



TC 57 WG 17

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International Standardization meets R&D and Industry in Oldenburg (Germany), 19th and 20th June 2007 (WG 17 meeting: 18th, 21st and 22nd)

Workshop on

International Standardization for Distributed Energy Resources

Communications Systems for Distributed Energy Resources (DER): IEC 61850-7-420 – DER Logical Nodes¹

The IEC² TC 57³ and TC 88⁴ have published three crucial international standard series helping the utility industry to improve managing, automate and monitor the electric power system delivery system, reduce costs for planning, engineering, operating, and managing, and contributing to reducing the proliferation of solutions, most of which were proprietary:

- IEC 61970 – Energy management system application program interface (EMS-API) - Part 301: Common Information Model (CIM)
- IEC 61850 – Communication networks and systems in substations
- IEC 61400-25 – Communications for monitoring and control of wind power plants (61850 extensions)

Current standardization activities deal with further application domains: Distributed Energy Resources (DER), Hydro Power Systems, Power Quality Measurements, and Condition Monitoring. The IEC TC 57 WG 17 (DER) has published first drafts for Distributed Energy Resources:

[IEC 61850-7-420 – Communications Systems for Distributed Energy Resources \(DER\) – DER Logical Nodes](#)

The IEC 61850-7-420 defines extensions of the successful series IEC 61850. These enhancements are crucial for the future electric power delivery systems. The working group 17 has planned to hold the next international meeting in Oldenburg (Germany) on June 18-22, 2007. The main objective of the meeting is the dialog with the stakeholders of the DER domain: operators, utilities, IT industry, automation industry, and R&D. Oldenburg has been chosen because of the outstanding support of DER systems in northern Germany.

The standard IEC 61850-7-420 comprises the communication with and within any distributed energy resources like photovoltaic systems, fuel cell systems, combined heat and power, as well as distribution feeder equipment, et cetera. These systems are integrated into the utility information and automation systems such that they are closely related to the standard series IEC 61970 and IEC 61850. WG 17 invites the stakeholders to share their experiences, requirements and visions for the future seamless information and automation systems:

18 th June 2007	Meeting of WG 17 (guests are welcome to attend); preparation of the next version of IEC 61850-7-420
19 th June 2007	Users' view: workshop "Information Technology for DER"; selected presentations, panel discussion and general discussions:
20 th June 2007	Vendors' view: The standards for power delivery systems (morning): IEC 61970, 61850, 61400-25; advanced solutions for information and automation systems (afternoon):
21 st -22 nd June 2007	Meeting of WG 17 (guests are welcome to attend); continuation of the preparation of the next version of IEC 61850-7-420 especially taking the requirements into account that have been presented and discussed on 19 th -20 th June.

All stakeholders are invited to provide posters and small booths for presentations and discussions in the foyer of the meeting place on 19th and 20th June.

Who should attend? All interested experts from utilities, operators, IT and automation vendors, T&D, any other organization. If you are interested to provide a presentation or a booth or if you want to attend the WG 17 meeting on 18th, 21st, and 22nd June please contact:

Contact for WG 17 meeting (only)	Contact for 19 th and 20 th June	Contact for 19 th and 20 th June
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www.dispowergen.com/std/der/meetings/oldenburg.html

¹ Logical Nodes are the container that are used as a box to comprise the information to be modeled. Example: a generator logical node.

² International Electrotechnical Commission

³ Power systems management and associated information exchange

⁴ Wind turbines