



IEC 61499

Automation Objects

Architecture of the Eclipse based AutomationObjects Designer



- Eclipse is more than a Java IDE
 - it has an open, extensible architecture
 - built out of large of plugin-ins
 - everybody can contribute plug-ins
- Social implications
 - every programmer can be a tool smith
 - creating opportunities for further extensions makes it possible for the tool smith to benefit from the work of others
 - it has to be easy to install and manage plug-ins



Everything is a Plugin

- ***Plugin == Component***

- set of contributions
- smallest unit of an Eclipse unit

- ***Extension point***

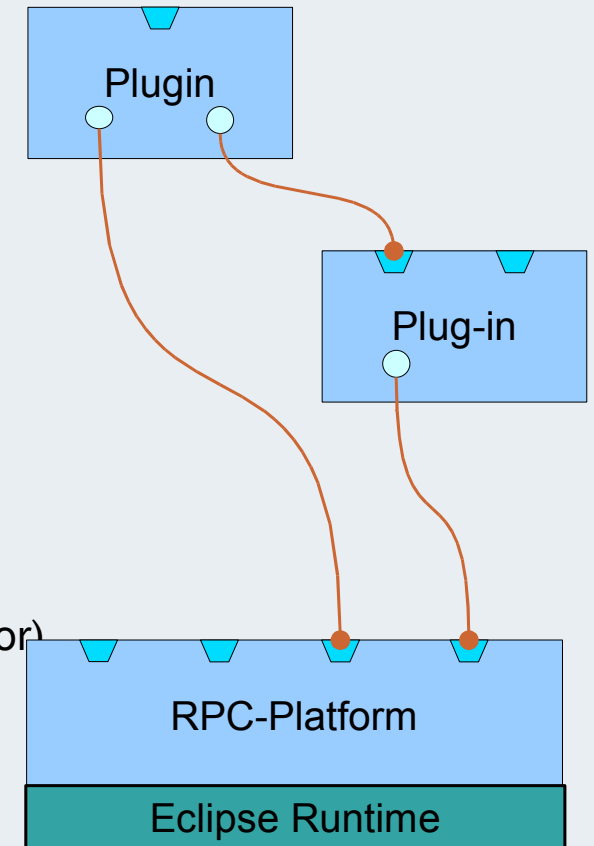
- named entity for collection contributions

(example: extension point to add code converter to the IEC 61499 Editor)

- ***Extension***

- a contribution

(example: a code converter from ST to Java)



○ Extension

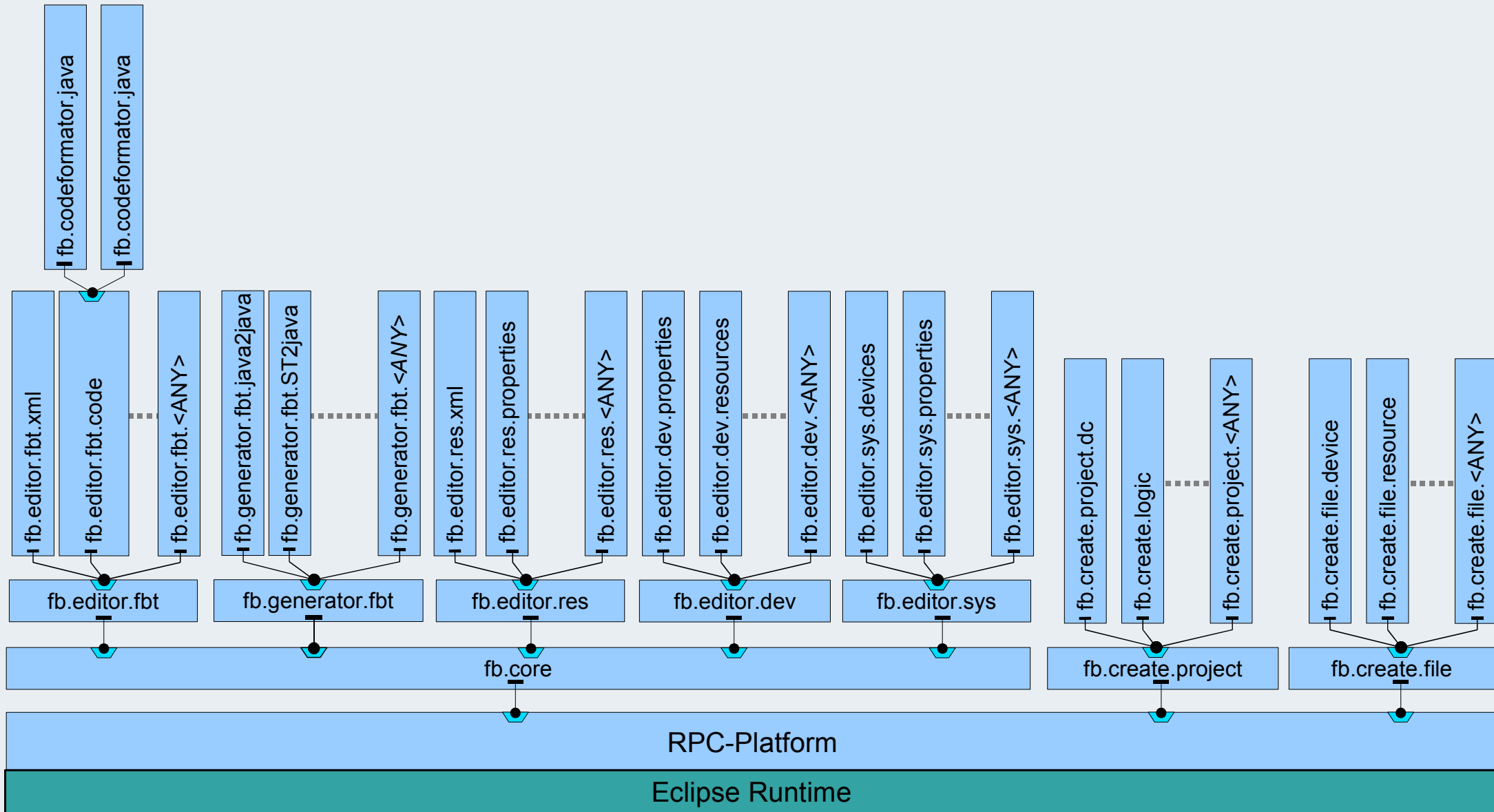
▤ Extensionpoint

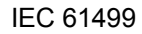


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Automation Objects

AO Designer Architecture





Basic FunctionBlock Editor





- Development
 - IEC 61499 Designer has an open, extensible and clean architecture
 - No or less code dependencies
 - everybody can contribute plug-ins
- Social implications
 - every programmer can be a tool smith.
 - vendors can customize the AO Designer to there products.
 - loose coupling of vendors which developed for the AO Designer.

