

Control System Studio Training

-

More about “Products”

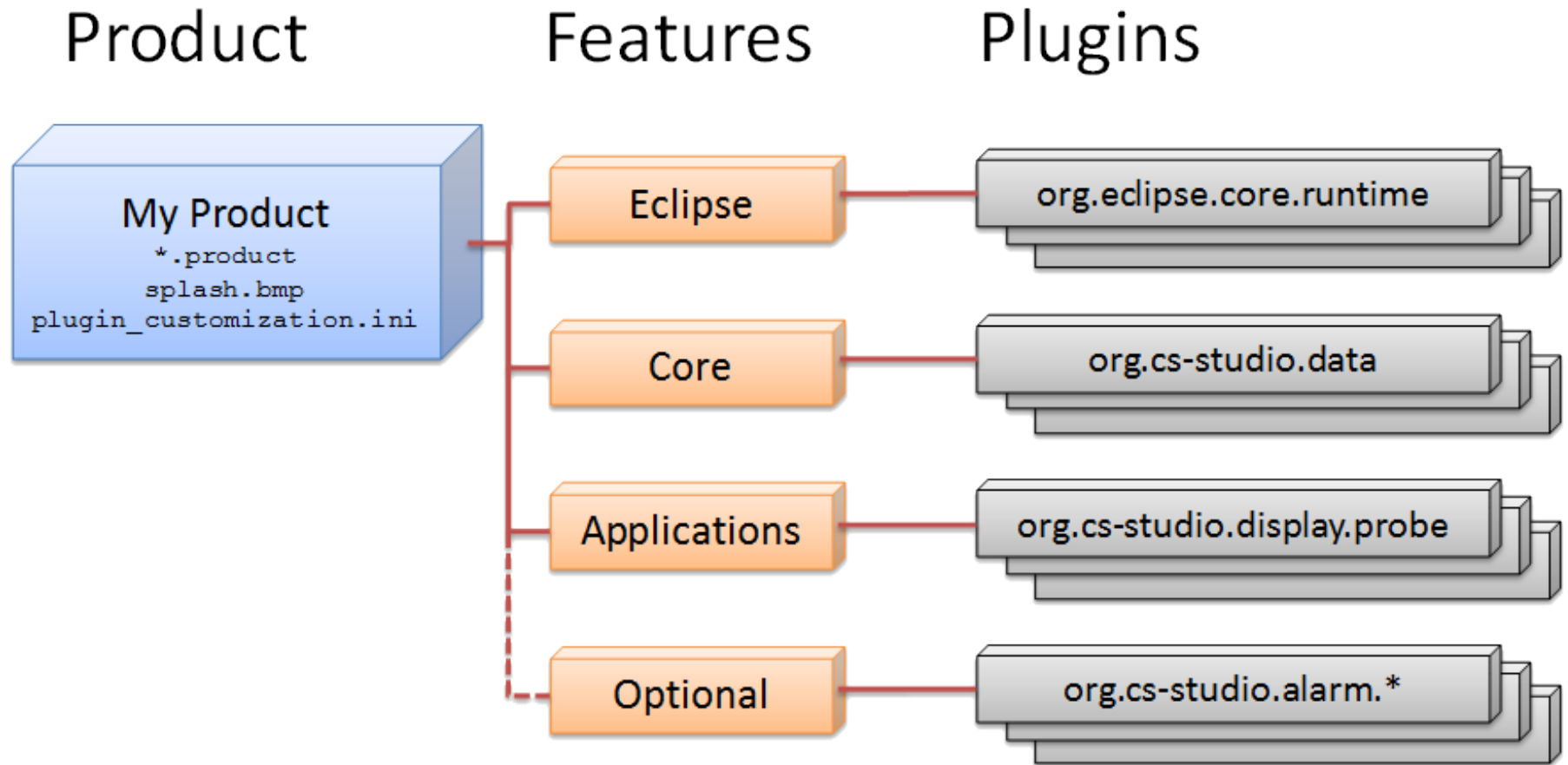
Kay Kasemir

ORNL/SNS

kasemirk@ornl.gov

Jan. 2013

Product: Composition of Plugins



Feature-Based Products

- **org.cstudio.basic.epics.product/CSS.product**
 - Based on “Features”
- **org.csstudio.sns.feature.applications**
 - org.csstudio.diag.probe
 - org.csstudio.diag.epics.pvtree
 - ...
 - and features ...opibuilder, ...databrowser

Features:

1. “Group” plugins to better organize them
2. Features can be installed & updated from update sites
 - Individual plugins can’t

Smaller Products without Features

- `org.csstudio.archive.engine/ArchiveEngine.product`
- `org.csstudio.archive.config.rdb/ArchiveConfigTool.product`
- `org.csstudio.alarm.beast.server/AlarmServer.product`
- `org.csstudio.alarm.beast.configtool/AlarmConfigTool.produc`

It's OK to not use features

Easier to start that way.

**But: Less organized,
no install & update possible.**

Dependencies

- **org.csstudio.diag.probe**
 - MANIFEST.MF, plugin.xml
 - Dependency on ..utility.pv
- **org.csstudio.utility.pv***

Products that include probe must also include utility.pv.

Otherwise obvious error about missing dependency at startup, or no product at all.

**Similar: Databrowser depends on
org.csstudio.archive.reader,
org.csstudio.logbook**

*** Apology for the bad example.
We're just now replacing *.utility.pv.* with *.pvmanager.*...**

Extension Points

- **org.csstudio.utility.pv**
 - Extension point `pvfactory`
 - “How to get live data”
- **org.csstudio.utility.pv.simu**
 - Implements that ext. point for “loc”, “sim”, ...
- **org.csstudio.utility.pv.epics**
 - Implements that ext. point for “ca”
 - Depends on `..libs.epics`

You may include `utility.pv.epics`, or `pv.simu`, or both.

Not enforced by Eclipse.

No error message on startup.

But probe may not display any data.

Similar:

`org.csstudio.logbook.*` - Need 0 or 1

`org.csstudio.archive.reader.*` - Need 0 or more

To build a custom product:

- You pick what you want
 - Probe, Data Browser, BOY, ...
- Add dependencies, Eclipse helps
 - Logbook, pv, archive, ...
- Determine what you may also need
 - `pv.epics`, `logbook.mysite`, `archive.reader.*`
- Test within Eclipse IDE (Run Configurations...)
 - Then update your `*product`, `*feature`

Read <http://cs-studio.sourceforge.net/docbook/>