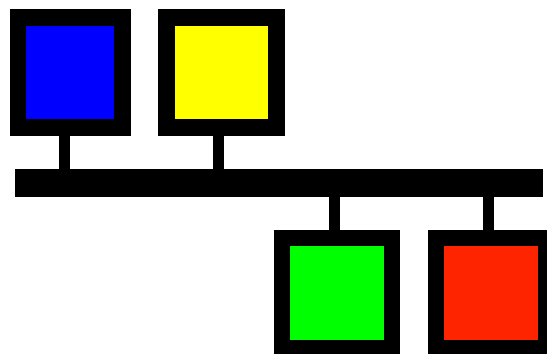


EPICS Collaboration Meeting fall 2011

EPICS



Report of Contributions

Contribution ID: 1

Type: **not specified**

The PSI hardware inventory database

Thursday, 6 October 2011 11:00 (15 minutes)

Summary

Has the number of hardware parts required for a control system increase, same goes to the maintenance and handling of those. To keep track of all the control related hardware parts, we developed for the 3rd time an hardware inventory database. In this talk I will explain why a 3rd time, and what do we have exactly as tools / features in this software.

Primary author: Mr BERTRAND, Alain (PSI)

Co-authors: Mr HAEMMERLI, Fabian (PSI); Mr LUTZ, Hubert (PSI); Mrs KREMPASKA, Renata (PSI)

Presenter: Mr BERTRAND, Alain (PSI)

Contribution ID: 2

Type: **not specified**

Another alarm handler concept

Wednesday, 5 October 2011 11:00 (15 minutes)

Summary

Many if not most of the institute working with EPICS do use the standard Alarm handler, however we come to a point here at PSI, where the standard one doesn't provide the features we required, specially for the beamlines. I will here present our needs talk about our concept and show what we did. A new kind of alarm handler, which runs in 2 or 3 different layers, with a core running all the time on a server and GUIs which can connect to it.

Primary author: Mr BERTRAND, Alain (PSI)

Presenter: Mr BERTRAND, Alain (PSI)

Track Classification: Presentations

Contribution ID: 3

Type: **not specified**

Results from the 2011 EPICS Codeathon

Wednesday, 5 October 2011 09:30 (15 minutes)

Summary

Report from the code development workshop at LBL in Berkeley, California from August 22-26th.

Primary author: Mr JOHNSON, Andrew (Argonne National Laboratory)

Presenter: Mr JOHNSON, Andrew (Argonne National Laboratory)

Track Classification: Presentations

Contribution ID: 4

Type: **not specified**

The EPICS v3 development roadmap

Wednesday, 5 October 2011 09:15 (15 minutes)

Summary

Recent developments and future plans for EPICS v3.

Primary author: Mr JOHNSON, Andrew (Argonne National Laboratory)

Presenter: Mr JOHNSON, Andrew (Argonne National Laboratory)

Track Classification: Presentations

Contribution ID: 5

Type: **not specified**

Hard Rock CAFE

Wednesday, 5 October 2011 10:00 (15 minutes)

Summary

A number of channel access (CA) interfaces to various high-level programming languages already exist within the EPICS extensions domain. Many of these are extensions to declarative and 4th generation languages each of which incorporates its own dedicated C/C++ class to establish channel access connectivity. Such CA classes are often embedded with function calls provided by the language's C/C++ API, and are thus, by definition, tied to the programming language at hand. Another approach, however, is to enforce a logical boundary between the channel access components and the specifics of a given application's C/C++ extension framework. Such a methodology then provides the basis for the modular use of a single C++ CA class across a number of C/C++ based programming languages. CAFE (Channel Access interFACe) is a new C++ library, built upon the standard channel access client library, that provides a modern, multi-faceted interface to EPICS. CAFE makes extensive use of templates and containers with multiple STL-compatible access methods that improve efficiency, flexibility, and performance. Stability and robustness, as 'Hard as Rock', are accomplished by ensuring that connectivity to EPICS records remain in a well defined state in every eventuality. CAFE presents the user with a number of options for instigating synchronous and asynchronous operations. In addition to providing basic read/write methods, a further layer of abstraction provides a convenient interface to groups of objects or collections of logical data sets, which can be easily instantiated through an XML-based configuration mechanism. CAFE aims to provide a comprehensive, yet extendable, C++ CA class that can be well tested in-house through its adoption in bindings to various C/C++ based high-level languages, and which, if proven effective, will ultimately serve to reduce the load on maintenance associated with CA client-based software. CAFE's suitability for use within different applications is demonstrated with examples from high performance Qt GUI control widgets, to event processing agents that propagate data through OMG's Data Distribution Service (DDS), and to script-like frameworks such as MATLAB.

Primary author: Dr CHRIN, Jan (Paul Scherrer Institut)

Presenter: Dr CHRIN, Jan (Paul Scherrer Institut)

Track Classification: Presentations

Contribution ID: 6

Type: **not specified**

Introducton to EPICS Version 4 and its use use at BNL

Friday, 7 October 2011 09:00 (30 minutes)

Summary

EPICS version 4 has been under development for the last 5 years. The project started as a platform for developing hierarchical EPICS records. The first practical application does not use the database, but instead takes advantage of the ability to expand the data types available over Channel Access. This paper discusses the overall architecture that employs EPICS version 4 and the new dbr_types developed to support the new services for high level applications.

Primary author: Mr DALESIO, Leo (Brookhaven National Laboratory)

Co-authors: Mr WHITE, Greg (SLAC); Dr SHEN, Guobao (Brookhaven National Laboratory); Mr KRAIMER, Marty (None); Mr SEKORANJA, Matej (CosyLab); Mr MALITSKY, Nikolay (Brookhaven National Laboratory)

Presenter: Mr DALESIO, Leo (Brookhaven National Laboratory)

Track Classification: Presentations

Contribution ID: 7

Type: **not specified**

ChannelFinder: operational experience at BNL

Thursday, 6 October 2011 09:15 (15 minutes)

Summary

ChannelFinder has been in full production at BNL since June 2010. We will go through the local setup, and how is being used by our physics group.

Primary author: Mr CARCASSI, Gabriele (Brookhaven National Laboratory)

Co-author: Mr SHROFF, Kunal (Brookhaven National Laboratory)

Presenter: Mr SHROFF, Kunal (Brookhaven National Laboratory)

Track Classification: Presentations

Contribution ID: 9

Type: **not specified**

EPICS Sequencer 2.1

Wednesday, 5 October 2011 10:15 (15 minutes)

Summary

The EPICS State Notation Language (SNL) and Sequencer is a central building block of many EPICS applications. A new version 2.1 was published in July 2011. It features a number of language extensions and enhancements, many bug-fixes, a cleaned up implementation, and an automated test suite. I present an overview of these developments, with an emphasis on the user visible changes, as well as plans for future developments.

Primary author: FRANKSEN, Ben (HZB)

Presenter: FRANKSEN, Ben (HZB)

Track Classification: Presentations

Contribution ID: **20**

Type: **not specified**

EPICS for beginners (Lecture)

Monday, 3 October 2011 09:15 (1h 15m)

Summary

Getting started, installing EPICS, my first IOC, client tools MEDM, StripTool, AlarmHandler)

Presenter: ZIMOCH, Elke (Paul Scherrer Institut)

Contribution ID: **21**

Type: **not specified**

Running user C-code on IOCs

Monday, 3 October 2011 09:25 (1h 5m)

Presenter: ZIMOCH, Dirk (Paul Scherrer Institut)

Contribution ID: 22

Type: **not specified**

Using the StreamDevice driver

Tuesday, 4 October 2011 09:00 (1h 30m)

Presenter: ZIMOCH, Dirk (Paul Scherrer Institut)

Contribution ID: 23

Type: **not specified**

State Notiation Language

Tuesday, 4 October 2011 09:00 (1h 30m)

Presenter: Mr LANGE, Ralph (Helmholtz-Zentrum Berlin für Materialien und Energie / BESSY II)

Contribution ID: 26

Type: **not specified**

Epics for beginners (Hands-on)

Monday, 3 October 2011 14:00 (3 hours)

Presenter: ZIMOCH, Elke (Paul Scherrer Institut)

Contribution ID: 27

Type: **not specified**

iPhone Apps for EPICS

Thursday, 6 October 2011 14:00 (15 minutes)

Summary

SNS (Tom Pelaia) and DESY/ Univ. of Hamburg have jointly developed Apps for the iPhone. This includes Probe, an Archive Viewer and an Alarm Table. We will demonstrate how these Apps can directly interact with web pages and (alarm) SMS messages. Of course we will also discuss future plans.

Primary author: Mr CLAUSEN, Matthias (DESY)

Co-author: Mr PELAIA, Tom (SNS)

Presenter: Mr CLAUSEN, Matthias (DESY)

Contribution ID: 28

Type: **not specified**

Beam-synchronous DAQ at SwissFEL test injector

Thursday, 6 October 2011 14:15 (15 minutes)

Summary

This talk gives an overview of the beam-synchronous data acquisition at SwissFEL injector test facility which is required for on-demand data collection to do correlation studies. I will show how we have achieved synchronous collection of the acquired data (EPICS channels) across separated IOCs with assistance of the event timing system and by using “only” the standard EPICS records (no custom record/device support). The mechanism has been built into a generic IOC software application package which can be installed on any IOC equipped with an event receiver and allows runtime configuration of most of parameters including channels to be collected etc.

Primary author: Mr KALANTARI, Babak (Paul Scherrer Institut)

Presenter: Mr KALANTARI, Babak (Paul Scherrer Institut)

Track Classification: Presentations

Contribution ID: **29**

Type: **not specified**

Welcome

Wednesday, 5 October 2011 09:00 (15 minutes)

Presenter: ZIMOCH, Dirk

Contribution ID: **30**

Type: **not specified**

Goodbye

Friday, 7 October 2011 12:20 (10 minutes)

Presenter: ZIMOCH, Dirk (Paul Scherrer Institut)

Contribution ID: **32**

Type: **not specified**

ChannelFinder & Control System Studio

Thursday, 6 October 2011 09:30 (15 minutes)

Summary

A Look at various client applications and utility plugins using ChannelFinder in CSS.

Primary author: SHROFF, Kunal (Brookhaven National Lab)

Presenter: SHROFF, Kunal (Brookhaven National Lab)

Track Classification: Presentations

Contribution ID: 33

Type: **not specified**

Connecting EPICS with Easily Reconfigurable I/O Hardware

Wednesday, 5 October 2011 12:00 (15 minutes)

Summary

This presentation covers recent developments aimed at facilitating the integration of Reconfigurable I/O (FPGA-based) hardware with EPICS. The Linux driver available for National Instruments Reconfigurable I/O (NI-RIO) hardware provides the interface between the FPGA firmware and the host controller. The FPGA programming of these devices is accomplished using LabVIEW and can include custom VHDL code if needed. Support is currently available for basic record types, including waveform, and we will discuss briefly the implementation details as well as future possible improvements.

Primary authors: Mr VEERAMANI, Arun (National Instruments); DEBELLE, Thierry (National Instruments)

Presenter: DEBELLE, Thierry (National Instruments)

Track Classification: Presentations

Contribution ID: 34

Type: **not specified**

Using COTS Hardware with EPICS Through LabVIEW - A Status Report

Thursday, 6 October 2011 14:30 (15 minutes)

Summary

Many commercial-off-the-shelf (COTS) hardware need custom driver development for use with EPICS. With LabVIEW having drivers for many of the COTS hardware, the research community has been implementing interfaces for EPICS and LabVIEW over the years. This presentation is a status report of the development work done by National Instruments and covers different methods of interfacing EPICS with LabVIEW. Both configuration-based and programmatic method of implementation will be covered. The different operating systems that the options cover along with advantages and limitation will also be discussed.

Primary authors: Mr VEERAMANI, Arun (National Instruments); Mr DEBELLE, Thierry (National Instruments)

Presenter: Mr DEBELLE, Thierry (National Instruments)

Track Classification: Presentations

Contribution ID: 35

Type: **not specified**

ITER tools and drivers

Thursday, 6 October 2011 11:15 (15 minutes)

Summary

ITER specific tools:

- Self-Description Data tools: Eclipse-based editor, web browser + translators and parsers to generate and parse EPICS and Control System Studio files.
- Maven plug-ins for compilation, test, packaging
- Linux drivers and device support for N.I PXI/PXIe I/O boards.

Will be briefly presented (updated status & short-term plans).

Primary author: Mr DI MAIO, Franck (ITER)

Co-author: Ms ABADIE, lana (ITER)

Presenter: Mr DI MAIO, Franck (ITER)

Track Classification: Presentations

Contribution ID: **38**Type: **not specified**

Marshalling data using the concat record

Thursday, 6 October 2011 11:30 (15 minutes)

Summary

At the Australian Synchrotron, we have a need to scan and save over 300 PVs from our 100-element XIA detector, but the sscan record is limited to 70 detectors. We decided to group the 100 fast peak values, 100 slow peak values and 100 ROI values into three 100-element waveforms and use the "scanH" record to capture this data.

The concat record was developed as a means to group an arbitrary set of scalar PVs into a single waveform record.

Primary author: Mr STARRITT, andrew (australian synchrotron)

Presenter: Mr STARRITT, andrew (australian synchrotron)

Track Classification: Presentations

Contribution ID: 39

Type: **not specified**

pvManager cookbook

Friday, 7 October 2011 11:20 (20 minutes)

Summary

This talk will briefly show the motivation behind the development of pvManager, to then concentrate on a series of examples that show the power of the approach.

Primary author: Mr CARCASSI, Gabriele (Brookhaven National Laboratory)

Co-author: LANGE, Ralph (BESSY II)

Presenter: LANGE, Ralph (BESSY II)

Contribution ID: 40

Type: **not specified**

EPICS V4 Normative Data Types

Friday, 7 October 2011 11:00 (20 minutes)

Summary

This talk will concentrate on the data type definition, and show how they are being “exercised” using pvManager and other client tools.

Primary author: CARCASSI, Gabriele (Brookhaven National Laboratory)

Co-author: Mr DALESIO, Leo (Brookhaven National Laboratory)

Presenter: Mr DALESIO, Leo (Brookhaven National Laboratory)

Contribution ID: 41

Type: **not specified**

ChannelFinder Service

Thursday, 6 October 2011 09:00 (15 minutes)

Summary

ChannelFinder is a directory server for control systems, implemented as a REST style web service.

Primary author: Mr LANGE, Ralph (Helmholtz-Zentrum Berlin für Materialien und Energie / BESSY II)

Presenter: Mr LANGE, Ralph (Helmholtz-Zentrum Berlin für Materialien und Energie / BESSY II)

Contribution ID: 42

Type: **not specified**

CSS Intro

Wednesday, 5 October 2011 14:00 (15 minutes)

Primary authors: KASEMIR, Kay; SHROFF, Kunal (Brookhaven National Lab)

Presenter: SHROFF, Kunal (Brookhaven National Lab)

Session Classification: CSS Workshop

Contribution ID: 43

Type: **not specified**

CSS application: BOY

Wednesday, 5 October 2011 14:15 (15 minutes)

Primary authors: KASEMIR, Kay; CHEN, Xihui

Presenter: Mr LANGE, Ralph (Helmholtz-Zentrum Berlin für Materialien und Energie / BESSY II)

Session Classification: CSS Workshop

Contribution ID: 44

Type: **not specified**

CSS application: DataBrowser

Wednesday, 5 October 2011 14:30 (15 minutes)

Primary author: Mr DALESIO, Leo (Brookhaven National Laboratory)

Presenter: Mr DALESIO, Leo (Brookhaven National Laboratory)

Session Classification: CSS Workshop

Contribution ID: 45

Type: **not specified**

CSS Product

Contribution ID: 46

Type: **not specified**

CSS application: Channel Finder Based application

Wednesday, 5 October 2011 14:45 (15 minutes)

Primary author: SHROFF, Kunal (Brookhaven National Lab)

Presenter: SHROFF, Kunal (Brookhaven National Lab)

Session Classification: CSS Workshop

Contribution ID: 47

Type: **not specified**

CSS Product: How to put together your own Site specific CSS product

Wednesday, 5 October 2011 15:00 (30 minutes)

Primary author: SHROFF, Kunal (Brookhaven National Lab)

Presenter: SHROFF, Kunal (Brookhaven National Lab)

Session Classification: CSS Workshop

Contribution ID: 48

Type: **not specified**

CSS Infrastructure: the build and update mechanism, future developments

Wednesday, 5 October 2011 15:30 (30 minutes)

Primary author: SHROFF, Kunal (Brookhaven National Lab)

Presenter: SHROFF, Kunal (Brookhaven National Lab)

Session Classification: CSS Workshop

Contribution ID: 49

Type: **not specified**

EDM Screen Display using Python

Thursday, 6 October 2011 11:45 (15 minutes)

Summary

To learn how to use the Python language, I started a project to display EDM's .edl files using python and QT. This presentation will discuss the progress to date, the advantages and disadvantages of this project as compared to EDM, and some of the other EPICS/Python/Qt projects underway at the Canadian Light Source.

Primary author: Mr WRIGHT, Glen (Canadian Light Source, Inc)

Presenter: Mr WRIGHT, Glen (Canadian Light Source, Inc)

Contribution ID: 50

Type: **not specified**

Prototyping the Next EPICS Archiver

Wednesday, 5 October 2011 11:15 (15 minutes)

Summary

The report presents analysis of the EPICS Channel Archiver and a proposal of the next version based on the SciDB array-oriented data management and analytics platform. The resulting system aims to support millions of control process variables and streaming rate of one million events per second.

Primary author: MALITSKY, Nikolay (BNL)

Presenter: MALITSKY, Nikolay (BNL)

Contribution ID: 51

Type: **not specified**

Portable Channel Access Server in Python

Thursday, 6 October 2011 12:00 (15 minutes)

Summary

Portable Channel Access Server (PCAS) library exists along with database channel access server (RSRV) in EPICS base. PCAS provides several C++ classes (server tool), making use of abstract callback methods, to let server application respond to channel access clients requests. Due to the intrinsic complexity of C++ and channel access request/data handling, this is not widely used among EPICS developers.

Python is a language easy enough to get in quickly while possessing rich standard libraries and numerous extensions. This makes it very attractive to prototype a PCAS application in Python.

Primary author: Dr WANG, Xiaoqiang (Paul Scherrer Institut)

Presenter: Dr WANG, Xiaoqiang (Paul Scherrer Institut)

Contribution ID: 52

Type: **not specified**

A IOC based on PXI and virtualization technology

Wednesday, 5 October 2011 11:45 (15 minutes)

Summary

The Brazilian Synchrotron Light Laboratory (LNLS) has a 1.37 GeV machine open to scientific community since 1997. More recently, the control system of its beamlines, originally designed within a proprietary Delphi/Windows platform, is going through an upgrade to the open source EPICS/Linux platform used in many other synchrotrons. Within this upgrade strategy, the use of off-the-shelf hardware was also considered an alternative to the original in-house developed equipment, while keeping the EPICS/Linux compatibility. As a possible solution, a PXI chassis and its modules were made available to EPICS through the NI Real-Time Hypervisor virtualization system that allows running simultaneously EPICS/Linux and LabVIEW RT in the same PXI controller, sharing a common memory block for communication. A data exchange protocol was developed to implement motor, scaler and binary in/out EPICS records and channel access in the Linux layer, leaving the low-level hardware control to the LabView RT layer. The data exchange was done using optimized libraries of the virtualization system that allows a robust yet flexible operation of IOCs. This solution was tested to fully control an X-ray absorption spectroscopy beamline, showing a substantial reduction of counting deadtime, stability and software development time for integrating new hardware.

Primary authors: Mr YENIKOMOCHIAN, Bruno C. (National Instruments Brasil); Mr OMITTO, Diego O. (Brazilian Synchrotron Light Laboratory-LNLS); Dr WESTFAHL JR., Harry (Brazilian Synchrotron Light Laboratory-LNLS); Mr PITON, James R. (Brazilian Synchrotron Light Laboratory-LNLS); Mr DONADIO, Marcio P. (Brazilian Synchrotron Light Laboratory-LNLS); Mr RAULIK, Marco A. (Brazilian Synchrotron Light Laboratory-LNLS)

Presenter: Mr PITON, James R. (Brazilian Synchrotron Light Laboratory-LNLS)

Contribution ID: 53

Type: **not specified**

LabView Channel Access Server

Thursday, 6 October 2011 15:00 (3 hours)

- Features and demonstration
- Hands-on exercise
- Programmatic configuration for large deployment

Session Classification: LabView and EPICS

Contribution ID: 54

Type: **not specified**

LabVIEW Channel Access Client

- Features and demonstration
- Hands-on exercise

Contribution ID: 55

Type: **not specified**

CompactRIO and EPICS IOC

Wednesday, 5 October 2011 14:00 (2 hours)

Session Classification: cRIO and EPICS hands-on

Contribution ID: **56**

Type: **not specified**

EPICS IOC running on CompactRIO

- Hands-on exercise

Contribution ID: 57

Type: **not specified**

EPICS on the Altera NIOS2 FPGA Softcore Processor

Thursday, 6 October 2011 13:45 (15 minutes)

Summary

My progress porting EPICS/RTEMS to the Altera NIOS2 FPGA Softcore Processor. I will also include some slides on my EPICS core work.

Primary author: Mr HILL, Jeffrey (LANL)

Presenter: Mr HILL, Jeffrey (LANL)

Contribution ID: 58

Type: **not specified**

Timing goes Express

Thursday, 6 October 2011 15:00 (20 minutes)

Presenter: Mr PIETARINEN, Jukka (Micro Research Finland)

Session Classification: Timing Workshop

Contribution ID: 59

Type: **not specified**

"mrfioc2" driver status

Thursday, 6 October 2011 15:20 (20 minutes)

Presenter: Mr DAVIDSAVER, Michael (BNL)

Session Classification: Timing Workshop

Contribution ID: **60**

Type: **not specified**

Challenges of Timing at high repetition

Thursday, 6 October 2011 15:40 (20 minutes)

Presenter: Mr KALANTARI, Babak (Paul Scherrer Institut)

Session Classification: Timing Workshop

Contribution ID: **61**

Type: **not specified**

Event generator sequencer programming

Thursday, 6 October 2011 16:15 (20 minutes)

Presenter: DAVIDSAVER, Michael (BNL)

Session Classification: Timing Workshop

Contribution ID: 62

Type: **not specified**

Timing requirements of SwissFEL plus open discussion

Thursday, 6 October 2011 16:35 (20 minutes)

Presenter: Mr KALANTARI, Babak (Paul Scherrer Institut)

Session Classification: Timing Workshop

Contribution ID: **63**

Type: **not specified**

EPICS for beginners (hands-on)

Tuesday, 4 October 2011 14:00 (3 hours)

Presenter: ZIMOCH, Elke (Paul Scherrer Institut)

Contribution ID: **64**

Type: **not specified**

EPICS for beginners (Lecture)

Monday, 3 October 2011 10:45 (1h 45m)

Presenter: ZIMOCH, Elke (Paul Scherrer Institut)

Contribution ID: 65

Type: **not specified**

Writing CA Clients

Tuesday, 4 October 2011 14:00 (3 hours)

Presenter: ZIMOCH, Dirk (Paul Scherrer Institut)

Contribution ID: **66**

Type: **not specified**

Using the StreamDevice driver

Tuesday, 4 October 2011 10:45 (1h 45m)

Presenter: ZIMOCH, Dirk (Paul Scherrer Institut)

Contribution ID: 67

Type: **not specified**

State Notation Language

Tuesday, 4 October 2011 10:45 (1h 45m)

Presenter: Mr LANGE, Ralph (Helmholtz-Zentrum Berlin für Materialien und Energie / BESSY II)

Contribution ID: **68**Type: **not specified**

The PSI web interface to the EPICS channel archiver

Wednesday, 5 October 2011 11:30 (15 minutes)

Summary

The EPICS channel archiver is a powerful tool to collect control system data of thousands of EPICS process variables with rates of many Hertz each to an archive for later retrieval.

Within the package of the channel archiver version 2 you get a Java application for graphical data retrieval and a command line tool for data extraction into different file formats. For the Paul Scherrer Institute we wanted a possibility to retrieve the archived data from a web interface. It was desired to have flexible retrieval functions and to allow to interchange data references by e-mail. This web interface has been implemented by the PSI controls group and has now been in operation for several years. This presentation will highlight the special features of this PSI web interface to the EPICS channel archiver.

Primary author: JUD, Gaudenz (Paul Scherrer Institut)

Presenter: JUD, Gaudenz (Paul Scherrer Institut)

Contribution ID: **69**

Type: **not specified**

Running user C-Code on IOCs

Monday, 3 October 2011 10:45 (1h 45m)

Presenter: ZIMOCH, Dirk (Paul Scherrer Institut)

Contribution ID: 70

Type: **not specified**

pvAccess, pvData, pvloc, pvService overview and status

Friday, 7 October 2011 09:30 (20 minutes)

Presenter: Mr KRAIMER, Marty (None)

Contribution ID: 71

Type: **not specified**

Interoperation with EPICS V3

Friday, 7 October 2011 09:50 (20 minutes)

Presenter: Mr KRAIMER, Marty (None)

Contribution ID: 72

Type: **not specified**

EPICS V4 Discussions and Feedback

Friday, 7 October 2011 10:10 (20 minutes)

Contribution ID: 73

Type: **not specified**

EPICS V4 Services

Friday, 7 October 2011 11:40 (20 minutes)

Presenter: Mr WHITE, Greg (SLAC)

Contribution ID: 74

Type: **not specified**

EPICS V4 roadmap and charter

Friday, 7 October 2011 12:00 (20 minutes)

Primary author: Mr WHITE, Greg (SLAC)

Presenter: Mr WHITE, Greg (SLAC)

Contribution ID: 75

Type: **not specified**

Welcome

Monday, 3 October 2011 09:00 (15 minutes)

Presenter: ZIMOCH, Dirk (Paul Scherrer Institut)

Contribution ID: 76

Type: **not specified**

Server-Side Plug-In Framework

Wednesday, 5 October 2011 09:45 (15 minutes)

Summary

EPICS 3.15 will add a framework for server-side plug-ins.

Clients can add JSON modifiers to channel names, which will instantiate and configure plug-ins on the server, that are inserted into the client's Channel Access connection.

Plug-ins may change update data and meta-data (time stamps, data type, array sizes etc.), and are a very powerful tools to allow client-defined subscriptions.

Primary author: Mr LANGE, Ralph (Helmholtz-Zentrum Berlin für Materialien und Energie / BESSY II)

Presenter: Mr LANGE, Ralph (Helmholtz-Zentrum Berlin für Materialien und Energie / BESSY II)

Contribution ID: 77

Type: **not specified**

Feedback from LabView Users to NI

Wednesday, 5 October 2011 16:00 (1 hour)

Contribution ID: 78

Type: **not specified**

Virtual Servers for Controls Applications

Thursday, 6 October 2011 09:45 (15 minutes)

Primary author: KAPELLER, Rene (Paul Scherrer Institut)

Presenter: KAPELLER, Rene (Paul Scherrer Institut)

Contribution ID: **81**

Type: **not specified**

Motion systems at PSI current status

Wednesday, 5 October 2011 14:00 (20 minutes)

Presenter: PRADERVAND, Claude (Paul Scherrer Institut)

Session Classification: Motion Systems Workshop