



(Java) CA Client Libraries Status

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- JCA update
 - Set of Java CA interfaces
- JCA/JNI update
 - Java CA implementation calling C++ CA library via JNI
- JCA/CAJ update
 - Pure Java CA implementation
- WebCA (browser CA plug-in)
- Java Channel Access Server (JCAS) talk in the afternoon

QuickTime™ and a
TIFF (Uncompressed) decompressor
are needed to see this picture.

- Priority support added.
- Support for Alarm Handler ACKT/S puts.
- QueuedEventDispatcher improvements
 - deadlock detection
 - queue blocking added (to enable CA flow control)

- Priority support added.
- Support for Alarm Handler ACKT/S puts.
- 64-bit platform support added.

- JVM memory leak fix/workaround
 - 1MB/s memory LEAK under decent load.
 - Bug in JVM
 - 1.5.0_06 and later including JDK 1.6.0 builds suffer from this bug
 - Clean solution for 3.14.9, workaround for earlier versions.
- Ported CAJ test to JCA/JNI
 - Discovered and fixed some (copy-paste) bugs in the code.
- Random context initialization failure bug fixed.
- Global message callbacks fixed.

- Priority support added.
- Support for Alarm Handler ACKT/S puts.
- Java CA repeater implementation.
- Channel reference counting implemented
 - CAJ shares Channel instances within one context.
- Allow monitor creation before Channel is really connected.

- CAJ connection/search algorithm reimplemented
 - To mimic new 3.14.7 implementation.
- CA flow control implemented.
- Behaviour of auto_addr_list fixed.

- Discovered an IOC deadlock (fixed in latest EPICS base).

- WebCA is an internet plugin that empowers your web browser as an EPICS CA client
- Supports Netscape plugin compatible browsers:
 - Mozilla (e.g. Firefox)
 - Linux, Mac OS X, Windows
 - Safari
 - Mac OS X
- How it differs from Canone, etc...?

WebCA Architecture

(slide from Tom Pelaila's presentation)

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Screenshot (a few lines of code, out-of-the-box)

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- Create an installer for easy installation
- Develop controls, meters and graphs

- Develop an EPICS display language in XML along with XSLT transforms to generate the web page content
 - Provides a consistent look and feel
 - Quicker page development

- SNS/ORNL team
 - Tom Pelaia
 - David Purcell
 - Ernest Williams

Thank you!