

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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

**Réseaux et systèmes de communication pour l'automatisation des systèmes
électriques –
Partie 4: Gestion du système et gestion de projet**



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CONTENTS

FOREWORD.....	4
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions	7
4 Abbreviations.....	10
5 Engineering requirements	11
5.1 Overview	11
5.2 Categories and types of parameters.....	12
5.2.1 Classification	12
5.2.2 Parameter categories.....	13
5.2.3 Parameter types	14
5.3 Engineering tools.....	15
5.3.1 Engineering process	15
5.3.2 System specification tool.....	17
5.3.3 System configuration tool.....	17
5.3.4 IED configuration tool.....	18
5.3.5 Documentation tool.....	19
5.4 Flexibility and expandability	19
5.5 Scalability.....	20
5.6 Automatic project documentation	20
5.6.1 General	20
5.6.2 Hardware documentation	22
5.6.3 Parameter documentation	22
5.6.4 Requirements of the documentation tool	23
5.7 Standard documentation	23
5.8 System integrator's support	24
6 System life cycle.....	24
6.1 Requirements of product versions.....	24
6.2 Announcement of product discontinuation	26
6.3 Support after discontinuation	26
7 Quality assurance.....	27
7.1 Division of responsibility	27
7.1.1 General	27
7.1.2 Responsibility of the manufacturer and system integrator	27
7.1.3 Responsibility of the customer.....	29
7.2 Test equipment.....	29
7.2.1 General	29
7.2.2 Normal process test equipment.....	29
7.2.3 Transient and fault test equipment	29
7.2.4 Communication test equipment	30
7.3 Classification of quality tests.....	30
7.3.1 Basic test requirements	30
7.3.2 System test.....	30
7.3.3 Type test	31
7.3.4 Routine test	32
7.3.5 Conformance test	32

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

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMUNICATION NETWORKS AND SYSTEMS FOR POWER UTILITY AUTOMATION –

Part 4: System and project management

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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.

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,
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- replaced by a revised edition, or
- amended.

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*