



INTERNATIONAL ELECTROTECHNICAL COMMISSION

TC57: POWER SYSTEM CONTROL AND ASSOCIATED COMMUNICATIONS

**IEC 61850 – COMMUNICATION NETWORKS AND SYSTEMS FOR POWER UTILITY
AUTOMATION**

EDITORS

Number	Title	Main Editor
1	Introduction and overview	T. Tibbals
2	Glossary	
3	General requirements	R. Schimmel
4	System and project management	K. Clinard, C. Malcolm, W. Wimmer
5	Communication requirements for functions and device models	K.P. Brand
6	Configuration description language for communication in electrical substations related to IEDs	W. Wimmer
7-1	Basic communication structure – Principles and models	P. Martin, Ph. Matthiot
7-2	Basic communication structure – Abstract communication service interface (ACSI)	K.H. Schwarz, G. Schimmel, H. Falk
7-3	Basic communication structure – Common data classes	Ch. Brunner, M.C. Janssen
7-4	Basic communication structure – Compatible logical node classes and data classes	H. Dawidczak, K.P. Brand, K. Clinard
7-410	Hydroelectric power plants - Communication for monitoring and control	C. Malcolm
7-420	Communications systems for distributed energy resources (DER) - Logical nodes	F. Cleveland
7-500	Use of logical nodes to model functions of a substation automation system	K.P. Brand, H. Dawidczak, W. Wimmer
7-510	Use of logical nodes to model functions of a hydro power plant	C. Malcolm
7-520	Use of logical nodes to model functions of distributed energy resources	
8-1	Specific communication service mapping (SCSM) – Mappings to MMS (ISO/IEC 9506-1 and ISO/IEC 9506-2) and to ISO/IEC 8802-3	H. Falk, Th. Dufaure
9-1	Specific communication service mapping (SCSM) – Sampled values over serial unidirectional multidrop point to point link	
9-2	Specific communication service mapping (SCSM) – Sampled values over ISO/IEC 8802-3	F. Leconte, Ch. Brunner
10	Conformance testing	R. Schimmel
80-1	Guideline to exchange information from a CDC based data model using IEC 60870-5-101/104	W. Brodt
90-1	Using IEC 61850 for the communication between substations	M. Claus
90-2	Using IEC 61850 for the communication between substations and control centres	