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# pure::variants - Connector for Jira Manual

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## 1. Introduction

Atlassian Jira is an issue and defect management system. The connector for Jira enables the user to track changes made in pure::variants in the context of a Jira issue. The pure::variants Connector for Jira uses the pure::variants Connector for Mylyn.

Mylyn is a task and application lifecycle management (ALM) framework for Eclipse providing a task-focused interface. Mylyn monitors activities within Eclipse and so pure::variants, creates a "task context" and automatically links all relevant artifacts to the task.

The connector between pure::variants and Mylyn enables the logging of fine-grained context changes (changes on feature/element-level instead of file/model-level), while also logging of server-based project changes (version history) extended with active task information.

Mylyn is open source and has also available integrations to a variety of version control and task tracking tools, both proprietary and open source. e.g. JIRA, Bugzilla, Trac, Tasktop and CVS, SVN, Git.

### 1.1. Software Requirements

The following software has to be present on the user's machine in order to support the pure::variants Connector for Jira:

- Tool:
- Mylyn 4.2 Eclipse Plug-in is required. Compatibility with other Tool releases is not guaranteed.
  - pure::variants Connector for Mylyn is required. Please always use the same version as the pure::variants Connector for Jira.

The pure::variants Connector for Jira is an extension for pure::variants and is available on all supported platforms.

### 1.2. Installation

Before installing the pure::variants Connector for Jira, Mylyn itself needs to be installed first.

To install from the update site, start Eclipse and select **Install New Software** in the menu **Help**, and add following:

1. Name: Mylyn Update Site (or anything else)
2. Location: <https://download.eclipse.org/mylyn/updates/release/4.2.0>
3. Select at least Mylyn Features / Mylyn Task List. Make sure all dependencies are resolvable by the framework.
4. Deselect "Contact all update sites during installation ..." to speed up installation. Press Next > Next > I accept > Finish and restart.

Please consult section **pure::variants Connectors** in the **pure::variants Setup Guide** for detailed information on how to install the connector (menu **Help** -> **Help Contents** and then **pure::variants Setup Guide** -> **pure::variants Connectors**).

## 1.3. About this manual

The reader is expected to have basic knowledge about and experiences with pure::variants. The pure::variants manual is available in online help as well as in printable PDF format [here](#).

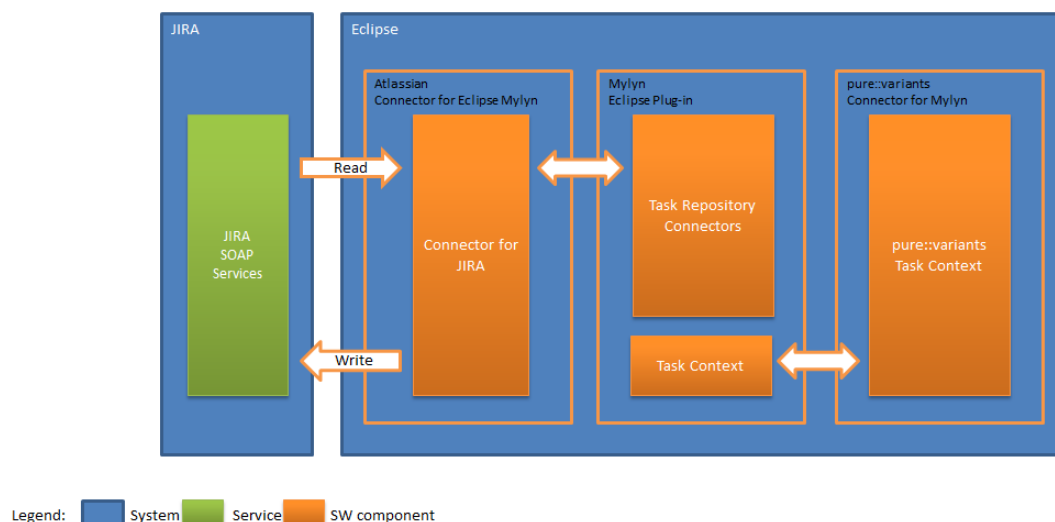
This manual is intended to highlight the pure::variants specific integration aspects of Mylyn, as well as to describe the configuration needs. For details on the Mylyn framework please consult the official Mylyn User Guide available at [https://wiki.eclipse.org/Mylyn/User\\_Guide](https://wiki.eclipse.org/Mylyn/User_Guide).

## 2. Using the Connector

### 2.1. Data Flow Overview

Following figure describes the high level data flow and the relation of systems and software components, including JIRA as external system (Figure 1, "High level data flow").

**Figure 1. High level data flow**



### 2.2. Starting pure::variants

Depending on the installation method used either start the pure::variants-enabled Eclipse or under Windows select the **pure::variants** item from the **program** menu.

If the **Variant Management** perspective is not already activated, do so by selecting it from **Open Perspective** -> **Other...** in the **Window** menu.

The necessary Mylyn specific views to manage tasks (**Task Repositories** and **Task List**) can be opened and closed separately using the (menu **Window** > **Show View** > **Other...** / **Mylyn** /...).

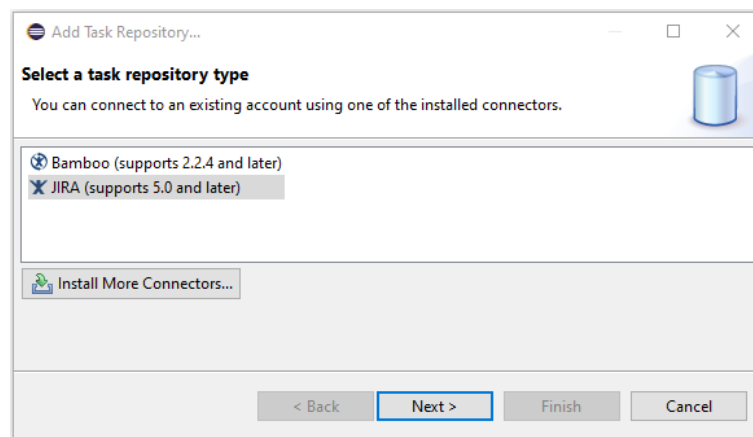
Note: To illustrate the usage of the Mylyn Connector, in this manual JIRA will be used as example as the external task tracking system.

## 2.3. Connecting to JIRA

Mylyn uses a local Task Repository that is connected and synchronized to external Change Management systems. This Task Repository needs to be set up first.

In view "Task Repositories" call "Add Task Repository..." in context menu or the click the "Add Task Repository..." icon in the upper right corner. In the wizard choose "JIRA", then Next (Figure 2, "Add Task Repository").

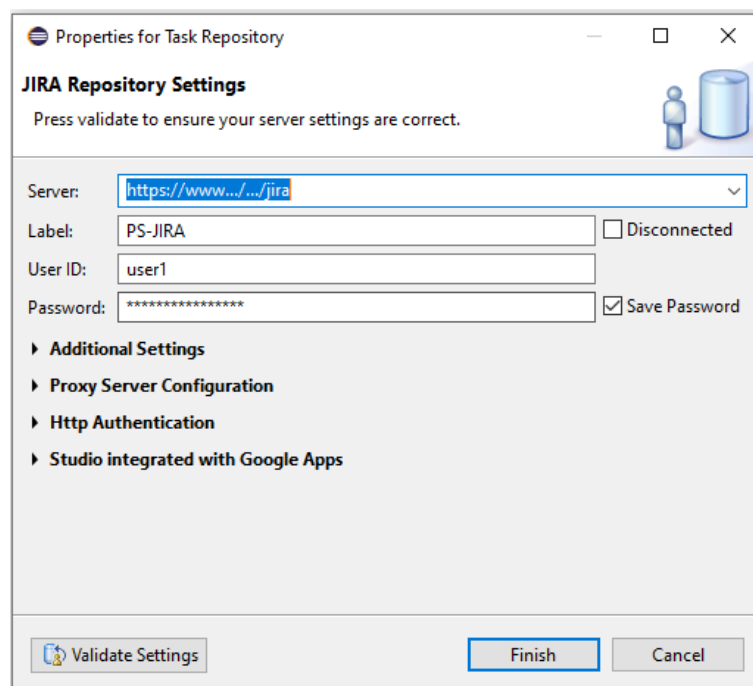
Figure 2. Add Task Repository



Then fill in following JIRA settings: Server address, a unique Label, User ID and a Password (Figure 3, "JIRA Repository Settings"). Connection can be validated using the **Validate Settings** button. Press **Finish** to complete the setup.

Note: Further deployment specific settings might be required (like data for the Proxy Server if used).

Figure 3. JIRA Repository Settings

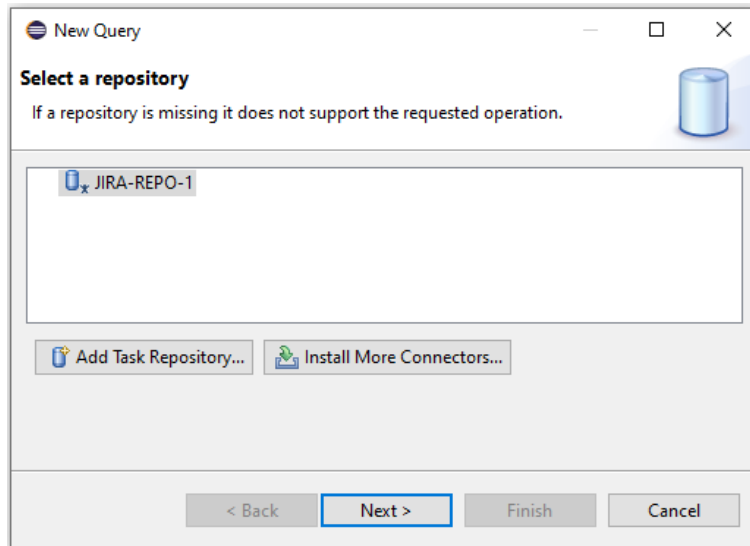


## 2.4. Setting up the Task List View

The Task List is configurable by defining queries to show a selected subset of tasks of interest.

To define a query, in the Task List View, select **New Query...** in the context menu, then select the Task Repository in the wizard to be used, then press **Next** (Figure 4, “Select Task Repository for the New Query”).

**Figure 4. Select Task Repository for the New Query**



On the next page of the wizard, select the option '**Create query using form**' to define a custom query, or use the option '**Predefined filter for selected project**' to use a predefined query, like 'Assigned to me'.

Use the form '**Enter query parameters**' to define a custom query (Figure 5, “Define a custom query”).

**Figure 5. Define a custom query**

**Edit Query**

**Enter query parameters**

Add search filters to define query.

Query Title:

Project:

Type:

Update Attributes from Repository

**Text Search**

**Issue Details**

Reported By:

Assigned To:

Status:

Resolution:

Priority:

**Components / Versions**

Fix For:

In Components:

Affects Versions:

**Dates and Times**

< Back Next > **Finish** Cancel

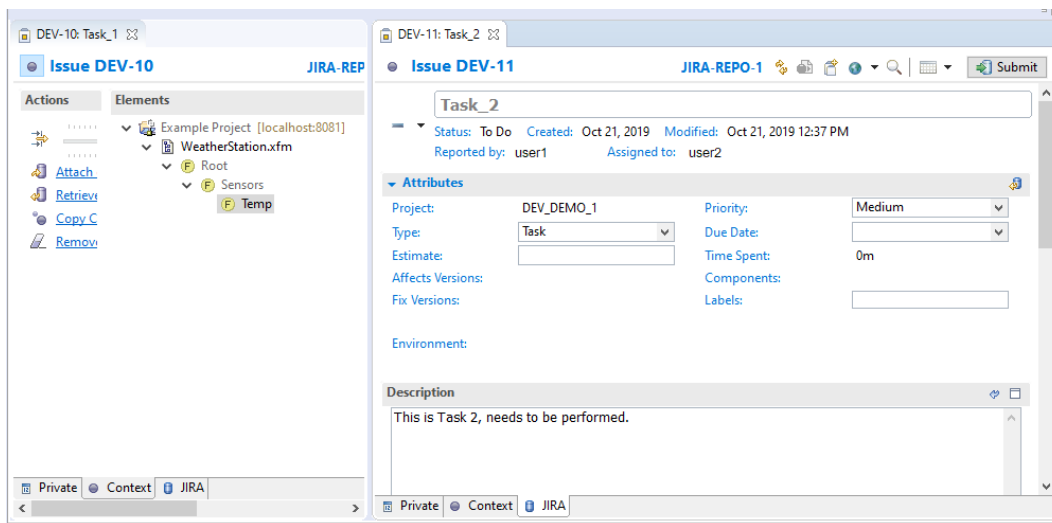
After pressing Finish the Task List is updated and the tasks matching the query are fetched.

## 2.5. Working With Tasks

Double clicking a task in the Task List, the details are displayed in the main window on separated tabs (Figure 6, “Task details”):

- **JIRA-tab:** This tab holds all attributes that are synchronized to ('Submit' button) and from ('Synchronize Incoming Changes' button) the connected JIRA repository.
- **Context-tab:** Mylyn captures and lists the reference to all elements that were changed in the scope of an active task.
- **Private-tab:** Here you can add private notes and further information that are synchronized to the connected repository.

To start working with a task, it needs to be set active in the Task List View, using the context menu (Activate/De-activate). While a task is active the context is recorded.

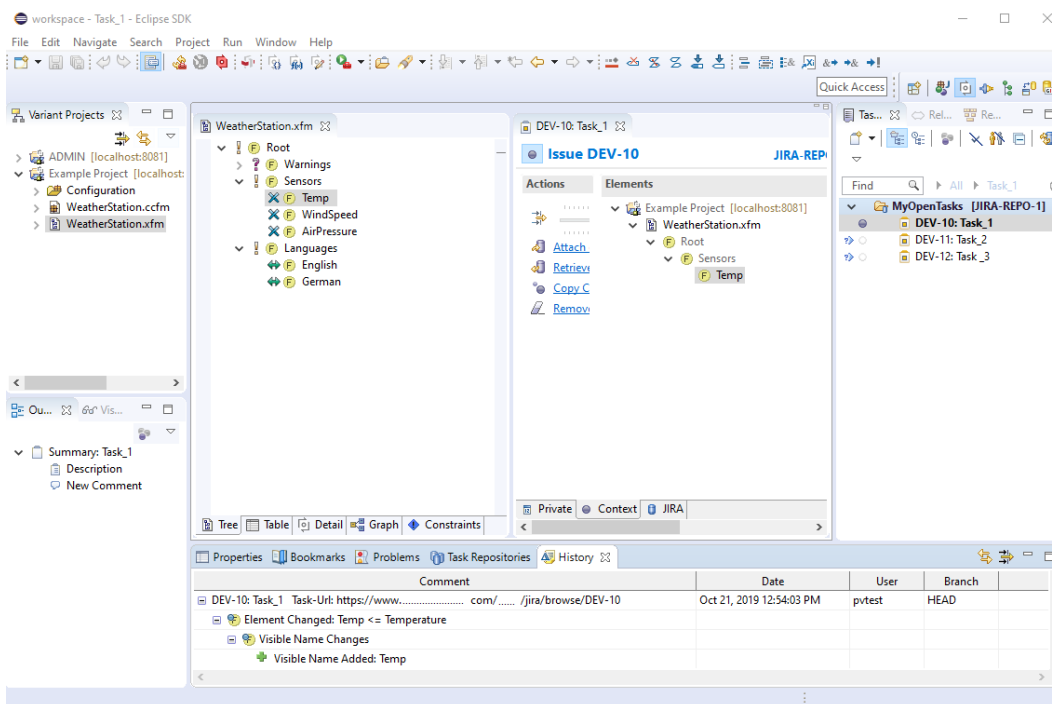
**Figure 6. Task details**

## 2.6. Tracking Modification History

The pure::variants Model Server tracks history of changes for any of the model elements selected (menu **Window > Show View > History**).

The connector between pure::variants and Mylyn extends this history with recording also the active task number for each of the change making a full traceability possible between tasks and changes of model elements (Figure 7, “Tracking modification history”).

Additionally, the granularity of the context is that of a model element (as opposed to the default granularity level of a file).

**Figure 7. Tracking modification history**

## 3. Known Restrictions

None.