





# DataBrowser Collaboration ANSTO/SOLEIL

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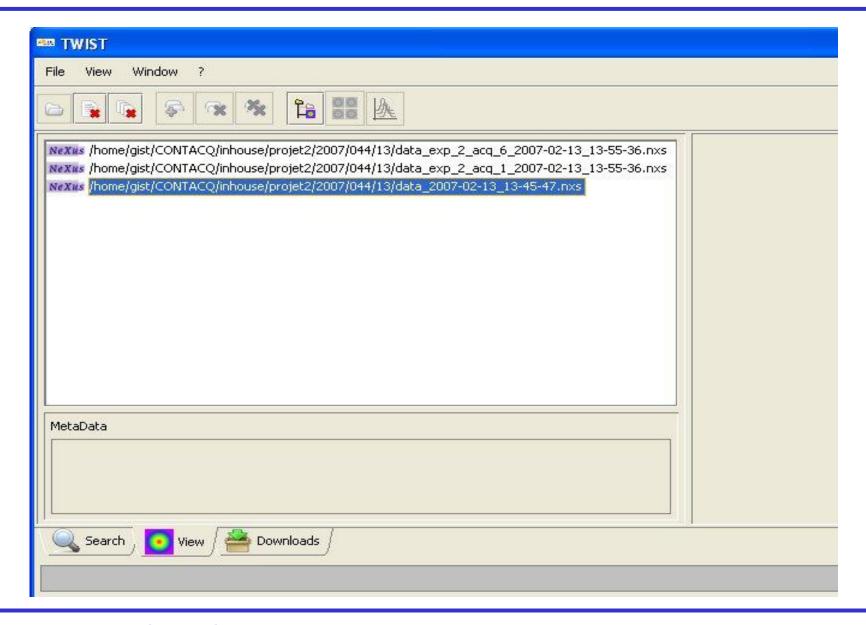
















## LEIL **Ansto** Software architecture of Baladi

#### Pro:

- Read access authorization (Tango devices are run under root user)
- Distant access (no need to have the file on local computer).

Baladi ATK Graphical library

#### Cons:

- Read authorization too permissive
- Need Tango control system
- Cannot read directly a **Nexus files**
- **Can only read Nexus** format

ds DataRecorder ds\_DataMerger

ds NexusReader

getData(NexusFilePath)

LogOn

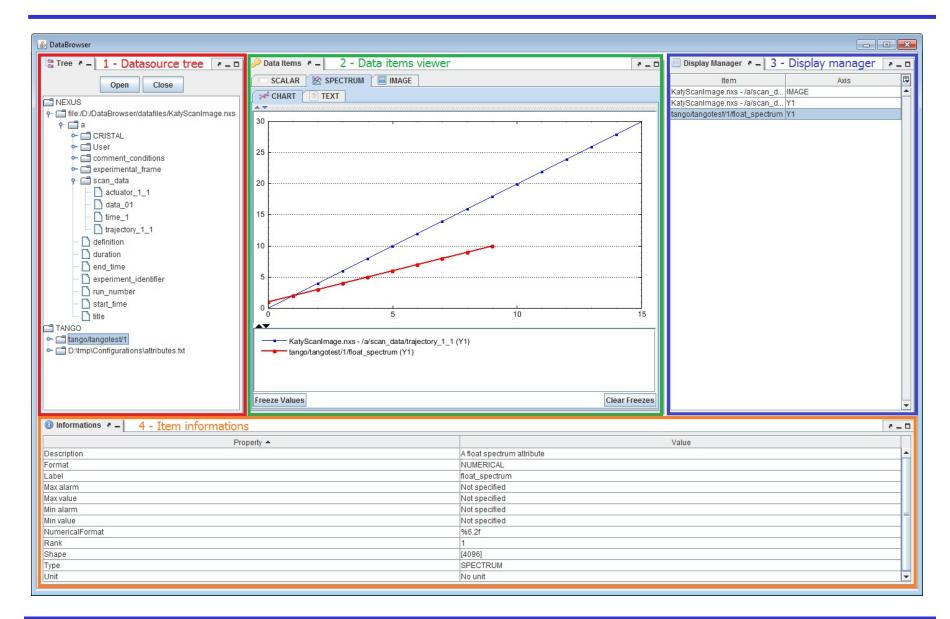
LogOff

ChangePassword

File system **Nexus Files** 



## **Databrowser**







### Software architecture of DataBrowser

## Pro: Cons: **DataBrowser** Can read directly a Nexus File Cannot read data in distant Can be installed anywhere access. Can read other data source Comete Graphical library Extendable **CDMA** ds\_DataRecorder ds\_DataMerger **TANGO Archiving HDB** Files system **Nexus Files**



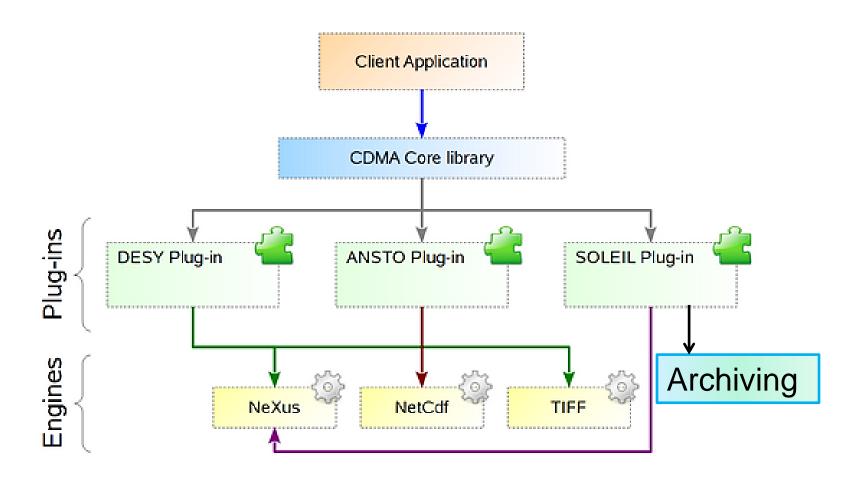


- A plug-in system that allows support of various data file formats and sources type :
  - HDF5 plug-in (ANSTO),
  - Nexus plugin-in (SOLEIL),
  - EDF plugin-in (ESRF),
  - Mambo plugin-in (SOLEIL),
  - TANGO plugin-in
- An abstract interface for navigation through data sets
  - Concrete classes are provided by data source plug-ins
- CDMA API introduces the notion of dictionary
  - A set of associations between keywords and data paths for a specific data structure.











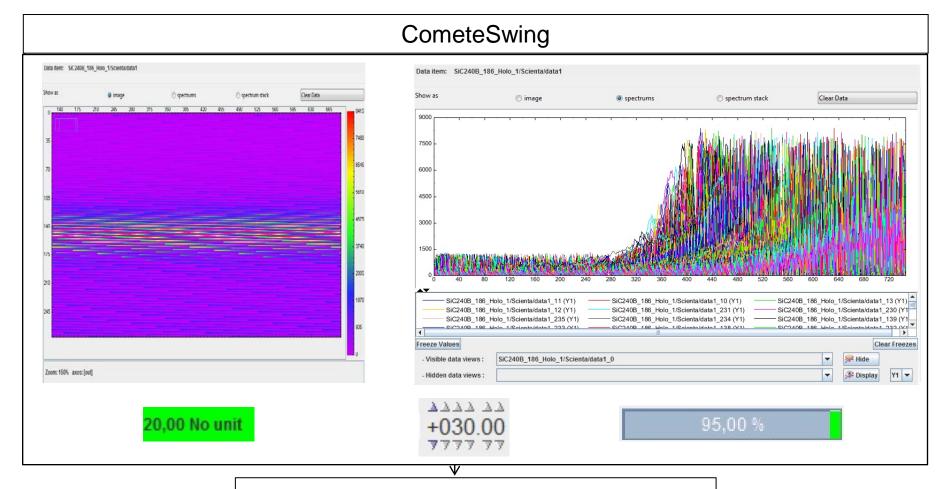




- A java graphical widget library, that can be connected to any data source through the DataConnectionManagement classe:
  - CometeSwing (SOLEIL),
  - CometeSWT (ANSTO),





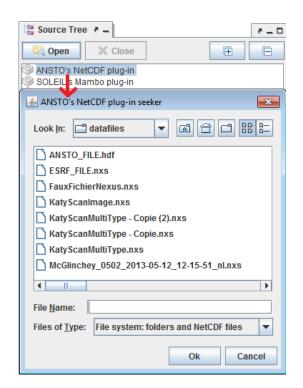


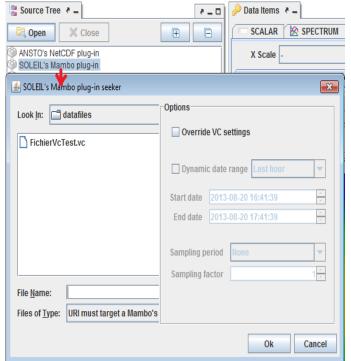
**Data Connection Management** 

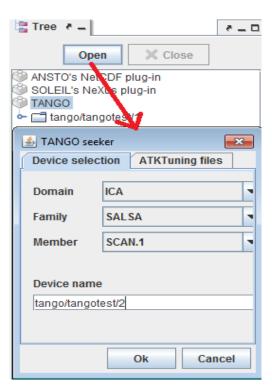
**CDMA** 











Open a Nexus or HDF file

Open a Mambo VC file

Open a Tango source







