# Building From Source

when building from source

## Step-by-step guide

1. Install the tools

   a. Maven 3
   b. Java SE JDK 7
   c. Subversion Client (command-line or UI-based, like TortoiseSvn)
   d. Eclipse IDE (Kepler 3.8 or earlier, must be RCP Development Edition)
2. Set up your directories

   a. Linux

   ```
   $ cd ~
   $ mkdir -p marketcetera/workspaces/base/code
   ```

   b. Windows
      Create the same directory structure from your root device, like C:\metc\workspaces\base\code. Keep it as short as possible as there's a limitation in Windows on the length of filenames.
3. Download the source

   ```
   $ cd ~/marketcetera/workspaces/base/code
   $ svn co https://source.marketcetera.org/root/trunk public
   ```

4. Build the source

   ```
   $ cd metc
   $ mvn -DskipTests clean install eclipse:eclipse
   ```

5. Start Eclipse

   a. Set your workspace to marketcetera/workspaces/base
   b. Set the target platform (Windows->Preferences->Plug-in Development->Target Platform)
         i. Select Add to create a new target platform
        ii. Start with Nothing and click Next
       iii. Name your target Marketcetera and click Add
        iv. Choose Directory and click Next
         v. Browse to public/photon/maven/rcptarget/photon-target/eclipse and click OK
        vi. Click Finish
       vii. Click Finish
      viii. Select the Marketcetera platform as the active platform and click OK
   c. Import projects (File->Import->General->Existing Projects into Workspace). Set the root directory to your top level code directory (marketcetera/workspaces/base/code/metc). Check Search for nested projects and select Finish. A popup may appear right away that says "build error". Just close this and ignore it. The code should build cleanly at this point.

## Troubleshooting

If you have trouble compiling, check these items:

1. Make sure you've built with Maven from the command-line successfully
2. Make sure you start Eclipse with a Java 7 JRE/JDK
3. Make sure you've included 'eclipse:eclipse' as one of the Maven goals (along with install)
4. Make sure you've defined your Maven executable properly in Eclipse. You can double-check this by opening the Navigator view and running the Maven builder under the core project. This should dump Maven output to the Console View.

   **? Unknown Attachment**
5. Make sure you checked the 'search for nested projects' box when importing projects. There should be 45 projects when you're done.