

Two-day special course on IEC 61850, IEC 61400-25, DNP3, ...

Remote 2009 Conference & Expo
October 29-30, 2009 - San Antonio, Texas

Notes:

1. Questions and discussions during and after each presentation are expected and welcome.
2. Questions sent in to M. Karlheinz Schwarz prior to the event will be answered during the event.

Thursday, 29.10.2009

#	Modul	Topic	Description	Min	Time
01	S-0000	Welcome and opening	Welcome, opening, roll call of attendees, expectations of attendees, IEC 61850 in brief, market situation	90	09:00 – 10:30
Break					10:30 – 10:50
02	S-0200	IEC 61850 series – overview	Communication networks and systems for power system automation: general introduction on whole series	70	10:50 – 12:00
03	S-0800	Practical experience	IEC 61850 devices, tools, projects; use of IEC 61850 (61400-25) in the global market	30	12:00 – 12:30
Lunch					12:30 – 13:30
04	S-0201	IEC 61850 Application modeling principles	Modeling protection, substation automation, other applications (Logical nodes, data and data attributes, function modeling, extension of the models, monitoring)	45	13:30 – 14:15
05	S-0202	IEC 61850-6 engineering process	Engineering process using the configuration language: from IEDs and single line diagram to configured substation automation system	45	14:15 – 14:45
Break					15:00 – 15:20
07	S-0301	Applying IEC 61850 for power system automation – use cases	Use cases from power system automation like measuring of current and voltage, protection, operating a switch, creation of a sequence of events, SCADA	70	15:20 – 16:30
08		Q&A of first day		30	16:20 – 17:00

Friday, 30.10.2009

#	Modul	Topic	Description	Min	Time
09	S-0500	Telecontrol protocols	Fundamentals of Telecontrol standards IEC 60870-5-101, IEC 60870-5-104, and DNP3 and market relevance in the future	45	09:00 – 09:45
10	S-0504	Webservices	Fundamentals of the definition of Webservices for IEC 61400-25-3 (and IEC 61850-7-2) as specified in IEC 61400-25-4	45	09:45 – 10:30
Break					10:30 – 10:45
11	S-0700	Extracting data from field devices	General SCADA services – configuration of logs, reports, ... (IEC 61850-7-2)	60	10:45 – 11:45
12	S-0701	Monitoring for SCADA applications	Fundamentals of special SCADA services (IEC 61850-7-2): model basics for monitoring, event reporting, event logging, ...	45	11:45 – 12:30
Lunch					12:30 – 13:30
13	S-0702	Communication technologies	Fundamentals of Industrial Ethernet used for substations and beyond	30	13:30 – 14:00
14	S-0706	Demonstration of compliant software	Demonstration of IEC 61850 compliant client and server software	60	14:00 – 15:00
Break					15:00 – 15:20
14	S-0801	Tool support	Tools for IEC 61850, SCL, IEC 61400-25, Ethernet, TCP/IP, MMS, ASN.1	30	15:20 – 15:50
	S-0803	Current and future standardization	Introduction of current and future application domains using and extending IEC 61850; Update on ongoing and planned standardization activities	30	15:50 – 16:20
16		Final Q&A		40	16:20 – 17:00