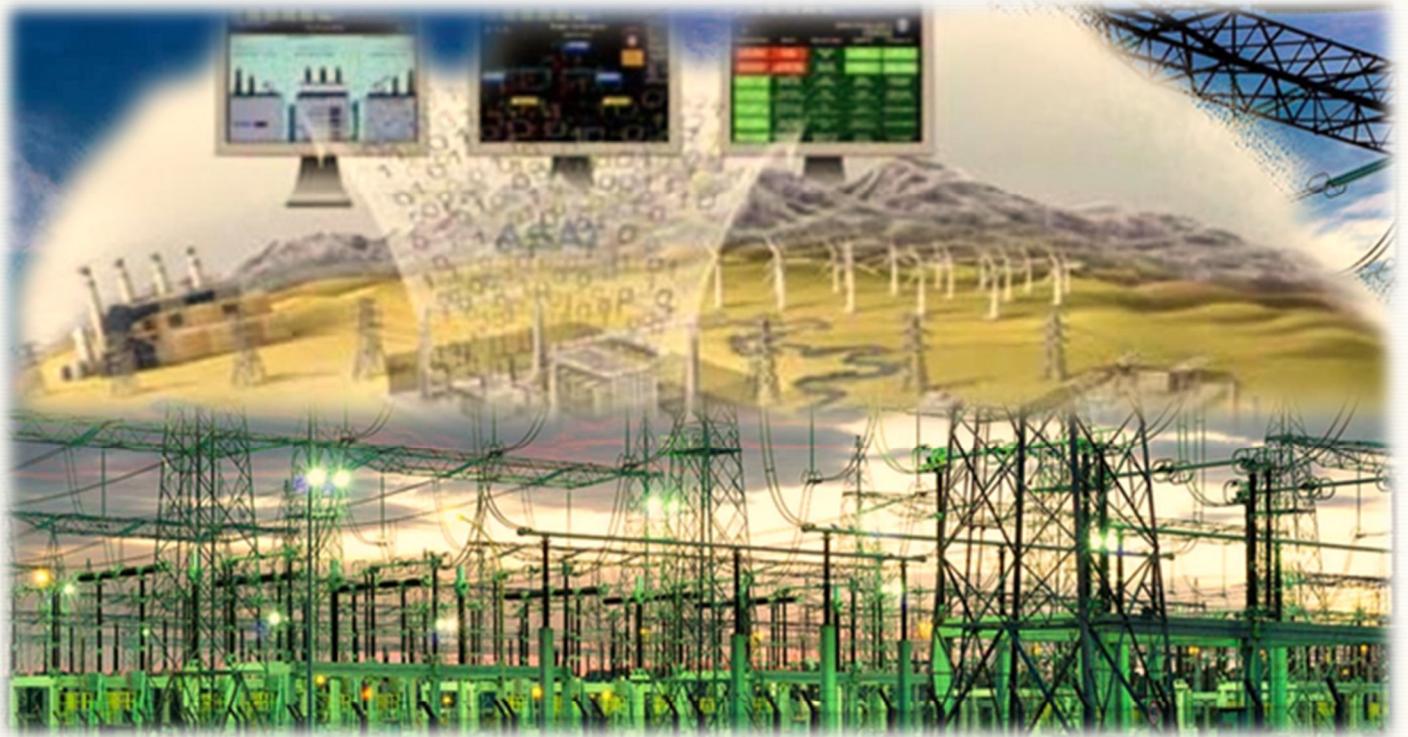


National Webinar on
**IEC 61850 TECHNOLOGIES AND
CONFORMANCE TESTING**

21 September 2023



स्मार्ट ग्रिड अनुसंधान प्रयोगशाला
Smart Grid Research Laboratory

केंद्रीय विद्युत अनुसंधान संस्थान

CENTRAL POWER RESEARCH INSTITUTE

(भारत सरकार की सोसाइटी, विद्युत मंत्रालय / Govt. of India Society, Ministry of Power)

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CPRI Profile

Central Power Research Institute (CPRI) set up in 1960 by the Government of India, functions as a National organization for applied research in power sector and also serves as an Independent Laboratory for testing and certification of electrical equipment. CPRI also provides consultancy services on various facets of power sector. CPRI has experienced faculty in different subjects of power sector with practical experience in their areas of interest as well as extensive experience in presenting courses/seminars.

Smart Grid and Research Laboratory

The laboratory houses advanced facilities for carrying out testing and research in the area of smart Grid which includes Advanced Distribution Automation, Advanced Metering Infrastructure, Interoperability, Communication and Cyber security systems. It includes Smart Grid Test Bed and Technology Demonstration Test Bed for AMI system. These test beds are also useful in performance evaluation of various smart grid components.

The division is providing testing services of Communication Protocol and Security Conformance for Intelligent Electronic Devices (IEDs) / Gateways/ RTUs as per IEC 61850. The IEC test facility is accredited by UCA IUG as Level 'A' (Independent Test Lab with certified ISO / IEC 17025: 2017 Quality Systems). The laboratory is accredited as per ISO / IEC 17025: 2017 by NABL and test reports / certificates issued by CPRI are accepted worldwide. The division has also commenced testing of RTUs / FRTUs for communication protocol and security conformance as per IEC 60870-5-101 / 104 and IEC 62351.

The division also provides consultancy services for implementation of Smart Grid and AMI / smart meter implementation, Distribution Automation, SCADA System, Substation automation systems, Cyber security and Communication Systems for various utilities, industries, and other organizations.

About the National webinar

The modern electric infrastructure is becoming more and more dependent on automation, information technology and communication systems. The communication system is also changing from traditional closed system with legacy protocols to open protocols based system with third party communication networks and interface to the global IP networks.

The IEC 61850 series of International standards for communication in the substations, brought a new era in the development of Substation Automation. It affects not just the design of the substation protection, monitoring and control system, but also the design of the substation secondary circuits. The High-speed peer-to-peer communication using GOOSE messages, and Sampled Analogue Values (SAV), allow development of distributed applications, based on the equipment status, current and voltage values communicated between the devices connected to the substation local area network.

Considering various advantages of IEC 61850 based Substation Automation System (SAS), technological advancements and future needs, CPRI is organizing Half day National webinar on "IEC 61850 Technologies & Conformance Testing" with the experts including from CPRI and industries/utilities.

Topics Covered

The topics covered during the National webinar will include:

- Introduction on IEC 61850.
- Overview of Substation Automation System.
- IEC 61850 – Substation Automation Systems and use cases.
- Conformance Testing process and procedures.

Who should attend?

This National webinar is designed for utility engineers, manufactures, researchers, consultants, system integrators and academia and those who are interested in the topics mentioned above. As the seats are limited, registration will be on first cum first serve basis.

Programme Schedule

The National webinar will be held on **21st September 2023 from 02:00 PM onwards**, through online mode. Details of the registration link and the schedule will be shared to all registered participants.

Registration

This is a free webinar and there is no Registration fee for participating in the webinar. However, prior registration is mandatory. Registration could be made by filling in the registration form provided with the brochure or alternatively, by filling in an online registration in the following link:

<https://forms.gle/degYyFd3tNaMeMPy5>

The programme schedule and participation link will be shared to all registered participants. Hence, the participants are requested to individually send their registrations in advance in the format provided to the programme coordinators.

Please visit CPRI website for any updates.

Programme Coordinators

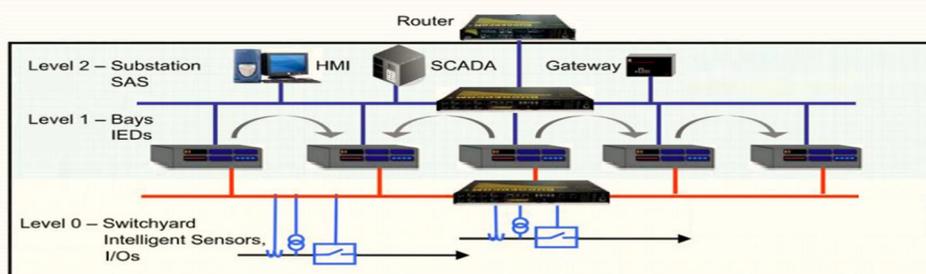
- Dr. Amit Jain, Joint Director & HOD
- Shri Shivakumar V, Joint Director
- Shri Pradish M, Engineering Officer
- Shri Shivendra Sinha, Engineering Officer

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REGISTRATION FORM

NATIONAL WEBINAR ON

IEC 61850 TECHNOLOGIES AND CONFORMANCE TESTING

21 September, 2023

www.cpri.res.in

Full Name of the Participant: _____

Designation: _____ Nationality _____

Organization: _____

Full address of Organization: _____

(For Correspondence) _____

_____ PIN Code: _____

Phone (Off.) : _____ Fax: _____

Mobile/Cell: _____ E-mail: _____

Area of work : _____

Date: _____

Signature: _____

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Softcopy of completely filled registration forms shall be sent to any of the following programme contacts:

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Kindly use separate form for each participant, downloaded / photocopies of this registration form is acceptable. Alternatively, registration can be made on line also

KINDLY VISIT CPRI WEBSITE FOR UPDATES