

Irish Standard I.S. EN 61850-4:2011

Communication networks and systems for power utility automation -- Part 4: System and project management (IEC 61850-4:2011 (EQV))

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Communication networks and systems for power utility automation - Part 4: System and project management

(IEC 61850-4:2011)

Réseaux et systèmes de communication pour l'automatisation des systèmes électriques - Partie 4: Gestion du système et gestion de projet (CEI 61850-4:2011)

Kommunikationsnetze und -systeme in Stationen -Teil 4: System- und Projektverwaltung (IEC 61850-4:2011)

This European Standard was approved by CENELEC on 2011-05-16. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization Comité Européen de Normalisation Electrotechnique Europäisches Komitee für Elektrotechnische Normung

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EN 61850-4:2011

Foreword

- 2 -

The text of document 57/1103/FDIS, future edition 2 of IEC 61850-4, prepared by IEC TC 57, Power systems management and associated information exchange, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61850-4 on 2011-05-16.

This European Standard supersedes EN 61850-4:2002.

It constitutes a technical revision to align the document more closely with the other parts of the EN 61850 series, in addition to enlarging the scope from substation automation systems to all utility automation systems.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

The following dates were fixed:

 latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement

(dop) 2012-02-16

 latest date by which the national standards conflicting with the EN have to be withdrawn

(dow) 2014-05-16

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61850-4:2011 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 61850-10 NOTE Harmonized as EN 61850-10.

ISO 9001:2008 NOTE Harmonized as EN ISO 9001:2008 (not modified).

EN 61850-4:2011

Annex ZA (normative)

- 3 -

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60848	-	GRAFCET specification language for sequential function charts	EN 60848	-
IEC 61082	Series	Preparation of documents used in electrotechnology	EN 61082	Series
IEC 61175	-	Industrial systems, installations and equipment and industrial products - Designation of signals	EN 61175	-
IEC 61850-6	-	Communication networks and systems for power utility automation - Part 6: Configuration description language for communication in electrical substations related to IEDs	EN 61850-6	-
IEC 61850-7	Series	Communication networks and systems for power utility automation - Part 7: Basic information and communication structure	EN 61850-7	Series
IEC 81346	Series	Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations	EN 81346	Series
IEC 81346-1	-	Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations - Part 1: Basic rules	EN 81346-1	-
IEC 81346-2	-	Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations - Part 2: Classification of objects and codes for classes	EN 81346-2	-

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I.S. EN 61850-4:2011

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- 2 -

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CONTENTS

FΟ	REWC	DRD		4		
1	Scope					
2	Normative references					
3	Term	Terms and definitions				
4						
5	Engineering requirements					
•	5.1	•	ew			
	5.2		ories and types of parameters			
	5.2	5.2.1	Classification			
		5.2.2	Parameter categories			
		5.2.3	Parameter types			
	5.3		eering tools			
	0.0	5.3.1	Engineering process			
		5.3.2	System specification tool			
		5.3.3	System configuration tool			
		5.3.4	IED configuration tool			
		5.3.5	Documentation tool			
	5.4		lity and expandability			
	5.5		oility			
	5.6		atic project documentation			
		5.6.1	General			
		5.6.2	Hardware documentation			
		5.6.3	Parameter documentation			
		5.6.4	Requirements of the documentation tool			
	5.7 Standard documentation					
	5.8 System integrator's support					
6	System life cycle					
	6.1 Requirements of product versions					
	6.2 Announcement of product discontinuation					
	6.3	·				
7	Quali		rance			
	7.1 Division of responsibility					
		7.1.1	General			
		7.1.2	Responsibility of the manufacturer and system integrator			
		7.1.3	Responsibility of the customer			
	7.2		quipment			
		7.2.1	General			
		7.2.2	Normal process test equipment	29		
		7.2.3	Transient and fault test equipment			
		7.2.4	Communication test equipment			
	7.3	Classif	fication of quality tests			
		7.3.1	Basic test requirements			
		7.3.2	System test			
		7.3.3	Type test			
		7.3.4	Routine test			
		7.3.5	Conformance test	32		

61850-4 © IEC:201	1
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- 3 -

7.3.6 Factory Acceptance Test (FAT)	32
7.3.7 Site Acceptance Test (SAT)	32
Annex A (informative) Announcement of discontinuation (example)	34
Annex B (informative) Delivery obligations after discontinuation (example)	35
Bibliography	36
Figure 1 – Structure of the UAS and its environment	11
Figure 2 – Structure of UAS and IED parameters	13
Figure 3 – Engineering tasks and their relationship	16
Figure 4 – IED configuration process	18
Figure 5 – Project related documentation of UAS	21
Figure 6 – Two meanings of the system life cycle	25
Figure 7 – Stages of quality assurance – Responsibility of manufacturer and system	
integrator	27
Figure 8 – Contents of system test	30
Figure 9 – Contents of type test	31
Figure 10 – Contents of routine test	32
Figure 11 – Testing stages for site acceptance test	33
Figure A.1 – Announcement conditions	34
Figure B.1 – Periods for delivery obligations	35

-4-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMUNICATION NETWORKS AND SYSTEMS FOR POWER UTILITY AUTOMATION –

Part 4: System and project management

FOREWORD

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International Standard IEC 61850-4 has been prepared by IEC technical committee 57: Power systems management and associated information exchange.

This second edition cancels and replaces the first edition published in 2002. It constitutes a technical revision to align the document more closely with the other parts of the IEC 61850 series, in addition to enlarging the scope from substation automation systems to all utility automation systems.

The text of this standard is based on the following documents:

FDIS	Report on voting
57/1103/FDIS	57/1122/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

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- 5 -

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 61850 series, under the general title: *Communication networks and systems for power utility automation*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- · reconfirmed,
- withdrawn,
- · replaced by a revised edition, or
- amended.

- 6 **-**

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COMMUNICATION NETWORKS AND SYSTEMS FOR POWER UTILITY AUTOMATION –

Part 4: System and project management

1 Scope

This part of IEC 61850 applies to projects associated with process near automation systems of power utilities (UAS, utility automation system), like e.g. substation automation systems (SAS). It defines the system and project management for UAS systems with communication between intelligent electronic devices (IEDs) in the substation respective plant and the related system requirements.

The specifications of this part pertain to the system and project management with respect to:

- the engineering process and its supporting tools;
- the life cycle of the overall system and its IEDs;
- the quality assurance beginning with the development stage and ending with discontinuation and decommissioning of the UAS and its IEDs.

The requirements of the system and project management process and of special supporting tools for engineering and testing are described.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60848, GRAFCET specification language for sequential function charts

IEC 61082 (all parts), Preparation of documents used in electrotechnology

IEC 61175, Industrial systems, installations and equipment and industrial products – Designation of signals

IEC 61850-6, Communication networks and systems for power utility automation – Part 6: Configuration description language for communication in electrical substations related to IEDs

IEC 61850-7 (all parts), Communication networks and systems for power utility automation – Part 7: Basic communication structure

IEC 81346 (all parts), Industrial systems, installations and equipment and industrial products – Structuring principles and reference designations

IEC 81346-1, Industrial systems, installations and equipment and industrial products – Structuring principles and reference designations – Part 1: Basic rules

IEC 81346-2, Industrial systems, installations and equipment and industrial products – Structuring principles and reference designations – Part 2: Classification of objects and codes for classes



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