Machine Specific courses 2017

Report of Contributions

https://indico.cern.ch/e/614832
Rende Test

**Presenter:** CATIN, Madeleine
“CBNG (commonbuild new generation), the new Java Build tool for the accelerator sector”

Monday, 6 March 2017 11:00 (1 hour)

- Overview of CBNG and the related services
- Demo: Getting started with CBNG
- Development Workflow from checking out a project from SVN all the way through to running the application in the CCC
- Differences between commonbuild and CBNG; new features of CBNG
- What can go wrong and how to fix it
- Q&A

Presenter: FEJES, Endre
New Hardware & Beam Permit Procedure for the PS Complex

Monday, 6 March 2017 09:00 (1 hour)

Presenter: VALERA TERUEL, Raul
GIS portal and its use for OP (Demo)

Tuesday, 7 March 2017 11:00 (1 hour)

Presenter: BARRIERE, Olivier (CERN)
Accelerator fault tracking for the injectors
(including Linac4)

Wednesday, 8 March 2017 09:00 (1 hour)

Presenter: APOLLONIO, Andrea (CERN)
RF changes done during Run2016 and EYETS16-17 (tbc)

Wednesday, 8 March 2017 11:00 (1 hour)

Synchro PSB-PS, Finemet cavity control, cooling system of C10, C80-08, running with two 40 MHz cavities, etc

Presenter:  DAMERAU, Heiko (CERN)
PS RF Beam Control for Operators (tbc)

Wednesday, 8 March 2017 10:15 (45 minutes)

Presenter: CHAICHANASIRI, Piriya (CERN)
What can be done with YASP and rules to follow to perform a correction.

**Presenter:** KAIN, Verena (CERN)
PS Transverse Feedback for operations

Friday, 10 March 2017 09:00 (1 hour)

- Basic overview
- Application on operational beams

**Presenter:** COLY, Marcel (CERN)
New beam optimisation tool

Friday, 10 March 2017 11:00 (1 hour)

Presenters: AKROH, Abdelouahid (CERN); PISELLI, Emiliano (CERN)
Contribution ID: 12

Type: not specified

SPS RF: Protons Fixed Target

Thursday, 23 February 2017 16:00 (1 hour)

Presenters: PAPOTTI, Giulia; BOHL, Thomas; KAIN, Verena
Contribution ID: 13  

SPS RF: Proton LHC  

Thursday, 2 March 2017 15:00 (1 hour)  

Presenters:  PAPOTTI, Giulia; BOHL, Thomas; KAIN, Verena
HST a test for future PSB injection

Tuesday, 7 March 2017 09:00 (1 hour)

Presenter: GUIDOBONI, Greta
Timing Diagnostic Tools and where to find them

Tuesday, 14 March 2017 14:00 (1 hour)

- Tgm Video: Java application devoted to the monitoring of the timing events distribution. Through this tool it is possible to investigate what is currently played from the timing perspective. Played cycle, user, particle etc...are some of the information that can be retrieved as well as detailed information about the type of event that happened (telegrams details). The new history-record feature will be presented. [-10 minutes]

- BcdSet Viewer: graphical Java application useful to investigate and have extra information about Bcd-sets, the different machines’ cycles (spare and normal beams), their relations and dependencies. After it has been played it is also able to display the last played super-cycle. [-10 minutes]

- jTimDiag: local timings’ configurations and connections can be displayed and monitored from this Java tool. From the graphical layout it is possible to start direct acquisition and displaying the different settings cycle by cycle. Acquisition can be recorded and investigate step by step. A history page can also be generated showing the relations between local timings firing, basic period telegrams and central timing events (CTIM) [-20 minutes]

- MTG Diagnostic: this tool provides a set of views to understand the behavior of all accelerators in the LIC domain (CPS,PSB,SPS,LEI). It helps to identify why a beam is not executed or to understand accelerator behaviors on certain circumstances.

Presenter:  BAU, Jean-Claude (CERN)
New Web Timing Diagnostic Tools

Thursday, 16 March 2017 14:00 (1 hour)

- Introduction: why new diagnostic tools? [-5 minutes] CTIM application: This Web tool is aimed at monitoring and checking the configuration (static in Control Configuration DB and real time hardware settings) of the different CTIM devices in the available Central Timings. The hierarchy of the different devices is shown in a tree in order to underline the specific dependency for each event that runs on the GMT cable. [-8 minutes]

- ExtCond: The External Conditions and FIDO programs Web tool goal is to put in place a complete monitoring system for external conditions in LIC Central Timing, showing their static and hardware configurations as well as their history. Through the monitoring facilities it is possible to follow the external conditions status in time. The application allows also to read and check which FIDO programs are currently in production. [-15 minutes]

- Tide Dashboard: This dashboards started as a Timing Expert tool to investigate the status (with statistics and real time acquisitions) of the new Timing Distribution over Ethernet system, along with its timing distributors and providers. This tool turned out to be useful in understanding and finding issues in all processes that make use of the Timing facilities. It is possible to understand why a front-end and/or a process is loosing events, where it is connected etc. It is also useful to give a cardiogram of the current situation for the Timing users (answering question like “is the problem relative only to my machine or it’s a global issue?”). [-10 minutes]

- FEC Navigator: This multi-purpose tool is used to investigate how a front end is configured from the hardware and software points of view relatively to the Timing system. Which hardware modules are installed, how are them configured, which LTIM are installed on a given front end (and vice versa where is an LTIM installed)....etc are some of the questions that can be answered using this tool. It is possible to inspect Local Timings and check further details using JTimDiag Java application using direct links. [-20 minutes]

Presenter: BAU, Jean-Claude
SPS Beam Quality Monitor recap & cheat sheet

Wednesday, 15 March 2017 09:00 (1 hour)

Presenter: PAPOTTI, Giulia
• Settings generation and incorporation

**Presenter:** SOLFAROLI CAMILLOCCI, Matteo (CERN)
Settings generation and incorporation

Thursday, 23 March 2017 10:30 (1 hour)

Presenter: SOFAROLI CAMILLOCCI, Matteo
RF system

Tuesday, 28 March 2017 10:30 (1 hour)

Presenter: TIMKO, Helga
Superconducting circuits

Thursday, 30 March 2017 10:30 (1 hour)

Presenter: NISBET, David
YASP and the orbit feedback

Tuesday, 11 April 2017 10:30 (1 hour)

Presenter: WENNINGER, Jorg
The new CCM Editor: presentation and live demo

Tuesday, 21 March 2017 14:00 (1 hour)

Introduction
Description of the CCM Editor
  • The main concepts
  • CCDB servers used by the CCM Editor
  • How to launch the CCM Editor
  • RBAC security considerations
Live demos of some edition use cases:
  • Editing the CCM Menu tree
  • Editing Applications, Tools & Substitution entity definitions
  • Editing the Operational Configurations
  • The Application Checker tool
Links to the CCM Editor help, the F.A.Q. and JIRA

Presenter: ROUX, Eric