JoiMint Update

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Basic Ideas for JoiMint

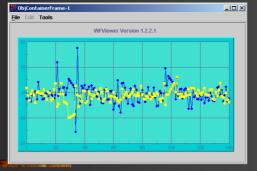
Java based Operator Interface

- More than a display tool
- Make use of Java to integrate tools rather than only accessing your controls data

Run as a Management Integration Tool

- Integrate log book
- Integrate Mail and RDB access

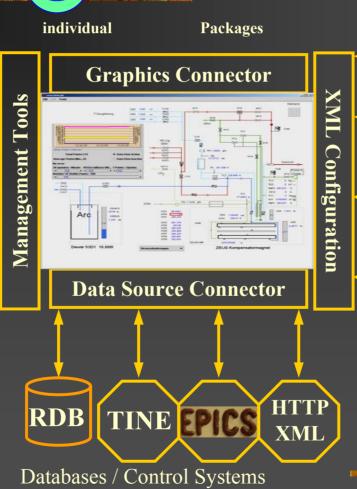
Basics

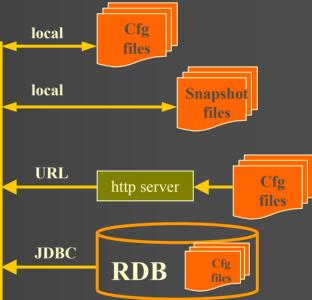


Operator Log

Mail

VDCT





Control System Access

Data Access

- Poll data with individual scan times (0.1, 0.2, 0.5, 1, 2,5, 10 [sec]
- Monitor data whenever control system supports it

Name Space Access

Built in Name Space Browser

Name Space Browser

lD5.

VIBRATION

selected name:

HERAHeraNHNAI1 aiVAL

OK

lother.

Cancel

HeraN

HeraR

HeraS

TINE (DESY)

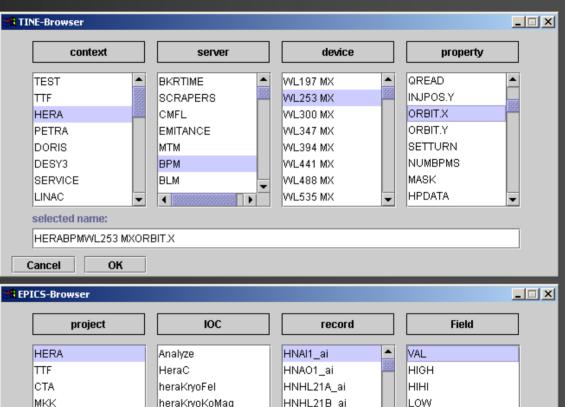
- Query(1) Name server
- Query(2) Server

EPICS (DESY)

Query(1/2) File

Query on IOC is missing

- What about an LDAP server on each IOC?
- And/ or query RDB where databases are defined?



HNHT69GG ai

HNHT69GO_ai

HNPZ17 ai

LOLO

lbesc

ADEL MDEL

Graphic Objects (new) I

Container

- Container
- Image

Controls

- Button
- Slider
- Text
- Text Area (List of text entries)
- Calculation
- Related Display

Graphic Objects (new) II

Chart

- Strip Chart
- Scroll Time (archive data)
- Wave Form
- Correlation Plot

Shapes

- Line, horiz. Line, vert. Line
- Circle, Ellipse
- Rectangle
- Polygon

Graphic Objects (new) III

Monitors

- Meter
- Bar graph

under test:

- Comparator (used for color rules etc..)
- Toggle button

Configuration

All configuration data in XML format

Read cfg. files from:

- Local disk
- Oracle (special feature for records defined in Oracle)
- URL (use Java URL -stream)

Save/ restore snapshot files

- Save configuration and data
 - To disk
 - As attachment of operator log message
 - As mail attachment

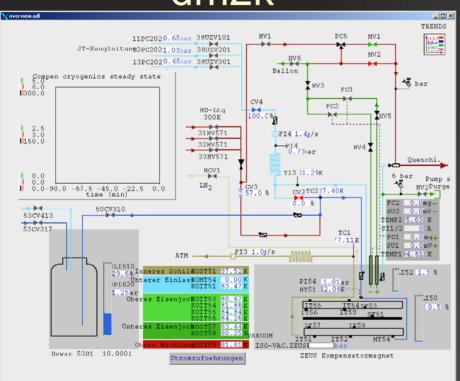
Save/ restore projects (window sets with their location)

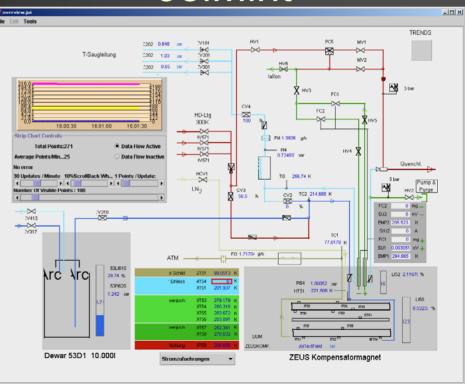
Conversion of adl files (dm2k-graphics) into xml files (JoiMint graphics)

Converted graphics

dm2k

JoiMint





Management Tools

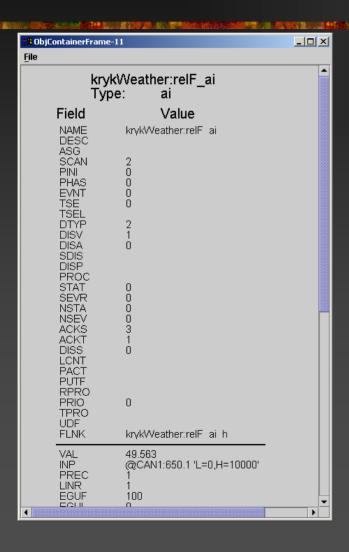
Mail



Operator Log

	0.1
Operator:	
Name:	Clausen
Group:	MKS-2
OI OWPI	
Message:	
ID:	MKS-2:021711-18:00:33
Subject:	example log message
Keywords:	
Keywords:	JoiMint ▼
	JoiMint 🔻
Software:	JoiMint ▼ HERA-Kryo ▼
Software: Hardware:	_
Hardware: Project:	HERA-Kryo ▼
Software: Hardware: Project: Device:	HERA-Kryo ▼
Software: Hardware: Project: Device:	HERA-Kryo ▼

Diagnostic Tools: EPICS property table



- Activate by MB3 on graphic device
- Select: Device -> Device Property
- Device Properties ,known' by http (DIXI) server
 No special knowledge programmed into JoiMint
- DIXI server creates JoiMint graphic (as XML file)
- Display of graphic and dynamic updates in JoiMint

Program Activation

- As an Application
- From Web Start
 - http://java.sun.com/products/javawebstart/
 - (also used to activate cmlog)
 - Read config files from local disk and/or from URL (Web page)

Plans:

Add Data logger graphic capabilities

Like a waveform display which can display several waveforms taken at different sampling times.
 (i.e. 1000 points take @ 1mSec and 100 points taken @ 100mSec in the same display)

Add more graphic elements (

Finish compatibility with dm2k/ medm

Create JoiMint-KVM based on J2ME for:

- Palm
- Java-KVM aware GSM phones

This development is one reason why we are using String as the base type for data exchange. (KVM does not support floats)