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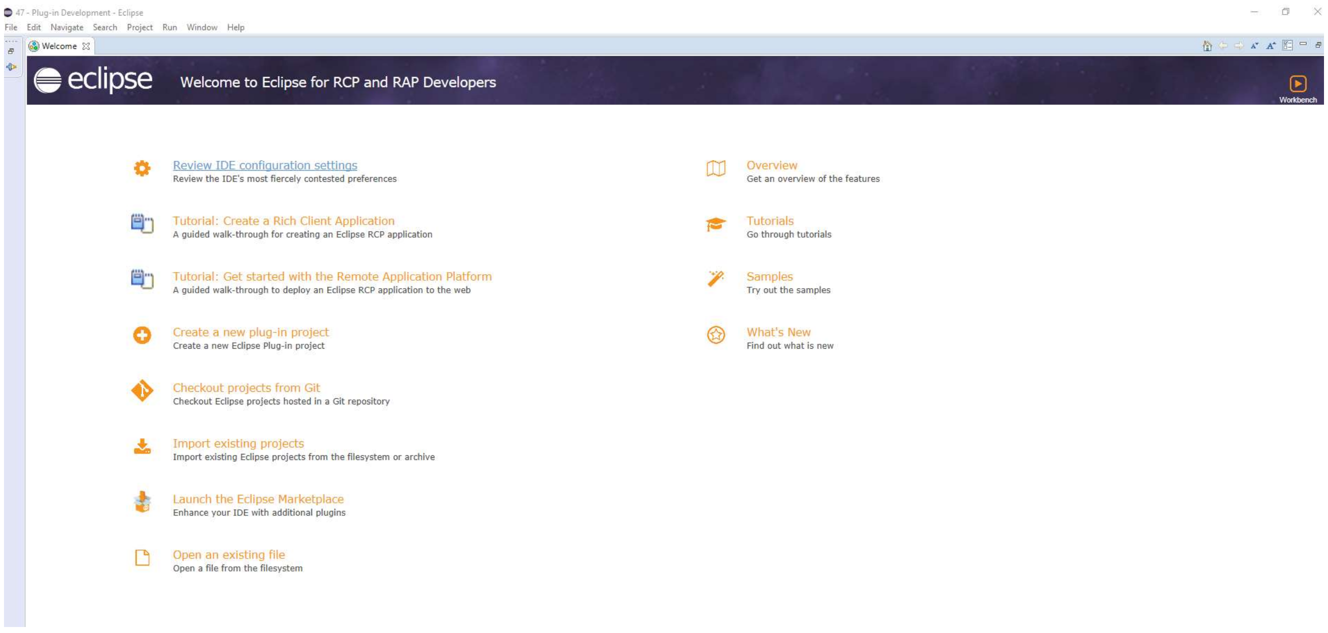
AVIX API DEV ENV SETUP

In this document, we will outline how to get a suitable environment for AviX API development up and running. Prerequisite: Having installed Eclipse (according to the "*Eclipse setup*" guide).

START ECLIPSE

When you start Eclipse on a "fresh workspace", which you are likely to be in if you came straight from the "Eclipse setup" guide, you will be met with the so-called welcome screen looking similar to this:


47 - Plug-in Development - Eclipse
File Edit Navigate Search Project Run Window Help
Welcome
eclipse
Workbench

Welcome to Eclipse for RCP and RAP Developers

Review IDE configuration settings
Review the IDE's most fiercely contested preferences

Tutorial: Create a Rich Client Application
A guided walk-through for creating an Eclipse RCP application

Tutorial: Get started with the Remote Application Platform
A guided walk-through to deploy an Eclipse RCP application to the web

Create a new plug-in project
Create a new Eclipse Plug-in project

Checkout projects from Git
Checkout Eclipse projects hosted in a Git repository

Import existing projects
Import existing Eclipse projects from the filesystem or archive

Launch the Eclipse Marketplace
Enhance your IDE with additional plugins

Open an existing file
Open a file from the filesystem

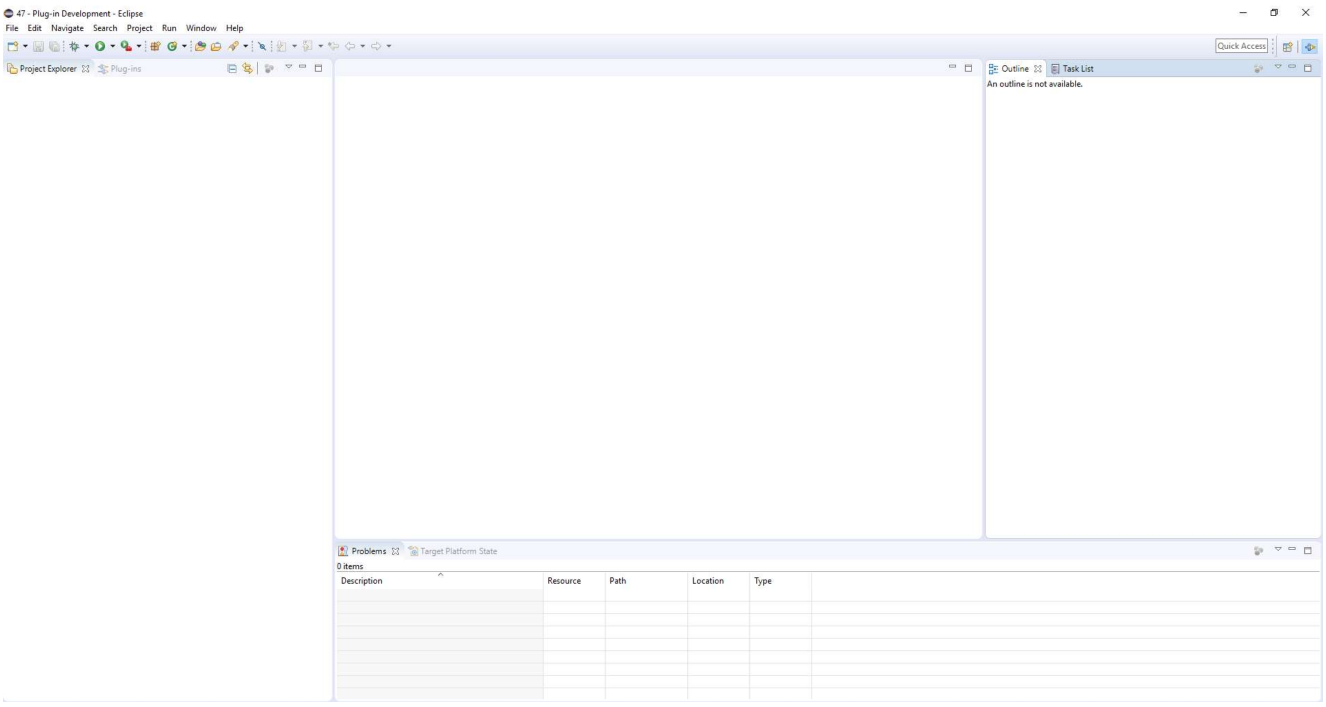
Overview
Get an overview of the features

Tutorials
Go through tutorials

Samples
Try out the samples

What's New
Find out what is new

Although some good guides are found from this page, we will leave it for now. Select the "Workbench" icon in the top right corner. Now, Eclipse will probably bring you to the "Perspective" called Plug-in Development (PDE). It will be empty, and looks something like this:


47 - Plug-in Development - Eclipse
File Edit Navigate Search Project Run Window Help
Quick Access
Project Explorer
Plug-ins
Outline
Task List
Problems
Target Platform State

An outline is not available.

0 items

Description	Resource	Path	Location	Type

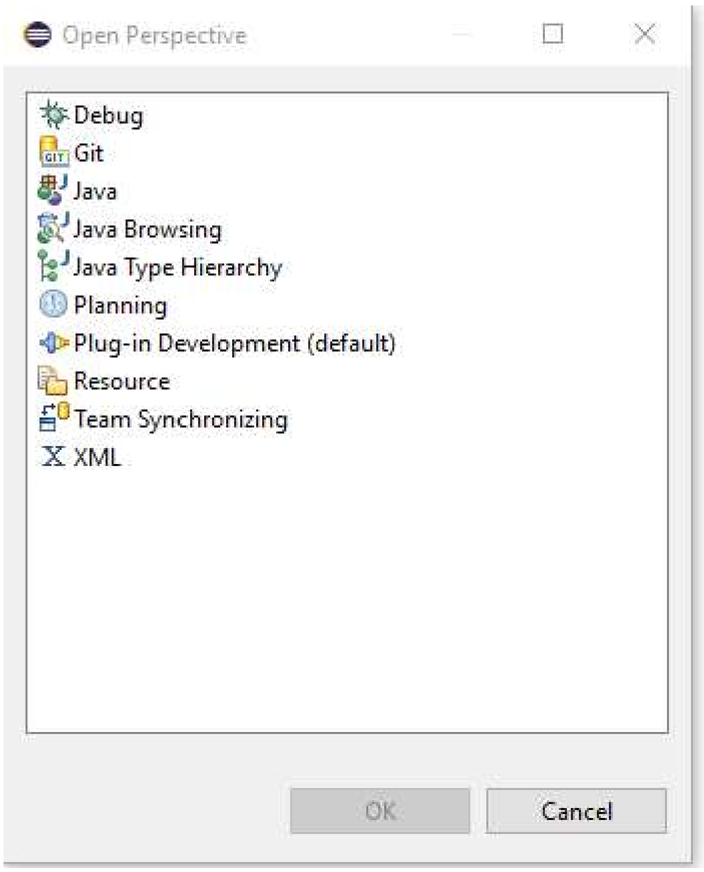
A few fundamental concepts of Eclipse itself is present here right from the get-go. You need to (get to) know the following terms and stuff when working with Eclipse:

- **Views**: these are the basic UI building blocks of an Eclipse application (like AviX; but also Eclipse itself). In the rather empty image above, you have the "Project Explorer", "Problems", "Outline" etc. All those are views.
- **Perspectives**: In the top-right corner, the icons representing the recently used perspectives are present. In my case here, only the PDE perspective is visible and active.
- **Editors**: The editor window is the big and totally empty window here. This is the place where stuff is opened, for instance when selecting in a view. More about this later.

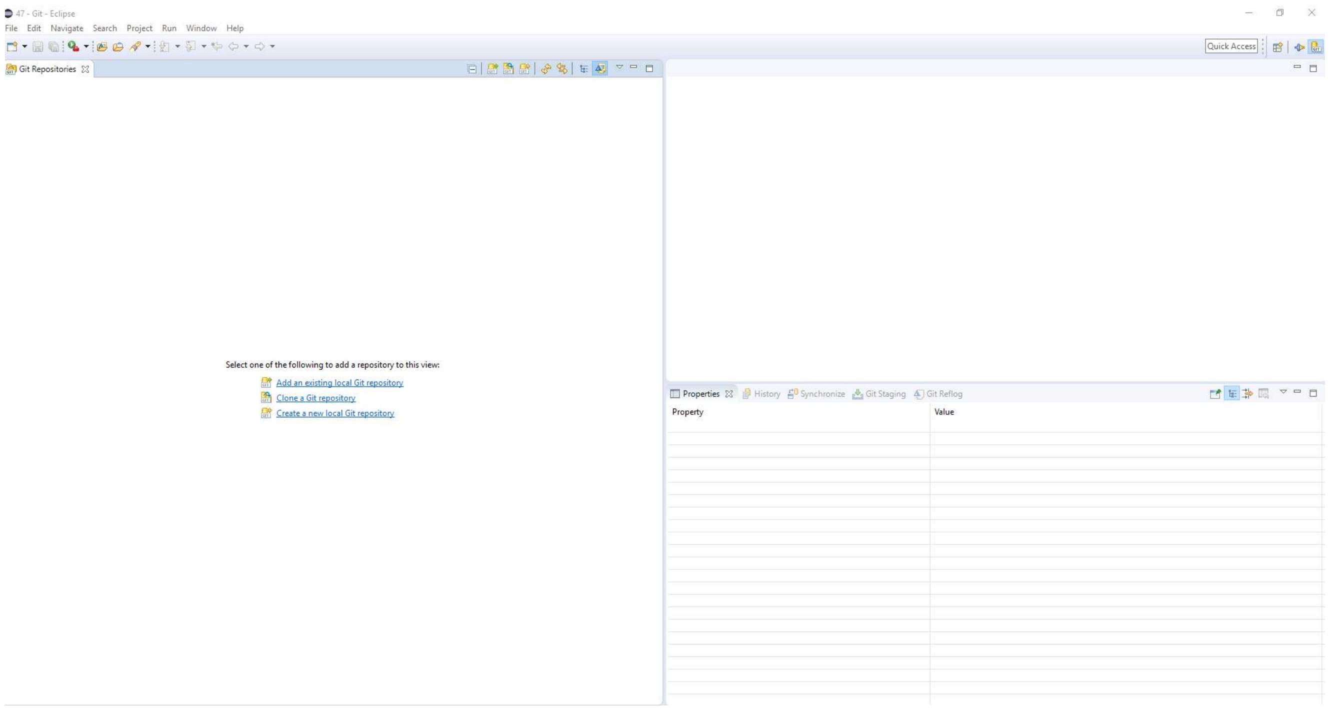
GET YOUR GIT CLONE

First, let's get the AviX source code you need. Yes, you'll get access to all of the precious source code for AviX! Since there at the time of writing is no real good API documentation of AviX (which would have come in really handy for you, dear API developer), the source code will be your best friend. If you are lucky, java components you need to study come with good java docs. If not, you'll at least be able to look at the source, maybe copy a line or two, and of course also to debug it, to see what's going on.

OK, open the GIT perspective: Click the little "Open Perspective" button located in the top right corner. You'll be presented a dialog like this:



Select "Git" and click ok. You'll now end up in the GIT perspective, looking like this. Also note now in that the GIT perspective icon is there in the top right corner, for easy access later on.

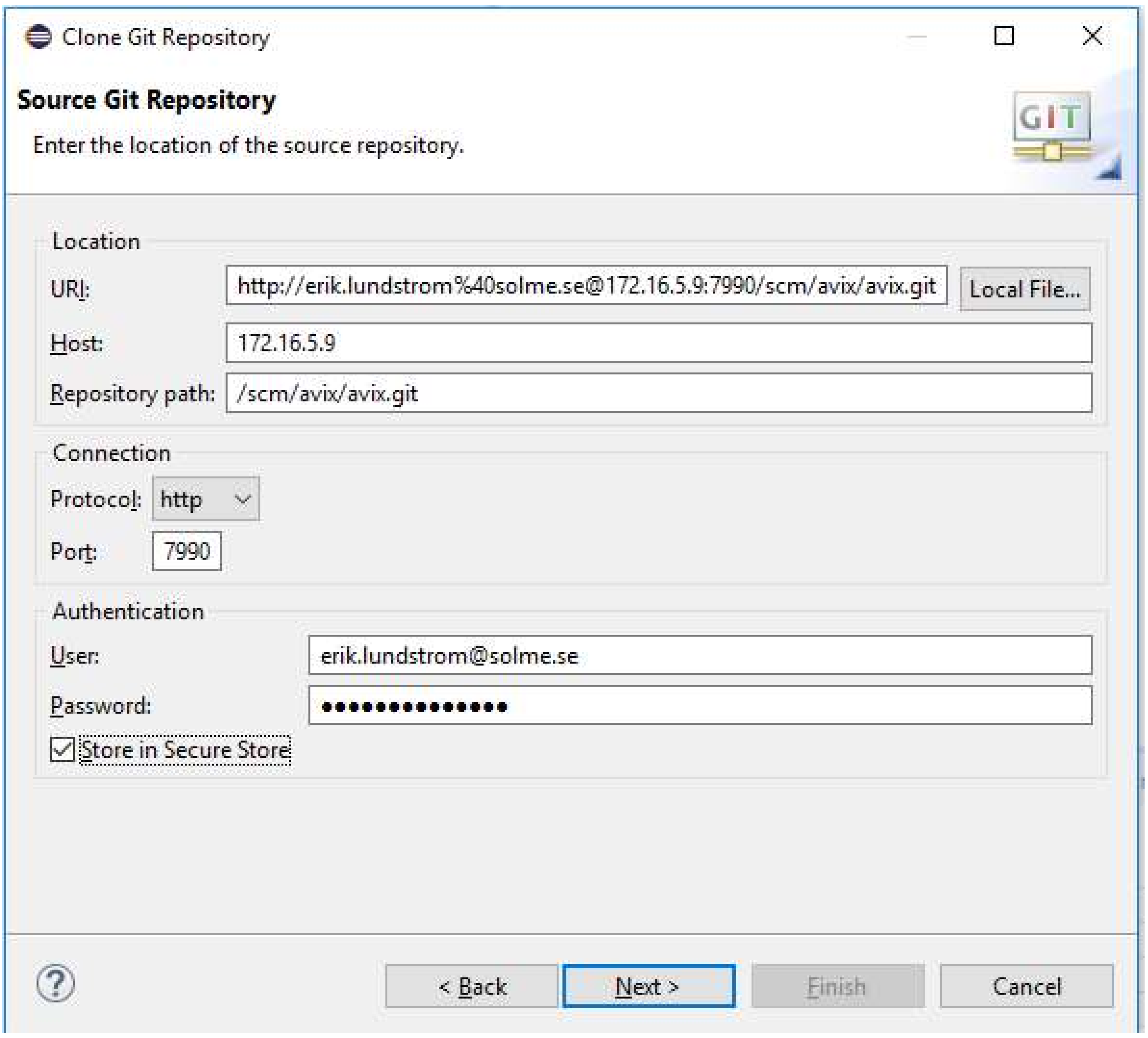


Select one of the following to add a repository to this view:

- Add an existing local Git repository
- Clone a Git repository
- Create a new local Git repository

Now is the time to “Clone a Git repository”. Click that link in the “Git Repositories” view. Then, click “Clone URI”.

On the next page, enter your credentials like I did here. To “Store in Secure Store” is a good thing, so GIT won’t be nagging you for password all the time.


Clone Git Repository

Source Git Repository

Enter the location of the source repository.

Location

URI: http://erik.lundstrom%40solme.se@172.16.5.9:7990/scm/avix/avix.git

Host: 172.16.5.9

Repository path: /scm/avix/avix.git

Connection

Protocol: http

Port: 7990

Authentication

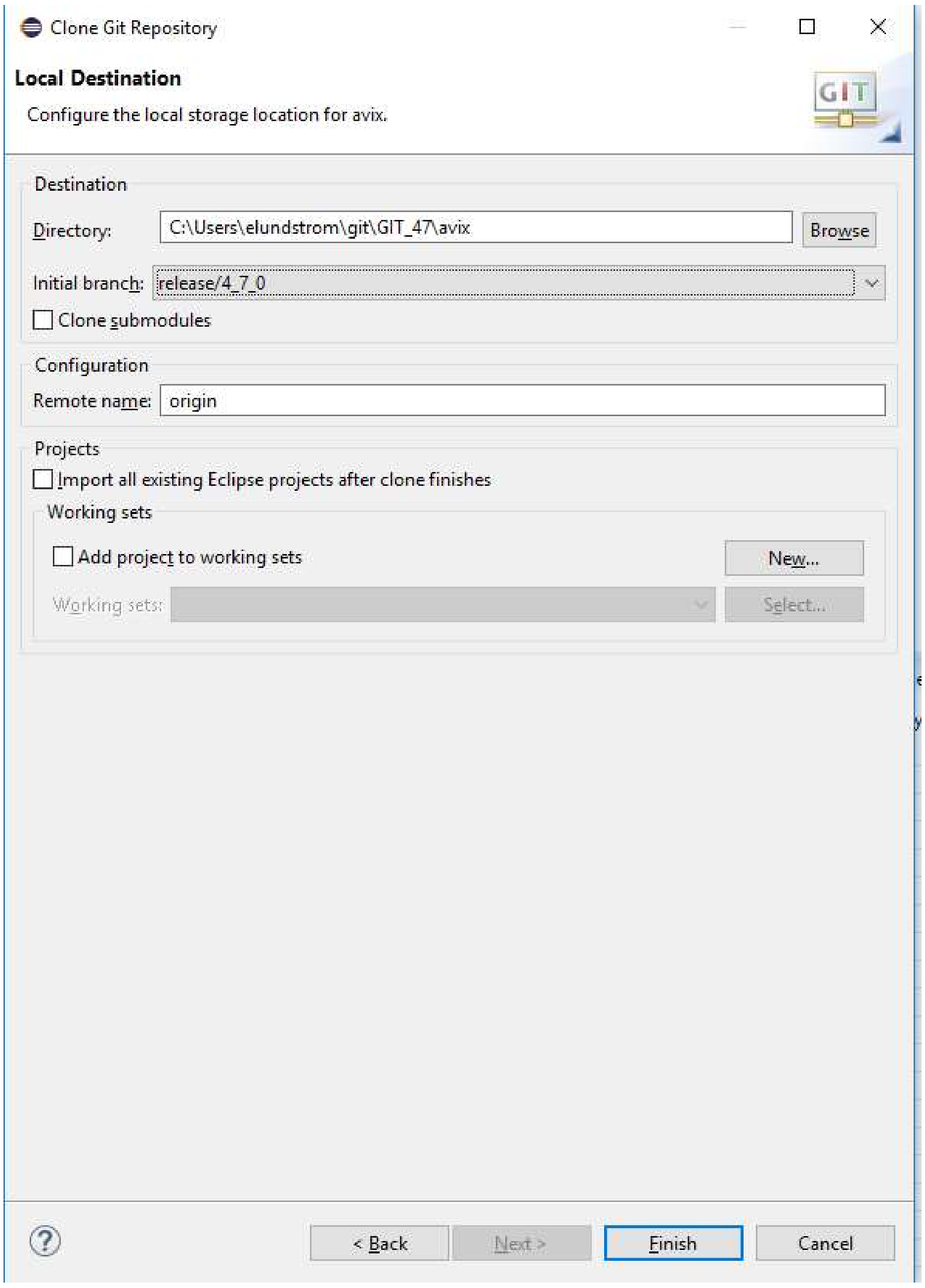
User: erik.lundstrom@solme.se

Password: •••••••••••••••

[✓] Store in Secure Store

On the next page, you'll select which branches to go for. Accept defaults (all) and go for Next.

On the "Local Destination" page, you will select where on your drive you will store the GIT clone. This may occupy quite a bit of space, just so that you know. I did my selection like this, but it is up to you where you want to store it.


Clone Git Repository

Local Destination

Configure the local storage location for avix.

Destination

Directory: C:\Users\elundstrom\git\GIT_47\avix

Initial branch: release/4_7_0

☐ Clone submodules

Configuration

Remote name: origin

Projects

☐ Import all existing Eclipse projects after clone finishes

Working sets

☐ Add project to working sets

Working sets:

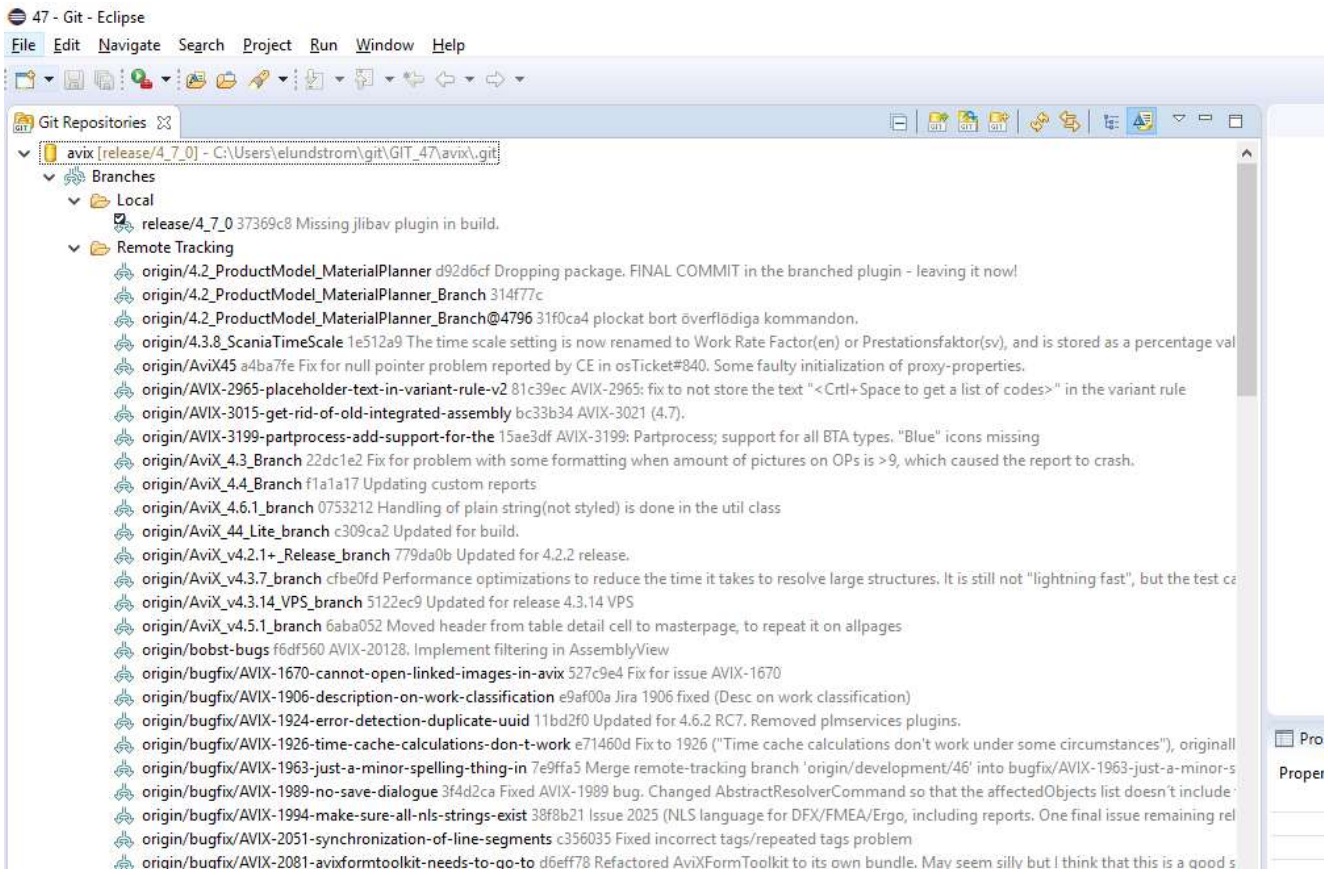
Note that I selected “release/4_7_0” as my initial branch. At the time of writing, this is the most current branch, so select it. (One can easily select other branches later on, so it is not a big deal. That is one of the fundamental advantages with GIT btw – easy branch creation and navigation).

Do not import existing projects. We’ll do it another way, just shortly. Click “Finish”, and eGIT (Eclipse GIT integration) will start the process. This may take a very long time – hour(s) if on a bad connection. So be patient!

INSPECTING THE RESULT IN GIT REPOSITORIES

Hopefully, your GIT clone was created effortlessly, and you even had some time for a lunch, coffe and a little walk.

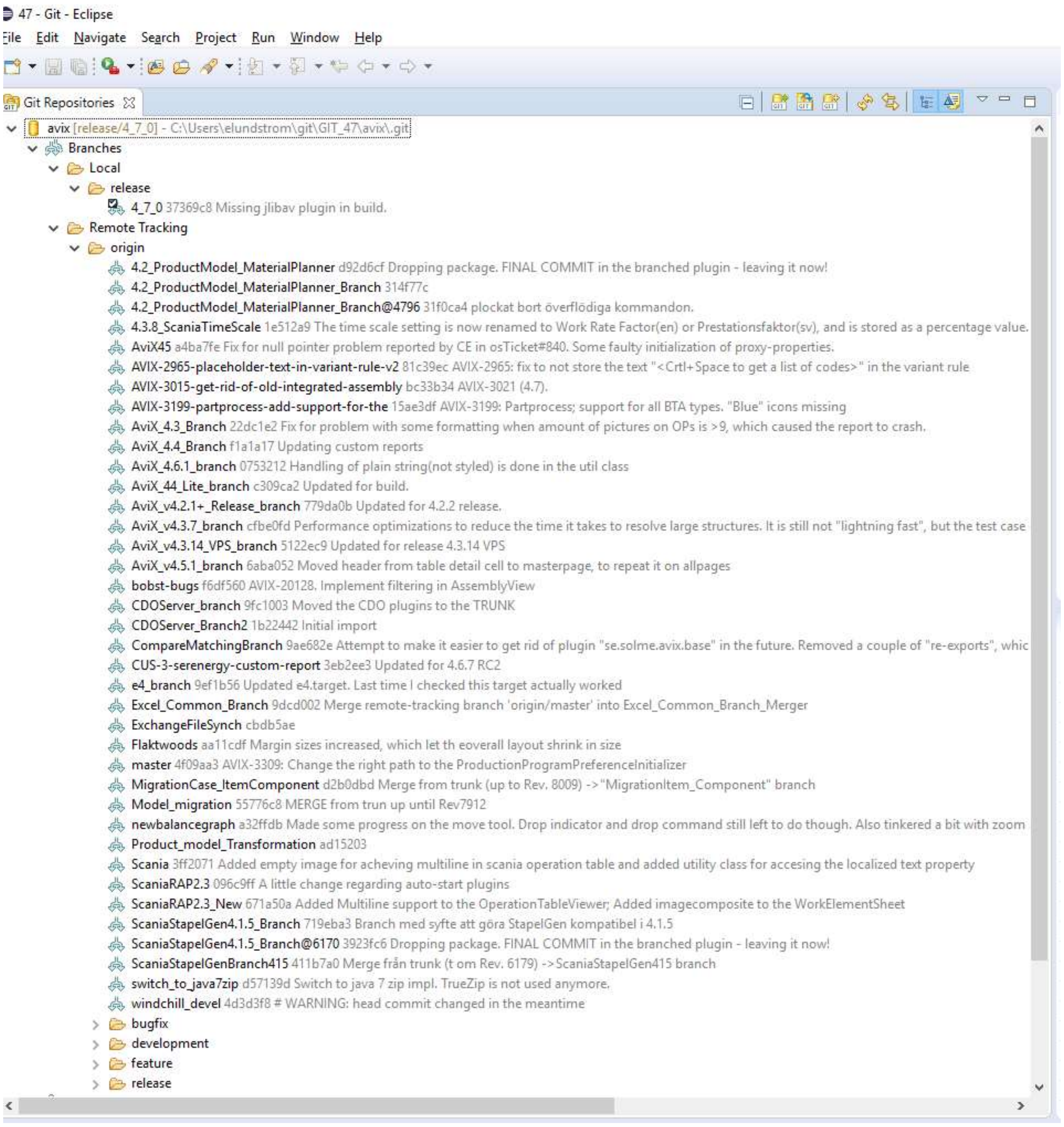
Your Git Repositories view should now contain something like this:



```
avix [release/4_7_0] - C:\Users\elundstrom\git\GIT_47\avix\.git
  Branches
    Local
      release/4_7_0 37369c8 Missing jlibav plugin in build.
    Remote Tracking
      origin/4.2_ProductModel_MaterialPlanner d92d6cf Dropping package. FINAL COMMIT in the branched plugin - leaving it now!
      origin/4.2_ProductModel_MaterialPlanner_Branch 314f77c
      origin/4.2_ProductModel_MaterialPlanner_Branch@4796 31f0ca4 plockat bort överflödiga kommandon.
      origin/4.3.8_ScaniaTimeScale 1e512a9 The time scale setting is now renamed to Work Rate Factor(en) or Prestationsfaktor(sv), and is stored as a percentage val
      origin/AviX45 a4ba7fe Fix for null pointer problem reported by CE in osTicket#840. Some faulty initialization of proxy-properties.
      origin/AVIX-2965-placeholder-text-in-variant-rule-v2 81c39ec AVIX-2965: fix to not store the text "<Crtl+Space to get a list of codes>" in the variant rule
      origin/AVIX-3015-get-rid-of-old-integrated-assembly bc33b34 AVIX-3021 (4.7).
      origin/AVIX-3199-partprocess-add-support-for-the 15ae3df AVIX-3199: Partprocess; support for all BTA types. "Blue" icons missing
      origin/AviX_4.3_Branch 22dc1e2 Fix for problem with some formatting when amount of pictures on OPs is >9, which caused the report to crash.
      origin/AviX_4.4_Branch f1a1a17 Updating custom reports
      origin/AviX_4.6.1_branch 0753212 Handling of plain string(not styled) is done in the util class
      origin/AviX_44_Lite_branch c309ca2 Updated for build.
      origin/AviX_v4.2.1+_Release_branch 779da0b Updated for 4.2.2 release.
      origin/AviX_v4.3.7_branch cfbe0fd Performance optimizations to reduce the time it takes to resolve large structures. It is still not "lightning fast", but the test ca
      origin/AviX_v4.3.14_VPS_branch 5122ec9 Updated for release 4.3.14 VPS
      origin/AviX_v4.5.1_branch 6aba052 Moved header from table detail cell to masterpage, to repeat it on allpages
      origin/bobst-bugs f6df560 AVIX-20128. Implement filtering in AssemblyView
      origin/bugfix/AVIX-1670-cannot-open-linked-images-in-avix 527c9e4 Fix for issue AVIX-1670
      origin/bugfix/AVIX-1906-description-on-work-classification e9af00a Jira 1906 fixed (Desc on work classification)
      origin/bugfix/AVIX-1924-error-detection-duplicate-uuid 11bd2f0 Updated for 4.6.2 RC7. Removed plmservices plugins.
      origin/bugfix/AVIX-1926-time-cache-calculations-don-t-work e71460d Fix to 1926 ("Time cache calculations don't work under some circumstances"), originall
      origin/bugfix/AVIX-1963-just-a-minor-spelling-thing-in 7e9ffa5 Merge remote-tracking branch 'origin/development/46' into bugfix/AVIX-1963-just-a-minor-s
      origin/bugfix/AVIX-1989-no-save-dialogue 3f4d2ca Fixed AVIX-1989 bug. Changed AbstractResolverCommand so that the affectedObjects list doesn't include
      origin/bugfix/AVIX-1994-make-sure-all-nls-strings-exist 38f8b21 Issue 2025 (NLS language for DFX/FMEA/Ergo, including reports. One final issue remaining rel
      origin/bugfix/AVIX-2051-synchronization-of-line-segments c356035 Fixed incorrect tags/repeated tags problem
      origin/bugfix/AVIX-2081-avixformtoolkit-needs-to-go-to d6eff78 Refactored AviXFormToolkit to its own bundle. May seem silly but I think that this is a good s
```

You see the name of the Git repository ("avix") here, as well as the Local branch you are currently in ("release/4_7_0"). We selected that in the "clone git repository", remember?

You also see all the existing "Remote" branches. Although we will not go into details regarding Git here (there are excellent resources on the web for that), a better UI organization IMHO is to select the little "arrow menu", go for "Hierarchical Branch Layout" and see the difference:



```
47 - Git - Eclipse
File  Edit  Navigate  Search  Project  Run  Window  Help

Git Repositories
v avix [release/4_7_0] - C:\Users\elundstrom\git\GIT_47\avix\.git
  v Branches
    v Local
      v release
          4_7_0 37369c8 Missing jlibav plugin in build.
    v Remote Tracking
      v origin
          4.2_ProductModel_MaterialPlanner d92d6cf Dropping package. FINAL COMMIT in the branched plugin - leaving it now!
          4.2_ProductModel_MaterialPlanner_Branch 314f77c
          4.2_ProductModel_MaterialPlanner_Branch@4796 31f0ca4 plockat bort överflödiga kommandon.
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          AviX_4.4_Branch f1a1a17 Updating custom reports
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          AviX_v4.2.1+_Release_branch 779da0b Updated for 4.2.2 release.
          AviX_v4.3.7_branch cfbe0fd Performance optimizations to reduce the time it takes to resolve large structures. It is still not "lightning fast", but the test case
          AviX_v4.3.14_VPS_branch 5122ec9 Updated for release 4.3.14 VPS
          AviX_v4.5.1_branch 6aba052 Moved header from table detail cell to masterpage, to repeat it on allpages
          bobst-bugs f6df560 AVIX-20128. Implement filtering in AssemblyView
          CDOServer_branch 9fc1003 Moved the CDO plugins to the TRUNK
          CDOServer_Branch2 1b22442 Initial import
          CompareMatchingBranch 9ae682e Attempt to make it easier to get rid of plugin "se.solme.avix.base" in the future. Removed a couple of "re-exports", whic
          CUS-3-serenergy-custom-report 3eb2ee3 Updated for 4.6.7 RC2
          e4_branch 9ef1b56 Updated e4.target. Last time I checked this target actually worked
          Excel_Common_Branch 9dcd002 Merge remote-tracking branch 'origin/master' into Excel_Common_Branch_Merger
          ExchangeFileSynch cbdb5ae
          Flaktwoods aa11cdf Margin sizes increased, which let th eoverall layout shrink in size
          master 4f09aa3 AVIX-3309: Change the right path to the ProductionProgramPreferenceInitializer
          MigrationCase_ItemComponent d2b0dbd Merge from trunk (up to Rev. 8009) -> "MigrationItem_Component" branch
          Model_migration 55776c8 MERGE from trun up until Rev7912
          newbalancegraph a32ffdb Made some progress on the move tool. Drop indicator and drop command still left to do though. Also tinkered a bit with zoom
          Product_model_Transformation ad15203
          Scania 3ff2071 Added empty image for acheving multiline in scania operation table and added utility class for accesing the localized text property
          ScaniaRAP2.3 096c9ff A little change regarding auto-start plugins
          ScaniaRAP2.3_New 671a50a Added Multiline support to the OperationTableViewer; Added imagecomposite to the WorkElementSheet
          ScaniaStapelGen4.1.5_Branch 719eba3 Branch med syfte att göra StapelGen kompatibel i 4.1.5
          ScaniaStapelGen4.1.5_Branch@6170 3923fc6 Dropping package. FINAL COMMIT in the branched plugin - leaving it now!
          ScaniaStapelGenBranch415 411b7a0 Merge från trunk (t om Rev. 6179) -> ScaniaStapelGen415 branch
          switch_to_java7zip d57139d Switch to java 7 zip impl. TrueZip is not used anymore.
          windchill_devel 4d3d3f8 # WARNING: head commit changed in the meantime
        > bugfix
        > development
        > feature
        > release
```

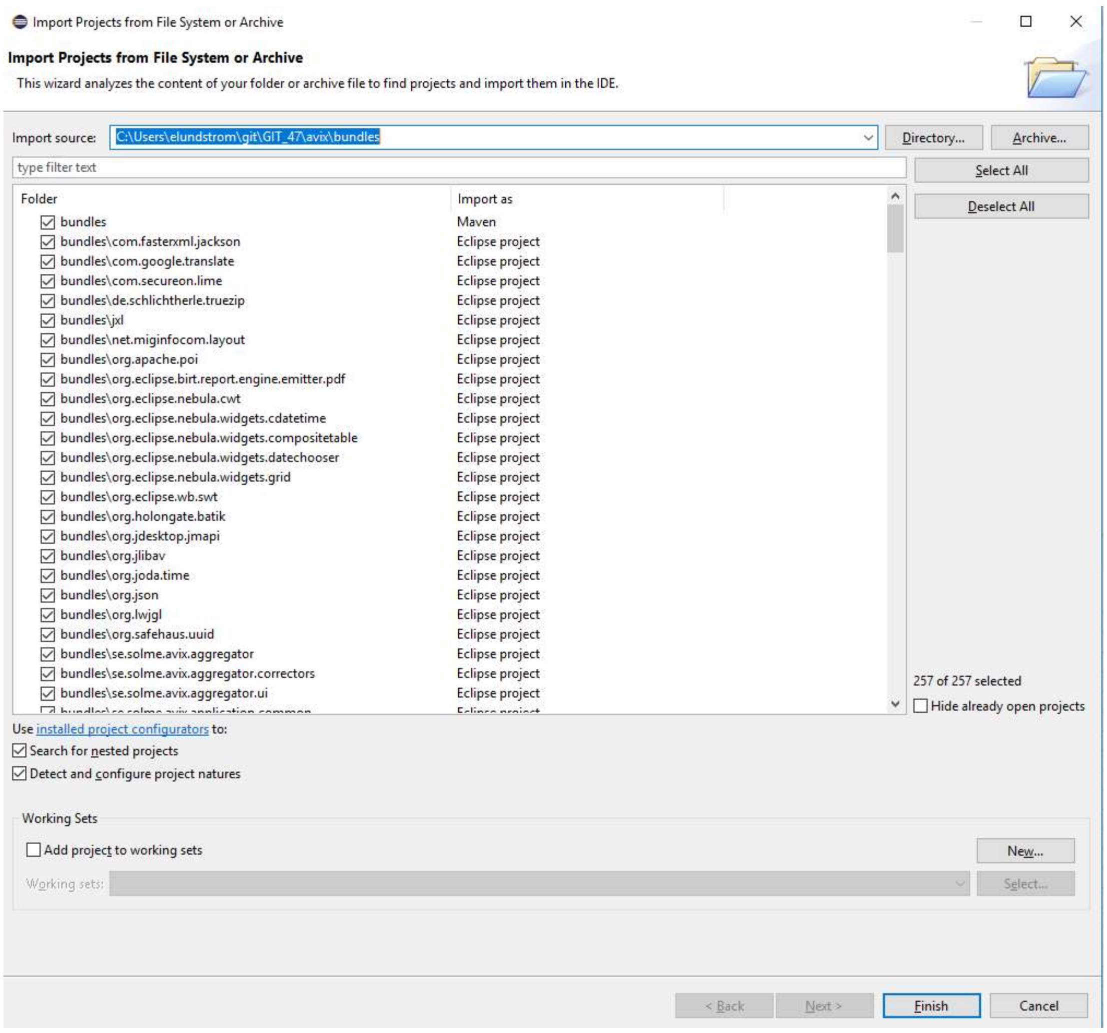
As you see, eGIT displays the branches as good as it can. All the branches directly under “origin” is just because we didn’t position them in a good way from the beginning.

GET THE AVIX PLUGINS INTO YOUR PDE

OK, so now you have all the source code cloned onto your hard drive. But if you jump pack to the PDE perspective, the “Project Explorer” will still be empty. That will not remain this way for a long time – this is where we want all the AviX plugin projects to be presented.

In order to get to that, you will need to “import projects” into your so-called working directory. Start out by right-clicking on the “bundles” folder (under the “Working Tree” folder) in the Git Repositories view, and select “Import Projects…”. Be patient, this may take some time.

You will be presented with something like this:



Import Projects from File System or Archive

Import Projects from File System or Archive

This wizard analyzes the content of your folder or archive file to find projects and import them in the IDE.

Import source: C:\Users\elundstrom\git\GIT_47\avix\bundles

type filter text

Folder	Import as
✓ bundles	Maven
✓ bundles\com.fasterxml.jackson	Eclipse project
✓ bundles\com.google.translate	Eclipse project
✓ bundles\com.secureon.lime	Eclipse project
✓ bundles\de.schlichtherle.truezip	Eclipse project
✓ bundles\jxl	Eclipse project
✓ bundles\net.miginfocom.layout	Eclipse project
✓ bundles\org.apache.poi	Eclipse project
✓ bundles\org.eclipse.birt.report.engine.emitter.pdf	Eclipse project
✓ bundles\org.eclipse.nebula.cwt	Eclipse project
✓ bundles\org.eclipse.nebula.widgets.cdatetime	Eclipse project
✓ bundles\org.eclipse.nebula.widgets.compositetable	Eclipse project
✓ bundles\org.eclipse.nebula.widgets.datechooser	Eclipse project
✓ bundles\org.eclipse.nebula.widgets.grid	Eclipse project
✓ bundles\org.eclipse.wb.swt	Eclipse project
✓ bundles\org.holongate.batik	Eclipse project
✓ bundles\org.jdesktop.jmapi	Eclipse project
✓ bundles\org.jlibav	Eclipse project
✓ bundles\org.joda.time	Eclipse project
✓ bundles\org.json	Eclipse project
✓ bundles\org.lwjgl	Eclipse project
✓ bundles\org.safehaus.uuid	Eclipse project
✓ bundles\se.solme.avix.aggregator	Eclipse project
✓ bundles\se.solme.avix.aggregator.correctors	Eclipse project
✓ bundles\se.solme.avix.aggregator.ui	Eclipse project

257 of 257 selected

☐ Hide already open projects

Use installed project configurators to:

✓ Search for nested projects

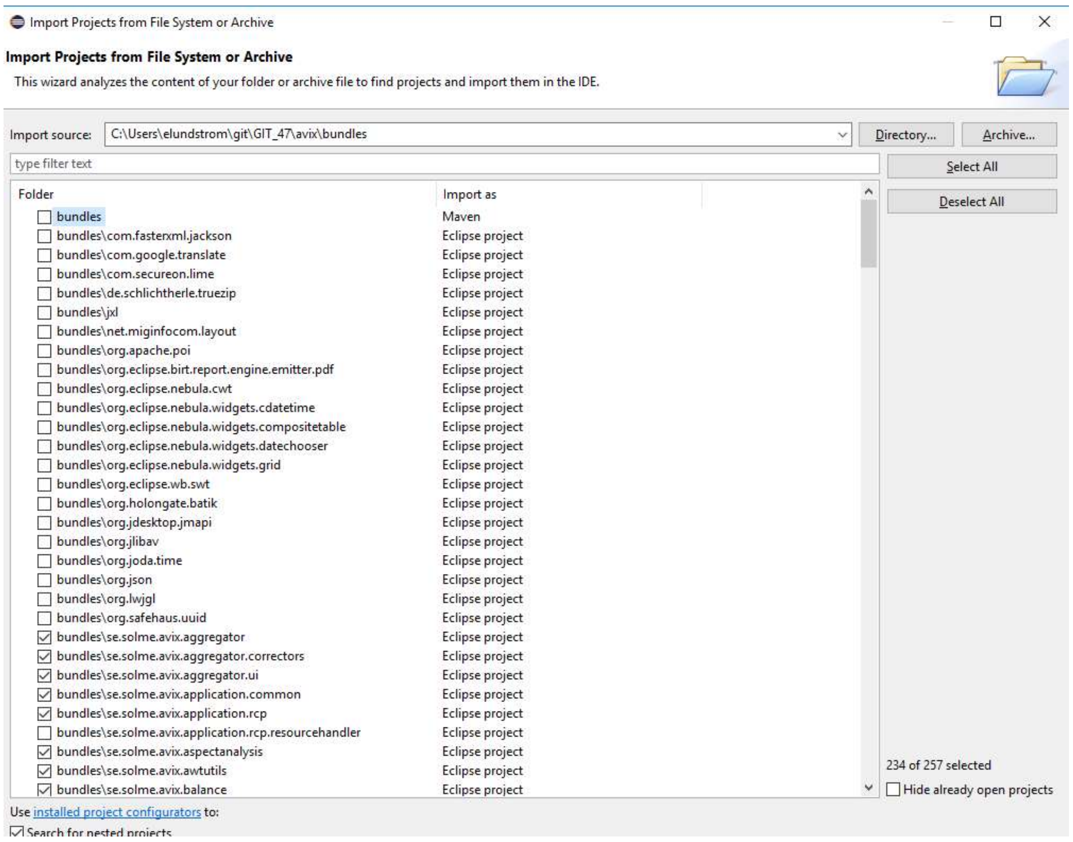
✓ Detect and configure project natures

Working Sets

☐ Add project to working sets

Working sets:

Now, I don’t actually want you to import everything here. Do the selections according to the following images, and try to select just the ones I have. It is a bit tedious, sorry.



Import Projects from File System or Archive

Import Projects from File System or Archive

This wizard analyzes the content of your folder or archive file to find projects and import them in the IDE.

Import source: C:\Users\elundstrom\git\GIT_47\avix\bundles

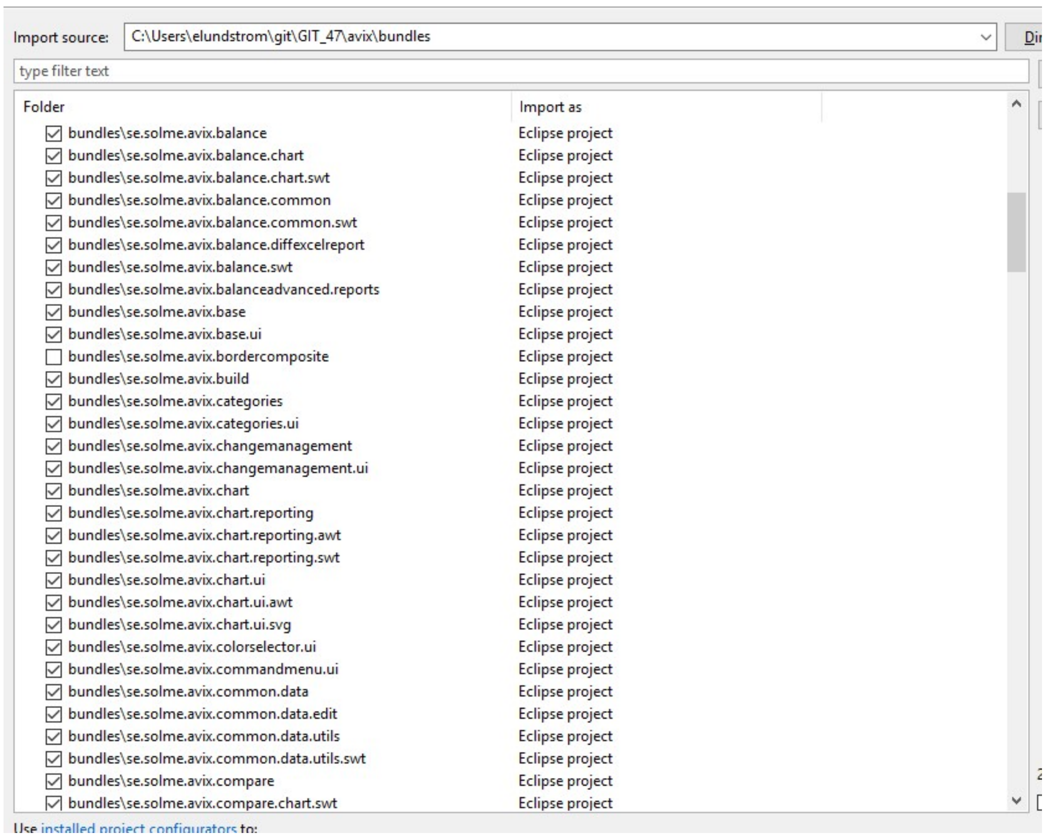
	Folder	Import as
☐	bundles	Maven
☐	bundles\com.fasterxml.jackson	Eclipse project
☐	bundles\com.google.translate	Eclipse project
☐	bundles\com.secureon.lime	Eclipse project
☐	bundles\de.schlichtherle.truezip	Eclipse project
☐	bundles\jxl	Eclipse project
☐	bundles\net.miginfocom.layout	Eclipse project
☐	bundles\org.apache.poi	Eclipse project
☐	bundles\org.eclipse.birt.report.engine.emitter.pdf	Eclipse project
☐	bundles\org.eclipse.nebula.cwt	Eclipse project
☐	bundles\org.eclipse.nebula.widgets.cdatetime	Eclipse project
☐	bundles\org.eclipse.nebula.widgets.compositetable	Eclipse project
☐	bundles\org.eclipse.nebula.widgets.datechooser	Eclipse project
☐	bundles\org.eclipse.nebula.widgets.grid	Eclipse project
☐	bundles\org.eclipse.wb.swt	Eclipse project
☐	bundles\org.holongate.batik	Eclipse project
☐	bundles\org.jdesktop.jmapi	Eclipse project
☐	bundles\org.jlibav	Eclipse project
☐	bundles\org.joda.time	Eclipse project
☐	bundles\org.json	Eclipse project
☐	bundles\org.lwjgl	Eclipse project
☐	bundles\org.safehaus.uuid	Eclipse project
☑	bundles\se.solme.avix.aggregator	Eclipse project
☑	bundles\se.solme.avix.aggregator.correctors	Eclipse project
☑	bundles\se.solme.avix.aggregator.ui	Eclipse project
☑	bundles\se.solme.avix.application.common	Eclipse project
☑	bundles\se.solme.avix.application.rcp	Eclipse project
☐	bundles\se.solme.avix.application.rcp.resourcehandler	Eclipse project
☑	bundles\se.solme.avix.aspectanalysis	Eclipse project
☑	bundles\se.solme.avix.awtutils	Eclipse project
☑	bundles\se.solme.avix.balance	Eclipse project

234 of 257 selected

☐ Hide already open projects

Use installed project configurators to:

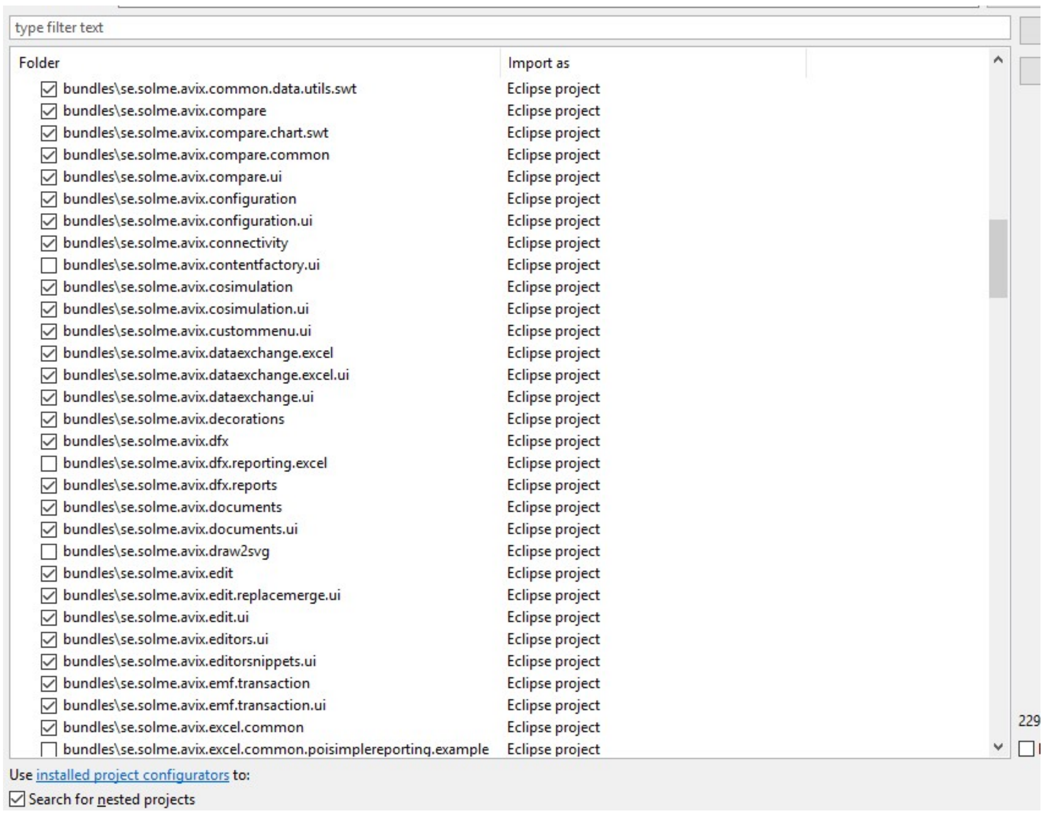
☑ Search for nested projects



Import source: C:\Users\elundstrom\git\GIT_47\avix\bundles

	Folder	Import as
☑	bundles\se.solme.avix.balance	Eclipse project
☑	bundles\se.solme.avix.balance.chart	Eclipse project
☑	bundles\se.solme.avix.balance.chart.swt	Eclipse project
☑	bundles\se.solme.avix.balance.common	Eclipse project
☑	bundles\se.solme.avix.balance.common.swt	Eclipse project
☑	bundles\se.solme.avix.balance.diffexcelreport	Eclipse project
☑	bundles\se.solme.avix.balance.swt	Eclipse project
☑	bundles\se.solme.avix.balanceadvanced.reports	Eclipse project
☑	bundles\se.solme.avix.base	Eclipse project
☑	bundles\se.solme.avix.base.ui	Eclipse project
☐	bundles\se.solme.avix.bordercomposite	Eclipse project
☑	bundles\se.solme.avix.build	Eclipse project
☑	bundles\se.solme.avix.categories	Eclipse project
☑	bundles\se.solme.avix.categories.ui	Eclipse project
☑	bundles\se.solme.avix.changemanagement	Eclipse project
☑	bundles\se.solme.avix.changemanagement.ui	Eclipse project
☑	bundles\se.solme.avix.chart	Eclipse project
☑	bundles\se.solme.avix.chart.reporting	Eclipse project
☑	bundles\se.solme.avix.chart.reporting.awt	Eclipse project
☑	bundles\se.solme.avix.chart.reporting.swt	Eclipse project
☑	bundles\se.solme.avix.chart.ui	Eclipse project
☑	bundles\se.solme.avix.chart.ui.awt	Eclipse project
☑	bundles\se.solme.avix.chart.ui.svg	Eclipse project
☑	bundles\se.solme.avix.colorselector.ui	Eclipse project
☑	bundles\se.solme.avix.commandmenu.ui	Eclipse project
☑	bundles\se.solme.avix.common.data	Eclipse project
☑	bundles\se.solme.avix.common.data.edit	Eclipse project
☑	bundles\se.solme.avix.common.data.utils	Eclipse project
☑	bundles\se.solme.avix.common.data.utils.swt	Eclipse project
☑	bundles\se.solme.avix.compare	Eclipse project
☑	bundles\se.solme.avix.compare.chart.swt	Eclipse project

Use installed project configurators to:



type filter text

	Folder	Import as
☑	bundles\se.solme.avix.common.data.utils.swt	Eclipse project
☑	bundles\se.solme.avix.compare	Eclipse project
☑	bundles\se.solme.avix.compare.chart.swt	Eclipse project
☑	bundles\se.solme.avix.compare.common	Eclipse project
☑	bundles\se.solme.avix.compare.ui	Eclipse project
☑	bundles\se.solme.avix.configuration	Eclipse project
☑	bundles\se.solme.avix.configuration.ui	Eclipse project
☑	bundles\se.solme.avix.connectivity	Eclipse project
☐	bundles\se.solme.avix.contentfactory.ui	Eclipse project
☑	bundles\se.solme.avix.cosimulation	Eclipse project
☑	bundles\se.solme.avix.cosimulation.ui	Eclipse project
☑	bundles\se.solme.avix.custommenu.ui	Eclipse project
☑	bundles\se.solme.avix.dataexchange.excel	Eclipse project
☑	bundles\se.solme.avix.dataexchange.excel.ui	Eclipse project
☑	bundles\se.solme.avix.dataexchange.ui	Eclipse project
☑	bundles\se.solme.avix.decorations	Eclipse project
☑	bundles\se.solme.avix.dfx	Eclipse project
☐	bundles\se.solme.avix.dfx.reporting.excel	Eclipse project
☑	bundles\se.solme.avix.dfx.reports	Eclipse project
☑	bundles\se.solme.avix.documents	Eclipse project
☑	bundles\se.solme.avix.documents.ui	Eclipse project
☐	bundles\se.solme.avix.draw2svg	Eclipse project
☑	bundles\se.solme.avix.edit	Eclipse project
☑	bundles\se.solme.avix.edit.replacemerge.ui	Eclipse project
☑	bundles\se.solme.avix.edit.ui	Eclipse project
☑	bundles\se.solme.avix.editors.ui	Eclipse project
☑	bundles\se.solme.avix.editorsnippets.ui	Eclipse project
☑	bundles\se.solme.avix.emf.transaction	Eclipse project
☑	bundles\se.solme.avix.emf.transaction.ui	Eclipse project
☑	bundles\se.solme.avix.excel.common	Eclipse project
☐	bundles\se.solme.avix.excel.common.poisimplereporting.example	Eclipse project

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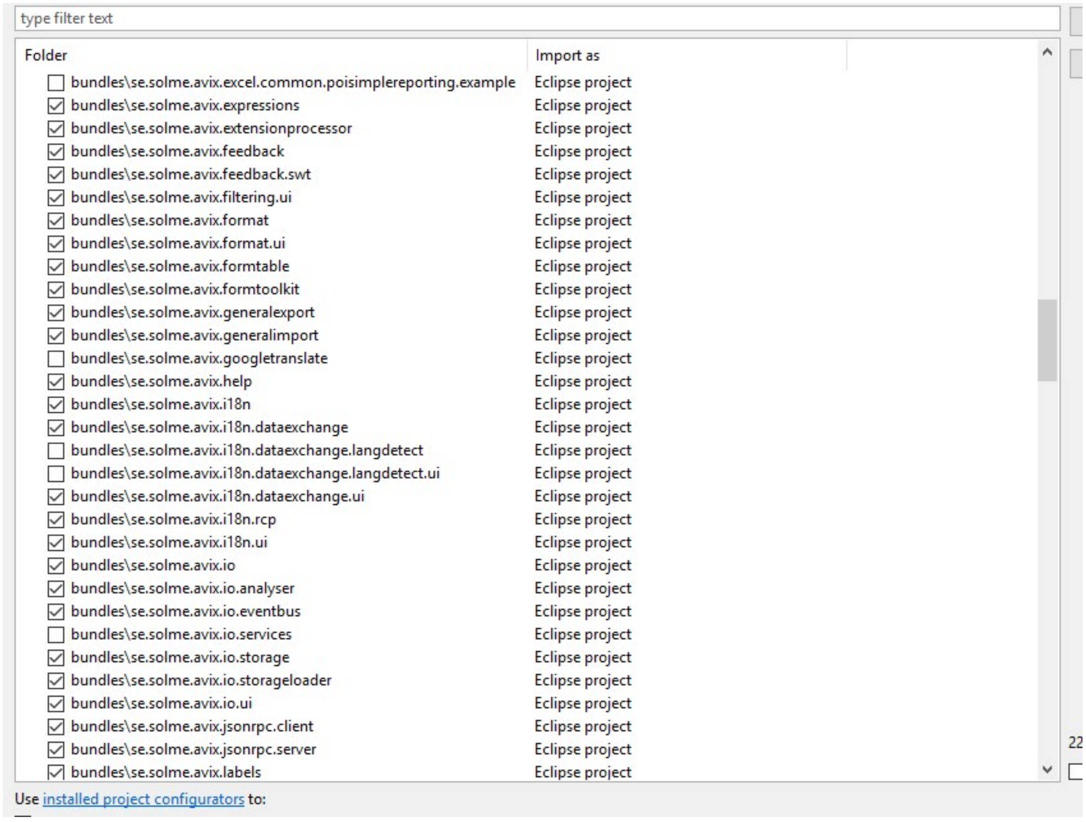
Use installed project configurators to:

☑ Search for nested projects



type filter text

	Folder	Import as
☐	bundles\se.solme.avix.excel.common.poisimplereporting.example	Eclipse project
☑	bundles\se.solme.avix.expressions	Eclipse project
☑	bundles\se.solme.avix.extensionprocessor	Eclipse project
☑	bundles\se.solme.avix.feedback	Eclipse project
☑	bundles\se.solme.avix.feedback.swt	Eclipse project
☑	bundles\se.solme.avix.filtering.ui	Eclipse project
☑	bundles\se.solme.avix.format	Eclipse project
☑	bundles\se.solme.avix.format.ui	Eclipse project
☑	bundles\se.solme.avix.formtable	Eclipse project
☑	bundles\se.solme.avix.formtoolkit	Eclipse project
☑	bundles\se.solme.avix.generalexport	Eclipse project
☑	bundles\se.solme.avix.generalimport	Eclipse project
☐	bundles\se.solme.avix.googletranslate	Eclipse project
☑	bundles\se.solme.avix.help	Eclipse project
☑	bundles\se.solme.avix.i18n	Eclipse project
☑	bundles\se.solme.avix.i18n.dataexchange	Eclipse project
☐	bundles\se.solme.avix.i18n.dataexchange.langdetect	Eclipse project
☐	bundles\se.solme.avix.i18n.dataexchange.langdetect.ui	Eclipse project
☑	bundles\se.solme.avix.i18n.dataexchange.ui	Eclipse project
☑	bundles\se.solme.avix.i18n.rcp	Eclipse project
☑	bundles\se.solme.avix.i18n.ui	Eclipse project
☑	bundles\se.solme.avix.io	Eclipse project
☑	bundles\se.solme.avix.io.analyser	Eclipse project
☑	bundles\se.solme.avix.io.eventbus	Eclipse project
☐	bundles\se.solme.avix.io.services	Eclipse project
☑	bundles\se.solme.avix.io.storage	Eclipse project
☑	bundles\se.solme.avix.io.storageloader	Eclipse project
☑	bundles\se.solme.avix.io.ui	Eclipse project
☑	bundles\se.solme.avix.jsonrpc.client	Eclipse project
☑	bundles\se.solme.avix.jsonrpc.server	Eclipse project
☑	bundles\se.solme.avix.labels	Eclipse project

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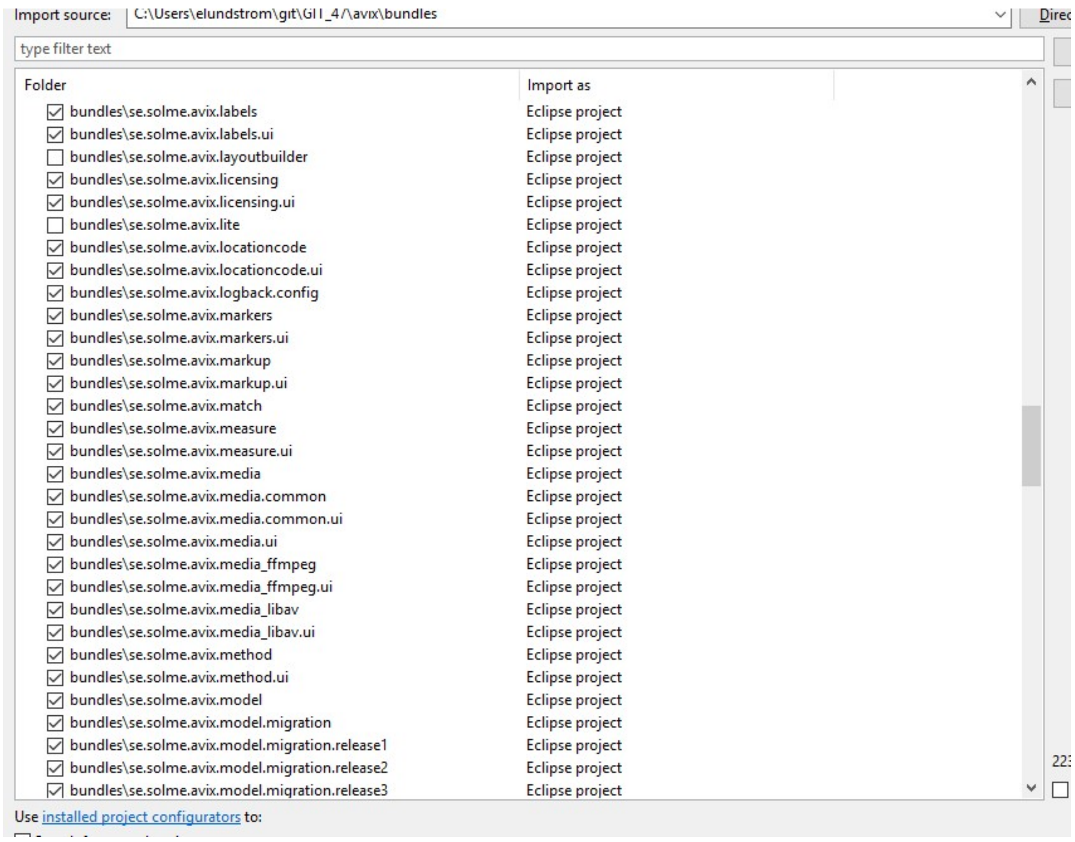
Use installed project configurators to:



Import source: C:\Users\elundstrom\git\GIT_47\avix\bundles Direc

type filter text

Folder	Import as
☑ bundles\se.solme.avix.labels	Eclipse project
☑ bundles\se.solme.avix.labels.ui	Eclipse project
☐ bundles\se.solme.avix.layoutbuilder	Eclipse project
☑ bundles\se.solme.avix.licensing	Eclipse project
☑ bundles\se.solme.avix.licensing.ui	Eclipse project
☐ bundles\se.solme.avix.lite	Eclipse project
☑ bundles\se.solme.avix.locationcode	Eclipse project
☑ bundles\se.solme.avix.locationcode.ui	Eclipse project
☑ bundles\se.solme.avix.logback.config	Eclipse project
☑ bundles\se.solme.avix.markers	Eclipse project
☑ bundles\se.solme.avix.markers.ui	Eclipse project
☑ bundles\se.solme.avix.markup	Eclipse project
☑ bundles\se.solme.avix.markup.ui	Eclipse project
☑ bundles\se.solme.avix.match	Eclipse project
☑ bundles\se.solme.avix.measure	Eclipse project
☑ bundles\se.solme.avix.measure.ui	Eclipse project
☑ bundles\se.solme.avix.media	Eclipse project
☑ bundles\se.solme.avix.media.common	Eclipse project
☑ bundles\se.solme.avix.media.common.ui	Eclipse project
☑ bundles\se.solme.avix.media.ui	Eclipse project
☑ bundles\se.solme.avix.media_ffmpeg	Eclipse project
☑ bundles\se.solme.avix.media_ffmpeg.ui	Eclipse project
☑ bundles\se.solme.avix.media_libav	Eclipse project
☑ bundles\se.solme.avix.media_libav.ui	Eclipse project
☑ bundles\se.solme.avix.method	Eclipse project
☑ bundles\se.solme.avix.method.ui	Eclipse project
☑ bundles\se.solme.avix.model	Eclipse project
☑ bundles\se.solme.avix.model.migration	Eclipse project
☑ bundles\se.solme.avix.model.migration.release1	Eclipse project
☑ bundles\se.solme.avix.model.migration.release2	Eclipse project
☑ bundles\se.solme.avix.model.migration.release3	Eclipse project

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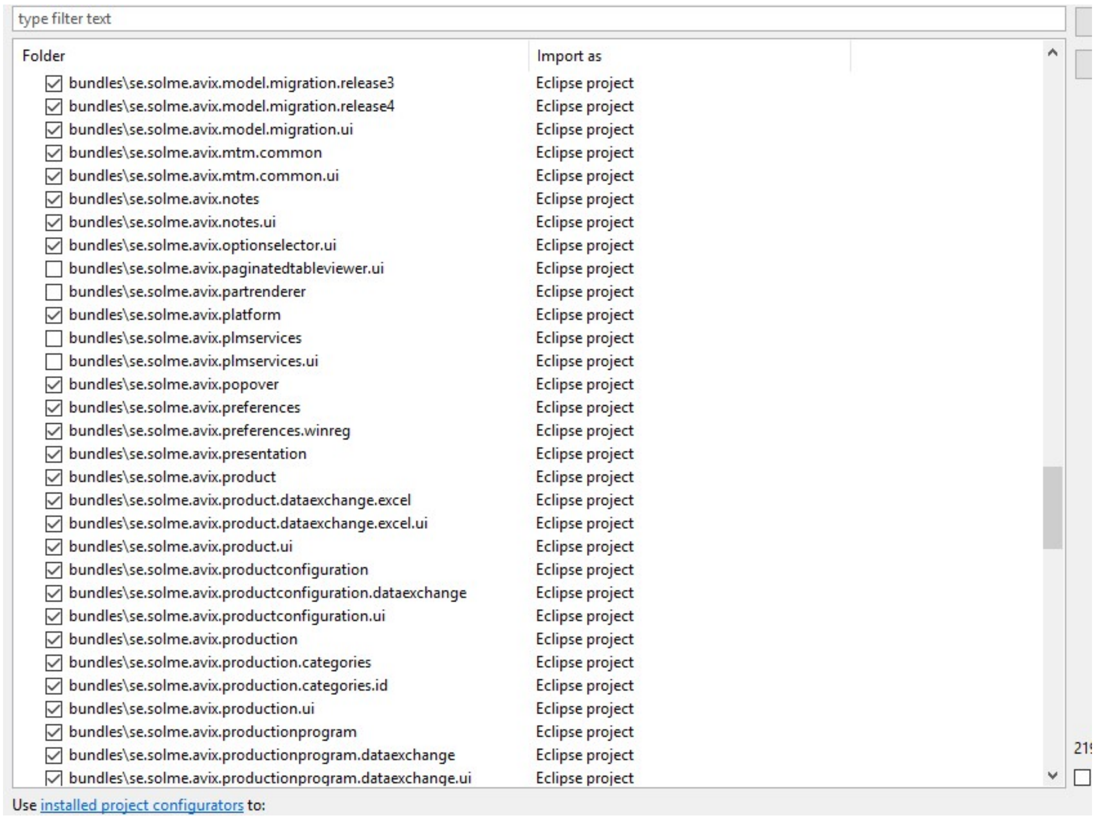
Use installed project configurators to:



type filter text

Folder	Import as
☑ bundles\se.solme.avix.model.migration.release3	Eclipse project
☑ bundles\se.solme.avix.model.migration.release4	Eclipse project
☑ bundles\se.solme.avix.model.migration.ui	Eclipse project
☑ bundles\se.solme.avix.mtm.common	Eclipse project
☑ bundles\se.solme.avix.mtm.common.ui	Eclipse project
☑ bundles\se.solme.avix.notes	Eclipse project
☑ bundles\se.solme.avix.notes.ui	Eclipse project
☑ bundles\se.solme.avix.optionselector.ui	Eclipse project
☐ bundles\se.solme.avix.paginatedtableviewer.ui	Eclipse project
☐ bundles\se.solme.avix.partrenderer	Eclipse project
☑ bundles\se.solme.avix.platform	Eclipse project
☐ bundles\se.solme.avix.plmservices	Eclipse project
☐ bundles\se.solme.avix.plmservices.ui	Eclipse project
☑ bundles\se.solme.avix.popover	Eclipse project
☑ bundles\se.solme.avix.preferences	Eclipse project
☑ bundles\se.solme.avix.preferences.winreg	Eclipse project
☑ bundles\se.solme.avix.presentation	Eclipse project
☑ bundles\se.solme.avix.product	Eclipse project
☑ bundles\se.solme.avix.product.dataexchange.excel	Eclipse project
☑ bundles\se.solme.avix.product.dataexchange.excel.ui	Eclipse project
☑ bundles\se.solme.avix.product.ui	Eclipse project
☑ bundles\se.solme.avix.productconfiguration	Eclipse project
☑ bundles\se.solme.avix.productconfiguration.dataexchange	Eclipse project
☑ bundles\se.solme.avix.productconfiguration.ui	Eclipse project
☑ bundles\se.solme.avix.production	Eclipse project
☑ bundles\se.solme.avix.production.categories	Eclipse project
☑ bundles\se.solme.avix.production.categories.id	Eclipse project
☑ bundles\se.solme.avix.production.ui	Eclipse project
☑ bundles\se.solme.avix.productionprogram	Eclipse project
☑ bundles\se.solme.avix.productionprogram.dataexchange	Eclipse project
☑ bundles\se.solme.avix.productionprogram.dataexchange.ui	Eclipse project

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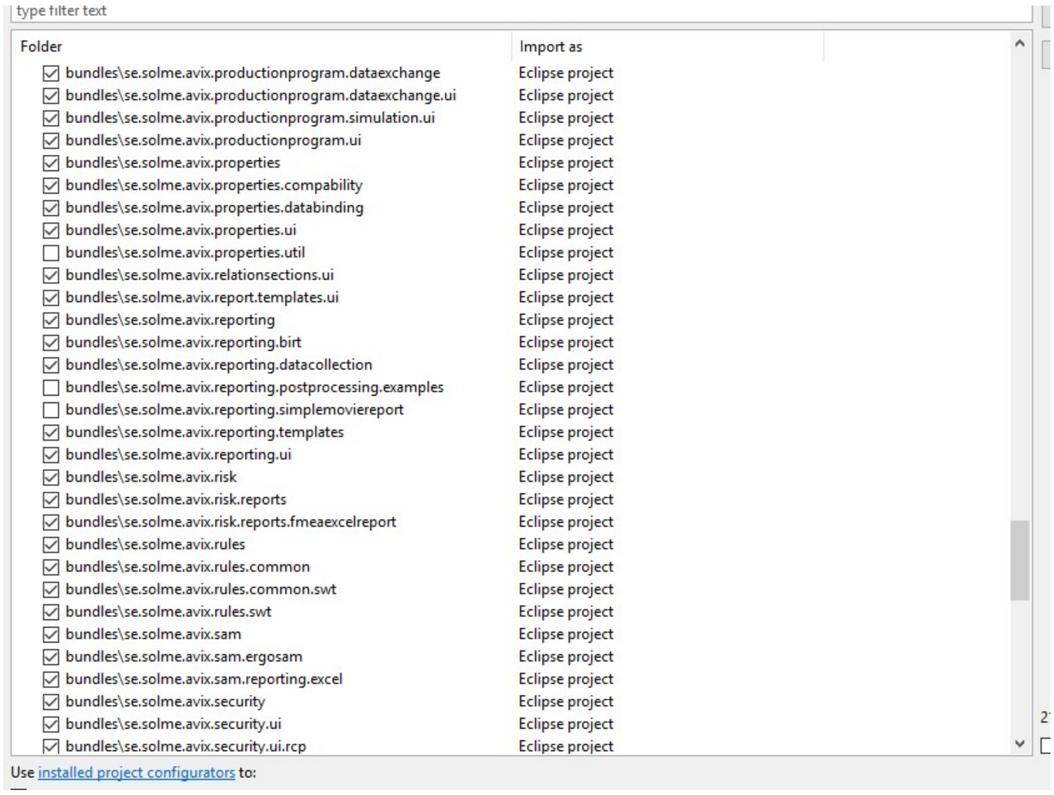
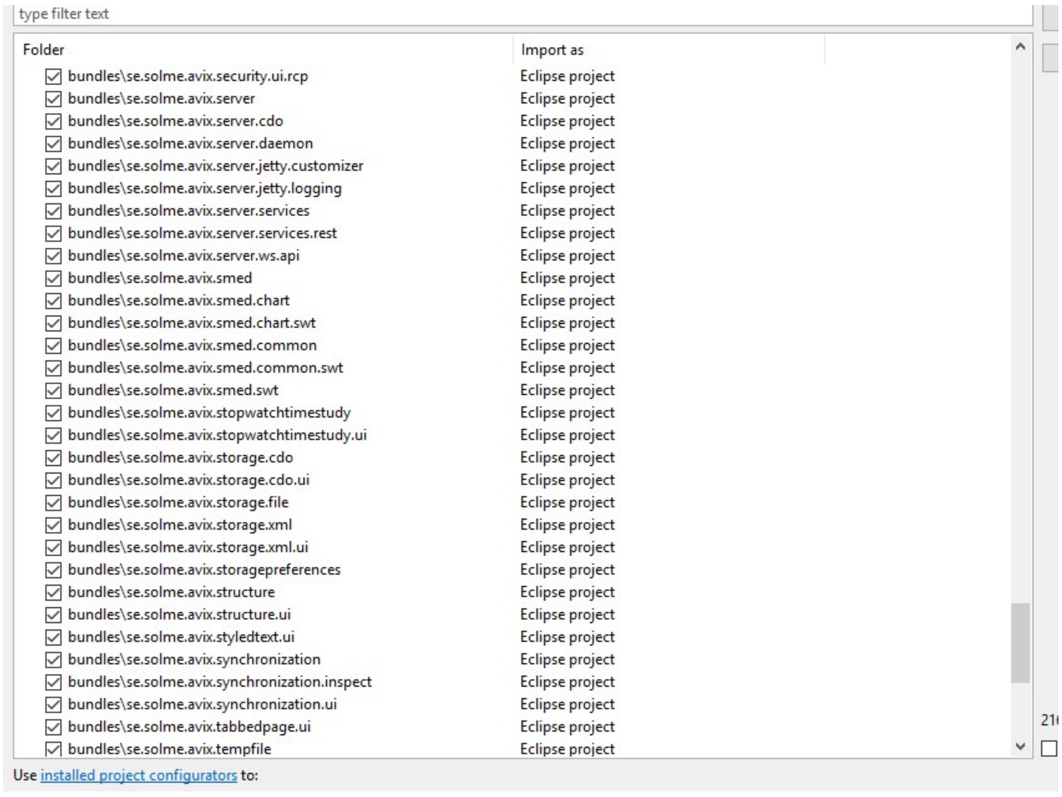
Use installed project configurators to:



type filter text

Folder	Import as
☑ bundles\se.solme.avix.productionprogram.dataexchange	Eclipse project
☑ bundles\se.solme.avix.productionprogram.dataexchange.ui	Eclipse project
☑ bundles\se.solme.avix.productionprogram.simulation.ui	Eclipse project
☑ bundles\se.solme.avix.productionprogram.ui	Eclipse project
☑ bundles\se.solme.avix.properties	Eclipse project
☑ bundles\se.solme.avix.properties.compability	Eclipse project
☑ bundles\se.solme.avix.properties.databinding	Eclipse project
☑ bundles\se.solme.avix.properties.ui	Eclipse project
☐ bundles\se.solme.avix.properties.util	Eclipse project
☑ bundles\se.solme.avix.relationsections.ui	Eclipse project
☑ bundles\se.solme.avix.report.templates.ui	Eclipse project
☑ bundles\se.solme.avix.reporting	Eclipse project
☑ bundles\se.solme.avix.reporting.birt	Eclipse project
☑ bundles\se.solme.avix.reporting.datacollection	Eclipse project
☐ bundles\se.solme.avix.reporting.postprocessing.examples	Eclipse project
☐ bundles\se.solme.avix.reporting.simplemoviereport	Eclipse project
☑ bundles\se.solme.avix.reporting.templates	Eclipse project
☑ bundles\se.solme.avix.reporting.ui	Eclipse project
☑ bundles\se.solme.avix.risk	Eclipse project
☑ bundles\se.solme.avix.risk.reports	Eclipse project
☑ bundles\se.solme.avix.risk.reports.fmeaexcelreport	Eclipse project
☑ bundles\se.solme.avix.rules	Eclipse project
☑ bundles\se.solme.avix.rules.common	Eclipse project
☑ bundles\se.solme.avix.rules.common.swt	Eclipse project
☑ bundles\se.solme.avix.rules.swt	Eclipse project
☑ bundles\se.solme.avix.sam	Eclipse project
☑ bundles\se.solme.avix.sam.ergosam	Eclipse project
☑ bundles\se.solme.avix.sam.reporting.excel	Eclipse project
☑ bundles\se.solme.avix.security	Eclipse project
☑ bundles\se.solme.avix.security.ui	Eclipse project
☑ bundles\se.solme.avix.security.ui.rcp	Eclipse project

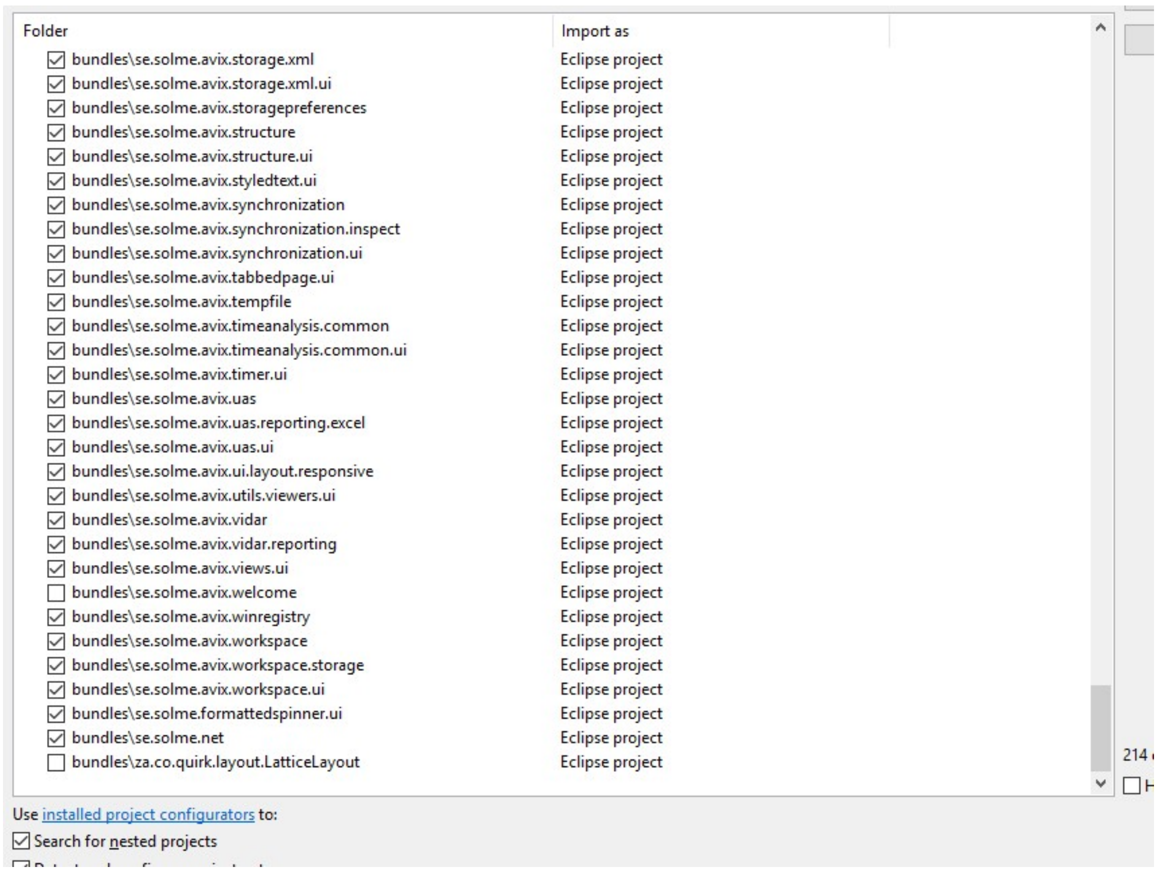
Use installed project configurators to:



type filter text

Folder	Import as
☑ bundles\se.solme.avix.security.ui.rcp	Eclipse project
☑ bundles\se.solme.avix.server	Eclipse project
☑ bundles\se.solme.avix.server.cdo	Eclipse project
☑ bundles\se.solme.avix.server.daemon	Eclipse project
☑ bundles\se.solme.avix.server.jetty.customizer	Eclipse project
☑ bundles\se.solme.avix.server.jetty.logging	Eclipse project
☑ bundles\se.solme.avix.server.services	Eclipse project
☑ bundles\se.solme.avix.server.services.rest	Eclipse project
☑ bundles\se.solme.avix.server.ws.api	Eclipse project
☑ bundles\se.solme.avix.smed	Eclipse project
☑ bundles\se.solme.avix.smed.chart	Eclipse project
☑ bundles\se.solme.avix.smed.chart.swt	Eclipse project
☑ bundles\se.solme.avix.smed.common	Eclipse project
☑ bundles\se.solme.avix.smed.common.swt	Eclipse project
☑ bundles\se.solme.avix.smed.swt	Eclipse project
☑ bundles\se.solme.avix.stopwatchtimestudy	Eclipse project
☑ bundles\se.solme.avix.stopwatchtimestudy.ui	Eclipse project
☑ bundles\se.solme.avix.storage.cdo	Eclipse project
☑ bundles\se.solme.avix.storage.cdo.ui	Eclipse project
☑ bundles\se.solme.avix.storage.file	Eclipse project
☑ bundles\se.solme.avix.storage.xml	Eclipse project
☑ bundles\se.solme.avix.storage.xml.ui	Eclipse project
☑ bundles\se.solme.avix.storagepreferences	Eclipse project
☑ bundles\se.solme.avix.structure	Eclipse project
☑ bundles\se.solme.avix.structure.ui	Eclipse project
☑ bundles\se.solme.avix.styledtext.ui	Eclipse project
☑ bundles\se.solme.avix.synchronization	Eclipse project
☑ bundles\se.solme.avix.synchronization.inspect	Eclipse project
☑ bundles\se.solme.avix.synchronization.ui	Eclipse project
☑ bundles\se.solme.avix.tabbedpage.ui	Eclipse project
☑ bundles\se.solme.avix.tempfile	Eclipse project

Use installed project configurators to:



Folder	Import as
☑ bundles\se.solme.avix.storage.xml	Eclipse project
☑ bundles\se.solme.avix.storage.xml.ui	Eclipse project
☑ bundles\se.solme.avix.storagepreferences	Eclipse project
☑ bundles\se.solme.avix.structure	Eclipse project
☑ bundles\se.solme.avix.structure.ui	Eclipse project
☑ bundles\se.solme.avix.styledtext.ui	Eclipse project
☑ bundles\se.solme.avix.synchronization	Eclipse project
☑ bundles\se.solme.avix.synchronization.inspect	Eclipse project
☑ bundles\se.solme.avix.synchronization.ui	Eclipse project
☑ bundles\se.solme.avix.tabbedpage.ui	Eclipse project
☑ bundles\se.solme.avix.tempfile	Eclipse project
☑ bundles\se.solme.avix.timeanalysis.common	Eclipse project
☑ bundles\se.solme.avix.timeanalysis.common.ui	Eclipse project
☑ bundles\se.solme.avix.timer.ui	Eclipse project
☑ bundles\se.solme.avix.uas	Eclipse project
☑ bundles\se.solme.avix.uas.reporting.excel	Eclipse project
☑ bundles\se.solme.avix.uas.ui	Eclipse project
☑ bundles\se.solme.avix.ui.layout.responsive	Eclipse project
☑ bundles\se.solme.avix.utils.viewers.ui	Eclipse project
☑ bundles\se.solme.avix.vidar	Eclipse project
☑ bundles\se.solme.avix.vidar.reporting	Eclipse project
☑ bundles\se.solme.avix.views.ui	Eclipse project
☐ bundles\se.solme.avix.welcome	Eclipse project
☑ bundles\se.solme.avix.winregistry	Eclipse project
☑ bundles\se.solme.avix.workspace	Eclipse project
☑ bundles\se.solme.avix.workspace.storage	Eclipse project
☑ bundles\se.solme.avix.workspace.ui	Eclipse project
☑ bundles\se.solme.formattedspinner.ui	Eclipse project
☑ bundles\se.solme.net	Eclipse project
☐ bundles\za.co.quirk.layout.LatticeLayout	Eclipse project

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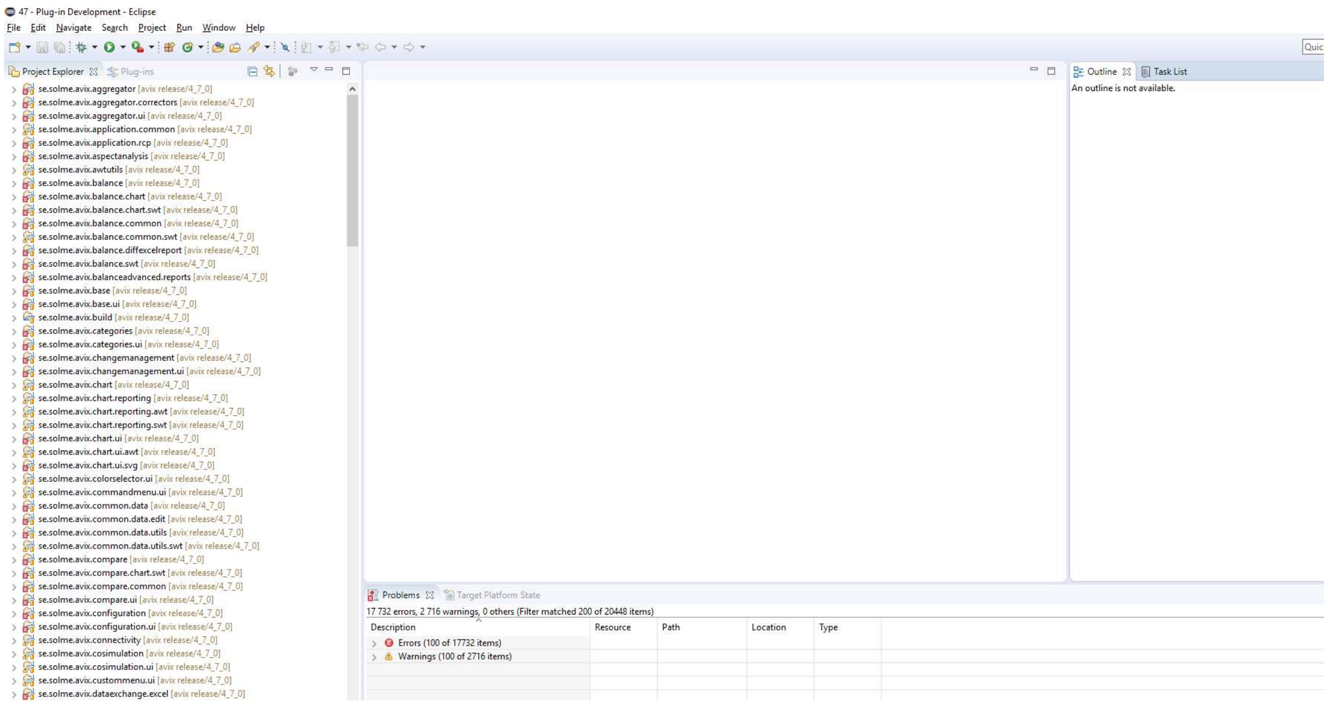
Use installed project configurators to:

☑ Search for nested projects

Pew, that's it. Click "Finish" now. It will take some time. After it has finished, return to the PDE perspective. (This actually completes the GIT interaction for now, although we have not discussed anything about pulling/pushing and working with branches really.)

SETUP THE TARGET PLATFORM

Your PDE will now present something like this:

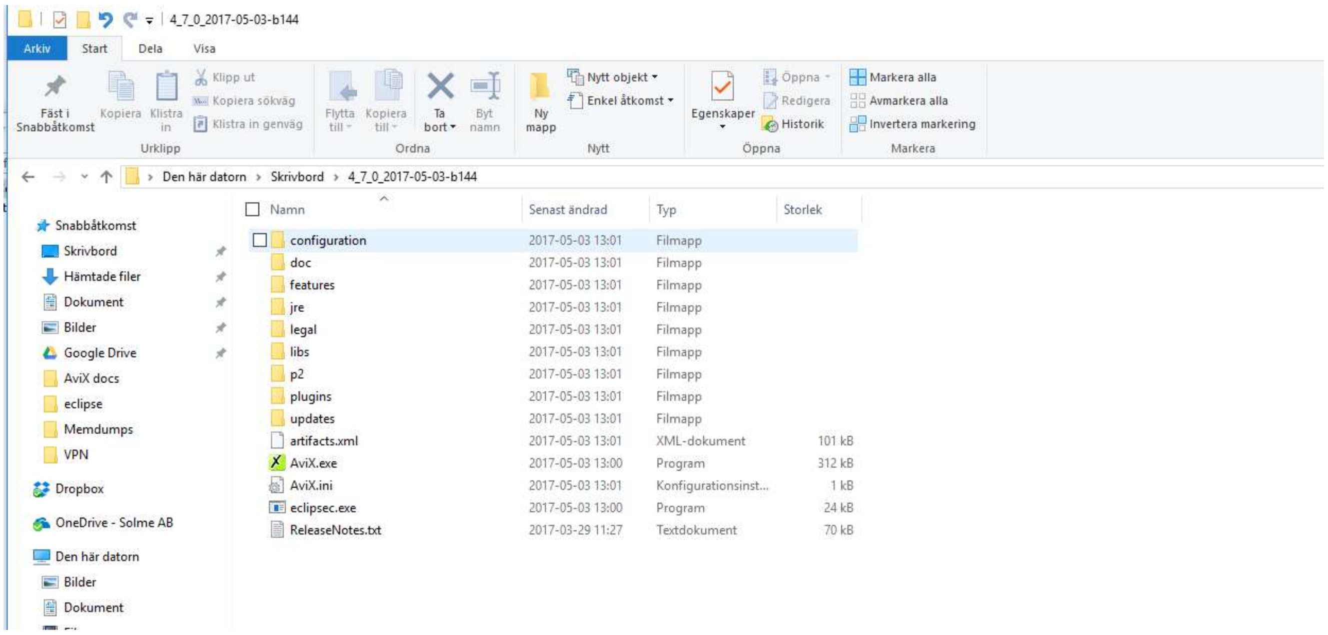

```
47 - Plug-in Development - Eclipse

Project Explorer   Plug-ins
se.solme.avix.aggregator [avix release/4_7_0]
se.solme.avix.aggregator.correctors [avix release/4_7_0]
se.solme.avix.aggregator.ui [avix release/4_7_0]
se.solme.avix.application.common [avix release/4_7_0]
se.solme.avix.application.rcp [avix release/4_7_0]
se.solme.avix.aspectanalysis [avix release/4_7_0]
se.solme.avix.awtutils [avix release/4_7_0]
se.solme.avix.balance [avix release/4_7_0]
se.solme.avix.balance.chart [avix release/4_7_0]
se.solme.avix.balance.chart.swt [avix release/4_7_0]
se.solme.avix.balance.common [avix release/4_7_0]
se.solme.avix.balance.common.swt [avix release/4_7_0]
se.solme.avix.balance.diffexcelreport [avix release/4_7_0]
se.solme.avix.balance.swt [avix release/4_7_0]
se.solme.avix.balanceadvanced.reports [avix release/4_7_0]
se.solme.avix.base [avix release/4_7_0]
se.solme.avix.base.ui [avix release/4_7_0]
se.solme.avix.build [avix release/4_7_0]
se.solme.avix.categories [avix release/4_7_0]
se.solme.avix.categories.ui [avix release/4_7_0]
se.solme.avix.changemanagement [avix release/4_7_0]
se.solme.avix.changemanagement.ui [avix release/4_7_0]
se.solme.avix.chart [avix release/4_7_0]
se.solme.avix.chart.reporting [avix release/4_7_0]
se.solme.avix.chart.reporting.awt [avix release/4_7_0]
se.solme.avix.chart.reporting.swt [avix release/4_7_0]
se.solme.avix.chart.ui [avix release/4_7_0]
se.solme.avix.chart.ui.awt [avix release/4_7_0]
se.solme.avix.chart.ui.svg [avix release/4_7_0]
se.solme.avix.colorselector.ui [avix release/4_7_0]
se.solme.avix.commandmenu.ui [avix release/4_7_0]
se.solme.avix.common.data [avix release/4_7_0]
se.solme.avix.common.data.edit [avix release/4_7_0]
se.solme.avix.common.data.utils [avix release/4_7_0]
se.solme.avix.common.data.utils.swt [avix release/4_7_0]
se.solme.avix.compare [avix release/4_7_0]
se.solme.avix.compare.chart.swt [avix release/4_7_0]
se.solme.avix.compare.common [avix release/4_7_0]
se.solme.avix.compare.ui [avix release/4_7_0]
se.solme.avix.configuration [avix release/4_7_0]
se.solme.avix.configuration.ui [avix release/4_7_0]
se.solme.avix.connectivity [avix release/4_7_0]
se.solme.avix.cosimulation [avix release/4_7_0]
se.solme.avix.cosimulation.ui [avix release/4_7_0]
se.solme.avix.custommenu.ui [avix release/4_7_0]
se.solme.avix.dataexchange.excel [avix release/4_7_0]

Outline   Task List
An outline is not available.

Problems   Target Platform State
17 732 errors, 2 716 warnings, 0 others (Filter matched 200 of 20448 items)
Description                       Resource   Path   Location   Type
> Errors (100 of 17732 items)
> Warnings (100 of 2716 items)
```

That is, a lot of plugin projects (actually all those that you imported above). You'll also notice all the red warning decorations, and that the "Problems" view tells you that nothing is really working – it won't compile, that's what it's about.

Now, we will resolve this by setting up your so-called "target platform". To put simply, it is the code base with all the plug-ins that our precious AviX plugins needs to run.
We will do this by creating a local little project, which is "yours only". In other words, it will not have to be committed/pushed to the GIT repository or anything.

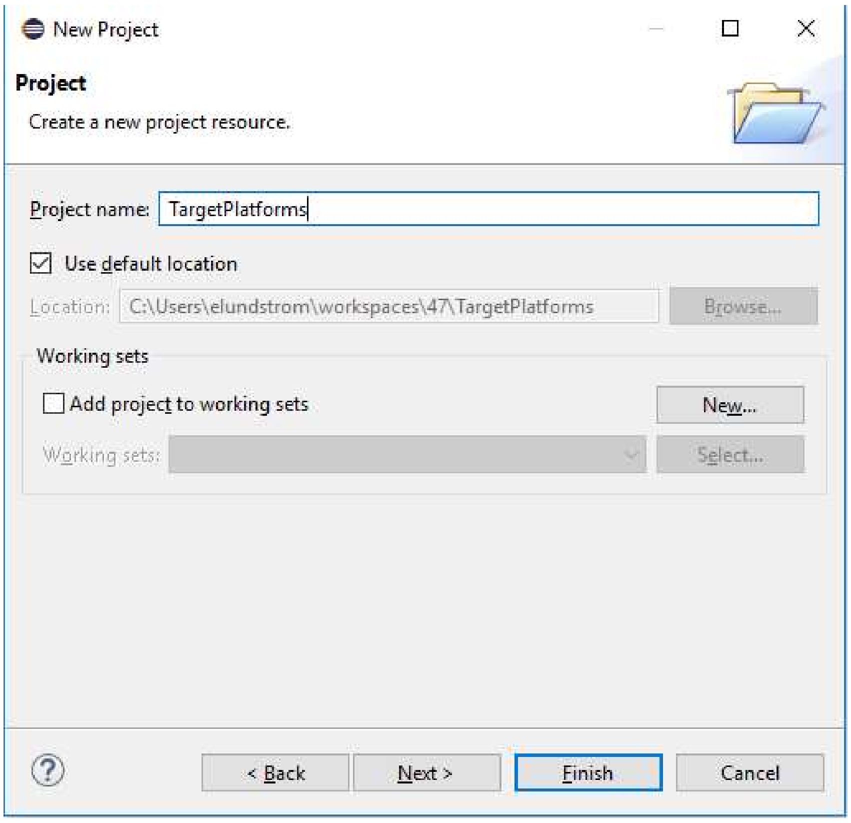
1. Pre-requisite: Get hold of an AviX4.7.0 build or installation. We will use this as the base for our "target definition". I am using a build like this. (Contact the dev team to

get hold of a “suitable” build)



Namn	Senast ändrad	Typ	Storlek
configuration	2017-05-03 13:01	Filmapp	
doc	2017-05-03 13:01	Filmapp	
features	2017-05-03 13:01	Filmapp	
jre	2017-05-03 13:01	Filmapp	
legal	2017-05-03 13:01	Filmapp	
libs	2017-05-03 13:01	Filmapp	
p2	2017-05-03 13:01	Filmapp	
plugins	2017-05-03 13:01	Filmapp	
updates	2017-05-03 13:01	Filmapp	
artifacts.xml	2017-05-03 13:01	XML-dokument	101 kB
AviX.exe	2017-05-03 13:00	Program	312 kB
AviX.ini	2017-05-03 13:01	Konfigurationsinst...	1 kB
eclipsec.exe	2017-05-03 13:00	Program	24 kB
ReleaseNotes.txt	2017-03-29 11:27	Textdokument	70 kB

2. Right-click anywhere in the Project Explorer, and select “New->Project”. Here, select “General->Project”.
3. Give it a suitable name, maybe “TargetPlatforms”. Accept the “Use default location”.



Project

Create a new project resource.

Project name: TargetPlatforms

☑ Use default location

Location: C:\Users\elundstrom\workspaces\47\TargetPlatforms

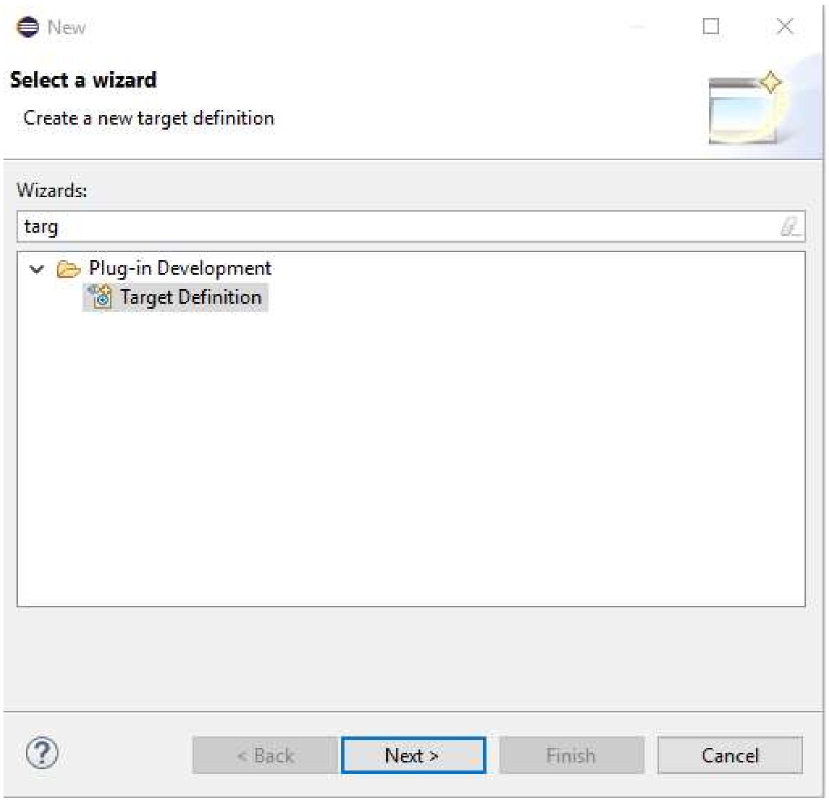
☐ Add project to working sets

Working sets:

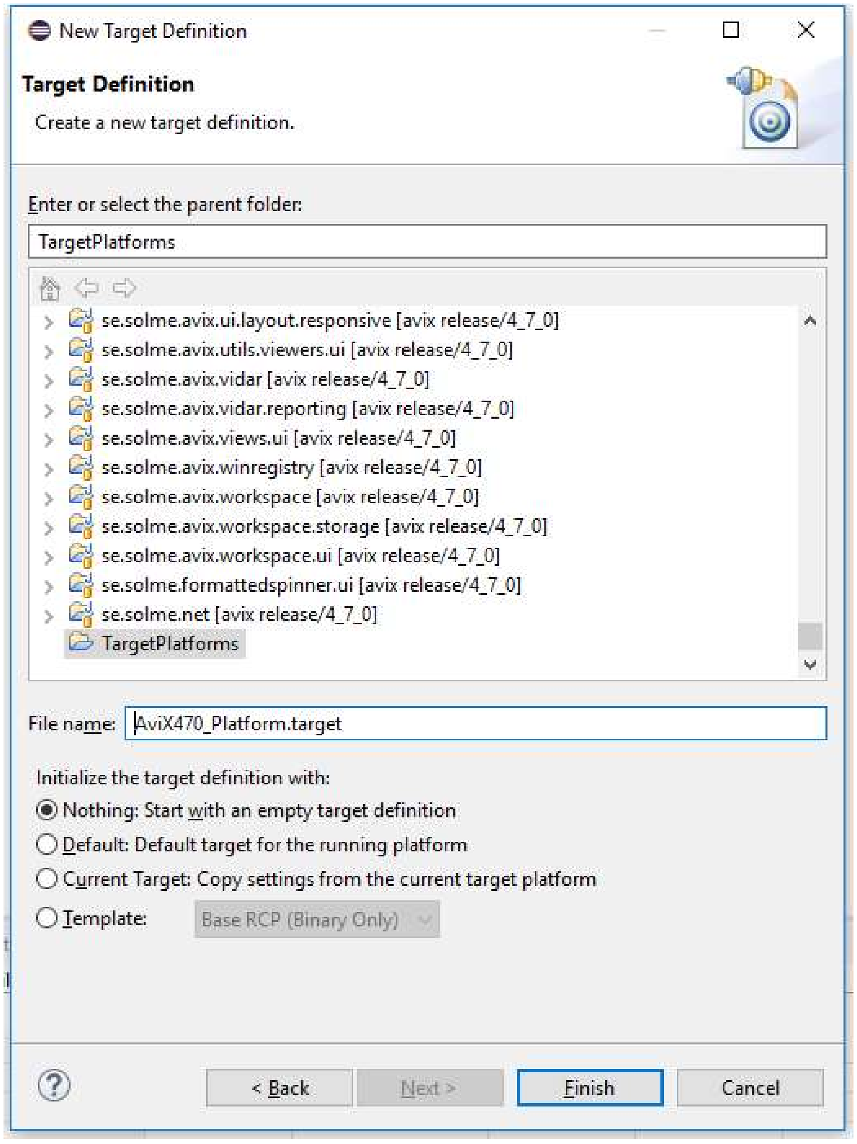
Do not reference any projects on the “next” page.

4. Your new project will be visible in the Project Explorer.

5. Right-click on it, select “New->Other”.
6. Select PDE->Target Definition



7. Give it a good name informing what it “will be”, maybe like this:



New Target Definition

Target Definition

Create a new target definition.

Enter or select the parent folder:

TargetPlatforms

- se.solme.avix.ui.layout.responsive [avix release/4_7_0]
- se.solme.avix.utils.viewers.ui [avix release/4_7_0]
- se.solme.avix.vidar [avix release/4_7_0]
- se.solme.avix.vidar.reporting [avix release/4_7_0]
- se.solme.avix.views.ui [avix release/4_7_0]
- se.solme.avix.winregistry [avix release/4_7_0]
- se.solme.avix.workspace [avix release/4_7_0]
- se.solme.avix.workspace.storage [avix release/4_7_0]
- se.solme.avix.workspace.ui [avix release/4_7_0]
- se.solme.formattedspinner.ui [avix release/4_7_0]
- se.solme.net [avix release/4_7_0]
- TargetPlatforms

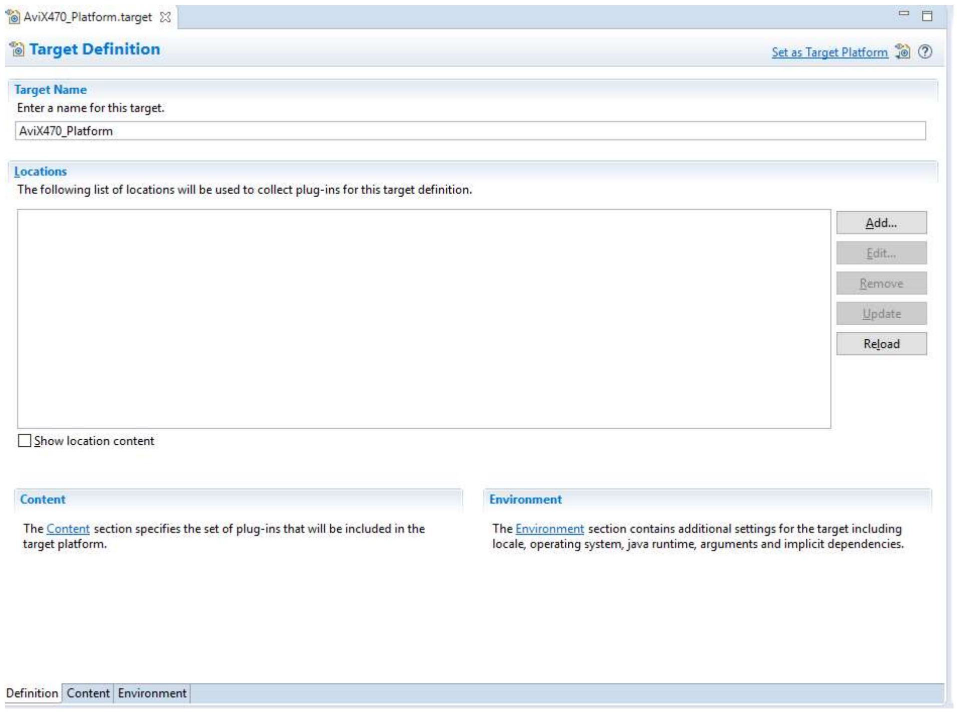
File name: AviX470_Platform.target

Initialize the target definition with:

- [✓ Nothing: Start with an empty target definition]
- Default: Default target for the running platform
- Current Target: Copy settings from the current target platform
- Template: Base RCP (Binary Only)

8. Click finish. Now, we are going to specify the contents of this Target Definition.

9. In the big Editor that opens, select “Add…”


AviX470_Platform.target

Target Definition

Set as Target Platform

Target Name

Enter a name for this target.

AviX470_Platform

Locations

The following list of locations will be used to collect plug-ins for this target definition.

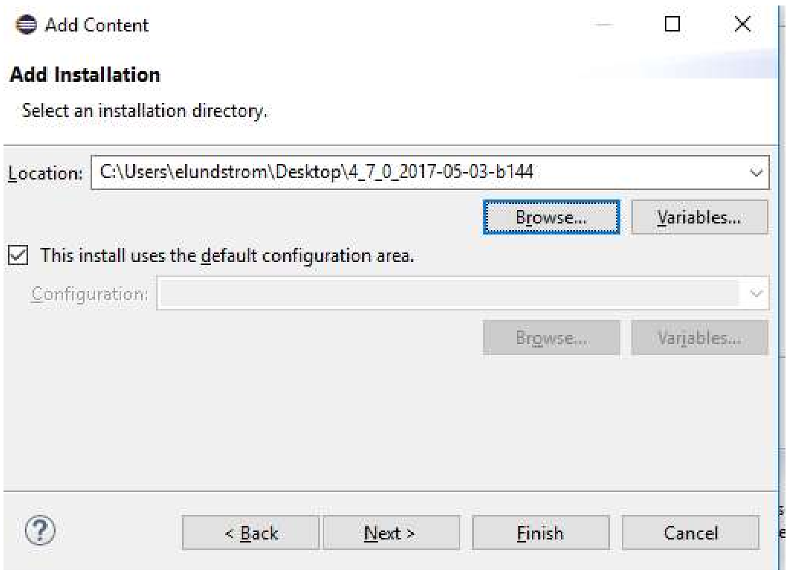
Content

The Content section specifies the set of plug-ins that will be included in the target platform.

Environment

The Environment section contains additional settings for the target including locale, operating system, java runtime, arguments and implicit dependencies.

10. On the ”Add Content” dialog page, select ”Installation”. Browse and select the AviX build folder:


Add Content

Add Installation

Select an installation directory.

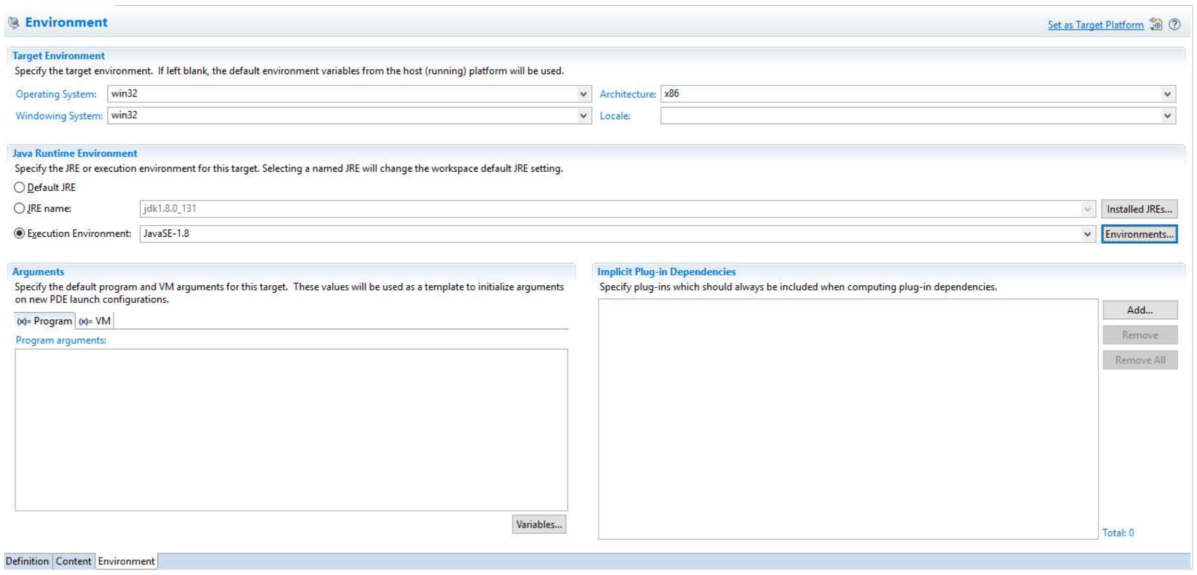
Location: C:\Users\elundstrom\Desktop\4_7_0_2017-05-03-b144

☑ This install uses the default configuration area.

11. Click Next and/or Finish.

12. Now, you are back in the editor. Go to the Content tab. In the “type filter text”, enter “se.solme.” and await the filtering. In the result, do “Deselect All” on the right-hand side. Save.

13. On the “Environment” tab, select the following:



Environment

Set as Target Platform

Target Environment

Specify the target environment. If left blank, the default environment variables from the host (running) platform will be used.

Operating System: win32
Architecture: x86
Windowing System: win32
Locale:

Java Runtime Environment

Specify the JRE or execution environment for this target. Selecting a named JRE will change the workspace default JRE setting.

○ Default JRE
○ JRE name: jdk1.8.0_131
● Execution Environment: JavaSE-1.8

Arguments

Specify the default program and VM arguments for this target. These values will be used as a template to initialize arguments on new PDE launch configurations.

Program arguments:

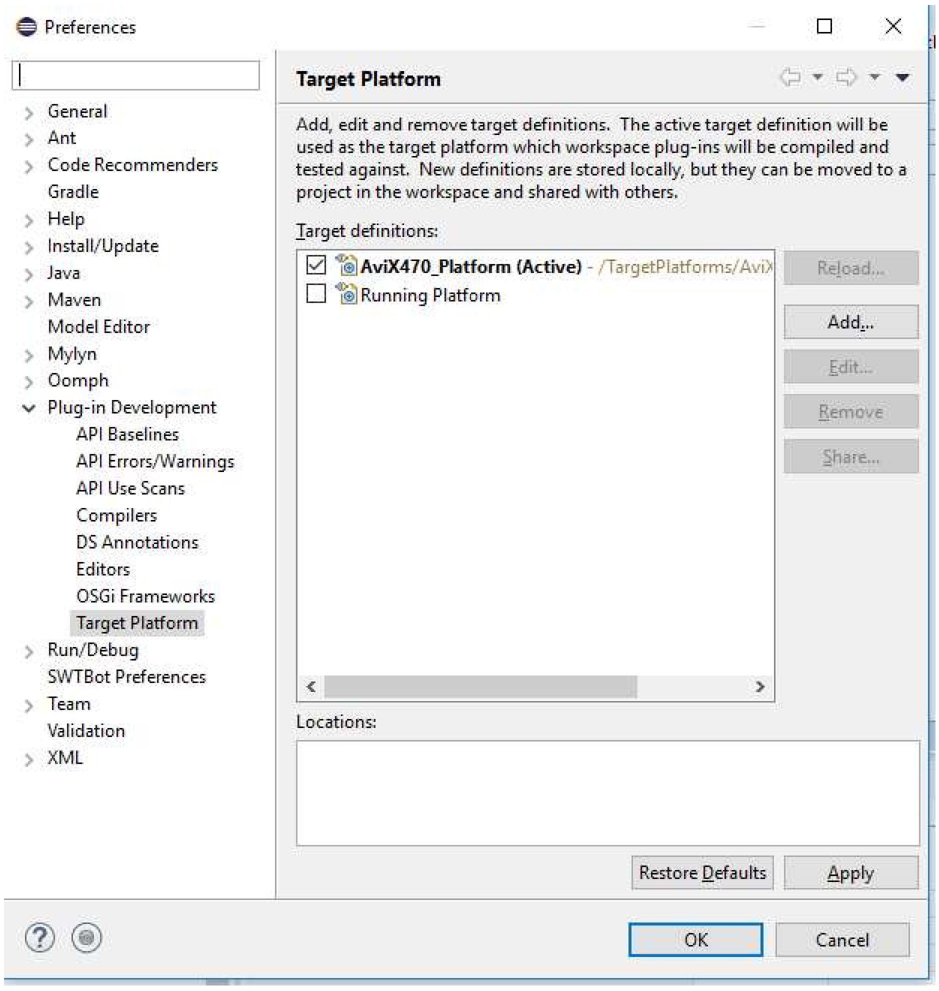
Implicit Plug-in Dependencies

Specify plug-ins which should always be included when computing plug-in dependencies.

Total: 0

14. Finally, we are done with the target definition. Now, we would like to tell Eclipse to use it. This is what actually makes all the plugins in the Project Explorer compile vs the target platform.
15. On any of the three tabs (Definition, Content and Environment), there should be a link “Set as Target Platform” at the top. Click it, and wait…this will load the new platform, start to resolve all dependencies, and re-build.

16. While waiting, you can verify that your new target platform was really set. Using menu "Window->Preferences", go to this page and see that your target platform has been set:


Preferences

General
Ant
Code Recommenders
Gradle
Help
Install/Update
Java
Maven
Model Editor
Mylyn
Oomph
Plug-in Development
API Baselines
API Errors/Warnings
API Use Scans
Compilers
DS Annotations
Editors
OSGi Frameworks
Target Platform
Run/Debug
SWTBot Preferences
Team
Validation
XML

Target Platform

Add, edit and remove target definitions. The active target definition will be used as the target platform which workspace plug-ins will be compiled and tested against. New definitions are stored locally, but they can be moved to a project in the workspace and shared with others.

Target definitions:

☑ AviX470_Platform (Active) - /TargetPlatforms/AviX
☐ Running Platform

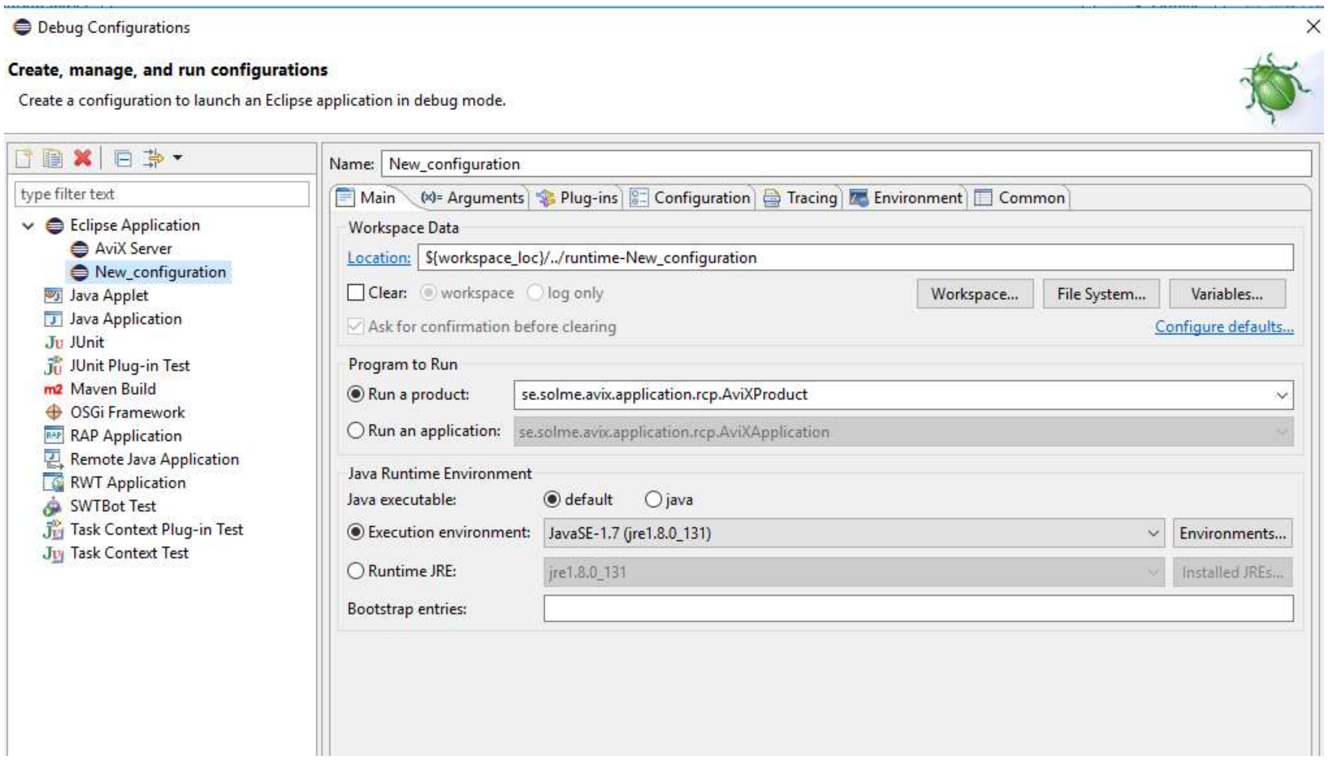
17. When the re-build process has been completed, there should be no more red error decorations on the projects in the Project Explorer.

Final words: What did we really do by changing the "target platform"? Well, by default, you can see that "Running Platform" was the Target Platform. That means that all the available features and plugins of *your* Eclipse installation was the "target" that we compiled against. We changed that radically, and instead said that an existing AviX470 build would be the foundation. If you think about it, it makes sense: in the "plugins" directory of the AviX installation we refer to, all the by AviX required plugins (and of the correct version) exist. For instance, all of the required EMF, CDO or BIRT plugins (go Google those if you need to; they are all Eclipse projects that AviX make use of) are in the “plugins” folder, otherwise AviX would simply not run very well.

SETTING UP A DEBUG CONFIGURATION

Now that we’ve come this far, it would be great to be able to debug AviX, wouldn’t it? Let’s do it!

1. Click on the little arrow menu next to the Debug icon. Select “Debug configurations…” . Select Eclipse Application, right-click and select “New”. A “New_configuration” will appear like this:



Debug Configurations

Create, manage, and run configurations

Create a configuration to launch an Eclipse application in debug mode.

- Eclipse Application
  - AviX Server
  - New_configuration
- Java Applet
- Java Application
- JUnit
- JUnit Plug-in Test
- Maven Build
- OSGi Framework
- RAP Application
- Remote Java Application
- RWT Application
- SWTBot Test
- Task Context Plug-in Test
- Task Context Test

Name: New_configuration

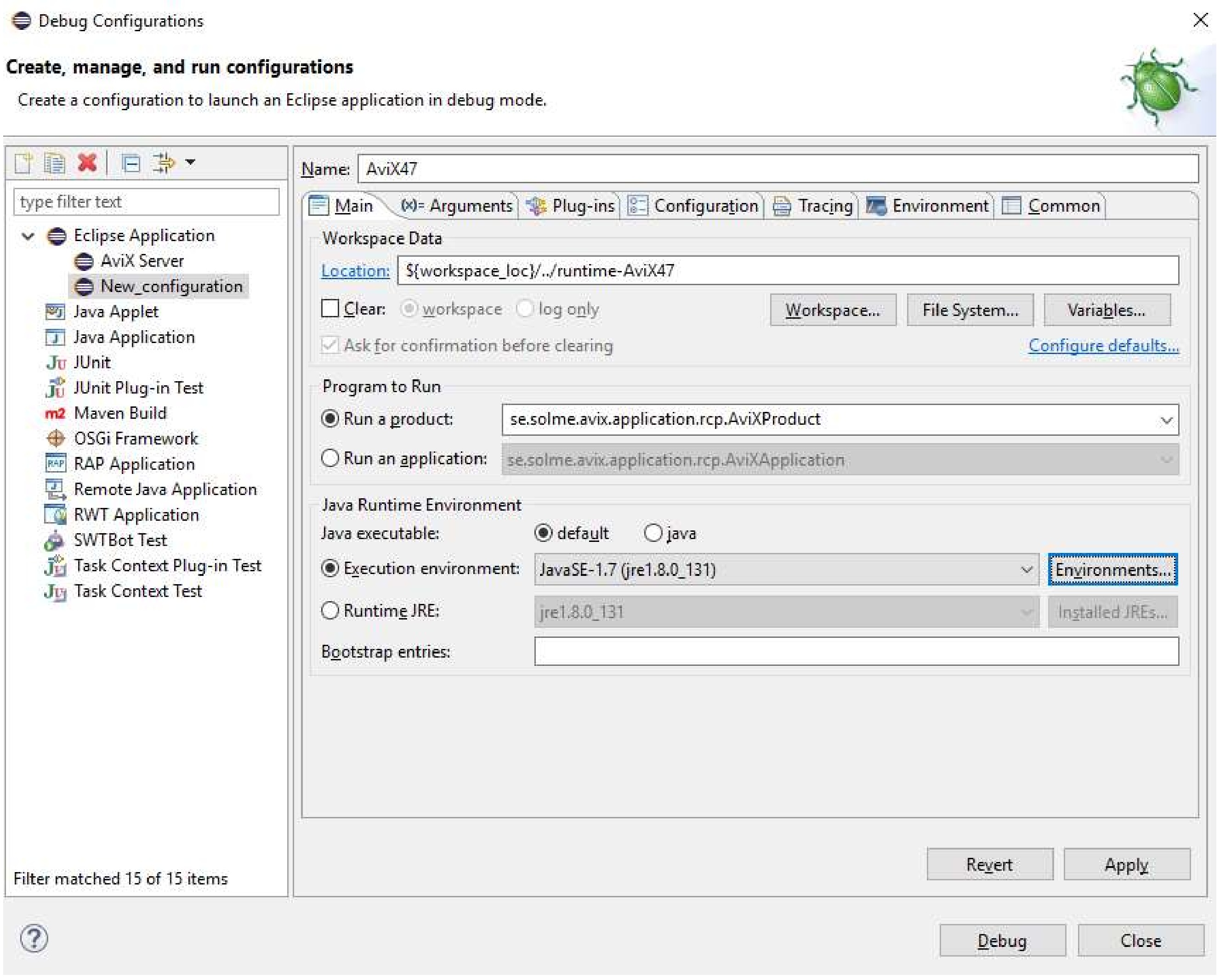
Main | Arguments | Plug-ins | Configuration | Tracing | Environment | Common

Workspace Data
Location: ${workspace_loc}/../runtime-New_configuration
Clear: workspace / log only
Ask for confirmation before clearing

Program to Run
[✓ Run a product:] se.solme.avix.application.rcp.AviXProduct
Run an application: se.solme.avix.application.rcp.AviXApplication

Java Runtime Environment
Java executable: [✓ default] java
[✓ Execution environment:] JavaSE-1.7 (jre1.8.0_131)
Runtime JRE: jre1.8.0_131
Bootstrap entries:

2. Change stuff on the “Main” page according to this:


Debug Configurations

Create, manage, and run configurations

Create a configuration to launch an Eclipse application in debug mode.

Name: AviX47

Workspace Data

Location: ${workspace_loc}/../runtime-AviX47

Clear: workspace log only

Ask for confirmation before clearing

Program to Run

[✓ Run a product:] se.solme.avix.application.rcp.AviXProduct

Run an application: se.solme.avix.application.rcp.AviXApplication

Java Runtime Environment

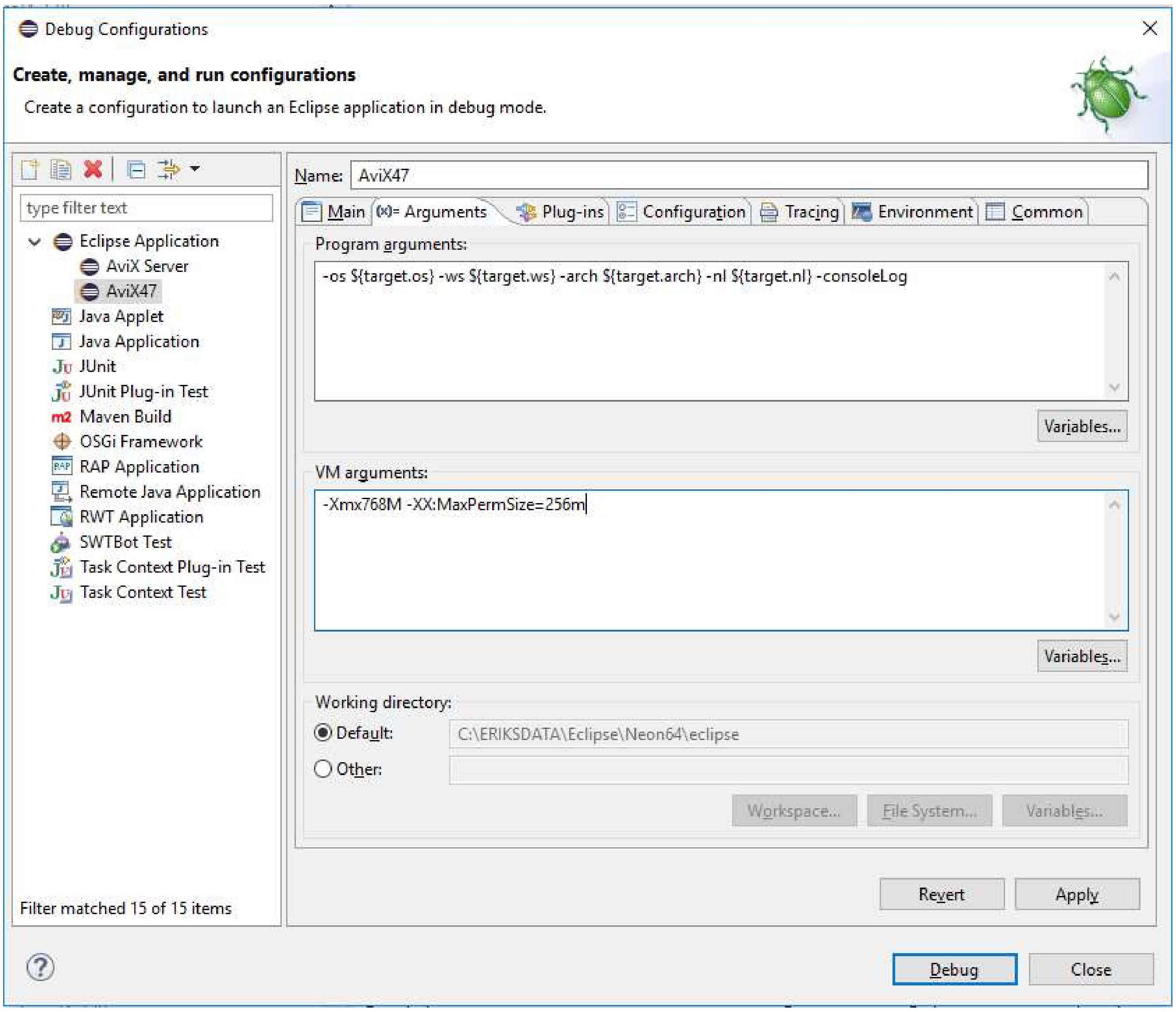
Java executable: [✓ default] java

[✓ Execution environment:] JavaSE-1.7 (jre1.8.0_131)

Runtime JRE: jre1.8.0_131

Bootstrap entries:

3. Apply, and go to the ”Arguments” page. Set up according to this:



Debug Configurations

Create, manage, and run configurations

Create a configuration to launch an Eclipse application in debug mode.

Name: AviX47

Program arguments:

```
-os ${target.os} -ws ${target.ws} -arch ${target.arch} -nl ${target.nl} -consoleLog
```

VM arguments:

```
-Xmx768M -XX:MaxPermSize=256m
```

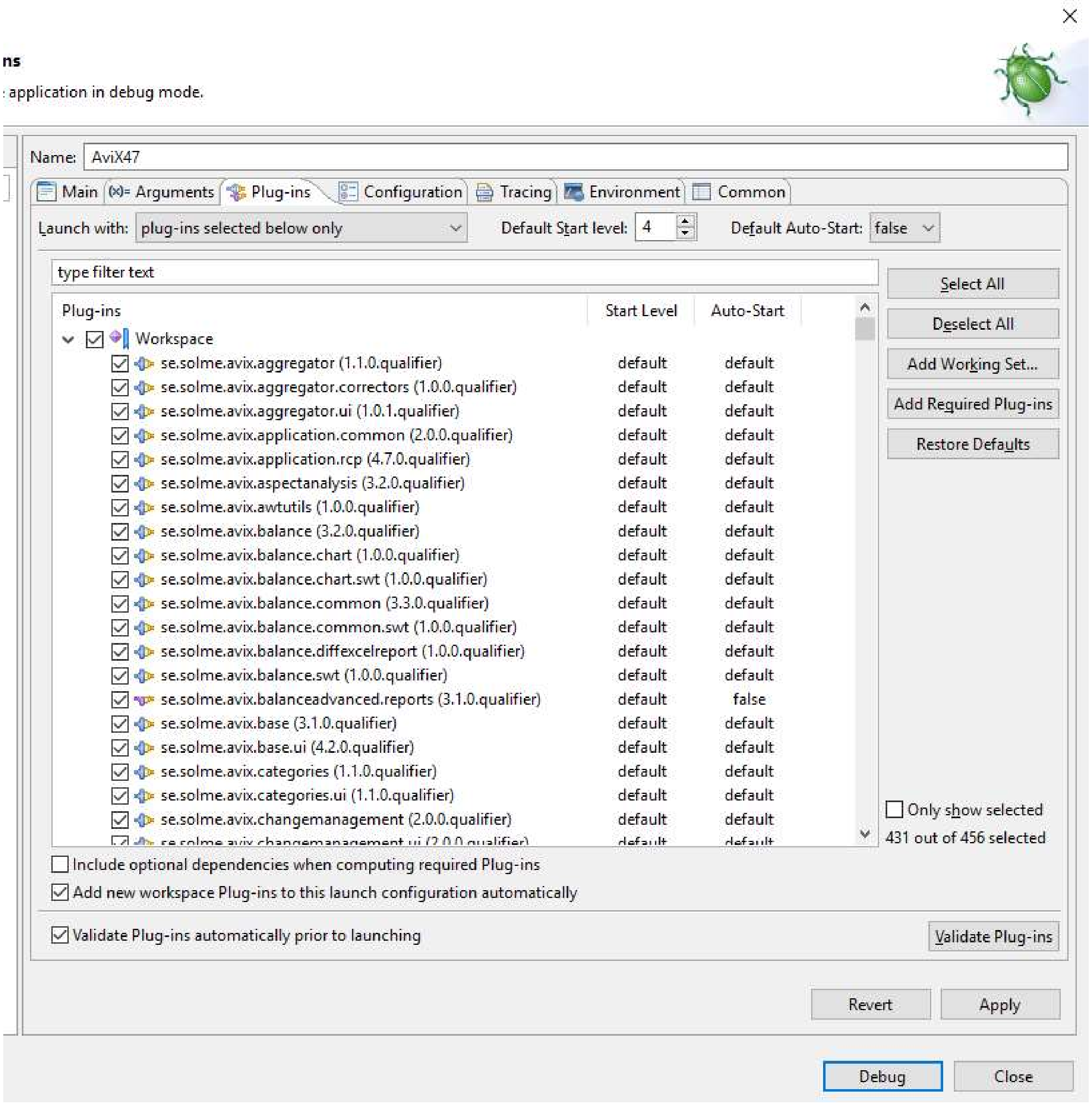
Working directory:

Default: C:\ERIKSDATA\Eclipse\Neon64\eclipse

Filter matched 15 of 15 items

4. Apply, and head for the “Plug-ins” page. In the “Launc with” combo, select “plug-ins” selected below only. Furthermore, clean all selections by doing “Deselect All”. Deselect the “Include optional dependencies…” at the bottom. Then, select the “Workspace” note to select all the Solme plugins that you have in your working directory. Push the “Add Required Plug-ins” a couple of times. You should end up with

something looking like this:



ns
: application in debug mode.

Name: AviX47

Main | Arguments | Plug-ins | Configuration | Tracing | Environment | Common

Launch with: plug-ins selected below only   Default Start level: 4   Default Auto-Start: false

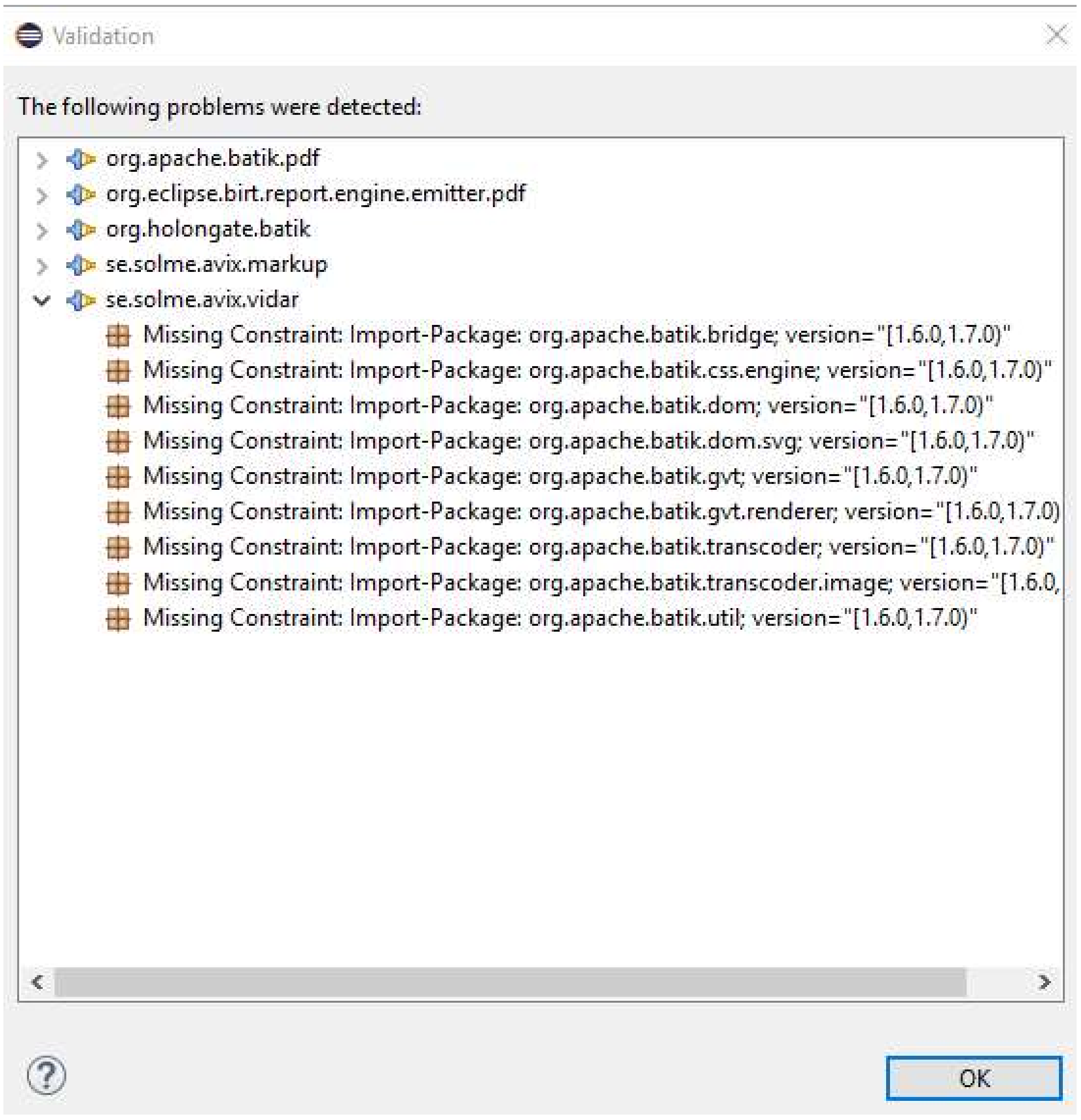
type filter text

Plug-ins	Start Level	Auto-Start
☑ Workspace		
☑ se.solme.avix.aggregator (1.1.0.qualifier)	default	default
☑ se.solme.avix.aggregator.correctors (1.0.0.qualifier)	default	default
☑ se.solme.avix.aggregator.ui (1.0.1.qualifier)	default	default
☑ se.solme.avix.application.common (2.0.0.qualifier)	default	default
☑ se.solme.avix.application.rcp (4.7.0.qualifier)	default	default
☑ se.solme.avix.aspectanalysis (3.2.0.qualifier)	default	default
☑ se.solme.avix.awtutils (1.0.0.qualifier)	default	default
☑ se.solme.avix.balance (3.2.0.qualifier)	default	default
☑ se.solme.avix.balance.chart (1.0.0.qualifier)	default	default
☑ se.solme.avix.balance.chart.swt (1.0.0.qualifier)	default	default
☑ se.solme.avix.balance.common (3.3.0.qualifier)	default	default
☑ se.solme.avix.balance.common.swt (1.0.0.qualifier)	default	default
☑ se.solme.avix.balance.diffexcelreport (1.0.0.qualifier)	default	default
☑ se.solme.avix.balance.swt (1.0.0.qualifier)	default	default
☑ se.solme.avix.balanceadvanced.reports (3.1.0.qualifier)	default	false
☑ se.solme.avix.base (3.1.0.qualifier)	default	default
☑ se.solme.avix.base.ui (4.2.0.qualifier)	default	default
☑ se.solme.avix.categories (1.1.0.qualifier)	default	default
☑ se.solme.avix.categories.ui (1.1.0.qualifier)	default	default
☑ se.solme.avix.changemanagement (2.0.0.qualifier)	default	default
☑ se.solme.avix.changemanagement.ui (2.0.0.qualifier)	default	default

☐ Only show selected
431 out of 456 selected

☐ Include optional dependencies when computing required Plug-ins
☑ Add new workspace Plug-ins to this launch configuration automatically
☑ Validate Plug-ins automatically prior to launching

5. What's interesting here is if you have a look below the node "Target Platform" too. The plugins here are actually the one found from the AviX installation you pointed out during the "Setup the target platform" step above.

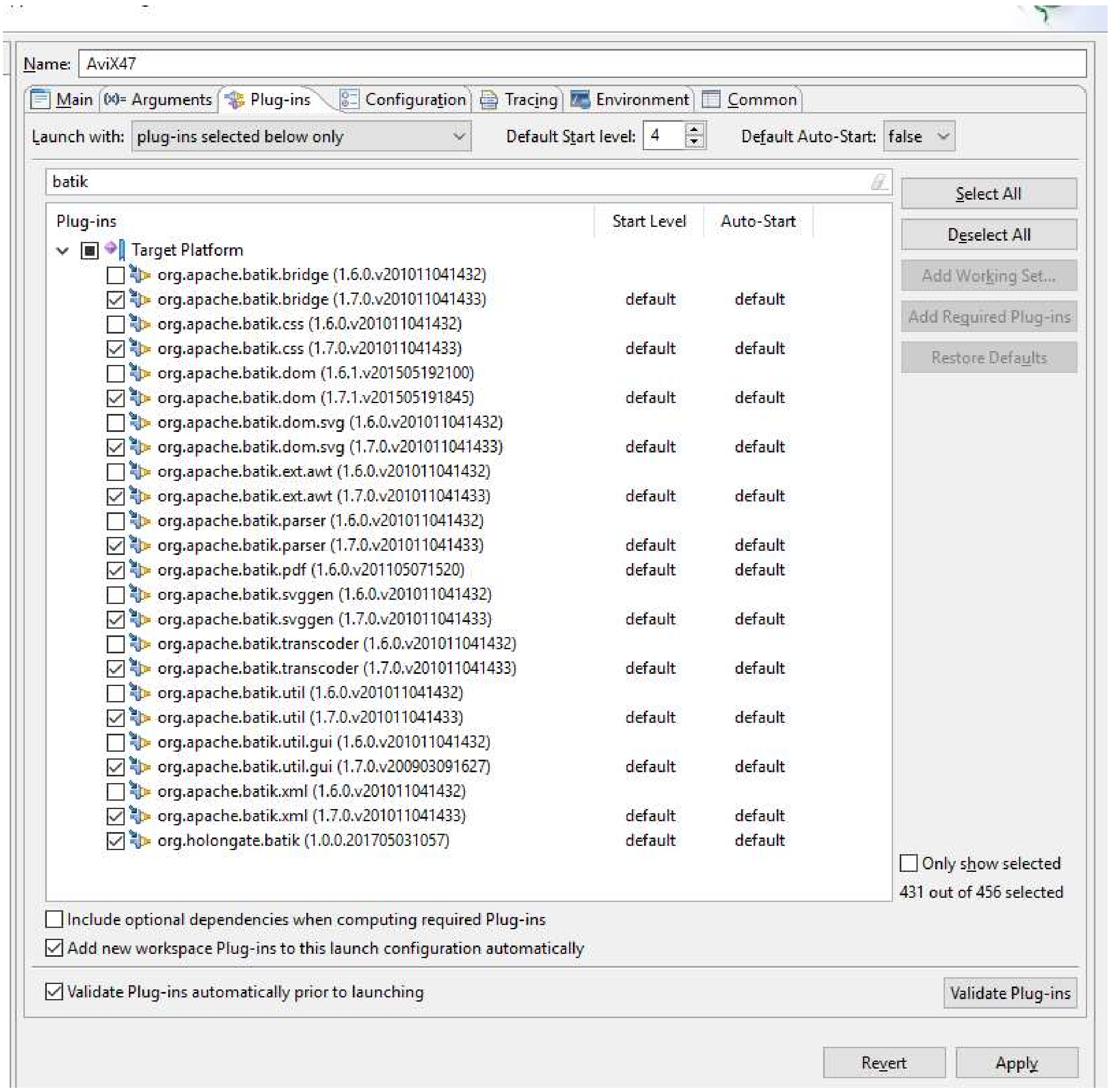
6. Now, try the “Validate Plug-ins” button at the bottom. It is not likely to work: we have some plugins that require older versions of some “batik” plugins. You’ll see something like this: 

Validation

The following problems were detected:

```
> org.apache.batik.pdf
> org.eclipse.birt.report.engine.emitter.pdf
> org.holongate.batik
> se.solme.avix.markup
v se.solme.avix.vidar
    Missing Constraint: Import-Package: org.apache.batik.bridge; version="[1.6.0,1.7.0)"
    Missing Constraint: Import-Package: org.apache.batik.css.engine; version="[1.6.0,1.7.0)"
    Missing Constraint: Import-Package: org.apache.batik.dom; version="[1.6.0,1.7.0)"
    Missing Constraint: Import-Package: org.apache.batik.dom.svg; version="[1.6.0,1.7.0)"
    Missing Constraint: Import-Package: org.apache.batik.gvt; version="[1.6.0,1.7.0)"
    Missing Constraint: Import-Package: org.apache.batik.gvt.renderer; version="[1.6.0,1.7.0)
    Missing Constraint: Import-Package: org.apache.batik.transcoder; version="[1.6.0,1.7.0)"
    Missing Constraint: Import-Package: org.apache.batik.transcoder.image; version="[1.6.0,
    Missing Constraint: Import-Package: org.apache.batik.util; version="[1.6.0,1.7.0)"
```

7. To resolve this problem, do like this. Type “batik” where it says type filter text. Something like this filtered result will appear:



Name: AviX47

Main | Arguments | Plug-ins | Configuration | Tracing | Environment | Common

Launch with: plug-ins selected below only   Default Start level: 4   Default Auto-Start: false

batik

Plug-ins	Start Level	Auto-Start
[■] Target Platform		
[ ] org.apache.batik.bridge (1.6.0.v201011041432)		
[✓] org.apache.batik.bridge (1.7.0.v201011041433)	default	default
[ ] org.apache.batik.css (1.6.0.v201011041432)		
[✓] org.apache.batik.css (1.7.0.v201011041433)	default	default
[ ] org.apache.batik.dom (1.6.1.v201505192100)		
[✓] org.apache.batik.dom (1.7.1.v201505191845)	default	default
[ ] org.apache.batik.dom.svg (1.6.0.v201011041432)		
[✓] org.apache.batik.dom.svg (1.7.0.v201011041433)	default	default
[ ] org.apache.batik.ext.awt (1.6.0.v201011041432)		
[✓] org.apache.batik.ext.awt (1.7.0.v201011041433)	default	default
[ ] org.apache.batik.parser (1.6.0.v201011041432)		
[✓] org.apache.batik.parser (1.7.0.v201011041433)	default	default
[✓] org.apache.batik.pdf (1.6.0.v201105071520)	default	default
[ ] org.apache.batik.svggen (1.6.0.v201011041432)		
[✓] org.apache.batik.svggen (1.7.0.v201011041433)	default	default
[ ] org.apache.batik.transcoder (1.6.0.v201011041432)		
[✓] org.apache.batik.transcoder (1.7.0.v201011041433)	default	default
[ ] org.apache.batik.util (1.6.0.v201011041432)		
[✓] org.apache.batik.util (1.7.0.v201011041433)	default	default
[ ] org.apache.batik.util.gui (1.6.0.v201011041432)		
[✓] org.apache.batik.util.gui (1.7.0.v200903091627)	default	default
[ ] org.apache.batik.xml (1.6.0.v201011041432)		
[✓] org.apache.batik.xml (1.7.0.v201011041433)	default	default
[✓] org.holongate.batik (1.0.0.201705031057)	default	default

[ ] Only show selected

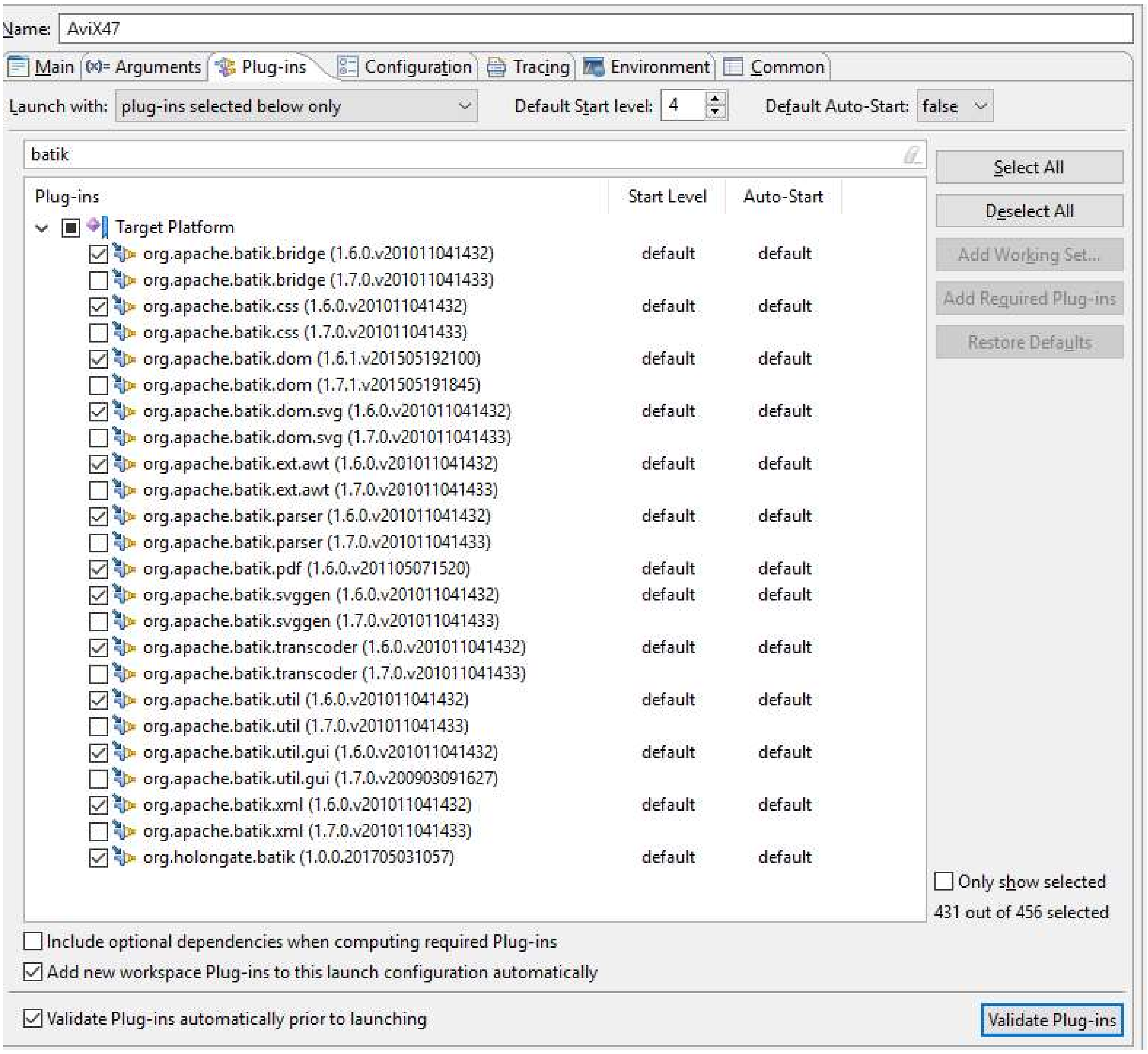
431 out of 456 selected

[ ] Include optional dependencies when computing required Plug-ins

[✓] Add new workspace Plug-ins to this launch configuration automatically

[✓] Validate Plug-ins automatically prior to launching

8. You will, manually, need to change this to the following instead:



Name: AviX47

Main | Arguments | Plug-ins | Configuration | Tracing | Environment | Common

Launch with: plug-ins selected below only   Default Start level: 4   Default Auto-Start: false

batik

	Plug-ins	Start Level	Auto-Start
■	Target Platform		
✓	org.apache.batik.bridge (1.6.0.v201011041432)	default	default
	org.apache.batik.bridge (1.7.0.v201011041433)		
✓	org.apache.batik.css (1.6.0.v201011041432)	default	default
	org.apache.batik.css (1.7.0.v201011041433)		
✓	org.apache.batik.dom (1.6.1.v201505192100)	default	default
	org.apache.batik.dom (1.7.1.v201505191845)		
✓	org.apache.batik.dom.svg (1.6.0.v201011041432)	default	default
	org.apache.batik.dom.svg (1.7.0.v201011041433)		
✓	org.apache.batik.ext.awt (1.6.0.v201011041432)	default	default
	org.apache.batik.ext.awt (1.7.0.v201011041433)		
✓	org.apache.batik.parser (1.6.0.v201011041432)	default	default
	org.apache.batik.parser (1.7.0.v201011041433)		
✓	org.apache.batik.pdf (1.6.0.v201105071520)	default	default
✓	org.apache.batik.svggen (1.6.0.v201011041432)	default	default
	org.apache.batik.svggen (1.7.0.v201011041433)		
✓	org.apache.batik.transcoder (1.6.0.v201011041432)	default	default
	org.apache.batik.transcoder (1.7.0.v201011041433)		
✓	org.apache.batik.util (1.6.0.v201011041432)	default	default
	org.apache.batik.util (1.7.0.v201011041433)		
✓	org.apache.batik.util.gui (1.6.0.v201011041432)	default	default
	org.apache.batik.util.gui (1.7.0.v200903091627)		
✓	org.apache.batik.xml (1.6.0.v201011041432)	default	default
	org.apache.batik.xml (1.7.0.v201011041433)		
✓	org.holongate.batik (1.0.0.201705031057)	default	default

Select All | Deselect All | Add Working Set... | Add Required Plug-ins | Restore Defaults

☐ Only show selected
431 out of 456 selected

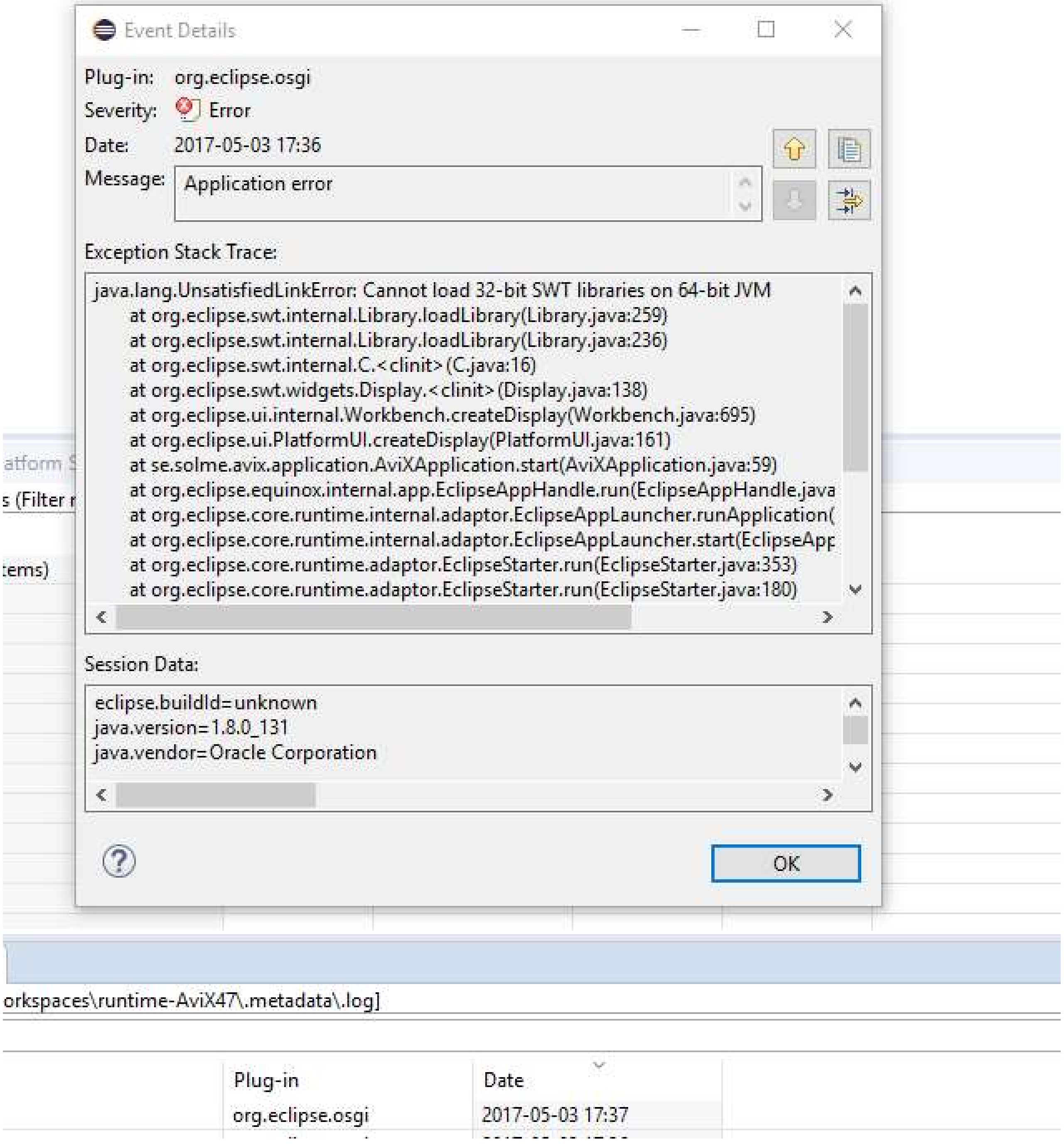
☐ Include optional dependencies when computing required Plug-ins
☑ Add new workspace Plug-ins to this launch configuration automatically
☑ Validate Plug-ins automatically prior to launching   Validate Plug-ins

9. Try to validate again. It should accept it. Click "Apply".
10. You should not need any further configuration. Try "Debug" now.

Now, at least I discovered some Java-related problem here, due to that I have the following environment:

- Running Eclipse with a 64-bit java
- Eclipse itself is a 64bit-version
- AviX can only be run with 32bit so far

This is the error I got:



Plug-in: org.eclipse.osgi
Severity: Error
Date: 2017-05-03 17:36
Message: Application error

Exception Stack Trace:

```
java.lang.UnsatisfiedLinkError: Cannot load 32-bit SWT libraries on 64-bit JVM
	at org.eclipse.swt.internal.Library.loadLibrary(Library.java:259)
	at org.eclipse.swt.internal.Library.loadLibrary(Library.java:236)
	at org.eclipse.swt.internal.C.<clinit>(C.java:16)
	at org.eclipse.swt.widgets.Display.<clinit>(Display.java:138)
	at org.eclipse.ui.internal.Workbench.createDisplay(Workbench.java:695)
	at org.eclipse.ui.PlatformUI.createDisplay(PlatformUI.java:161)
	at se.solme.avix.application.AviXApplication.start(AviXApplication.java:59)
	at org.eclipse.equinox.internal.app.EclipseAppHandle.run(EclipseAppHandle.java
	at org.eclipse.core.runtime.internal.adaptor.EclipseAppLauncher.runApplication(
	at org.eclipse.core.runtime.internal.adaptor.EclipseAppLauncher.start(EclipseApp
	at org.eclipse.core.runtime.adaptor.EclipseStarter.run(EclipseStarter.java:353)
	at org.eclipse.core.runtime.adaptor.EclipseStarter.run(EclipseStarter.java:180)
```

Session Data:

```
eclipse.buildId=unknown
java.version=1.8.0_131
java.vendor=Oracle Corporation
```

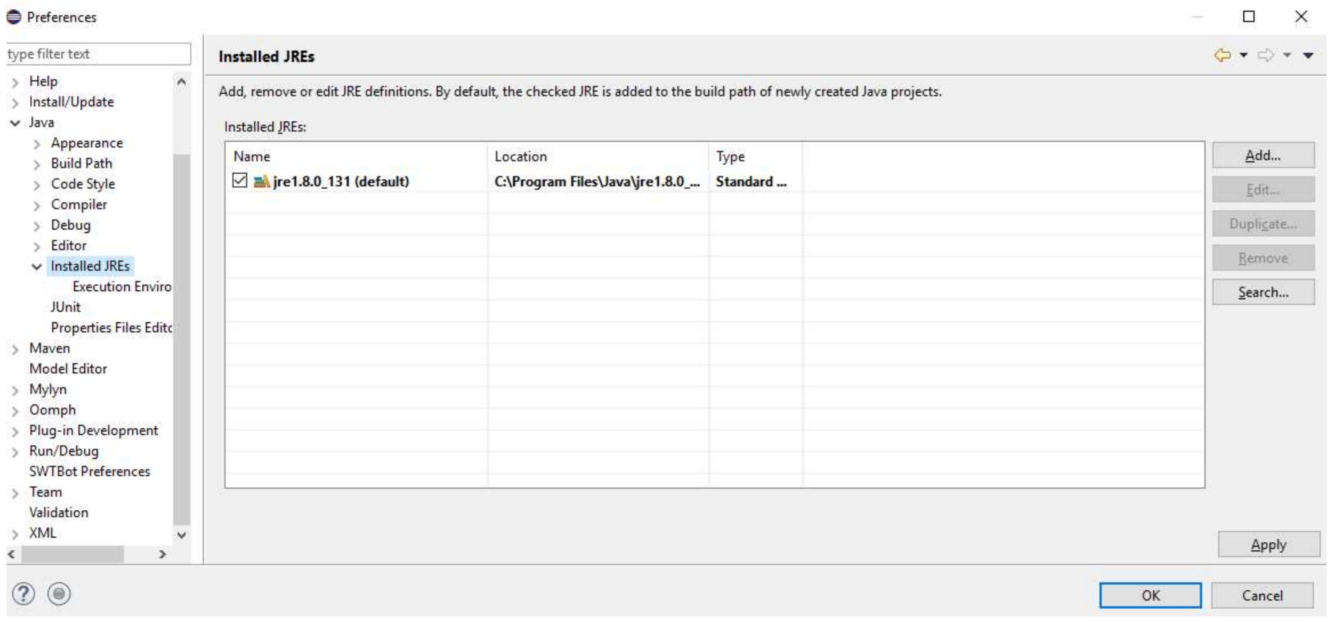
orkspaces\runtime-AviX47\.metadata\.log]

Plug-in	Date
org.eclipse.osgi	2017-05-03 17:37

What can be done about this is to tell Eclipse to use a 32-bit Java instead when debugging.

1. First of all, make sure to have a 32-bit Java JRE installed on your system.

2. Make Eclipse aware of your JREs/JDKs. Open “Window->Preferences”, go to Installed JREs:



Installed JREs

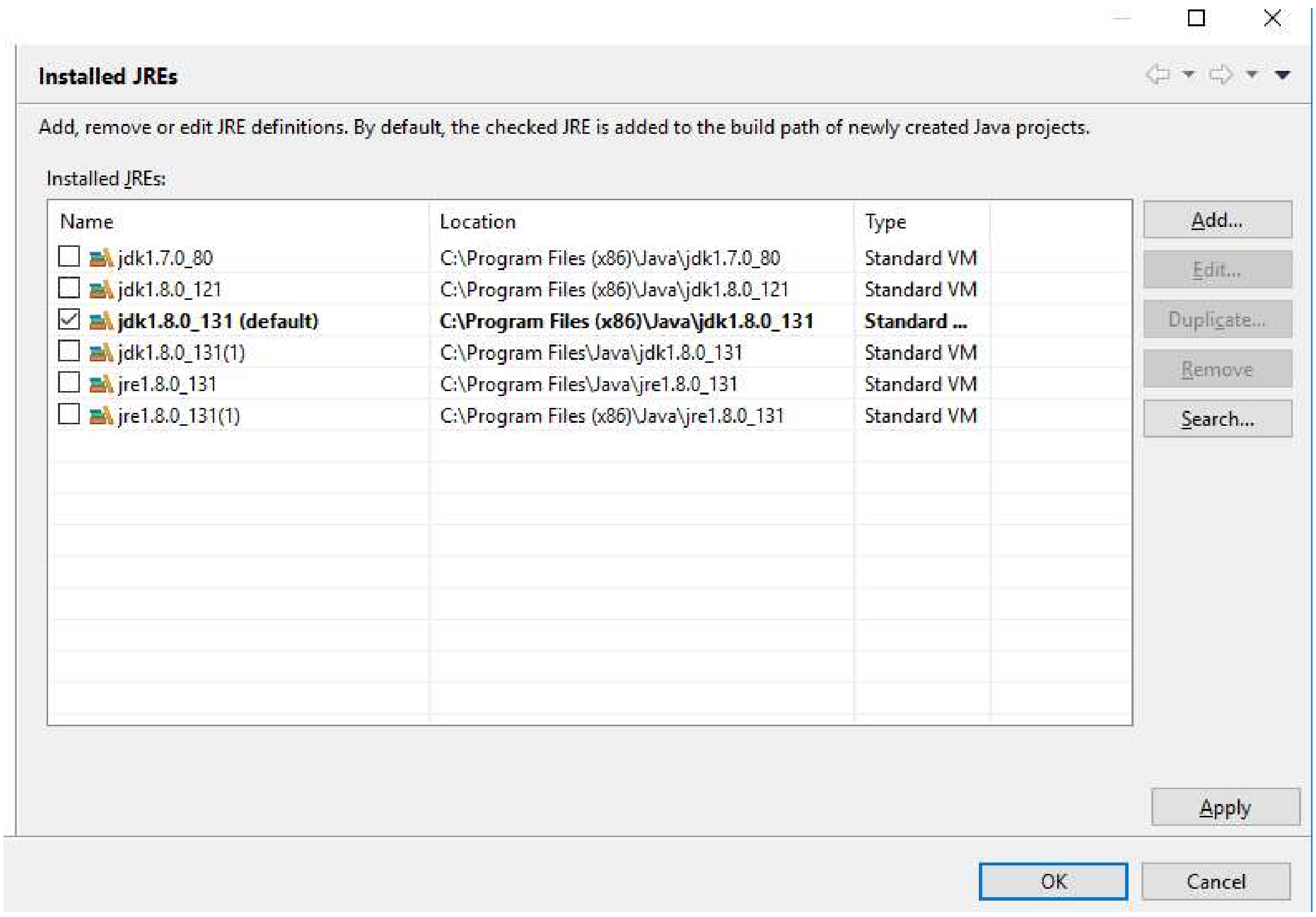
Add, remove or edit JRE definitions. By default, the checked JRE is added to the build path of newly created Java projects.

Installed JREs:

Name	Location	Type
☑ jre1.8.0_131 (default)	C:\Program Files\Java\jre1.8.0_...	Standard ...

3. Do “Search…”. I make sure to look in both ”Program” and in ”Program x86”. This is what it finds on my computer. Note that I have selected an x86 (32bit) version as my

new default, and I click Apply.



Installed JREs

Add, remove or edit JRE definitions. By default, the checked JRE is added to the build path of newly created Java projects.

Installed JREs:

	Name	Location	Type
☐	jdk1.7.0_80	C:\Program Files (x86)\Java\jdk1.7.0_80	Standard VM
☐	jdk1.8.0_121	C:\Program Files (x86)\Java\jdk1.8.0_121	Standard VM
☑	**jdk1.8.0_131 (default)**	**C:\Program Files (x86)\Java\jdk1.8.0_131**	**Standard ...**
☐	jdk1.8.0_131(1)	C:\Program Files\Java\jdk1.8.0_131	Standard VM
☐	jre1.8.0_131	C:\Program Files\Java\jre1.8.0_131	Standard VM
☐	jre1.8.0_131(1)	C:\Program Files (x86)\Java\jre1.8.0_131	Standard VM

4. Click OK. It may take some time now. A rebuild will take place.
5. You may try to re-launch the debug afterwards. It should succeed (if it manages to use the new default JRE).