

<b>STN</b>	<b>Komunikačné siete a systémy automatizácie elektrických staníc</b> <b>Časť 9-2: Mapovanie špecifickej komunikačnej služby (SCSM)</b> <b>Vzorové hodnoty vyššie ako v ISO/IEC 8802-3</b> <b>Zmena A1</b>	<b>STN</b> <b>EN 61850-9-2/A1</b>  33 4850
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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. 08/20

STN EN 61850-9-2 z júna 2012 sa bez tejto zmeny A1 môže používať do 18. 3. 2023.

Obsahuje: EN 61850-9-2:2011/A1:2020, IEC 61850-9-2:2011/AMD1:2020

**131482**

EUROPEAN STANDARD

**EN 61850-9-2:2011/A1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2020

ICS 33.200

English Version

Communication networks and systems for power utility  
automation - Part 9-2: Specific communication service mapping  
(SCSM) - Sampled values over ISO/IEC 8802-3  
(IEC 61850-9-2:2011/A1:2020)

Réseaux et systèmes de communication pour  
l'automatisation des systèmes électriques - Partie 9-2: Mise  
en correspondance des services de communication  
spécifiques (SCSM) - Valeurs échantillonnées sur ISO/IEC  
8802-3  
(IEC 61850-9-2:2011/A1:2020)

Kommunikationsnetze und -systeme für die  
Automatisierung in der elektrischen Energieversorgung -  
Teil 9-2: Spezifische Abbildung von  
Kommunikationsdiensten (SCSM) - Abgetastete Werte über  
ISO/IEC 8802-3  
(IEC 61850-9-2:2011/A1:2020)

This amendment A1 modifies the European Standard EN 61850-9-2:2011; it was approved by CENELEC on 2020-03-18. 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.

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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 61850-9-2:2011/A1:2020 (E)****European foreword**

The text of document 57/2112/FDIS, future IEC 61850-9-2/A1, prepared by IEC/TC 57 "Power systems management and associated information exchange" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61850-9-2:2011/A1:2020.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-12-18
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-03-18

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This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association.

**Endorsement notice**

The text of the International Standard IEC 61850-9-2:2011/A1:2020 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.cenelec.eu](http://www.cenelec.eu).

*Delete the following references:*

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC/TR 61850-1	-	Communication networks and systems in substations - Part 1: Introduction and overview	-	-
IEC 61850-7-1	-	Communication networks and systems for power utility automation - Part 7-1: Basic communication structure - Principles and models	EN 61850-7-1	-
IEC 61850-7-4	-	Communication networks and systems for power utility automation - Part 7-4: Basic communication structure - Compatible logical node classes and data object classes	EN 61850-7-4	-
IEC 60874-10-1	-	Connectors for optical fibres and cables - Part 10-1: Detail specification for fibre optic connector type BFOC/2,5 terminated to multimode fibre type A1	-	-
IEC 60874-10-2	-	Connectors for optical fibres and cables - Part 10-2: Detail specification for fibre optic connector type BFOC/2,5 terminated to single-mode fibre type B1	-	-
ISO/IEC 7498-1	-	Information technology - Open Systems Interconnection - Basic reference model: The basic model	-	-

**EN 61850-9-2:2011/A1:2020 (E)**

*Add the following references:*

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61588	2009	Precision clock synchronization protocol for networked measurement and control systems	-	-
IEC/IEEE 61850-9-3	-	Communication networks and systems for power utility automation - Part 9-3: Precision time protocol profile for power utility automation	-	-
IEC/TR 61850-90-4	-	Communication networks and systems for power utility automation - Part 90-4: Network engineering guidelines	-	-
ISO 4217	2015	Codes for the representation of currencies	-	-
RFC 2460	-	Internet Protocol, Version 6 (IPv6) Specification	-	-

*Update the following references:*

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC/TS 61850-2	-	Communication networks and systems in substations - Part 2: Glossary	-	-
IEC/TS 62351-6 <sup>1</sup>	-	Power systems management and associated information exchange - Data and communications security - Part 6: Security for IEC 61850	-	-
IEC 62439-3	2016	Industrial communication networks - High availability automation networks - Part 3: Parallel Redundancy Protocol (PRP) and High-availability Seamless Redundancy (HSR)	-	-
ISO/IEC/IEEE 8802-3	-	Standard for Ethernet	-	-

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<sup>1</sup> Under preparation. Stage at the time of publication: IEC TS/PRVC 62351-6:2020.



IEC 61850-9-2

Edition 2.0 2020-02

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

AMENDMENT 1  
AMENDEMENT 1

**Communication networks and systems for power utility automation –  
Part 9-2: Specific communication service mapping (SCSM) – Sampled values  
over ISO/IEC 8802-3**

**Réseaux et systèmes de communication pour l'automatisation des systèmes  
électriques –  
Partie 9-2: Mise en correspondance des services de communication spécifiques  
(SCSM) – Valeurs échantillonnées sur ISO/IEC 8802-3**



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## FOREWORD

This amendment has been prepared by IEC technical committee 57: Power systems management and associated information exchange.

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

FDIS	Report on voting
57/2112/FDIS	57/2135/RVD

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

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC website 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.

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## 2 Normative references

*Remove the following existing references:*

IEC/TR 61850-1

IEC 61850-7-1

IEC 61850-7-4

IEC 60874-10-1

IEC 60874-10-2

IEC 60874-10-2

ISO/IEC 7498-1

*Add the following new references:*

IEC 61588:2009, *Precision clock synchronization protocol for networked measurement and control systems*

IEC 61850-9-2:2011/AMD1:2020 – 3 –  
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IEC/IEEE 61850-9-3, *Communication networks and systems for power utility automation - Part 9-3: Precision Time Protocol Profile for Power Utility Automation*

IEC TR 61850-90-4, *Communication networks and systems for power utility automation - Part 90-4: Network engineering guidelines*

ISO 4217:2015, *Code for the representation of currencies*

RFC 2460, *Internet Protocol, Version 6 (IPv6) Specification*, IETF, available at <http://www.ietf.org>

*Update the following existing references:*

IEC TS 61850-2, *Communication networks and systems for power utility automation - Part 2: Glossary*

IEC TS 62351-6<sup>1</sup>, *Power systems management and associated information exchange - Data and communications security - Part 6: Security for IEC 61850*

IEC 62439-3:2016, *Industrial communication networks - High availability automation networks - Part 3: Parallel Redundancy Protocol (PRP) and High-availability Seamless Redundancy (HSR)*

ISO/IEC/IEEE 8802-3, *Standard for Ethernet*

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

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<sup>1</sup> Under preparation. Stage at the time of publication: IEC TS/PRVC 62351-6:2020.