ABOUT CIM

Common Information Model (CIM) is a domain model that represents the entire value chain of the electric power industry with objective of achieving a common basis for information and knowledge sharing. CIM, provides common semantics for all information exchanges in power system domain. Since its inception over two decades ago, with collaborative effort of domain experts from IT and power sector, CIM has come a long way in establishing a proven track record in the worldwide scenario, with ample number of very large scale successful implementations. In the Indian scenario, due to lack of interoperability, problems are being faced for inter control center exchange of SCADA data and integration of applications with in the utility. The importance of CIM has been recognised by Indian power sector, with active research and development activities, and implementation initiatives being carried out. Professionals with knowledge of CIM are poised to play a defining role in further modernising the power sector in India.

BROAD OBJECTIVES

The aim of the short-term course would be to familiarize the participants with the concepts of Common Information Model and its role in integration of inter and intra utility applications. Technology fundamentals of CIM, such as unified modeling language (UML), model driven integration (MDI), object oriented design, profiles and schema definitions, eXtensible markup language (XML), resource description framework, architectural concepts, service orientation, etc. will be discussed at length. Special focus shall be given in showing the hands on working of tools that are available for CIM extensions, CIM XML schema generation, and CIM compliance validation, with demo sessions. Upon successful completion of this course, participants would appreciate the strategic long-term importance of CIM in Indian context.

FACULTY & LECTURE NOTES

The teaching faculty constitutes professors of IIT Bombay and experts from Industry who are working on latest CIM related technologies. The lecture notes/slide materials will be made available during the course.

VENUE & ACCOMMODATION

Course will be held at the Conference Hall, Guest House, IIT Bombay. Accommodation is available on payment in the Institute Guest House for a limited number of participants on sharing basis. Accommodations are allotted on first come first serve basis.

COURSE CONTENTS

Day – 1
Introductory Topics

- Introduction to CIM
- Technology Fundamentals of CIM
- CIM Worldwide Scenario
- CIM Packages, Profiles and Schema
- How CIM is Implemented?
- CIM in Indian Context
- CIM Application Use Cases
- CIM and IEC 61850 Integration
- CIM Based Applications (Demo # 1)

Day – 2
Advanced Topics

- How to Extend CIM?
- Tools for CIM (EA and CIMTool)
- Interoperability Testing Procedures
- CIM Extensions for ABT
- CIM for Distribution Management
- Generic Interface Definition (GID)
- CIM Oriented Database Design
- CIM Based Model Exchange
- CIM Based Applications (Demo # 2)

IMPORTANT DATES

Last date for receipt of Registration	:	Oct 10, 2011
Notification of acceptance before	:	Oct 12, 2011
Course dates	:	Oct 17-18, 2011

COURSE FEE

The course fee is Rs. 20,000 per participant. The payment is to be made by demand draft drawn in favour of **"The Registrar, IIT Bombay - CEP Account"** payable at Mumbai. **No income tax is to be deducted at source from the course fee, as IIT Bombay is exempt from the same.** The course fee includes course material, lunch and high-tea. DD should be posted to the contact address at the end of this brochure.

ONLINE REGISTRATION

All participants should also register for the course by filling an online form with participant and payment details, available at the following link:

www.ee.iitb.ac.in/~cimcourse/register.html

WHO MAY BENEFIT

The primary beneficiaries of CIM include system operators, vendors, utilities, and system integrators. System operators can establish unambiguous and consistent definition of power system data throughout the system, thereby avoiding confusion. Operators can prepare specifications for ensuring CIM compliance while procuring the next generation SCADA/EMS systems. Manual actions can be eliminated and automation of various functions can be achieved in a phased manner. Vendors can develop integrated solutions configured to specific requirements. Utilities can get ready-made solutions in modular fashion. System integrators, owing to interoperability, find it easier to integrate applications at syntactic and semantic levels.

CONTACT ADDRESS

For any queries or for sending demand draft (DD), please contact course coordinator at the address shown at right.
Further information on CEP courses in IIT Bombay is available at
www.ee.iitb.ac.in/~cimcourse/
www.iitb.ac.in/~cep/calender/2011.cgi

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ABOUT IIT BOMBAY

IIT Bombay was set up by an act of parliament and establised in 1958. Located in the suburbs of Powai, the IIT Bombay campus is a sprawling 500 acre island of lush greenary, nested among the hills and flanked by Powai and Vihar lakes. It is special place with seamless confluence of scenic beauty and cutting edge technology.

The campus is connected to the city proper, an hours distance through buses and local trains. The international airport is about 7 kms and domestic airport is 10 kms far from the institute. Having celebrated its Golden Jubilee year in 2008, IIT Bombay is swiftly moving on a growth trajectory. The institute is recognised as one of the centres of academic excellence in the country.

Announcing

CEP Short Term Course on

Common Information Model for Power Systems

October 17 - 18, 2011
IIT Bombay

Coordinator

Prof. S. A. Khaparde
Department of Electrical Engineering

Office of
Continuing Education &
Quality Improvement Programmes (CEP)
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