CS-Studio: Logging

Olog

Requirements

- Basic functionality
 - Web service
 - Authentication
 - Multiple logbooks, tags
 - Create log entry
 - Edit log entry
 - Attach files
 - Search
 - Simple Web client

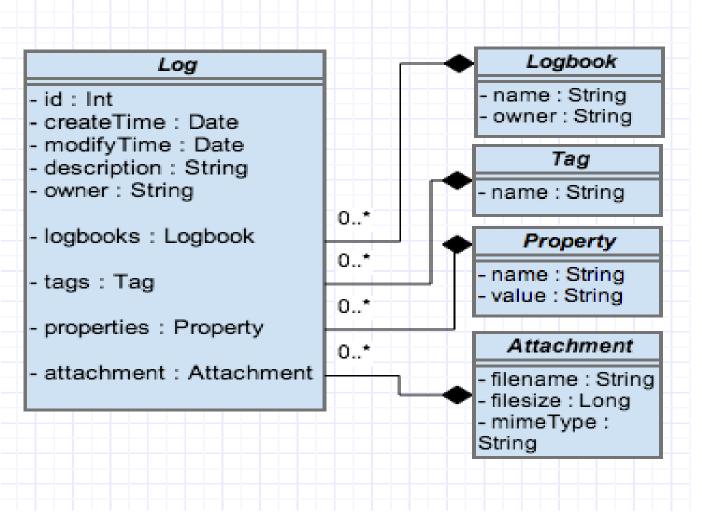
Requirements

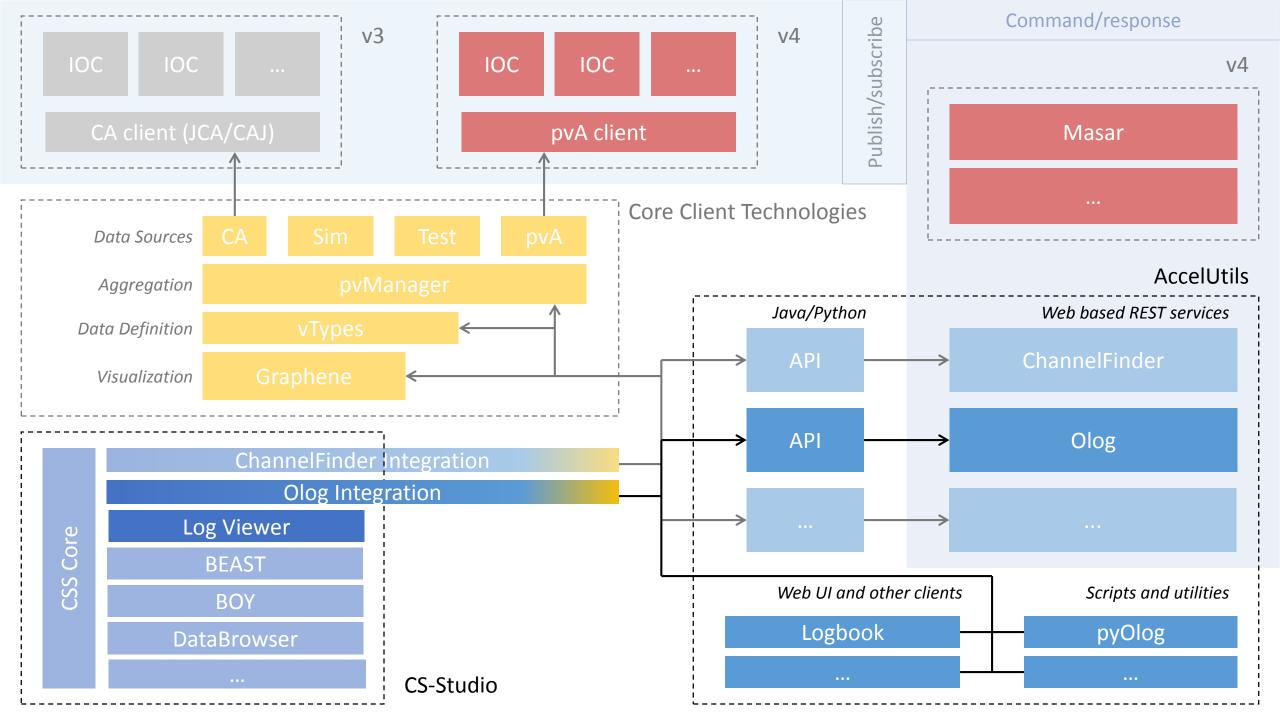
- Integration
 - IRMIS
 - »Component/Inventory
 - Physics data
 - Save/restore
 - CSS plug-in
 - Operations
 - »Beam statistics
 - » Down time/tuning time/beam on target
 - » Bypass records
 - »On shift records
 - »Trouble Reports
 - » Experiment records

Log Entry

- Time
- Owner
- Text
- Attachments
- Logbooks
- Tags
- Properties

Log Entry





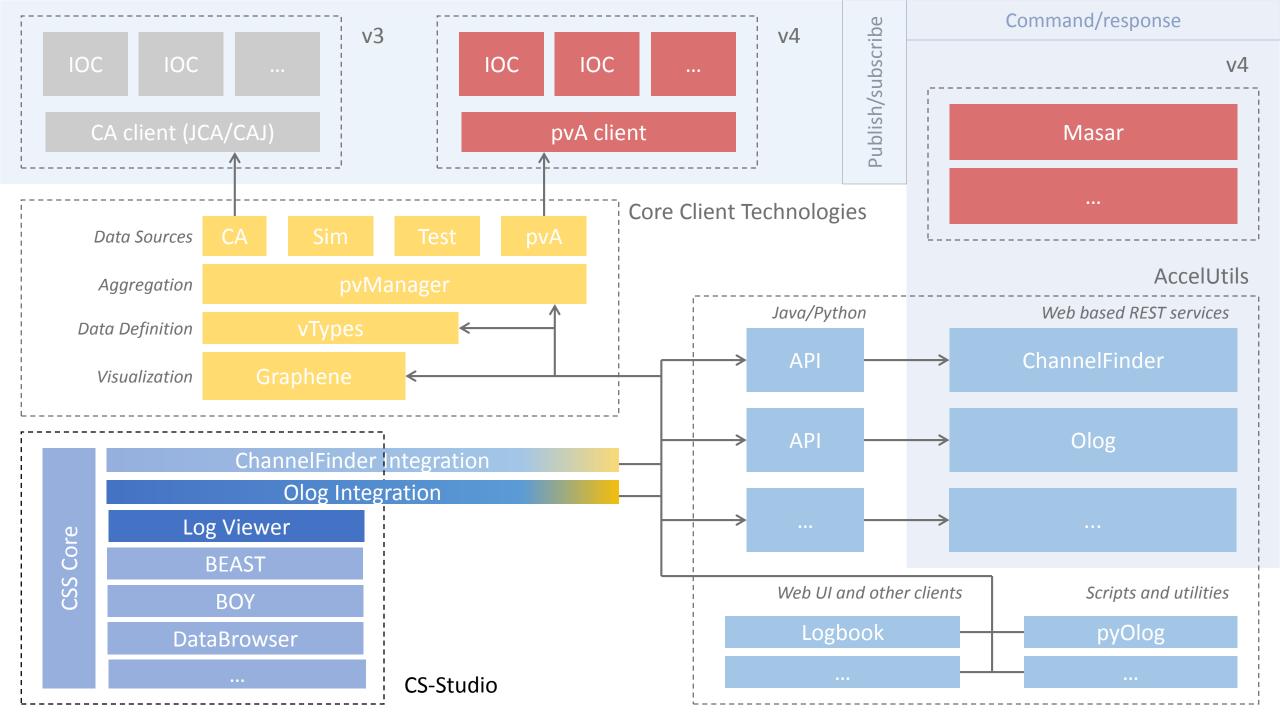
Olog Web service

- Create and modify log entries
- Search
- Organize entries using multiple logbooks, tags and properties.
- Integration with other tools/service
 - Control System (epics v3, v4)
 - CS-Studio
 - Physics Data
 - Save Restore
 -

Olog Client Libraries

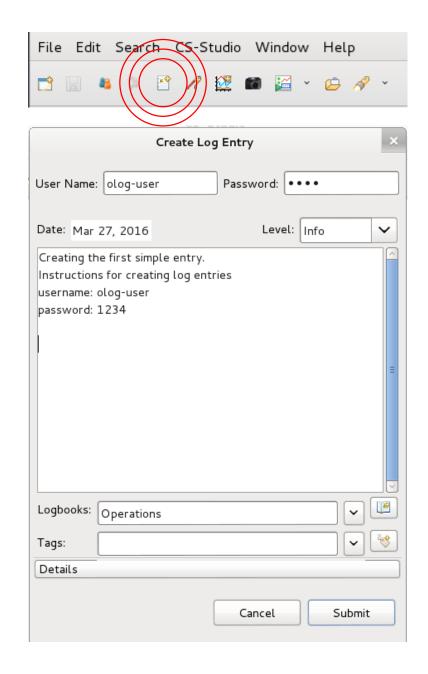
- Currently there is support for 2 languagues
 - Python
 - Java
- Manage network communication
 - Creating HTTP request
 - Setting up connection and Authorization
- Parsing json/XML into java or python objects
- Provide Utility Methods

CS-Studio & Olog



Creating simple log entries

- Create log entry
 - Toolbar
 - Context Menu
- Create log entry dialog
 - Required
 - Authentication/Authorization info
 - Log description
 - Logbook
 - Level
 - Optional
 - Tags
 - Attachments
 - Properties

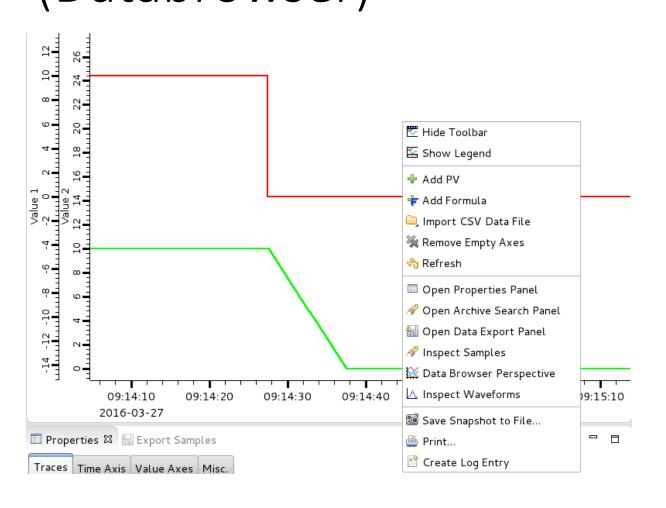


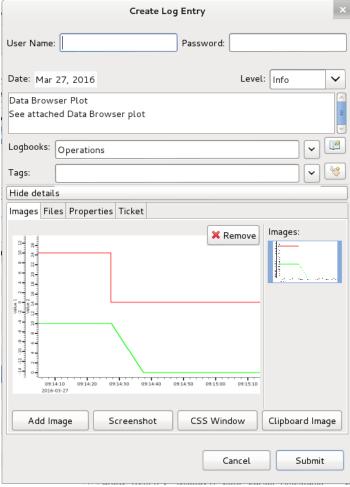
Olog Clients – CS-Studio

 CS-Studio is an eclipse based framework for developing controls and physics applications

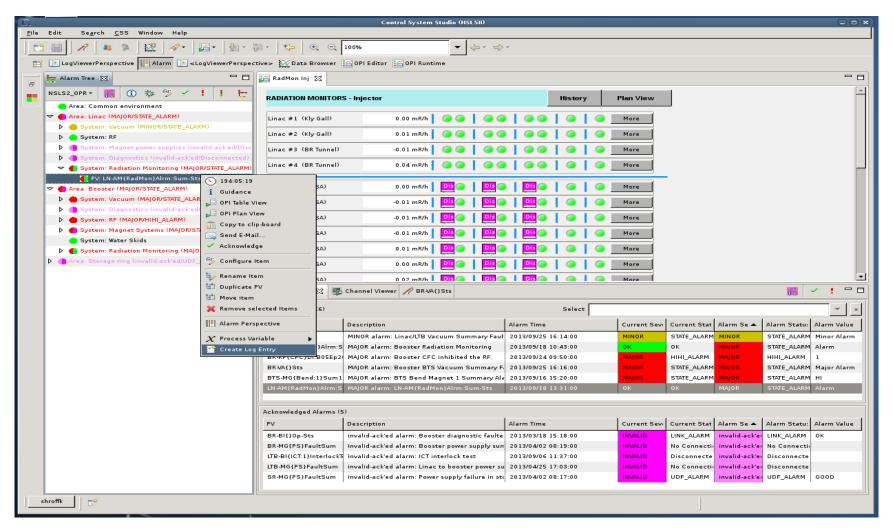
- Seamless integration with applications
 - Log Entries initialized with application specific information

Creating log entries from applications (Databrowser)



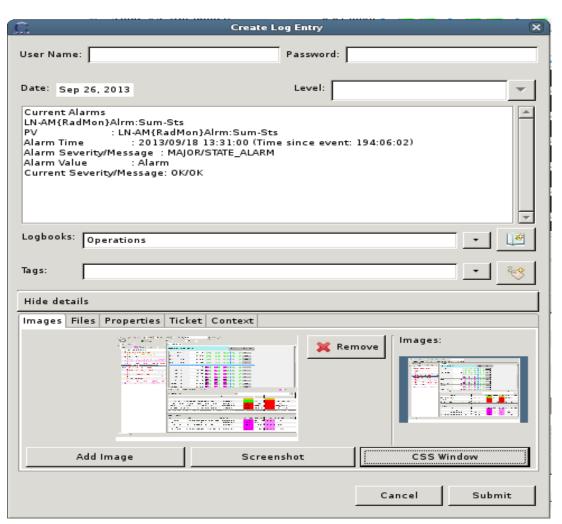


Creating log entries from applications (Alarm)



Creating log entries from applications (Alarm)

- Alarm server
 - PV name
 - Alarm status
 - Alarm time

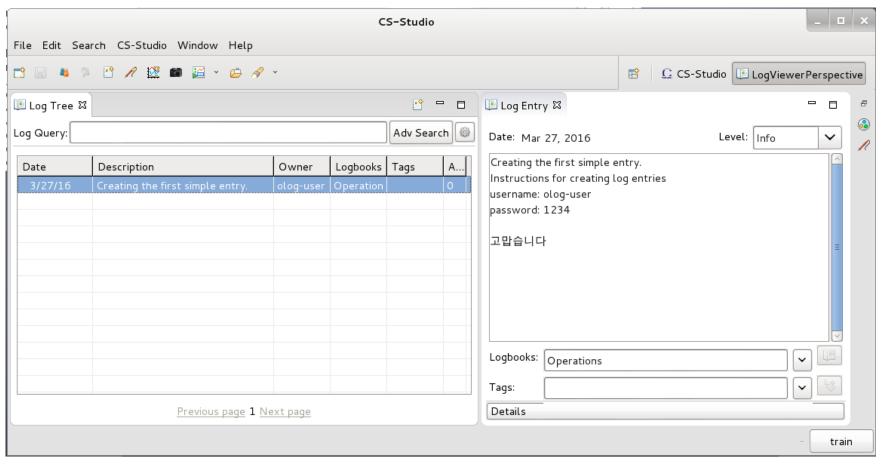


Logviewer

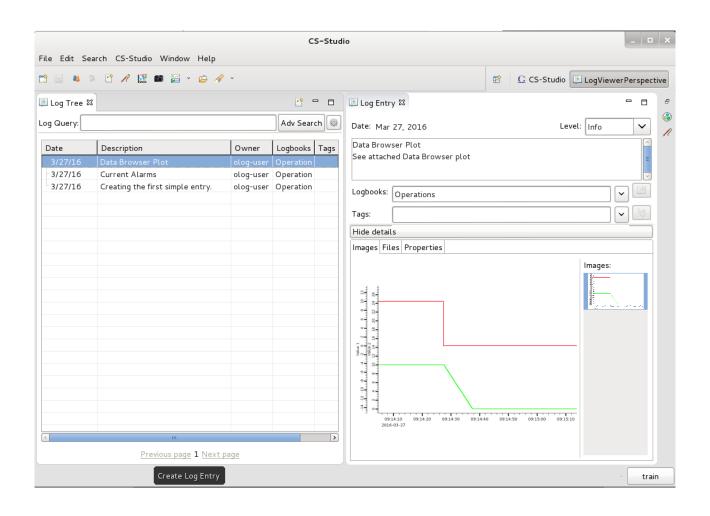
Search and view log entries from the Olog server

LogViewer

Menu: Window → New Perspective → LogViewer Perspective

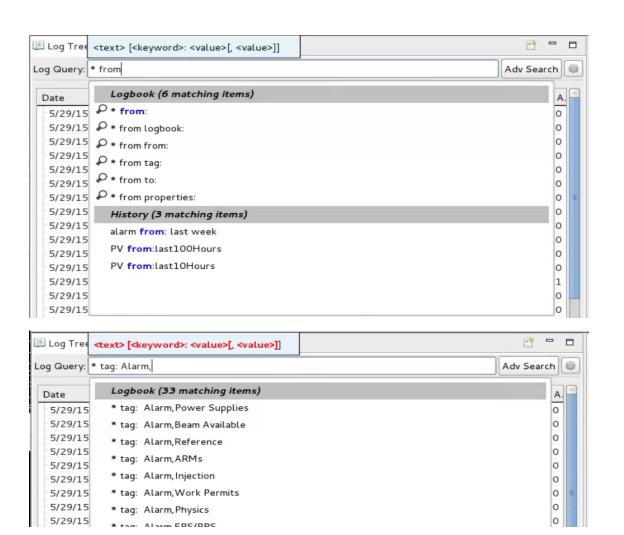


LogViewer



LogViewer: Search

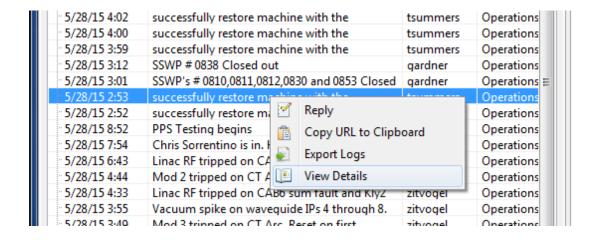
- Text search from the description or any text file attachments by simply typing the words
- Keywords
 - logbook, tag, to and from
- History
- Wildcards
 - * and ?



Log Entry context menu

Reply:

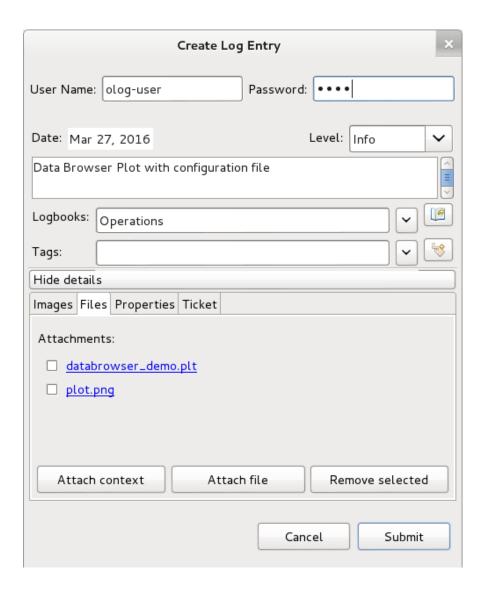
- Open a dialog allowing you to edit a log entry
- Copy URL to clipboard:
 - Provides the externally visible URL to access this specific log entry
- Export Logs:
 - Export parts of the log entry to a .csv file
- View Details:
 - Opens the log entry in the log entry details view (same as double click)



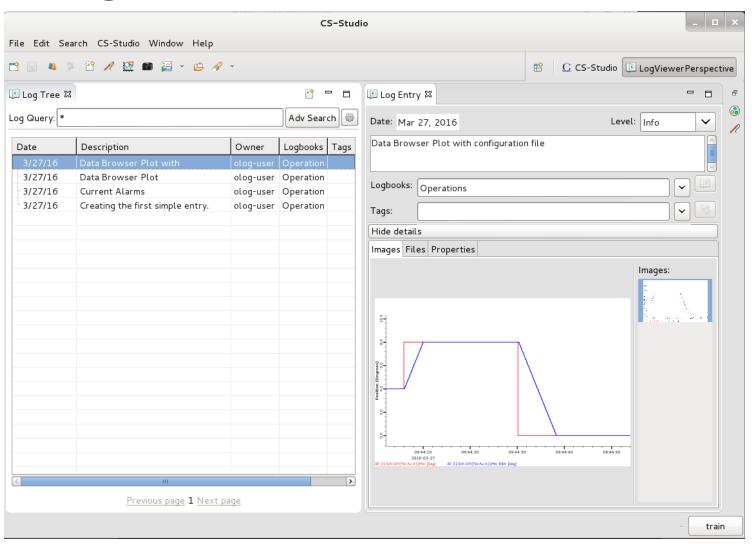
Rich Log Entries

- Save Context
 - Configuration files for cs-studio applications

 (.plt)
 - Controls system data (List of process variables)
 - Information related to other services (Trac tickets, ChannelFinder queries)

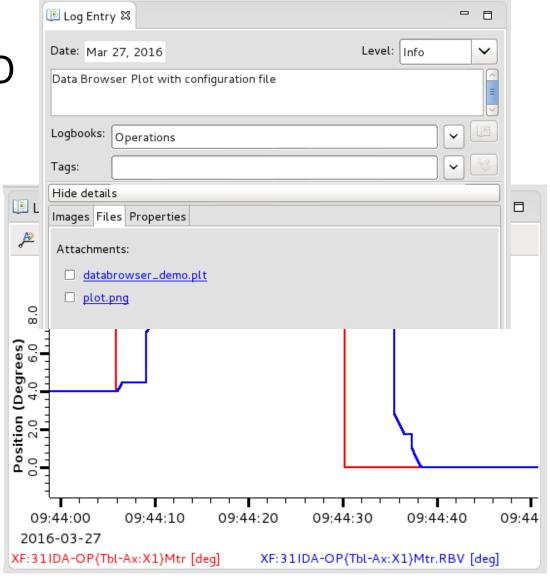


Olog Clients – CS-Studio



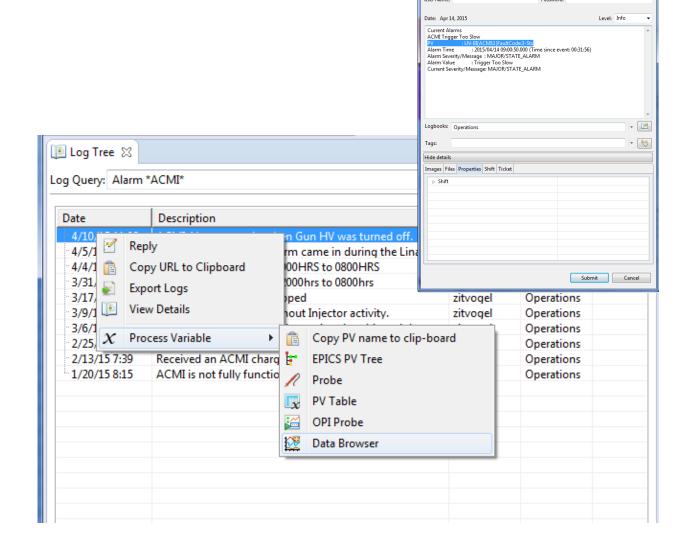
Olog Clients – CS-Studio

- Restore Context
 - Launch applications initialized to the state as described while making the log entry
 - Open archived data for associated pv's
 - Run OPI screens
 - Query other services



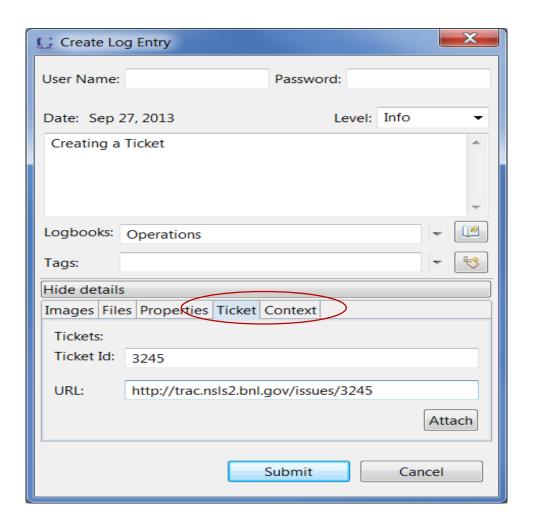
Log Entries with PVs

- If log entries contain pv names defined with a specified format, cs-studio is able to extract that pv information from the log entry.
- CS-Studio will add the "Process Variable" sub menu to the context menu when it can extract a PV.
- The default syntax is PV:<PVName >/n, however we can define any regular expression for recognizing pv names.
- e.g. PV: XF:31IDA-OP{Tbl-Ax:X1}Mtr



Olog Clients – CS-Studio

- Adapters
 - Provide dynamic runtime integration with cs-studio applications
 - Maintain loose coupling
- Extensions
 - Pluggable UI



Web client

