

IEEE POWER & ENERGY SOCIETY / SUBSTATIONS COMMITTEE



2011 – 2012 Officers

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C3 Working Group Meeting Notes

2012 Substations Annual Committee Meeting Raleigh, NC

Monday, 5/21/12 11AM

C3: IEEE C37.1 Standard for Supervisory Control And Data Acquisition (SCADA) and Automation Systems

Chair: C. Preuss

Vice Chair:

Secretary: E. William

Output: Standard

Name	Company	Web	M/G
Edward William	SPX Transformer	No	M
John Tengdin	OPUS Consulting Group	No	CM
Sam Sciacca	SCS Global	No	M
Craig Preuss	Black & Veatch	No	M
Jim Bougie	ABB	No	M
Mason Clark	DAQ	No	CM
Eric Thibodeau	Cooper Power Systems	No	G
Bogdan Popsecu	GE DE	No	G
Tim Tibbals	SEL	No	G
Yoshi Serizawa	CRIEPI	No	G
David Haynes	Alclara	Yes	G
Marcus Steel	Powerlink	Yes	M
Matt Ceglia	IEEE SA	Yes	G
Greg Luri	GE Energy	Yes	M (re)
Mike Dood	SEL	No	M

C0 Meeting Notes

Name	Company	Web	M/G
Nic Fontana	ABB/CIGRE	No	G
Rick Liposchak	Power Engineers	No	G
Yaowu Zhang	Powell Industries, Inc	No	M (re)
M: Member (re) request G: Guest CM: Corresponding member			

Agenda

Call to Order

Presentations

Old Business

New Business

Next Meeting

Adjourned

Old Business

- 1) Discussed interfaces and the need to provide definitions for the interfaces.

New Business

- 1) NISTR 7628 diagram update and Alignment with 61850-90-2
- 2) C37.1 split up results
- 3) Add better reference to serial port characteristic requirements
 - a) We have normative reference to ANSI X3.1, Information Systems—Data Transmission—Synchronous Signaling Rates.
 - b) No specific reference in the text, but specifies levels up to 2048 bps
 - c) EIA-232-F has an upper limit of “20,000 bits per second” but no specification of levels, ie 2400, 4800, 9600, 19.2k, etc
 - d) Per TIA-EIA-562 “Electrical Characteristics for an Unbalanced Digital Interface” goes up to a maximum of 64 kbp/s, but no specification of levels
 - e) TIA 574 actually specifies a DB9 connector for asynchronous ports for speeds supported by TIA 562
 - f) TIA 562 specified maximum of 64 kbps
- 4) More on alarm management (Bill Hollifield in ISA)
 - a) ISA SP-18 Alarm Management committee
 - b) ISA SP101 HMI committee
 - c) The Alarm Management Handbook, 2nd Edition, © PAS 2009
 - d) The High Performance HMI Handbook, © PAS 2008
 - e) The ISA book: Alarm Management: A Comprehensive Guide, © ISA 2011

C0 Meeting Notes

- f) The Electric Power Research Institute (EPRI) guideline on Alarm Management, released in 2008.
- 5) How should IEDs handle multiple masters and specifically controls (different form of redundancy – both pri/bu always active)?
- 6) Logging of high speed data and careful use of OPC (DA versus “newer OPC stuff”)
- 7) USB ruggedness
- 8) Colors used for graphics on screens
- 9) Does C37.1 handle RTD and thermocouple performance requirements?
- 10) Difference between a substation gateway and server?

Future meetings

- 1) September 10-12, 2012: PSRC September meeting in Portland, OR
- 2) January 2013: PES JTCM has not been announced yet
- 3) May 2013: Substations Annual meeting in Pittsburgh, PA