

COMETE: A Multi Data Source Oriented Graphical Framework

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WEMAU012

Project Goal

- SOLEIL software is based on multiple data sources:
 - Tango
 - NeXus
 - Passerelle models files (i.e sequencer files)
 - Databases
- In the early years of SOLEIL, the software team has been focusing on the control system (Tango) and ATK was fulfilling our needs.
- Today, this is not sufficient. We need to furnish to our java developers a unified API that can be connected to all data sources.

Solution Outline

Comete Widgets are available in three implementations (Swing, SWT & AWT) and therefore integrate well into your existing software.

Comete is an open three layered architecture. Anyone can add a datasource or new widgets.

Connect a widget to a source in 3 lines:

Widgets (Swing, SWT, AWT)

DataConnection
Management

DataSources

NeXus

- NexusKey key = new NexusKey();
- NexusKeyTool.registerAttribute(key, "myfile", "datasetName");
- chartBox.connectWidget(chartViewer, key);

Tango

- TangoKey key = new TangoKey();
- TangoKeyTool.registerAttribute(key, "mydevice", "attribute");
- chartBox.connectWidget(chartViewer, key);

Conclusion

- Any contribution, collaboration or comment is welcome
- Comete home page: <http://sourceforge.net/apps/trac/comete/>