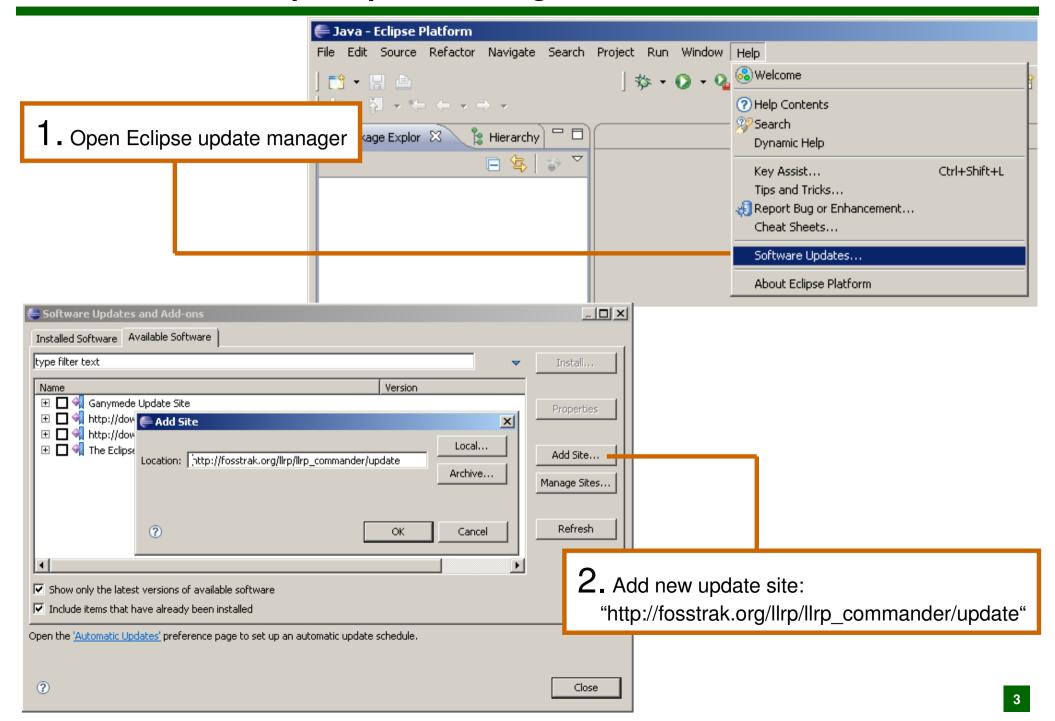
LLRP Commander User Guide

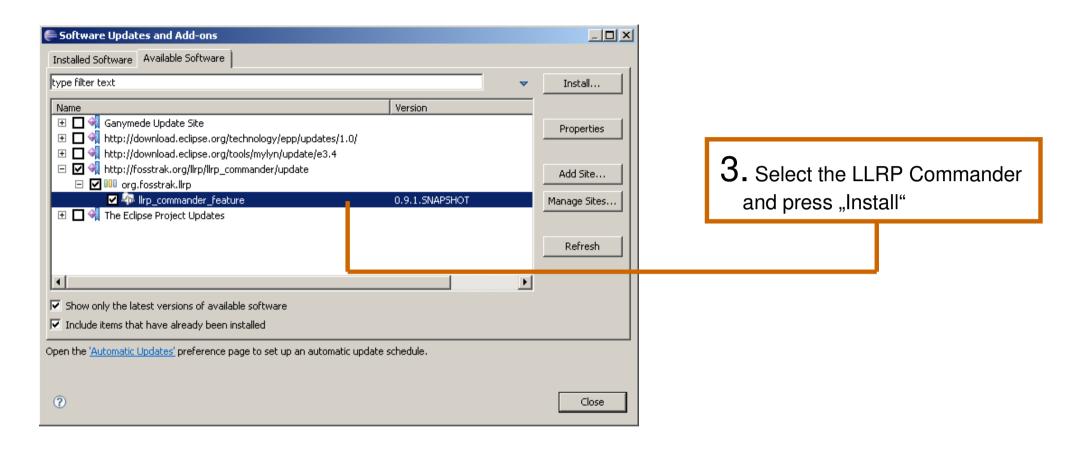
Content

- 1. Install the Eclipse Plug-In
- 2. Setup Emulator Environment
- 3. Manage Reader
- 4. View Message History
- 5. Create New Messages with the Message Wizard
- 6. Assemble Messages in Graphical Editor
- 7. Edit Messages in XML Editor
- 8. View Messages in Binary Format
- 9. Send Messages

Installation via Eclipse update manager



Installation via Eclipse update manager (cont'd)



4. Follow the installation instructions.

Please restart Eclipse when the update manager proposes to do so.

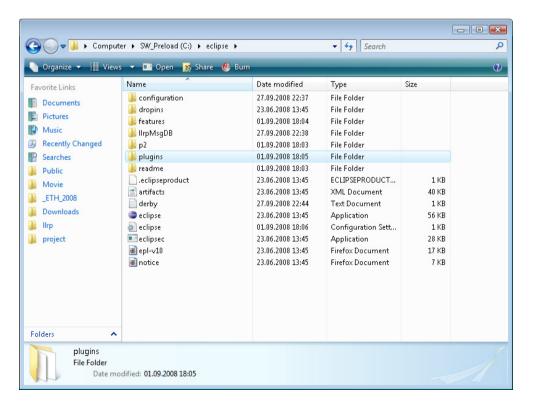
Manual Installation

Prerequisites:

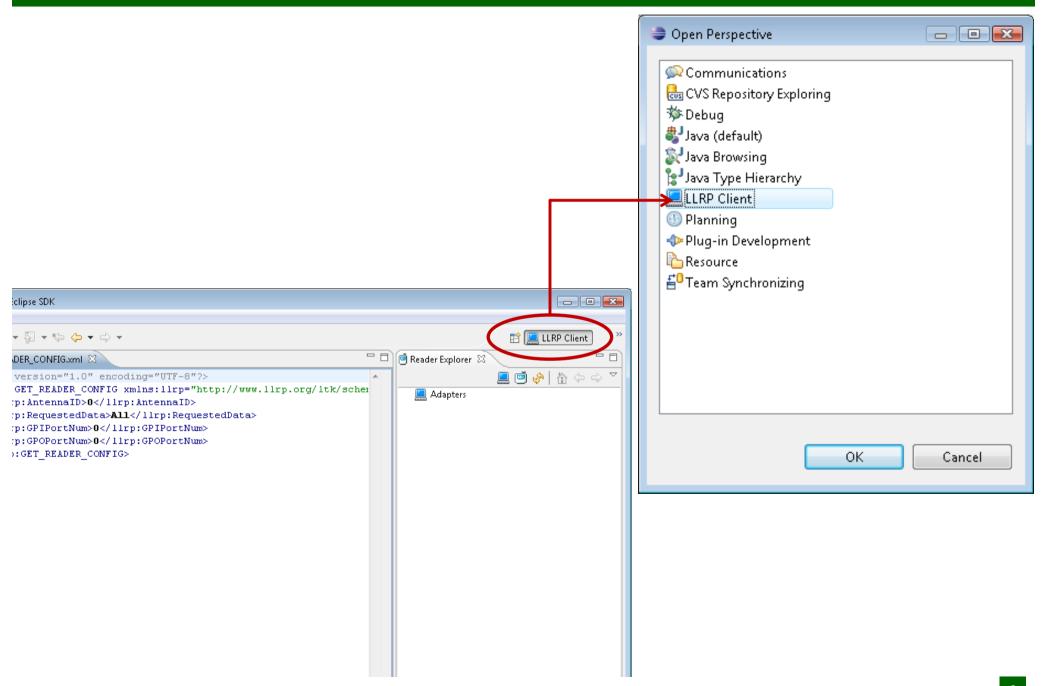
- 1. Java 1.5
- 2. Eclipse >= 3.3.0

Installation of the LLRP Commander:

- Download IIrp_commander_
 VERSION>.zip from
 http://maven-repository. fosstrak.org/releases/org/fosstrak/llrp
- 2. Extract the zip file into the subfolder "plugins" of Eclipse's home directory.



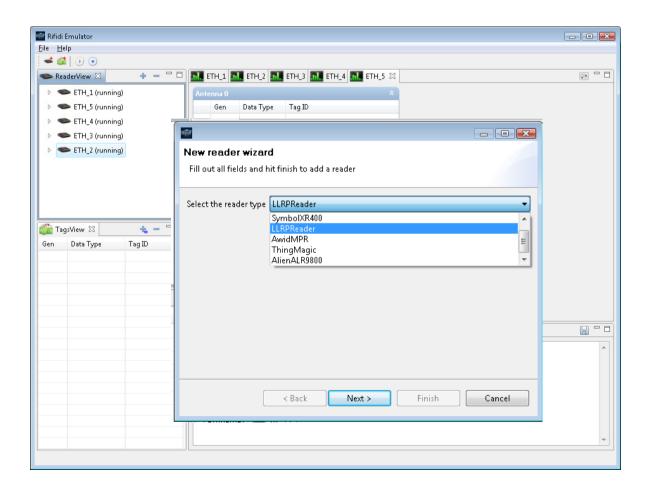
Start Eclipse and open "LLRP Commander" perspective



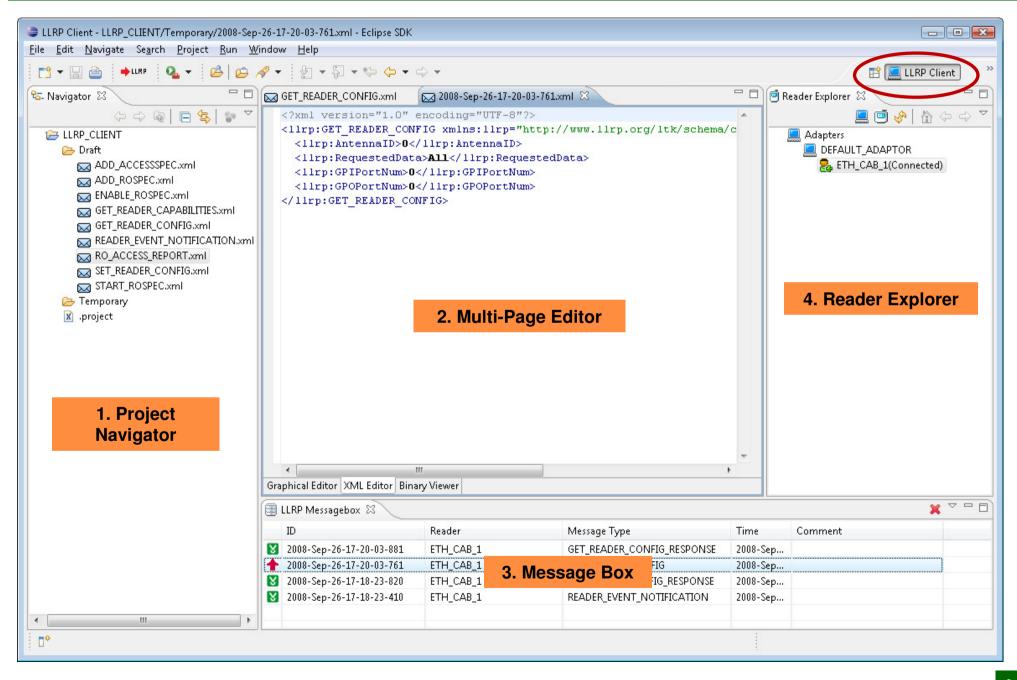
Setup Rifidi Emulator

If you don't have a Hardware RFID Reader available, you can test the LLRP Commander with the Rifidi Software Reader:

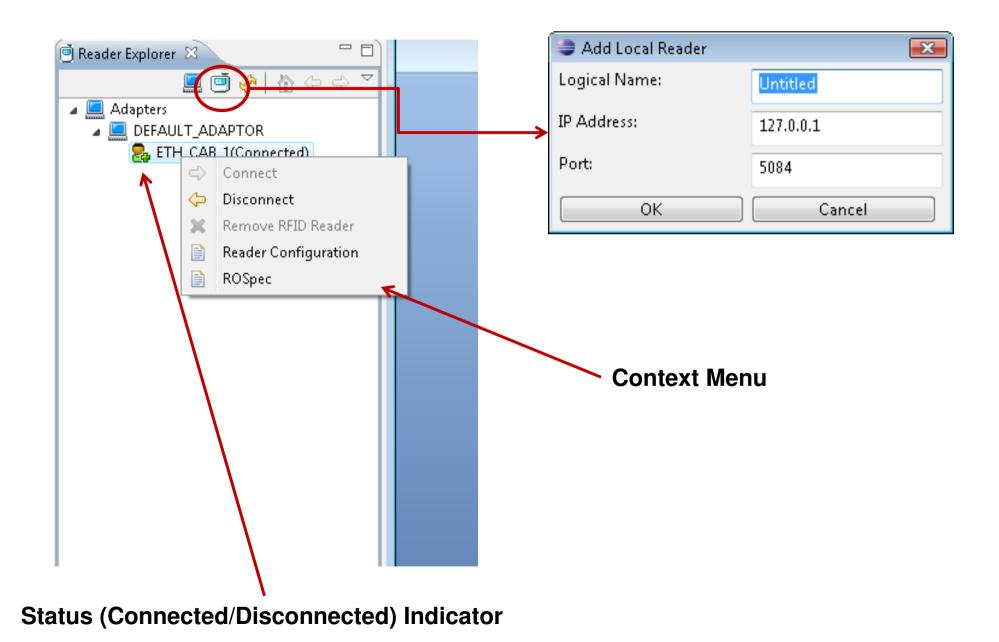
- Setup the Rifidi Emulator via http://www.rifidi.org/
- 2. Create a reader of type "LLRPReader" and set it to "running".



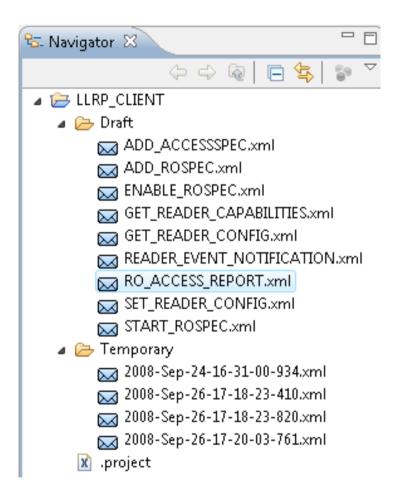
LLRP Commander Perspective



Reader Management



Project Navigator



The LLRP commander needs a Eclipse project to store editable messages. You can either define a specific project in the Preference Page, or use the default "LLRP_CMDR" project folder.

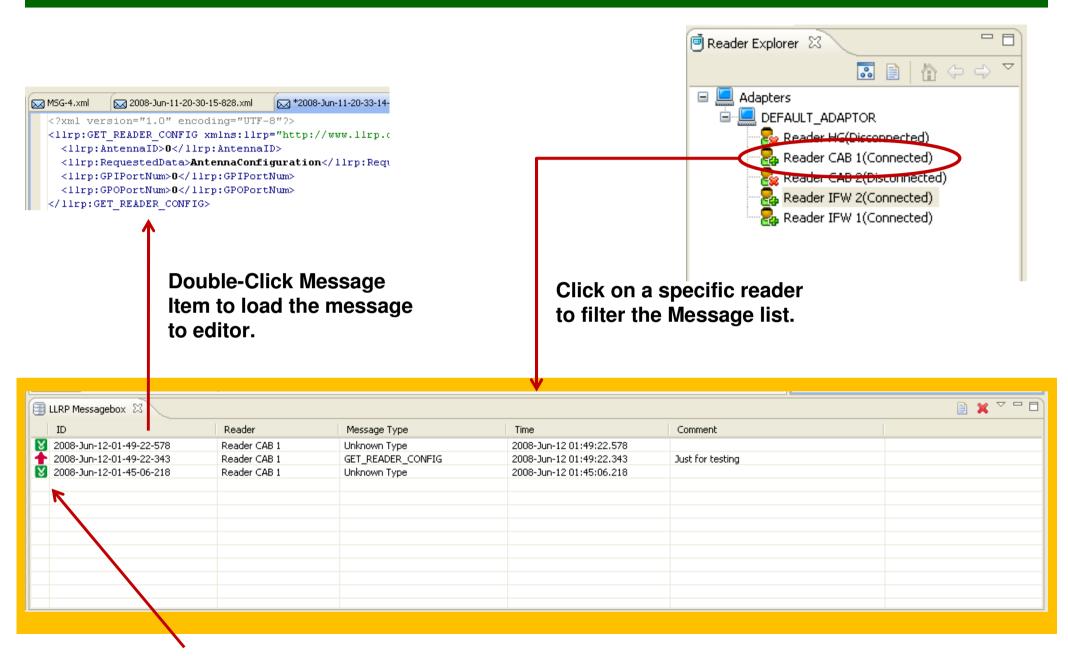
The LLRP commander automatically generates two folders for the project folder:

1.Draft: to hold the pre-built sample LLRP message files;2.Temporary: to hold the incoming message files when users load them from the repository.

When you modify the files in the "**Temporary**" folder, the changes will not be written to the Repository. In addition, if you purge the JavaDB, the files under "**Temporary**" folder will not be removed.

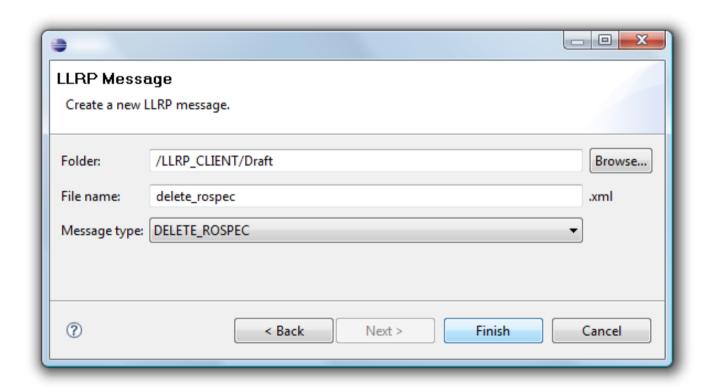
Every time Eclipse starts up, the "Health Check" can detects whether the project exists or the folder structure is corrupted. If yes, you can easily recover it by the "Auto Fix" function.

View Message History



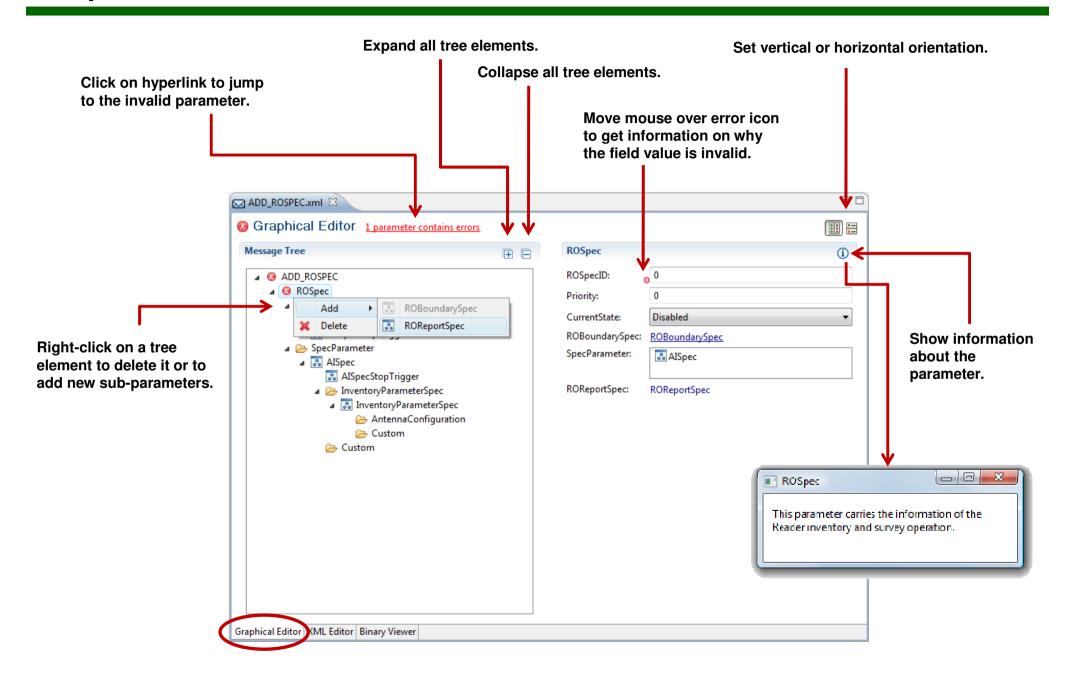
"New LLRP Message" Wizard

The "New LLRP Message" wizard assists you in creating new LLRP messages from scratch. To start the wizard choose *File/New/Other.../LLRP/LLRP Message*.



After pressing "Finish" a new message of the selected type will be created in the specified folder with the given file name. The message will have all fields initialized by default values and all mandatory parameters set. It will be automatically opened in the editor where you can adapt it to your needs.

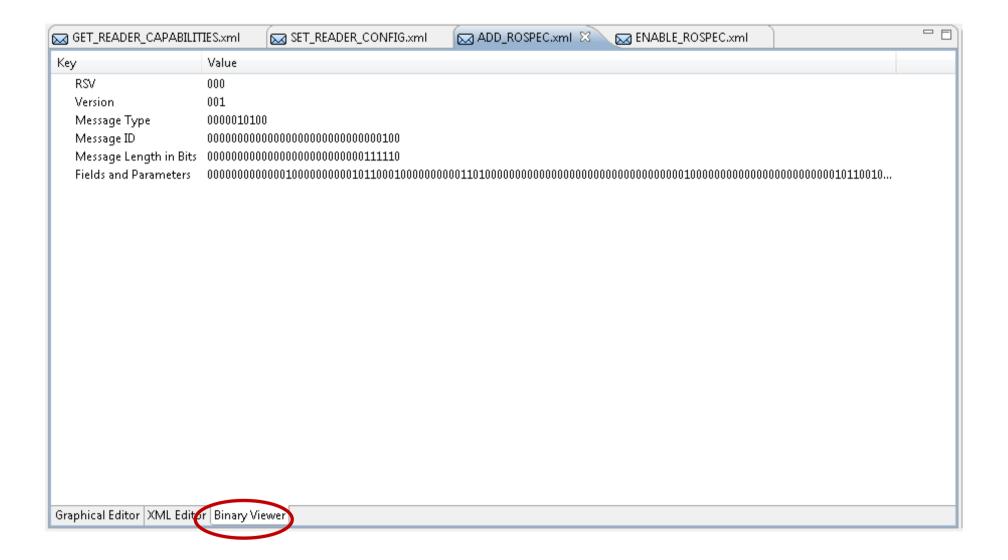
Graphical Editor



XML Message Editor

```
ADD_ROSPEC.xml 🔀
GET_READER_CAPABILITIES.xml
                           SET_READER_CONFIG.xml
                                                                      ENABLE ROSPEC.xml
  <?xml version="1.0" encoding="UTF-8"?>
  <llrp:ADD ROSPEC xmlns:llrp="http://www.llrp.org/ltk/schema/core/encoding/xml/1.0" xmlns:Impinj="http://de</pre>
    ROSpec>
      <llrp:ROSpecID>1</llrp:ROSpecID>
      <llrp:Priority>0</llrp:Priority>
      <llrp:CurrentState>Disabled</llrp:CurrentState>
      <11rp:ROBoundarySpec>
        <llrp:ROSpecStartTrigger>
          <llrp:ROSpecStartTriggerType>Null</llrp:ROSpecStartTriggerType>
        ROSpecStartTrigger>
        <llrp:ROSpecStopTrigger>
          <llrp:ROSpecStopTriggerType>Null</llrp:ROSpecStopTriggerType>
          <llrp:DurationTriggerValue>0</llrp:DurationTriggerValue>
        </lirp:ROSpecStopTrigger>
      </lirp:ROBoundarySpec>
      AISpec>
        <llrp:AntennaIDs>0</llrp:AntennaIDs>
        <llrp:AISpecStopTrigger>
          <llrp:AISpecStopTriggerType>Null</llrp:AISpecStopTriggerType>
          <llrp:DurationTrigger>0</llrp:DurationTrigger>
        AISpecStopTrigger>
        InventoryParameterSpec>
          <1lrp:InventoryParameterSpecID>9</lirp:InventoryParameterSpecID>
          <llrp:ProtocolID>EPCGlobalClass1Gen2</llrp:ProtocolID>
        </lirp:InventoryParameterSpec>
                                  111
Graphical Editor XML Editor Dinary Viewer
```

Binary Viewer



Send Messages

To send a message, proceed as follows:

- 1. Open the message in the editor.
- 2.Click on "Send LLRP Message" in the context menu of the xml editor/binary viewer or on the "Send LLRP Message" icon in the toolbar.

