

#### What's new in Plug-in Development?

"In PDE we do tooling, but our business is people"

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**EclipseSource** 

PDE Co-Lead and Technology PMC Member





# Agenda

- The Past (Ganymede)
- The Future (Galileo)
- Q&A



# Agenda

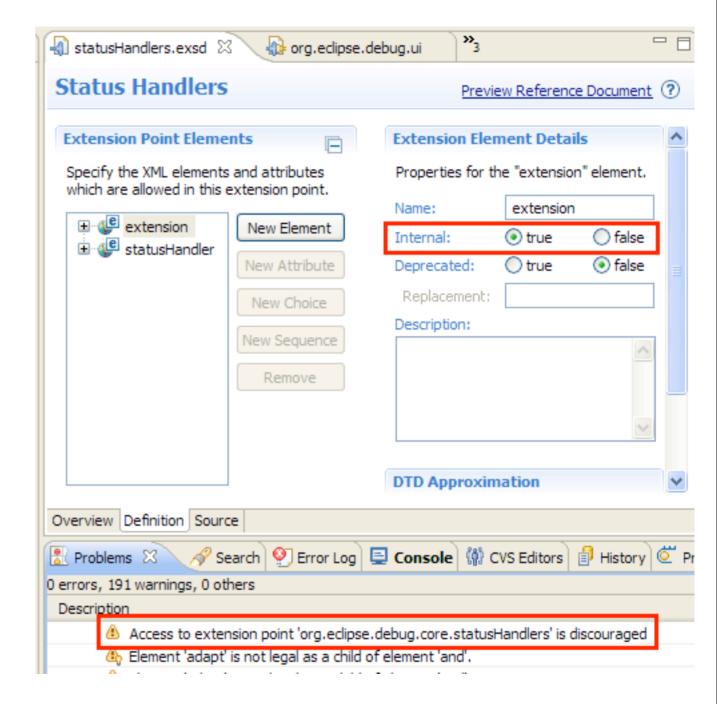
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#### Internal Extension Points

 Extension points can be marked as internal now, similar to how you mark packages internal







#### **Error Log Enhancements**

- More than meets the eye... browse launch configuration logs...
- Group log entries by
  - Session
  - Plug-in

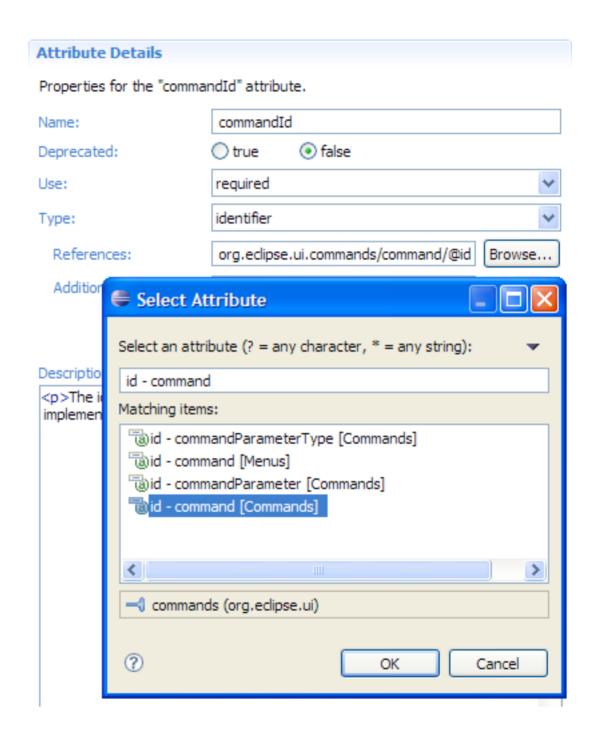






#### Schema Identifiers

- A new type was introduced in extension points: identifier
- Identifiers allow you to reference other extensions
- e.g., perspective extensions refer to a perspective id that is defined in another extension point



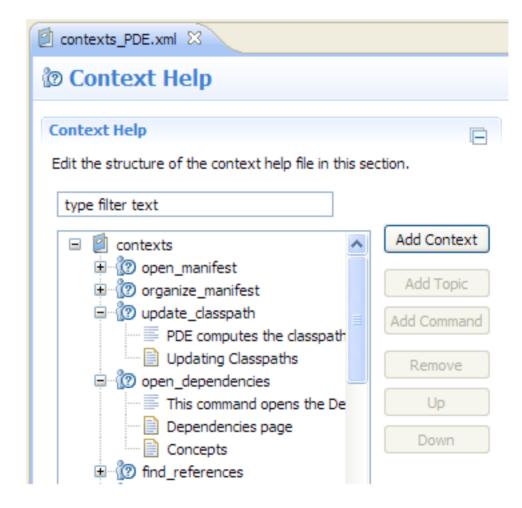




#### New User Assistance Editors

- Table of Contents Editor
- Context Help Editor



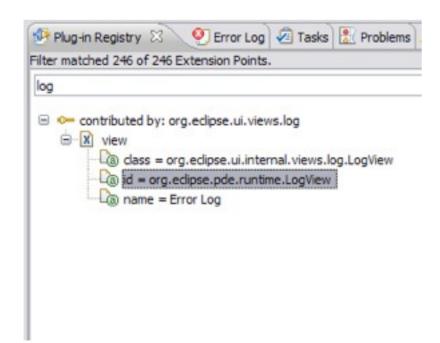


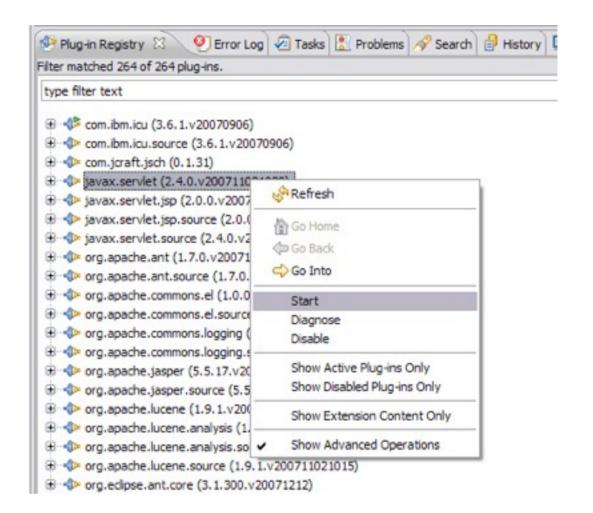




#### Plug-in Registry View Enhancements

- The Plug-in Registry view is your eye into the runtime
- Show Advanced Operations
  - start/stop bundles
- Show Extension Content Only
  - quickly browse extensions



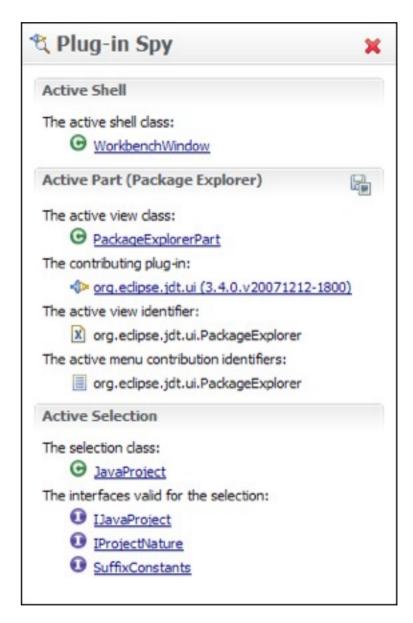






## Plug-in Spy (3.4M3)

- ALT+SHIFT+F1
- Allows you to introspect what you're looking at...
- Hyperlinking
- Shows contributing plug-ins

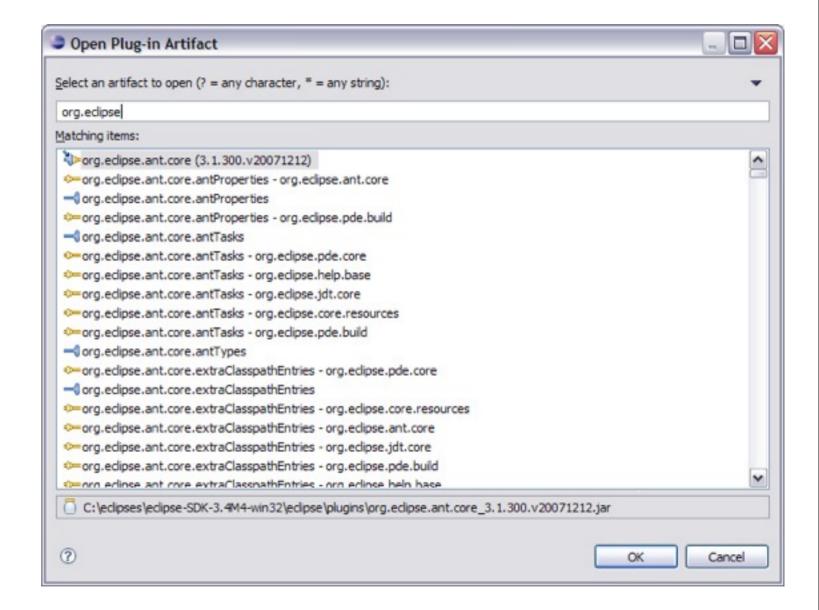






## Open Plug-in Artifact (3.4M4)

- Ctrl+Shift+A
- Quickly browse plug-ins, extensions and extension points, features (3.5)







# API Tooling (3.4M6)

- API tooling will assist developers in API maintenance by reporting...
  - API defects such as binary incompatibilities
  - incorrect plug-in version numbers
  - missing or incorrect @since tags
  - usage of non-API code between plug-ins

```
* @see org.eclipse.core.runtime.IAdaptable#getAdapter(j
  669
         public Object getAdapter (Class adapter) {
  67
             if (adapter == IDebugElement.class) {
  68
                 return this;
             if (adapter == IStepFilters.class) (
  71
                 return getDebugTarget();
  73
             if (adapter == IDebugTarget.class) {
                 return getDebugTarget();
  75
             if (adapter == ITerminate.class) {
                 return getDebugTarget();
             if (adapter == IJavaDebugTarget.class) {
                 return getJavaDebugTarget();
1 items
 Description -
Illegally overrides org.eclipse.debug.core.model.DebugElement.getAdapter
```





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#### \*EE Library Validation Access (3.5M5)

- Validate references to system library based on EE (J2SE-1.4, etc).
- A 1.4 project should not reference 1.5/1.6 methods/classes
- Targetting 1.4... or lower...
  - and use Boolean.parseBoolean(String)... @#%^!
  - and use StringBuilder... new String(StringBuilder)... W#\$%







# \*API Tooling for Extension Registry (3.5M5)

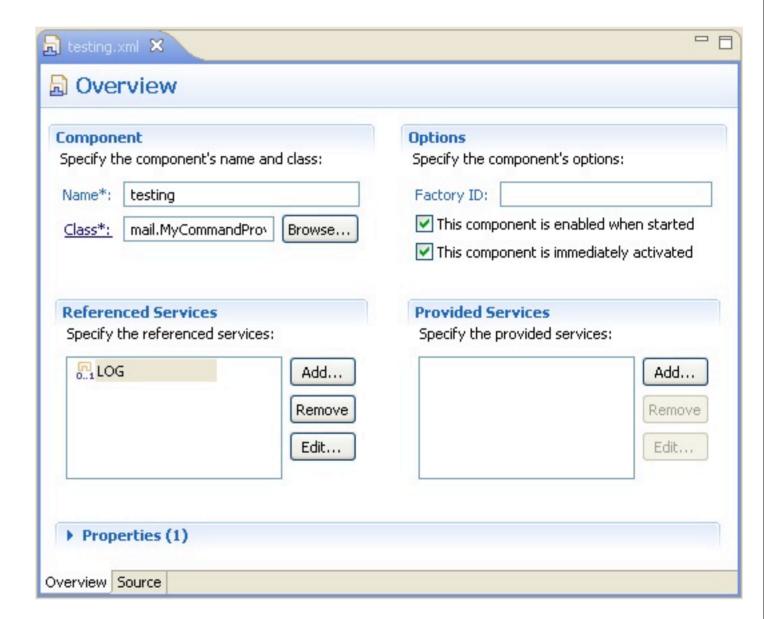
- What do you consider API in extensions?
- View ids? Perspective ids?
- Goal is to provide same functionality as we have for Java but for extensions





#### Declarative Services Tooling (3.5M2)

- DS Tooling
  - Editor
  - Validation
  - Code Completion
  - Sample Templates

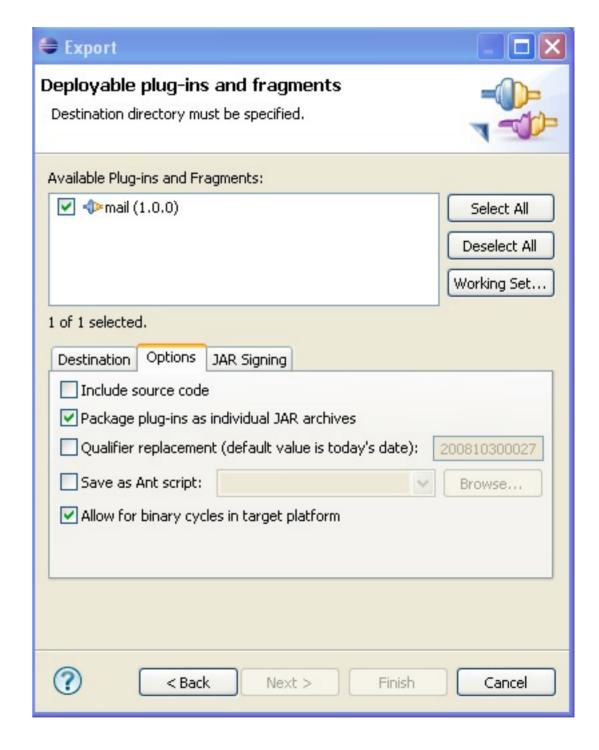


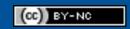




#### Binary Cycles (3.5M3)

- PDE UI and Build supports binary cycles in the target platform
  - Note: PDE Build supports this in 3.4

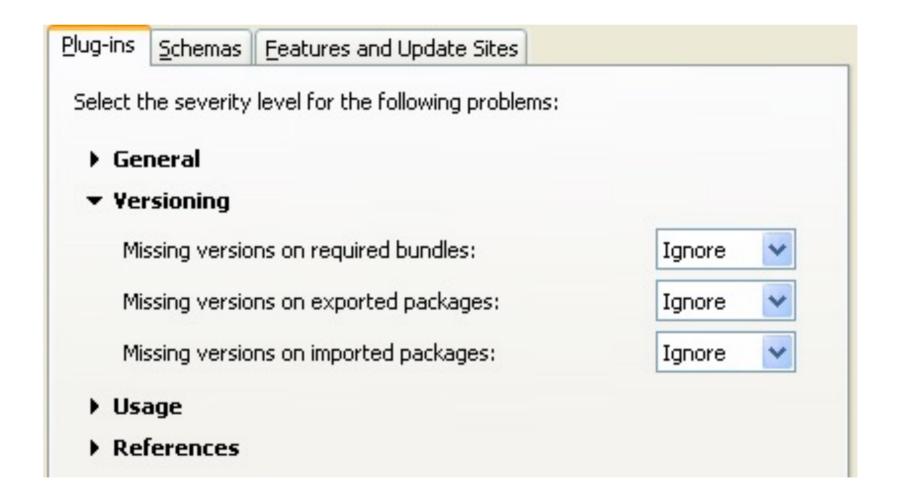






# Versioning Checks (3.5M3)

PDE can now help you validate information around versions







## Parallel Compliation (3.5M3)

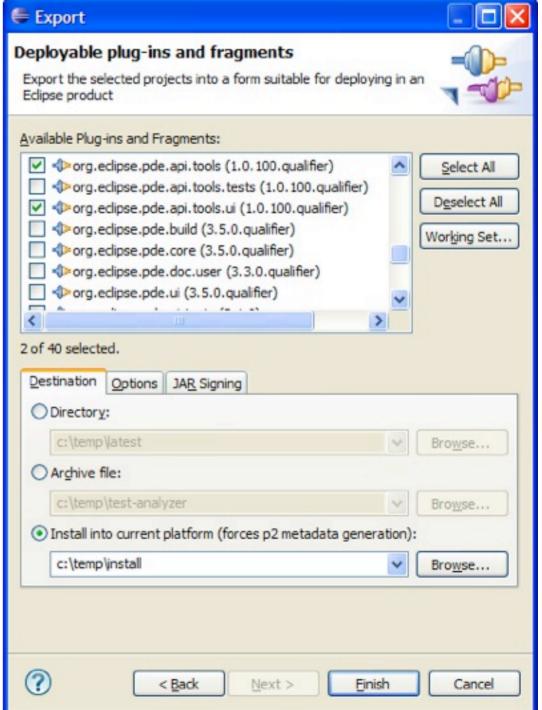
- PDE Build now supports parallel compilation
  - parallelCompilation=true in your top-level build.properties file





Export to Running Instance (3.5M3)

 PDE now supports exporting to the current running platform

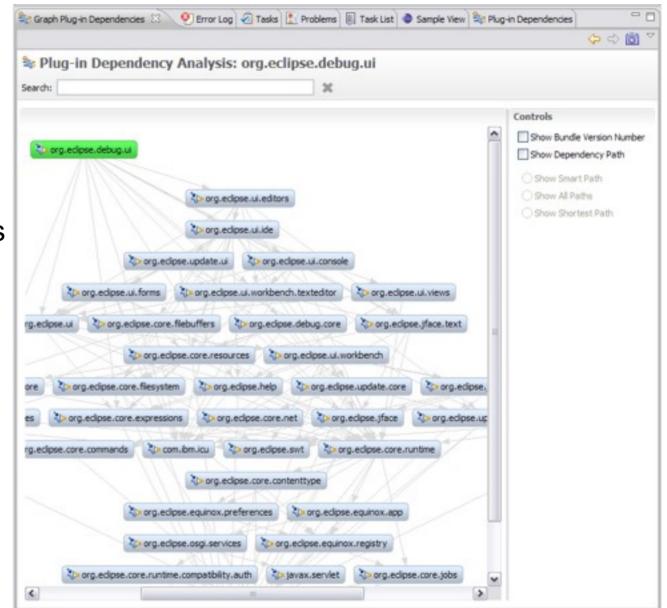






# \*Graph Plug-in Dependencies View (3.5M5)

- PDE Incubator Project
- Visualize your dependencies
- Pictures are worth a thousand words
- Looking to graduate in 3.5

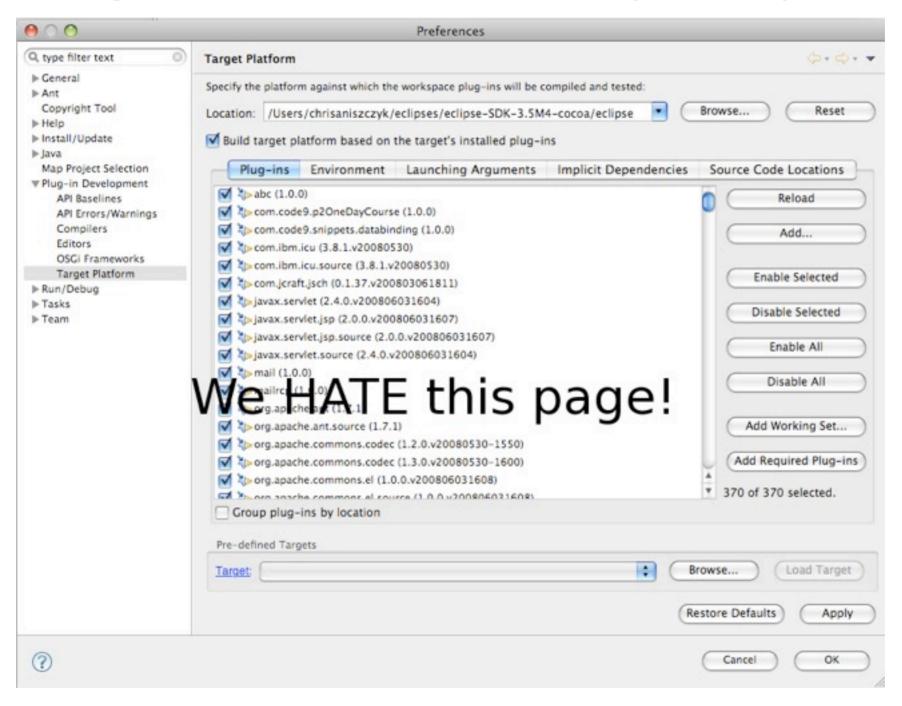


\* http://www.eclipse.org/pde/incubator/dependency-visualization/





## \*Target Management Improvements (3.4M5)

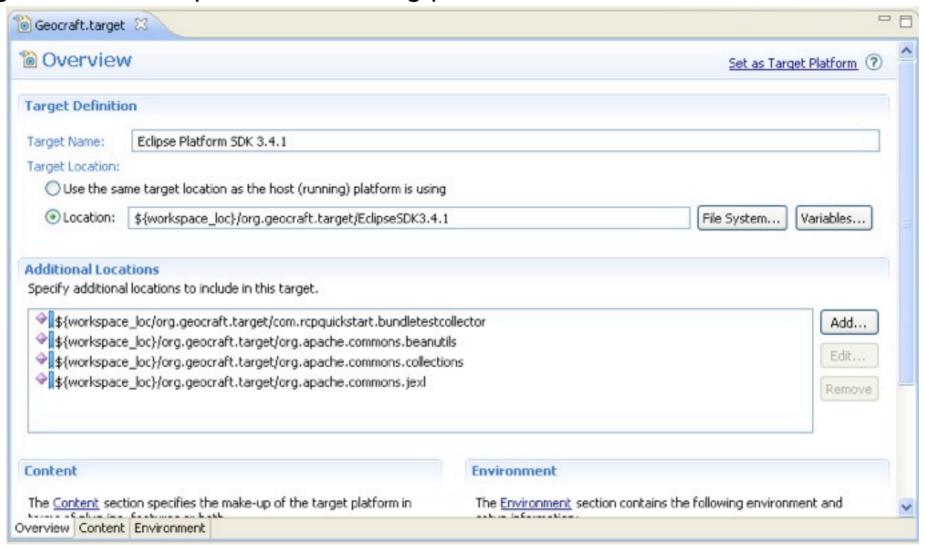


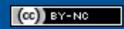




## \*Target Management Improvements (3.4M5)

- Target definitions to be used by default
- \*Target itself will be managed by p2
- \*Target can be self-provisioned using p2

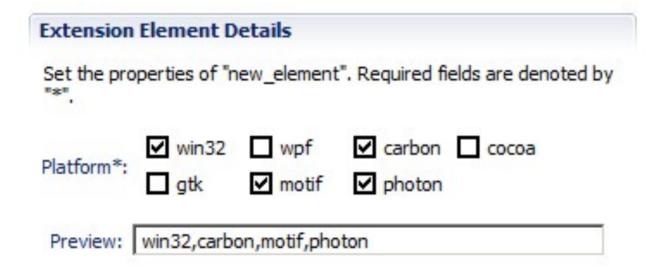






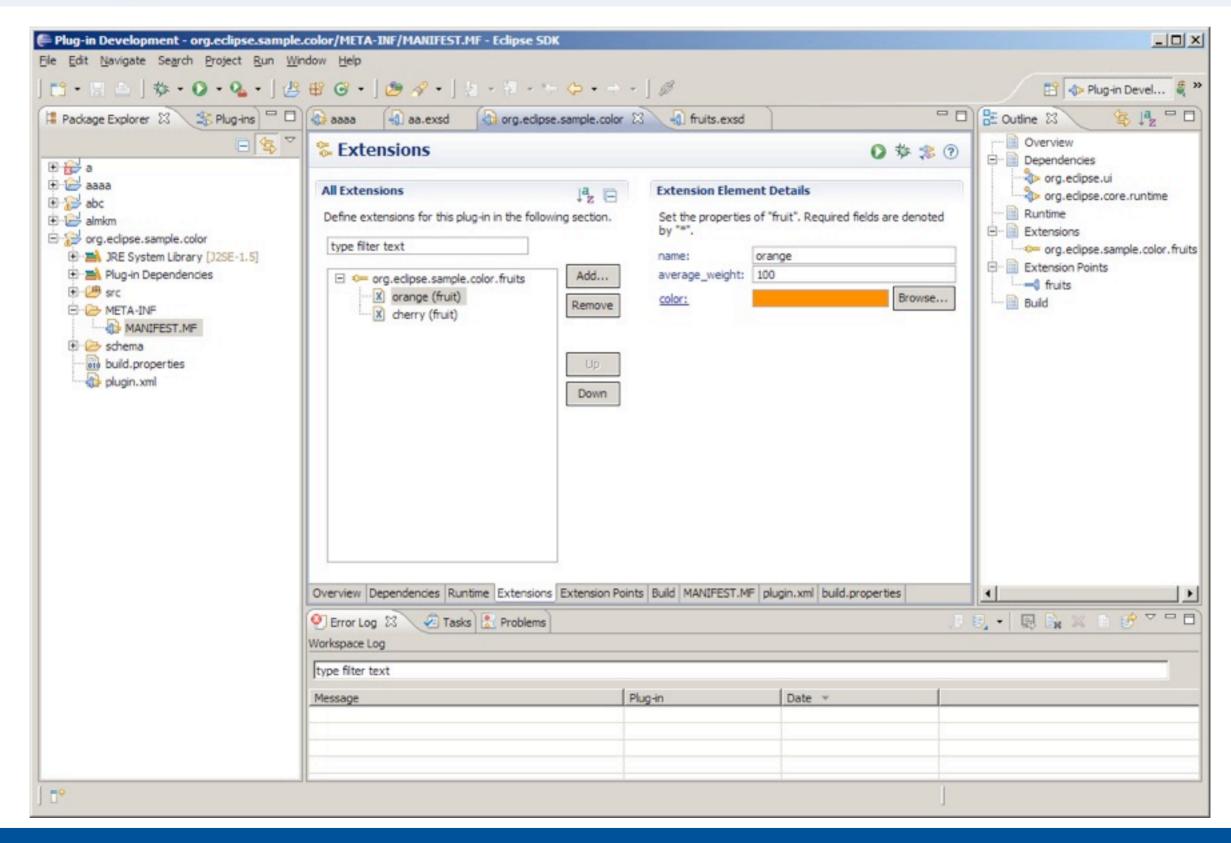
#### Custom Schema Types (3.5M5)

- Currently, there are five types of attribute types:
  - Resource
  - Java
  - Identifer
  - String
  - Boolean
- This will allow people to plug-in their own types in... what does that mean?



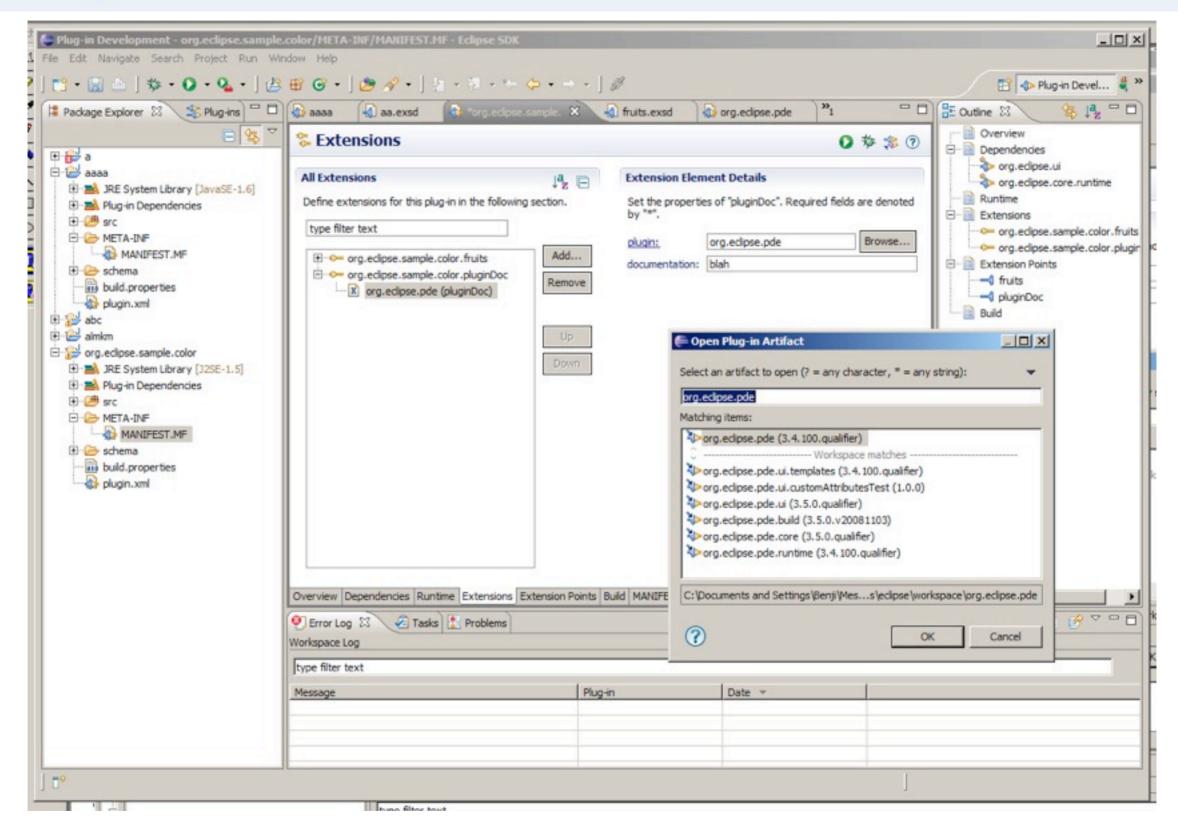








# EclipseSource

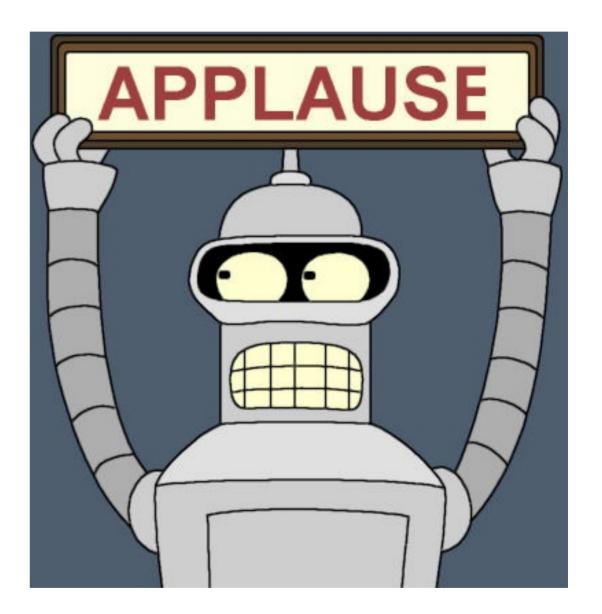






#### Conclusion

- http://www.eclipse.org/pde
- PDE is only as good as you want it to be... so please file bugs for influence!
- Want to contribute?
  - PDE Bug Day
  - http://wiki.eclipse.org/BugDay
- Thank you!







Questions?

Suggestions?

Requests?





## **Suggestion Box**

- •?
- ?
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