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

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# CONTENTS

FOREWORD ..... 4
1 Scope ..... 6
2 Normative references ..... 6
3 Terms and definitions ..... 6
4 Abbreviations ..... 10
5 Engineering requirements ..... 10
5.1 Overview ..... 10
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 ..... 17
5.3.5 Documentation tool ..... 19
5.3.6 Engineering tool workflow ..... 19
5.4 Flexibility and expandability ..... 23
5.5 Scalability ..... 23
5.6 Automatic project documentation ..... 24
5.6.1 General ..... 24
5.6.2 Hardware documentation ..... 25
5.6.3 Parameter documentation ..... 25
5.6.4 Requirements of the documentation tool ..... 26
5.7 Standard documentation ..... 26
5.8 System integrator's support ..... 27
5.9 System testing and engineering ..... 27
6 System life cycle ..... 27
6.1 Requirements of product versions ..... 27
6.2 Announcement of product discontinuation ..... 29
6.3 Support after discontinuation ..... 29
6.4 Backward compatibility ..... 29
6.4.1 General ..... 29
6.4.2 Components ..... 30
6.4.1 Use cases ..... 30
6.4.2 Impacts ..... 30
7 Quality assurance ..... 37
7.1 Division of responsibility ..... 37
7.1.1 General ..... 37
7.1.2 Responsibility of the manufacturer and system integrator ..... 37
7.1.3 Responsibility of the customer ..... 39
7.2 Test equipment ..... 40
7.2.1 General ..... 40
7.2.2 Normal process test equipment ..... 40
7.2.3 Transient and fault test equipment ..... 40

7.2.4 Communication test equipment ..... 40
7.3 Classification of tests ..... 40
7.3.1 Basic test requirements ..... 40
7.3.2 System test ..... 41
7.3.3 Type test ..... 41
7.3.4 Routine test ..... 42
7.3.5 Conformance test ..... 42
7.3.6 Factory Acceptance Test (FAT) ..... 42
7.3.7 Site Acceptance Test (SAT) ..... 43
7.3.8 Maintenance tests (after commissioning) ..... 43
Annex A (informative) Announcement of discontinuation (example) ..... 45
Annex B (informative) Delivery obligations after discontinuation (example) ..... 46
Bibliography ..... 47

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 - Engineering workflow steps from system to project ..... 19
Figure 6 - Change of system tool first stage ..... 20
Figure 7 - Change of system tool second stage ..... 21
Figure 8 – interaction between projects, first stage ..... 22
Figure 9 - interaction between projects, second stage ..... 22
Figure 10 - Project related documentation of UAS ..... 24
Figure 11 - Two meanings of the system life cycle ..... 28
Figure 12 - Template table of acceptable impacts ..... 31
Figure 13 : Backward compatibility first use case ..... 32
Figure 14 : Backward compatibility second use case ..... 33
Figure 15 : Backward compatibility third use case ..... 35
Figure 16 : Backward compatibility fourth use case ..... 36
Figure 17 - Stages of quality assurance – Responsibility of manufacturer and system integrator ..... 38
Figure 18 - Contents of system test ..... 41
Figure 19 - Contents of type test ..... 42
Figure 20 - Contents of routine test ..... 42
Figure 21 - Testing stages for site acceptance test ..... 43
Figure A.1 – Announcement conditions ..... 45
Figure B.1 – Periods for delivery obligations ..... 46

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# COMMUNICATION NETWORKS AND SYSTEMS FOR POWER UTILITY AUTOMATION –

## Part 4: System and project management

## FOREWORD

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**IEC 61850-4 edition 2.1 contains the second edition (2011-04) [documents 57/1103/FDIS and 57/1122/RVD] and its amendment 1 (2020-11) [documents 57/2256/FDIS and 57/2271/RVD].**

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

This edition aligns 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.

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 the base publication and its amendment will remain unchanged until the stability date indicated on the IEC web site under "http://web-store.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.

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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 processes near automation systems of power utilities (UAS, utility automation system), such as substation automation systems (SAS). It defines the system and project management for UAS 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 power utility automation systems 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*