



INTERNATIONAL ELECTROTECHNICAL COMMISSION

TC57: POWER SYSTEM CONTROL AND ASSOCIATED COMMUNICATIONS

IEC 61850 – COMMUNICATION NETWORKS AND SYSTEMS FOR POWER UTILITY AUTOMATION

Status overview

Number	Title	published	last circulated		next step *	
1	Introduction and overview	TR Ed1:2003-04			CD	02-08
2	Glossary	TS Ed1:2003-08				
3	General requirements	IS Ed1:2002-02				
4	System and project management	IS Ed1:2002-01			CD	02-08
5	Communication requirements for functions and device models	IS Ed1:2003-07			CDV	02-08
6	Configuration description language for communication in electrical substations related to IEDs	IS Ed1:2004-03	57/893/CD	05-07	CDV	12-07
7-1	Basic communication structure – Principles and models	IS Ed1:2003-07			CDV	02-08
7-2	Basic communication structure – Abstract communication service interface (ACSI)	IS Ed1:2003-05	57/891/CD	05-07	CDV	02-08
7-3	Basic communication structure – Common data classes	IS Ed1:2003-05	57/885/CD	05-07	CDV	02-08
7-4	Basic communication structure – Compatible logical node classes and data classes	IS Ed1:2003-05	57/892/CD	05-07	CDV	02-08
7-410	Hydroelectric power plants - Communication for monitoring and control	IS Ed1:2007-			-	-
7-420	Communications systems for distributed energy resources (DER) - Logical nodes		57/818/CDV	04-06	FDIS	05-08
7-500	Use of logical nodes to model functions of a substation automation system				DC	06-08
7-510	Use of logical nodes to model functions of a hydro power plant				DC	
7-520	Use of logical nodes to model functions of distributed energy resources				DC	
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	IS Ed1:2004-05	57/903/CD	06-07	CDV	03-08
9-1	Specific communication service mapping (SCSM) – Sampled values over serial unidirectional multidrop point to point link	IS Ed1:2003-05			-	-
9-2	Specific communication service mapping (SCSM) – Sampled values over ISO/IEC 8802-3	IS Ed1:2004-04	57/800/CD	11-05	CDV	02-08
10	Conformance testing	IS Ed1:2005-05			CD	02-08
80-1	Guideline to exchange information from a CDC based data model using IEC 60870-5-101/104		57/815/NP	03-06	DTS	12-07
90-1	Using IEC 61850 for the communication between substations		57/759/NP	06-05	DC	01-08
90-2	Using IEC 61850 for the communication between substations and control centres		57/760/NP	06-05	DC	05-08

* These dates are the dates when the doc is sent to Geneva

- The standard is structured into parts
- A part number can be a single number or a hierarchical number separated by a dash
- Hierarchical part numbers are used to group parts, that belong together
- Parts have numbers from 1 to 99
- The part numbers may be extended from 1xx to 99xx to categorize domain specific information
- The xx is defined as follows for the numbering:
 - o 00: Substation automation
 - o 10: Hydro power plants
 - o 20: distributed energy resources