JazzConnect-IntelliJ Installation Guide

Guide to installing JazzConnect-IntelliJ

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Introduction

CM-Logic's JazzConnect-IntelliJ provides the ability for Java developers to use the highly popular INTELLIJ IDEA IDE with IBM RATIONAL TEAM CONCERT SCM (RTC SCM). JazzConnect-IntelliJ provides a rich set of functionality that allows the developer to perform most of the operations that are provided through the RTC Eclipse Client.

> *Note: This document discusses the installation of the JazzConnect-IntelliJ plugin. To learn how to configure and use the plugin from a user's perspective, be sure to read* JAZZCONNECT-INTELLIJ USER GUIDE **4.0.0**

Product Overview

JazzConnect-IntelliJ is the Version Control System (VCS) plugin for IntelliJ IDEA that enables source code to be stored in Rational Team Concert (RTC).

Key Components

JazzConnect-IntelliJ is comprised of two key components:

- An IntelliJ VCS plugin, and
- Rational Team Concert Client

There is no server side installation required.

Architecture

The diagram below shows the architecture of the JazzConnect-IntelliJ application:
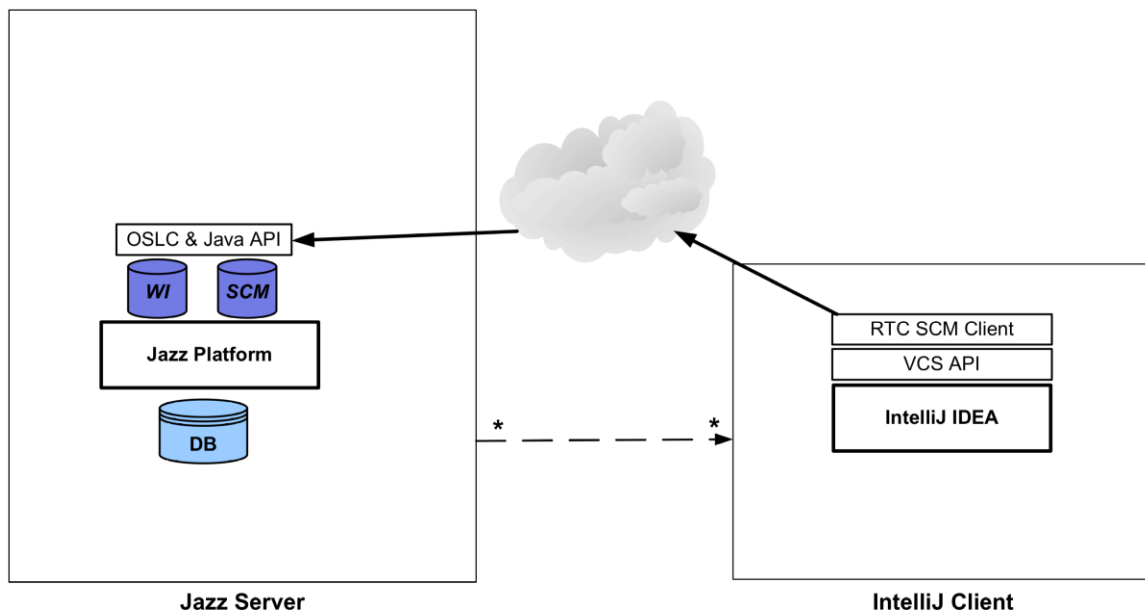

Figure 1: JazzConnect-IntelliJ Architecture Diagram

In the above diagram there is an IntelliJ client running a Jazz Plugin Connector. The plugin communicates with the Jazz server via the SCM Tools daemon (`lscm`) *on the same machine*.

Prerequisites and Installation Preparation

Prerequisites
JazzConnect-IntelliJ requires the following additional applications in order to function properly:
- Rational Team Concert version 2.0.0.2 or later up to version 5.0.x
- IntelliJ IDEA version 9.0.1 or later up to version 14.x
- Rational Team Concert SCM Tools[1]
- Access to the IntelliJ client installation area

Installation Preparation
Before the installation can proceed, ensure you have the following information:

JazzConnect-IntelliJ
Each JazzConnect-IntelliJ installation requires:
- A JazzConnect-IntelliJ installation zip file provided by CM-Logic (e.g. `Rtc4Idea-12-RTC-406-YYMMDD`), where `YYMMDD` is replaced with the date of the release, and "12" and "406" correspond to the relevant versions of IntelliJ and RTC respectively.

> *Note: Ensure you have the correct installation zip file that is needed for your version of Rational Team Concert and IntelliJ. The name of the installation zip file provides information as to which versions of RTC and IntelliJ it is to be used with. For example,* `Rtc4Idea-12-RTC-406-YYMMDD` *is to be used with Version 12 of IntelliJ and version 4.0.6 of RTC. Please contact CM-Logic for assistance, if required.*

- A license file (`license.lic`) generated by CM-Logic.
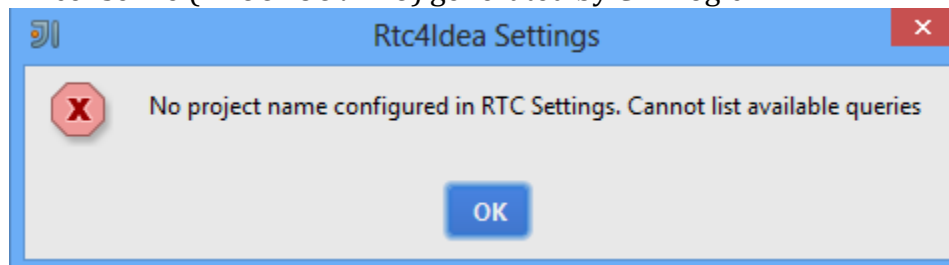
Rational Team Concert Information
JazzConnect-IntelliJ is a plugin that needs to connect to a Rational Team Concert server; therefore, in order to validate the installation, you will need the following information:
- Rational Team Concert connection information: e.g. https://localhost:9443/ccm
- RTC Username/Password

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[1] Rational Team Concert SCM tools are automatically downloaded with Rational Team Concert Eclipse Client. For downloading SCM tools separately please see Appendix A

- RTC Project Area which contains the source code
- The IntelliJ user must be a member of the Project Area with the appropriate `Developer` licence and role(s)
- RTC Source code `Stream` and `Repository Workspace` must be pre-created (using the `Rational Team Concert Eclipse Client`)

Installing JazzConnect-IntelliJ

JazzConnect-IntelliJ is installed into the plugin folder where IntelliJ IDEA is installed.

Installing the JazzConnect-IntelliJ Plugin

To install the IntelliJ Plugin, perform the following steps:

1. Login to your computer as an appropriate user account (e.g. Administrator)
2. Browse to the installation location of IntelliJ IDEA
3. Find the `plugins` folder within your version of IntelliJ IDEA

   E.g (Windows):

   ```
   C:\Program Files (x86)\JetBrains\IntelliJ IDEA Community Edition 13.1.3\plugins
   ```

4. Unzip (extract) the JazzConnect-IntelliJ installation zip file to the `plugins` folder
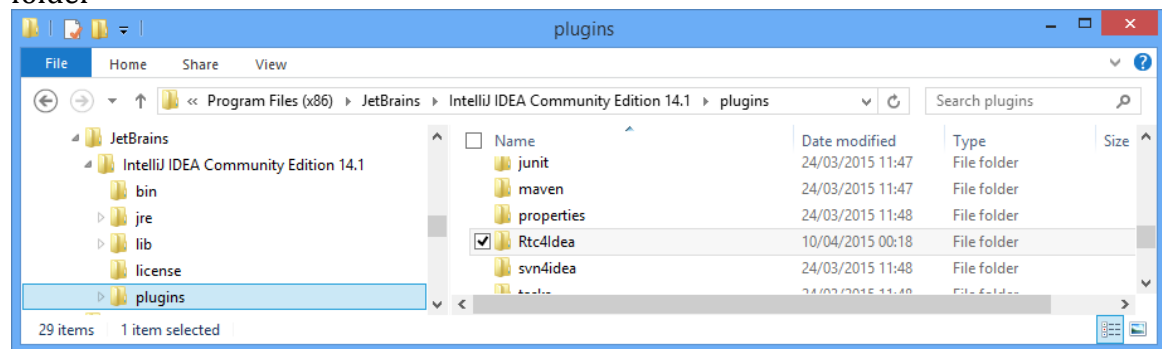
Figure 2: JazzConnect-IntelliJ Plugin Directory

Installing the license file

1. Copy the license file directly into the `Rtc4Idea` folder[2]
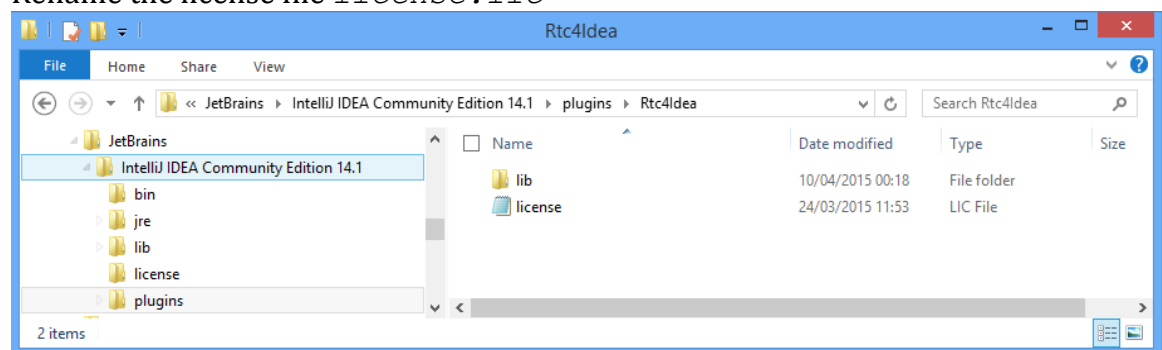2. Rename the license file `license.lic`

Figure 3: JazzConnect-IntelliJ license file

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[2] The license file can also be installed from within IntelliJ IDEA which is the recommended way to update an expired license. For instructions for installing the license file from within IntelliJ IDEA, please see Appendix B.

Setting the DEBUG Logging Level

To set DEBUG level logging output (which is recommended for troubleshooting), you will need to edit[3] the `log.xml` file located in <IntelliJ Installation Folder>/bin folder.

Setting the logging level to DEBUG

1. Navigate to the <IntelliJ Installation folder>\bin folder e.g. `C:\Program Files (x86)\JetBrains\IntelliJ IDEA Community Edition 14.1\bin\log.xml`
2. Open the `log.xml` file in a text editor
3. Insert the 3-line logger entry text, highlighted in Figure 4, *above* the `<root>` logger entry

```
<appender name="CONTINUOUS_FILE" class="org.apache.log4j.FileAppender">
    <param name="File" value="$LOG_DIR$/continuous.log"/>
    <param name="append" value="false"/>
    <layout class="org.apache.log4j.PatternLayout">
        <param name="ConversionPattern" value="%d [%7r] %6p - %30.30c - %m \n"/>
    </layout>
</appender>

<logger name="com.cm_logic.intellij.rtc">
    <level value="DEBUG"/>
</logger>

<root>
    <priority value="INFO"/>
    <appender-ref ref="DIALOG"/>
    <appender-ref ref="CONSOLE-WARN"/>
    <appender-ref ref="FILE"/>
</root>
</log4j:configuration>
```

Figure 4: Enable DEBUG Logging

Note: If you wish to restore the debug level to the normal logging level, update the log.xml file and change the logging level from DEBUG to INFO

Location of Log File idea.log

The path to the log file depends on your operating system, and which version of IntelliJ IDEA you have installed.

Windows

The idea.log file is located under this directory by default:

- Windows Vista, 7, 8:
  `<System Drive>\Users\<User Account Name>\.<IntelliJ Edition><Version>\system\log\idea.log`
- Windows XP:
  `<System Drive>\Documents and Settings\<User Account Name>\.<IntelliJ Edition><Version>\system\log\idea.log`

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[3] Please note that editing the log.xml file requires Administrator permissions

Example for the IntelliJ Community edition:
```
C:Users\joeuser\.IdeaIC14\system\log\idea.log
```
Example for the IntelliJ Ultimate edition:
```
C:Users\joeuser\.IntelliJIdea14\system\log\idea.log
```

Mac OS X
The idea.log file is located under the home directory by default:
```
~/Library/Logs/<IntelliJ Edition><Version>
```

Note: Read the following JetBrains article on [Directories used by the IDE](#) *for more information and other operating systems.*

Appendix A: Installing SCM Tools

JazzConnect-IntelliJ relies on the Rational Team Concert SCM command client (SCM Tools) to function correctly.

The plugin utilizes the SCM daemon (`lscm`) for proper operation and is required to be placed in the global PATH environment variable

E.g.

```
Windows:

        set PATH=<Path to RTC Eclipse Client>\scmtools\eclipse;%PATH%

UNIX/MAC:

        export PATH=<Path to RTC Eclipse Client>\scmtools\eclipse:$PATH
```

Rational SCM Tools is *automatically* installed when you install the Rational Team Concert Eclipse Client.

If you do not wish to install the Rational Team Concert Eclipse Client, then you can download SCM Tools separately. Please note that in order to use JazzConnect-IntelliJ source code must first be imported into Rational Team Concert using the RTC Eclipse Client, with at least one Repository Workspace created.

To Download SCM Tools:
1. Identify the version of Rational Team Concert where the IntelliJ IDE will be connected
2. In your browser window, navigate to:
   https://jazz.net/downloads/rational-team-concert/releases/*<version of RTC>*?p=allDownloads

> *Note: The version of SCM Tools* **must** *match the version of Rational Team Concert where the IntelliJ IDE will be connected. So, for example, if you are using RTC version 4.0.5, then you will need to go to* https://jazz.net/downloads/rational-team-concert/releases/4.0.5?p=allDownloads. *Using the SCM Tools found within the Rational Team Concert client installation will ensure the correct SCM Tools will be used.*

3. The SCM tools can be found under The SCM Tools can be found in the "*All Downloads*" tab on jazz.net under the heading "*Plain .zip Files*"

SCM Tools

Windows x86 (69.71 MB)
Windows x86-64 (69.66 MB)
Linux x86 (69.67 MB)
Linux x86-64 (69.8 MB)
Mac OS X (69.65 MB)
AIX PPC (67.46 MB)
Solaris-64 (69.36 MB)
Linux on Power (67.4 MB)
Linux for System z (68.98 MB)

Figure 5: SCM Tools Download (jazz.net)

4. Download the SCM tools by selecting the appropriate link

Note: If you are experiencing difficulties downloading the SCM tools from the Jazz.net site (i.e. seeing the below error), you may need to use a download manager. For more information please see: https://jazz.net/downloads/help.jsp
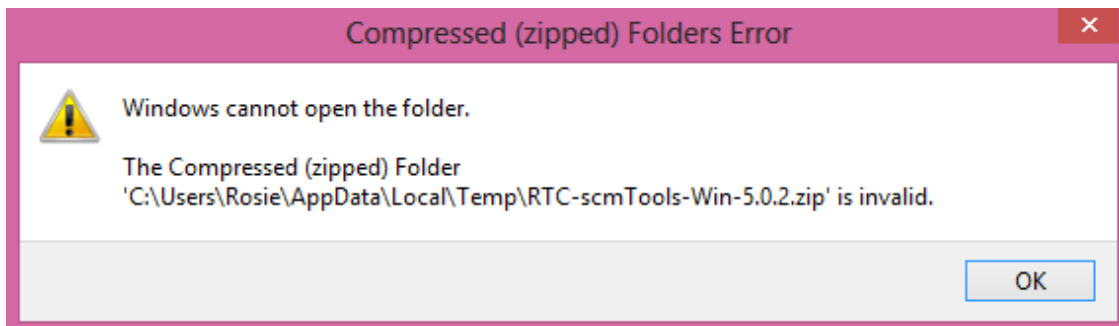

Compressed (zipped) Folders Error

Windows cannot open the folder.

The Compressed (zipped) Folder
'C:\Users\Rosie\AppData\Local\Temp\RTC-scmTools-Win-5.0.2.zip' is invalid.

OK

Figure 6: Download from Jazz.net error

Appendix B: Installing JazzConnect-IntelliJ License File from within IntelliJ IDEA

The license file can be copied directly to the `Rtc4Idea` folder under the IntelliJ plugins folder as described in "Installing the license file"; however, the license can also be installed directly from within IntelliJ IDEA.

> *Note: Installing the license file directly from within IntelliJ IDEA is a quick way to update an expired license.*

For automatic installation of the license file through the IntelliJ IDE, the license file should be saved to a browsable folder, where the IntelliJ IDE has visible access.

To Install the License File from within IntelliJ IDEA:

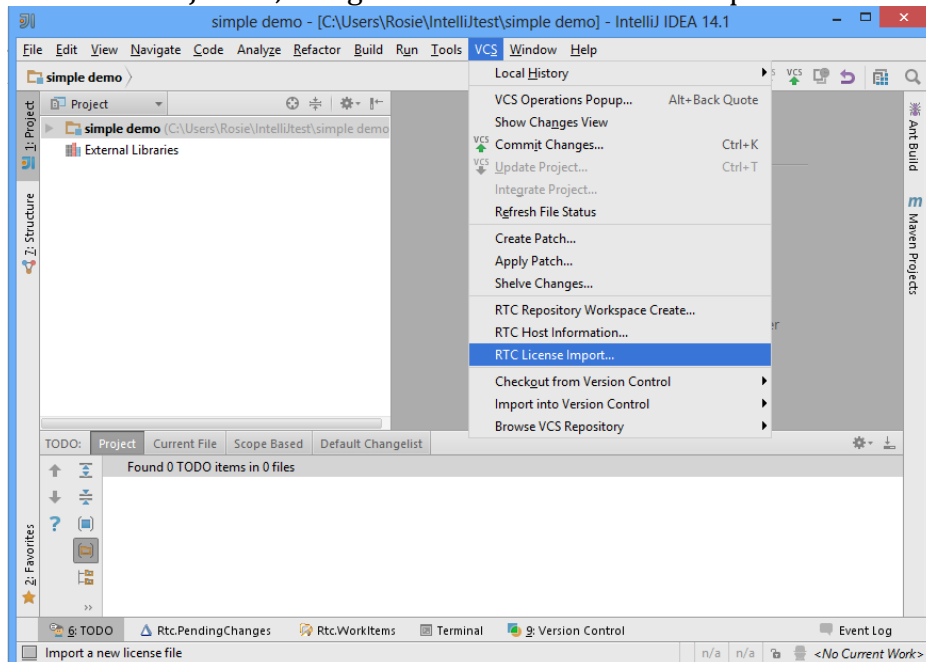1. Within IntelliJ IDEA, navigate to VCS>RTC License Import…

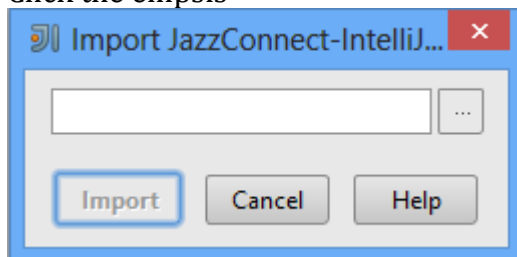**Figure 7: RTC License Import…**

2. Click the ellipsis

Figure 8: Import License Dialog

3. Select the license file from the browsable folder where you have saved it, and click "OK"
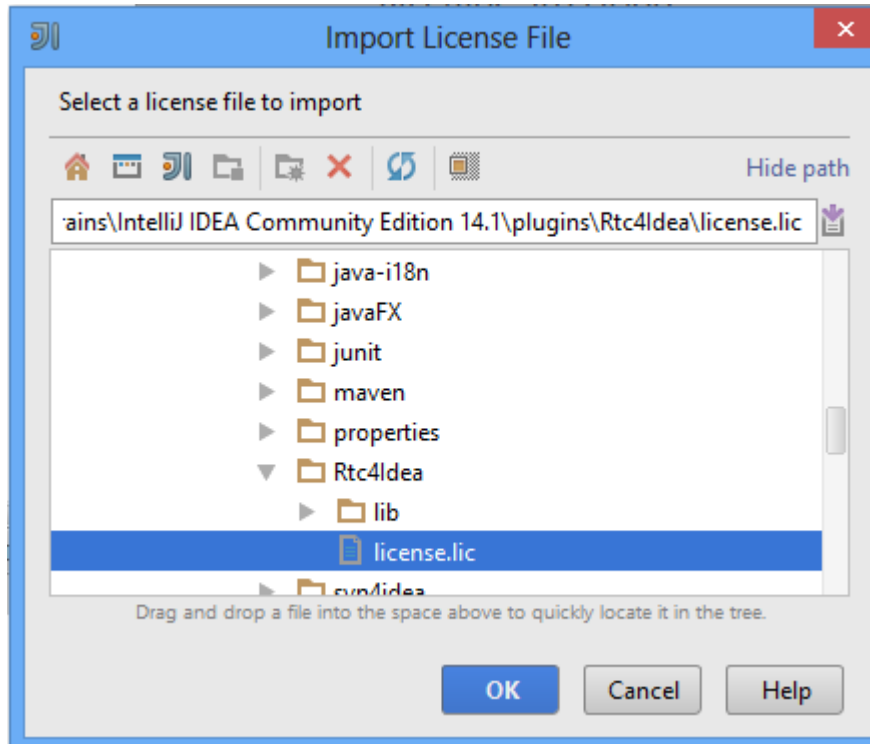

Figure 9: Import License File

Note: Using this method, the name of the license file does not need to be named `license.lic`