Control System Studio Training
-
Archive System

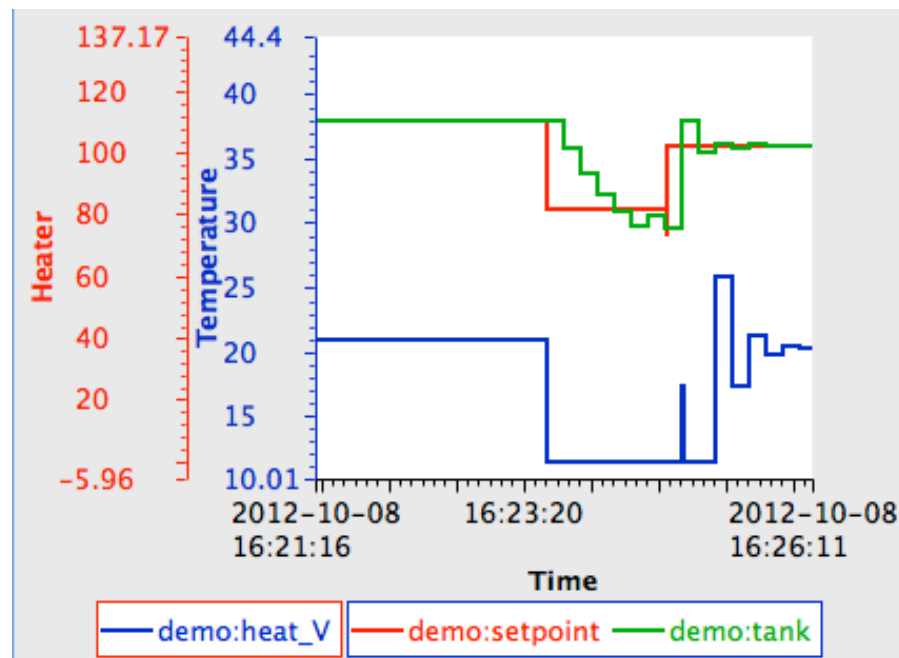**Kay Kasemir**

ORNL/SNS

kasemirk@ornl.gov

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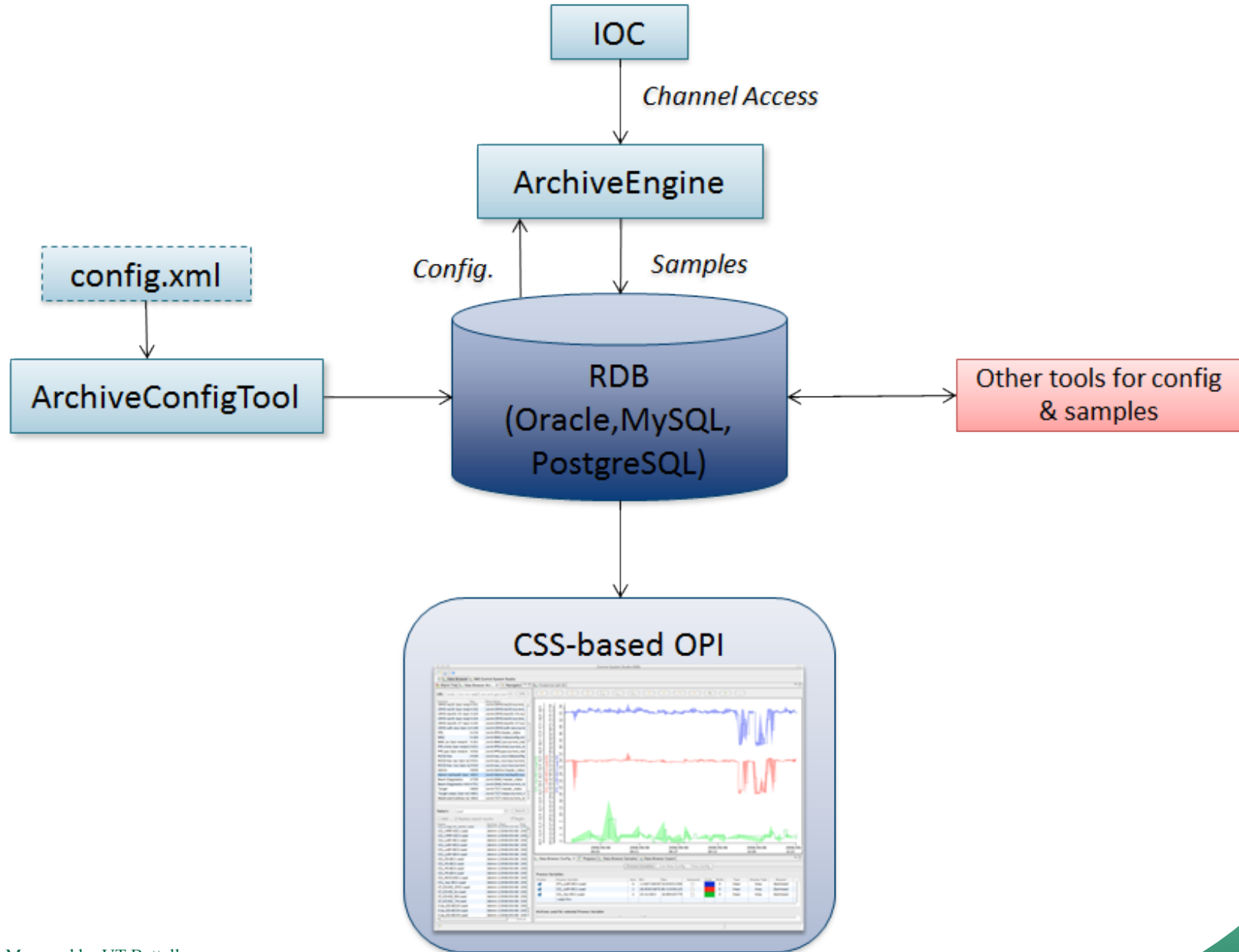
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Archive System Interactions

- ## End User
  - ### Look at PVs in Data Browser

- ## Administrator
  - ### Setup Data Store
  - ### Create Configuration
  - ### Run Archive Engine(s)

Archive System Overview

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RDB Alternatives

- **Data Browser**
  - **read from old Channel Archiver's ArchiveDataServer.cgi**
  - **use your own site-specific 'reader' plugins**

- **Archive Engine**
  - **Pluggable Configuration**
  - **Pluggable 'Write' support**

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Which one to use?

- **Channel Archiver**
  - **Fast**
  - **Can't be maintained**

- **RDB**
  - **Slow**
  - **Super easy to maintain**

- **Worth a look: SLAC Archive 'Appliance'**

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CSS Data Browser Configuration

- **Can be done via preference GUI**

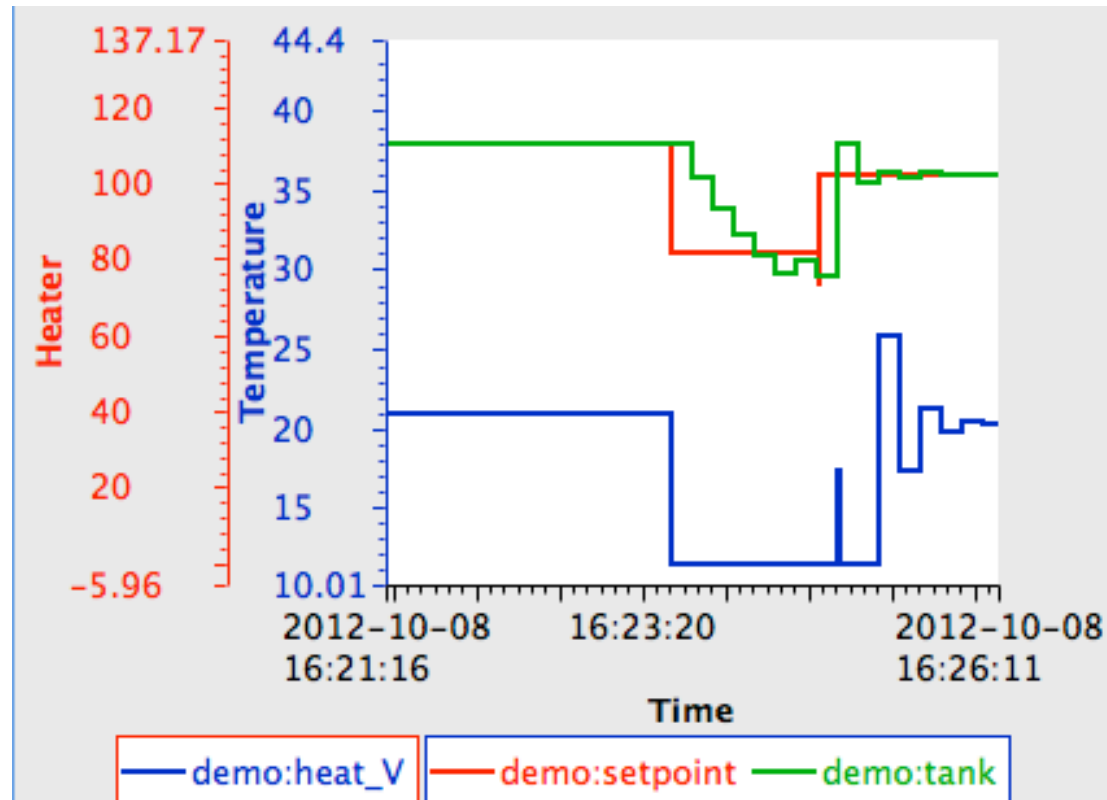- **Better: plugin_customization.ini of CSS product:**

```
# Read-only(!) archive access
org.csstudio.archive.rdb/url=jdbc:mysql://localhost/archive
org.csstudio.archive.rdb/user=report
org.csstudio.archive.rdb/password=$report
org.csstudio.archive.rdb/schema=

# URLs for archive search
org.csstudio.trends.databrowser2/urls=jdbc:mysql://localhost/archive

# Default data sources for newly added channels
# Format:  <name>|<key>|<url>
org.csstudio.trends.databrowser2/archives=RDB|1|jdbc:mysql://localhost/archive
```
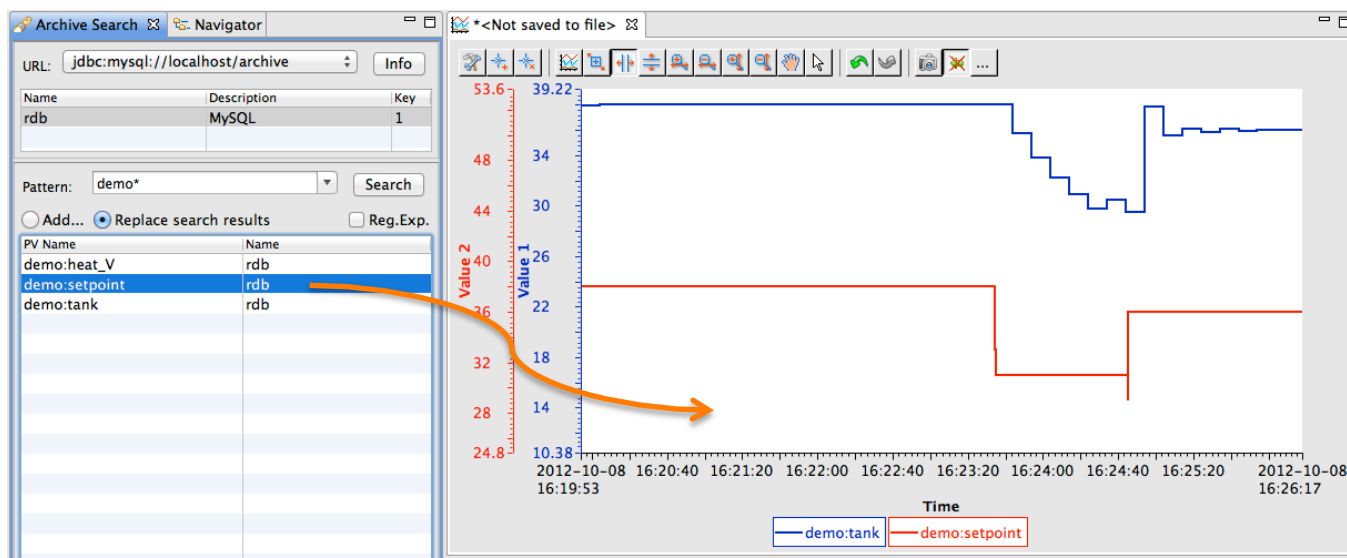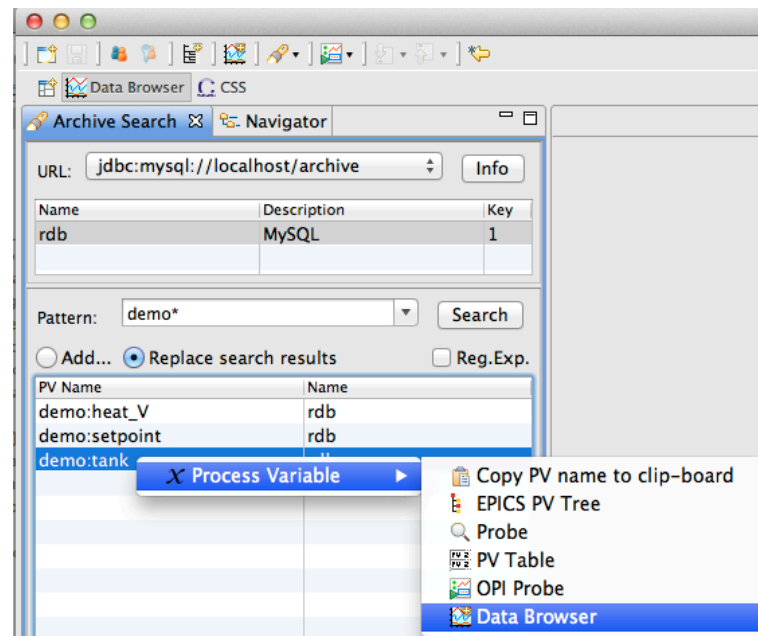
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View Archive Data in CSS Data Browser

- **Open Data Browser Plot**

- **Add PV**
  - **If default archive setup lists data source with historic data for the PV, it will be displayed**

Searching for PVs in Archive

- ## Open Archive Search View
  - **Data Browser Perspective, or Plot's context menu**

- ## Search for channels via pattern

- ## Send to new Data Browser
  - **Via context menu**

- ## Send to existing Plot
  - **Via drag & drop**

That's it!

- **Look at data in Data Browser, no matter if "live" or "archived" data**

.. unless you also setup and maintain the infrastructure ..