CSS-Update Site / What makes a plugin a CSS plugin

EPICS Meeting – Control System Studio SIG

DESY, April the 24th, 2007

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Overview

Update site

- Eclipse update mechanism
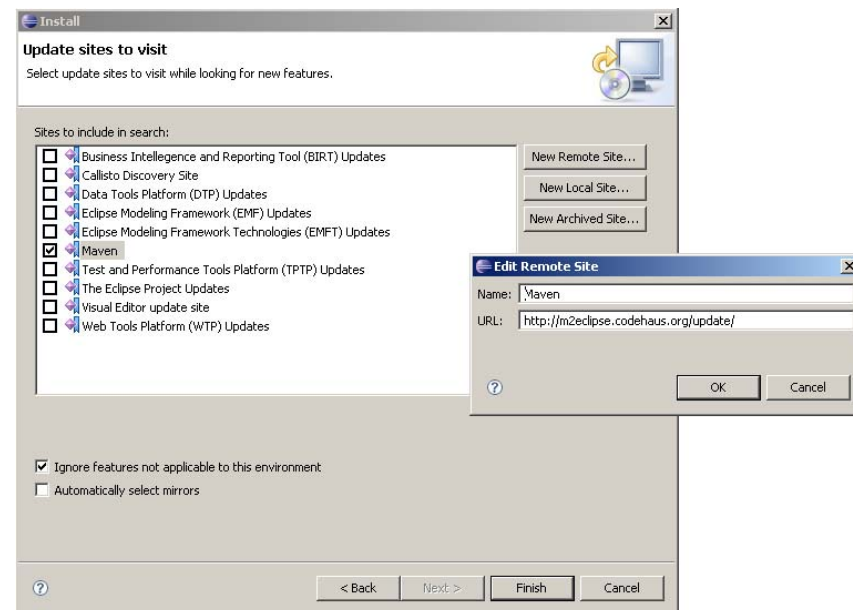- How to contribute a plugin on the css update site

Nature of a CSS - plugin

- Requirements and conventions for a CSS - plugin
- Development of a CSS - plugin

Eclipse update mechanism

Eclipse update site

- Get new features for your eclipse installation
- Update current features in your eclipse installation
- Eclipse checks for dependencies of features and plugins
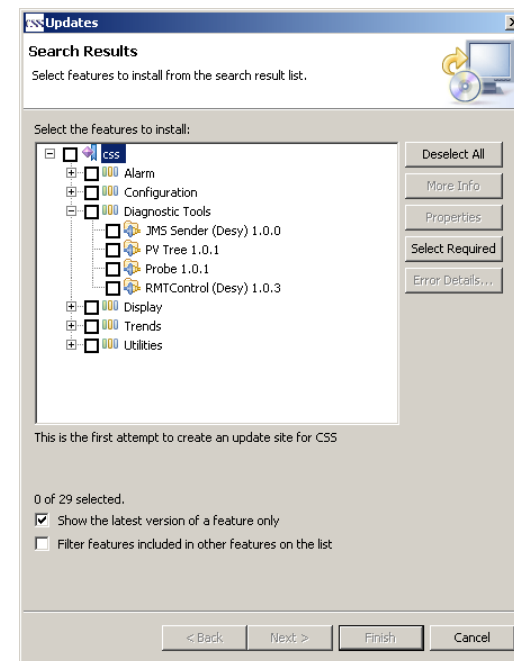- Easy to create an update site for your own applications

CSS update site I

CSS platform

- CSS main application (Download from cs-studio.org)
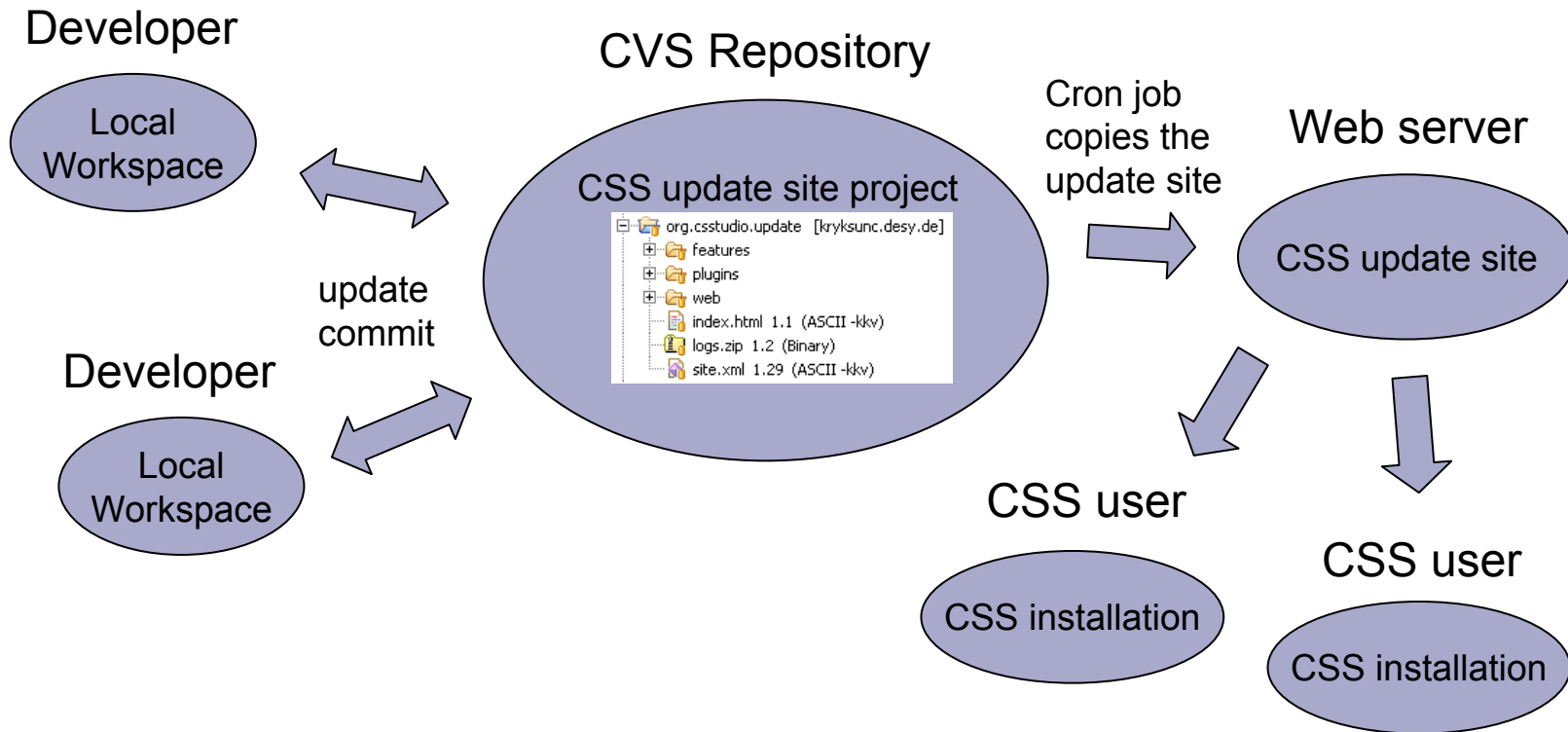- Provides the online update mechanism

CSS applications

- CSS platform includes no applications
- Get CSS applications from http://eclipse.desy.de/update:

  Help → Software Updates → Find and Install → Search for new features

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CSS update site II

Organisation for the update site

Developer

Local Workspace

CVS Repository

CSS update site project

Cron job copies the update site

Web server

CSS update site

update commit

Developer

Local Workspace

org.csstudio.update [kryksunc.desy.de]
features
plugins
web
index.html 1.1 (ASCII -kkv)
logs.zip 1.2 (Binary)
site.xml 1.29 (ASCII -kkv)

CSS user

CSS installation

CSS user
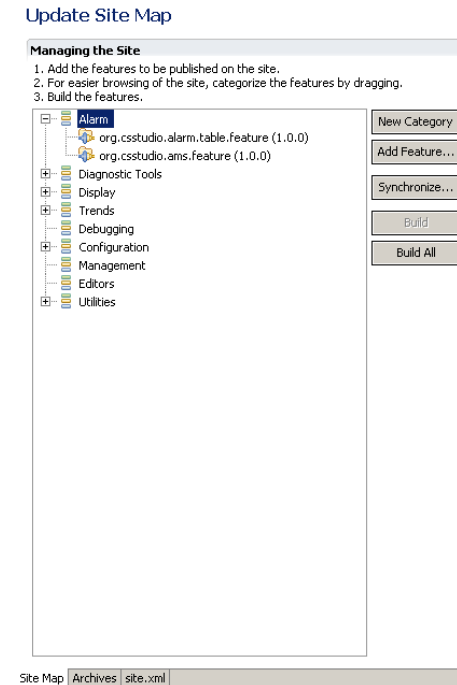
CSS installation

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CSS update site III

Prepare a CSS application for the update site

- An update site provides only features not plugins
- The Eclipse feature project defines all necessary plugins for the new CSS application

Add a feature to the update site

- Import/update the update site from CVS
- Add your feature to a category
- Build your feature

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Requirements for CSS plugins I

Technically a CSS plugin has to fulfill the requirements of an eclipse plugin
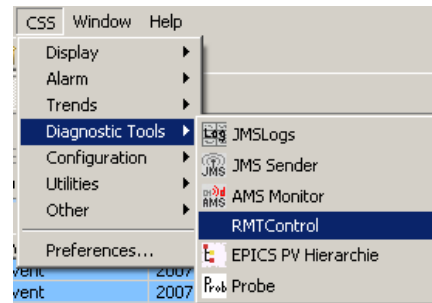
The CSS platform provides an infrastructure and conventions that a CSS application should use

- The structure of a CSS plugin as an eclipse project (Code style, Base class for Activator)

- Features of the CSS platform plugins for developers (Logging, Authorization, Authentification)

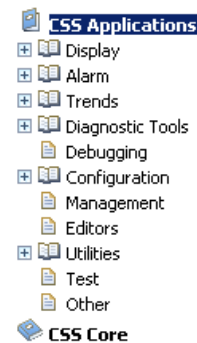- A CSS application should be integrated in the CSS UI structure for a common L&F

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Requirements for CSS plugins II

Convention for a CSS plugin
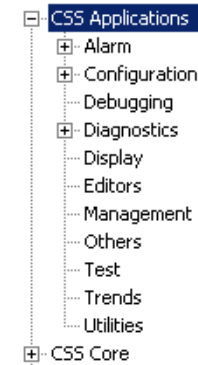
- Integration in :
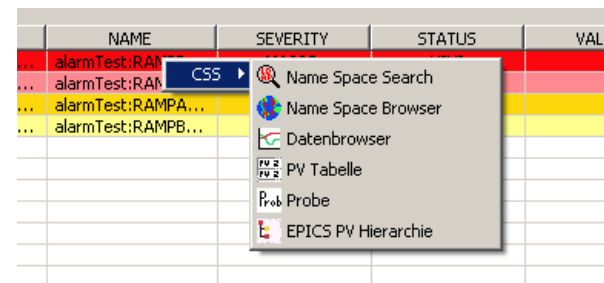
CSS menu   Help system   Preference pages
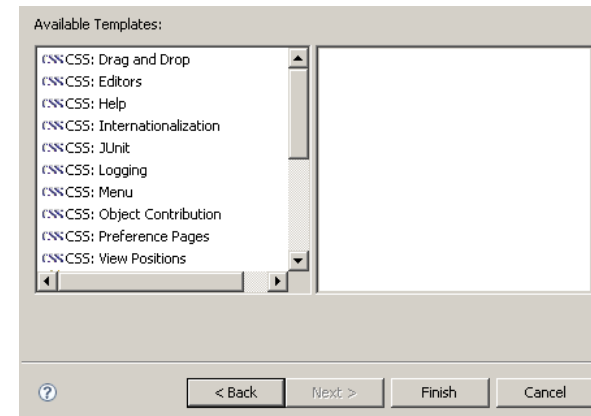

- Using centralised logging mechanism
- Implement CSS Datatypes for DnD and Object contribution

Development of a CSS plugin

Plugin for development support

- Copy plugin "developmentsupport.jar" in the plugin folder of your Eclipse IDE
- For new CSS plugins you can use Templates

Available Templates:
- CSS: Drag and Drop
- CSS: Editors
- CSS: Help
- CSS: Internationalization
- CSS: JUnit
- CSS: Logging
- CSS: Menu
- CSS: Object Contribution
- CSS: Preference Pages
- CSS: View Positions

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CVS repositories

- CSS – Core : Plugins for the CSS platform
- CSS – Applications : Plugins in productive use
- CSS – Sandbox : Plugins to test new applications

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