>
<td>- SUMMARY</td>
</tr>
<tr>
<td>- ALIAS or TAGGEDVALUE</td>
<td>- ISSUE KEY</td>
</tr>
<tr>
<td>- NOTES</td>
<td>- DESCRIPTION</td>
</tr>
<tr>
<td>- STEREOTYPE</td>
<td>- ISSUE TYPE</td>
</tr>
<tr>
<td>- STATUS</td>
<td>- STATUS</td>
</tr>
<tr>
<td>- FILES(0)</td>
<td>- URL</td>
</tr>
<tr>
<td>- TAGGEDVALUE</td>
<td>- PRIORITY</td>
</tr>
<tr>
<td>- TAGGEDVALUE</td>
<td>- COMMENTS</td>
</tr>
<tr>
<td>- TAGGED VALUES</td>
<td>- CUSTOM FIELDS</td>
</tr>
</tbody>
</table>

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:

![Toolbox Diagram](image)

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

![Diagram with elements](image)

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:

<table>
<thead>
<tr>
<th>ENTERPRISE ARCHITECT</th>
<th>JIRA®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create a UML Profile that contains the required artifacts types (Stereotypes) to map with the JIRA® Issue Types.</td>
<td>Create the Issue Types, to map with with EA Stereotypes.</td>
</tr>
<tr>
<td>Define Artifacts Tagged Values in the UML Profile, to map with JIRA® Custom Fields.</td>
<td>Create needed Custom Fields to map with the Tagged Values of EA Artifacts.</td>
</tr>
<tr>
<td>Define the possible statuses of the Artifacts in “Settings</td>
<td>General Types</td>
</tr>
</tbody>
</table>

4. Language modification

1. Open the Add-In Menu | EA Connector for Jira | Change Language...”:

2. Define language and click “Accept”:
4. UNINSTALL

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.