

Create an Ergo-EQ Update Site

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Introduction

The intent of this tutorial is to assist you in setting up an update site to add plugins/features to Ergo-EQ. The update site is a really nice feature of Eclipse that allows others to add functionality to Ergo-EQ without including them as part of the core platform.

Prerequisites:

1. A good understanding of Eclipse Plug-ins and Features
2. A good understanding for installing a web server (e.g. Apache)

Assuming that you have a good understanding of the prerequisites, the first thing to do is to go through [this](#) Eclipse wiki page that provides very basic instructions for creating an update site.

Updating Feature.xml

There are some parts of the **feature.xml** that you will want to update. Some of these updates will also be done to the plugin or plugins that are part of the feature.

Overview tab

In the **Overview** tab, at a minimum you should provide:

- **ID** - unique id of the feature
- **Version** - feature version (e.g. 1.0.0.qualifier). See the guidelines [here](#) for feature and plugin versioning and when/how to increment.
- **Name** - feature name, should be an externalized string
- **Vender** - Name of the vendor providing the plugin (e.g. NCSA). This should be an externalized string.

Information tab

In this section, you should provide users with information about your feature. For example, you should at a minimum provide:

- **Feature-Description**
 1. **Text** - a brief description of the feature and what it contains
- **Copyright Notice**
 1. **Text** - The copyright notice for the feature.
- **License Agreement**
 1. **License** - Most features will choose local license
 2. **Text** - The text regarding the feature's license. This will be displayed to the user during installation from the update site.

Plug-ins tab

In the plug-ins tab, list all plug-ins and fragments that should be packaged in the feature. Optionally, you can specify a specific version of a plugin.

Dependencies tab

This tab should list the dependent features and/or plug-ins for the feature to be installed. This is used by the update mechanism in Ergo-EQ to determine what dependencies should be satisfied to install the feature. This prevents incomplete features from being installed and breaking the application.

Updating Plug-in Manifest

This section will briefly describe the part(s) of the **MANIFEST.MF** that are relevant for creating the update site. This is not intended to be an exhaustive overview of the MANIFEST, for more details see the Eclipse Help guide.

Overview tab

In the overview tab, the following information should be provided:

1. **ID** - the unique id for the plugin
2. **Version** - the version of the plugin, see the rules mentioned in the previous section for how to version your plug-ins.
3. **Name** - the name of the plug-in (e.g. Ergo Buildings)
4. **Vendor** - the vendor providing the plugin

Updating Site.xml

The site.xml defines what features the update site has available. The next section will discuss the different parts of the site.xml.

Site Map tab

It's recommended that you add 1 or more categories to organize your features in the site map tab and that you keep features small in size (e.g. as few plug-ins as possible). The categories will help users determine what each feature contains (e.g. Buildings, Bridges, etc) and keeping the features small will allow users to only install what they want (e.g. don't group buildings/bridges/networks/etc in the same feature). After you have created the categories and added your features to them, if you click the **Build All** button you will see a **features** and **plugins** folder created along with an **artifacts.jar** and **content.jar**. Those created files/folders along with the site.xml is what will go in your update site folder. See the next section for details.

Hosting your Update Site

Setting up the update site is fairly straightforward. If you an Apache or equivalent web-server installed on a machine (for this tutorial we'll assume Apache on an Ubuntu machine), then all you need to do is copy the following to the web server's root folder **/var/www/**:

1. **features** folder
2. **plugins** folder
3. **artifacts.jar** file
4. **content.jar** file
5. **site.xml** file

After copying those files to your web server root folder, you can test your update site by launching Ergo-EQ and doing the following:

1. Go to **Help > Install New Software...**
2. Click the **Add...** button and enter a **Name** and the **Location** (e.g. the web address of your update site).
3. Click **OK**
4. Where it says **Work with:**, select your update site. You should see your categories and features listed in the dialog.