

<b>STN</b>	<b>Komunikačné siete a systémy automatizácie elektrických staníc Časť 10: Skúšanie zhody Zmena A1</b>	<b>STN EN 61850-10/A1</b>  33 4850
------------	---	--

Communication networks and systems for power utility automation - Part 10: Conformance testing

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 11/25

STN EN 61850-10 z januára 2014 sa bez tejto zmeny A1 môže používať do 30. 9. 2028.

Obsahuje: EN 61850-10:2013/A1:2025, IEC 61850-10:2012/AMD1:2025

**141464**

---

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2025  
Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii  
v znení neskorších predpisov.



EUROPEAN STANDARD

**EN 61850-10:2013/A1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2025

ICS 33.200

English Version

**Communication networks and systems for power utility  
automation - Part 10: Conformance testing  
(IEC 61850-10:2012/AMD1:2025)**

Réseaux et systèmes de communication pour  
l'automatisation des systèmes électriques - Partie 10:  
Essais de conformité  
(IEC 61850-10:2012/AMD1:2025)

Kommunikationsnetze und -systeme für die  
Automatisierung in der elektrischen Energieversorgung -  
Teil 10: Konformitätsprüfung  
(IEC 61850-10:2012/AMD1:2025)

This amendment A1 modifies the European Standard EN 61850-10:2013; it was approved by CENELEC on 2025-09-03. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 CEN-CENELEC Management Centre or to any CENELEC member.

This amendment 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 CEN-CENELEC Management Centre 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, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.



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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN 61850-10:2013/A1:2025 (E)****European foreword**

The text of document 57/2769/FDIS, future edition 2 of IEC 61850-10/AMD1, prepared by TC 57 "Power systems management and associated information exchange" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61850-10:2013/A1:2025.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2026-09-30 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2028-09-30 document have to be withdrawn

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

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

**Endorsement notice**

The text of the International Standard IEC 61850-10:2012/AMD1:2025 was approved by CENELEC as a European Standard without any modification.

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cencenelec.eu](http://www.cencenelec.eu).

*Add the following references:*

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61869-9	2016	Instrument transformers - Part 9: Digital interface for instrument transformers	EN IEC 61869-9	2019
IEC/IEEE 61850-9-3	2016	Communication networks and systems for power utility automation - Part 9-3: Precision time protocol profile for power utility automation	-	-

*Delete the following reference:*

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62439-3	2012	Industrial communication networks - High availability automation networks - Part 3: Parallel Redundancy Protocol (PRP) and High availability Seamless Redundancy (HSR)	EN 62439-3	2012



IEC 61850-10

Edition 2.0 2025-07

# INTERNATIONAL STANDARD

AMENDMENT 1

---

**Communication networks and systems for power utility automation -  
Part 10: Conformance testing**



**THIS PUBLICATION IS COPYRIGHT PROTECTED**  
**Copyright © 2025 IEC, Geneva, Switzerland**

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either IEC or IEC's member National Committee in the country of the requester. If you have any questions about IEC copyright or have an enquiry about obtaining additional rights to this publication, please contact the address below or your local IEC member National Committee for further information.

IEC Secretariat  
3, rue de Varembeé  
CH-1211 Geneva 20  
Switzerland

Tel.: +41 22 919 02 11  
[info@iec.ch](mailto:info@iec.ch)  
[www.iec.ch](http://www.iec.ch)

**About the IEC**

The International Electrotechnical Commission (IEC) is the leading global organization that prepares and publishes International Standards for all electrical, electronic and related technologies.

**About IEC publications**

The technical content of IEC publications is kept under constant review by the IEC. Please make sure that you have the latest edition, a corrigendum or an amendment might have been published.

**IEC publications search -**  
[webstore.iec.ch/advsearchform](http://webstore.iec.ch/advsearchform)

The advanced search enables to find IEC publications by a variety of criteria (reference number, text, technical committee, ...). It also gives information on projects, replaced and withdrawn publications.

**IEC Just Published - [webstore.iec.ch/justpublished](http://webstore.iec.ch/justpublished)**  
Stay up to date on all new IEC publications. Just Published details all new publications released. Available online and once a month by email.

**IEC Customer Service Centre - [webstore.iec.ch/csc](http://webstore.iec.ch/csc)**  
If you wish to give us your feedback on this publication or need further assistance, please contact the Customer Service Centre: [sales@iec.ch](mailto:sales@iec.ch).

**IEC Products & Services Portal - [products.iec.ch](http://products.iec.ch)**

Discover our powerful search engine and read freely all the publications previews, graphical symbols and the glossary. With a subscription you will always have access to up to date content tailored to your needs.

**Electropedia - [www.electropedia.org](http://www.electropedia.org)**

The world's leading online dictionary on electrotechnology, containing more than 22 500 terminological entries in English and French, with equivalent terms in 25 additional languages. Also known as the International Electrotechnical Vocabulary (IEV) online.

**Warning! Make sure that you obtained this publication from an authorized distributor.**

IEC 61850-10:2012/AMD1:2025 © IEC 2025

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**Communication networks and systems for power utility automation -  
Part 10: Conformance testing****AMENDMENT 1****FOREWORD**

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) IEC draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). IEC takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, IEC had not received notice of (a) patent(s), which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at <https://patents.iec.ch> [and/or] [www.iso.org/patents](http://www.iso.org/patents). IEC shall not be held responsible for identifying any or all such patent rights.

Amendment 1 to IEC 61850-10 has been prepared by IEC technical committee 57: Power systems management and associated information exchange.

The major changes in this amendment are as follows:

- server device conformance test procedures have been updated; new test cases are: sAss4, sAss5, sAssN7, sSrv14, sSrv15, sDs15, sSg11..sSg14, sRp15, sRp16, sRp17, sRp23, sRpN9, sBr29, sBrN9, sBrN10, sGop12, sGos8..15, sGos20..23, sGosN7, sSBOs8, sTm6, sTm7, sTmP1, sTmP2, sTmP5, sTmPN1;
- client device conformance test procedures have been updated; new test cases are: cAss10, cAssN8, cAssN9, cSrv10, cSrvN7..cSrvN9, cSg46, cRp14..22, cRp40..46, cBr14..22, cBr30..32, cBr46, cLog9, cLog46, cLogN4, cGcb46, cSBOs10, cFt16, cMsvcb1, cMsvcb2, cMsvcb46;

## IEC 61850-10:2012/AMD1:2025 © IEC 2025

- sampled values test procedures have been merged into server;
- server IED configuration tool related conformance test procedures have been updated; the ICD export and SCD import test cases have been merged into server, new test cases are: tTf4, tTf5;
- System Configuration Tool related conformance test procedures have been updated; new test cases are: tSieN2, tSce8..10, tSceN2, tDfeN3, tSmo7..9, tSse4..7, tSsi5..6, tSeh7..11;
- GOOSE performance test procedures have been updated; the performance classes have been updated to align with the performance class definition updates.

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

Draft	Report on voting
57/2769/FDIS	57/2797/RVD

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

The language used for the development of this Amendment is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications/](http://www.iec.ch/publications/).

A list of all parts of 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 document will remain unchanged until the stability date indicated on the IEC website under [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

## 1 Scope

*Add the following new text after the first paragraph of the Scope (before the NOTE):*

Cyber security extensions provided by IEC 62351 are conformance tested against the IEC 62351-100-4 and IEC 62351-100-6.

## 2 Normative references

*Insert the following new normative references:*

IEC/IEEE 61850-9-3:2016, *Communication networks and systems for power utility automation – Part 9-3: Precision time protocol profile for power utility*

IEC 61850-10:2012/AMD1:2025 © IEC 2025

IEC 61869-9:2016, *Instrument transformers – Part 9: Digital interface for instrument transformers*

*Remove the following existing normative reference:*

IEC 62439-3:2012, *Industrial communication networks – High availability automation networks – Part 3: Parallel Redundancy Protocol (PRP) and High Availability Seamless Redundancy (HSR)*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**