

SLOVENSKI STANDARD

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Komunikacijska omrežja in sistemi za avtomatizacijo uporabe električne energije - 7-410. del: Osnovna komunikacijska struktura - Hidroelektrarne, parne in plinske turbine – Razredi logičnih vozlišč (IEC 61850-7-410:2026)

Communication networks and systems for power utility automation - Part 7-410: Basic communication structure - Hydroelectric power plants, steam and gas turbines - Logical node classes (IEC 61850-7-410:2026)

Kommunikationsnetze und -systeme für die Automatisierung in der elektrischen Energieversorgung - Teil 7-410: Grundlegende Kommunikationsstruktur - Wasserkraftwerke - Kommunikation für Überwachung, Regelung und Steuerung (IEC 61850-7-410:2026)

Réseaux et systèmes de communication pour l'automatisation des systèmes électriques - Partie 7-410: Structure de communication de base - Centrales hydroélectriques - Communication pour le contrôle-commande (IEC 61850-7-410:2026)

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en

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

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**Communication networks and systems for power utility
automation - Part 7-410: Basic communication structure -
Hydroelectric power plants, steam and gas turbines - Logical
node classes
(IEC 61850-7-410:2026)**

Réseaux et systèmes de communication pour
l'automatisation des systèmes électriques - Partie 7-410:
Structure de communication de base - Centrales
hydroélectriques - Communication pour le contrôle-
commande
(IEC 61850-7-410:2026)

Kommunikationsnetze und -systeme für die
Automatisierung in der elektrischen Energieversorgung -
Teil 7-410: Grundlegende Kommunikationsstruktur -
Wasserkraftwerke - Kommunikation für Überwachung,
Regelung und Steuerung
(IEC 61850-7-410:2026)

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EN IEC 61850-7-410:2026 (E)**European foreword**

The text of document 57/2885/FDIS, future edition 3 of IEC 61850-7-410, 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 IEC 61850-7-410:2026.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2027-09-30 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2029-09-30 document have to be withdrawn

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

IEC 61400-25-2	NOTE	Approved as EN 61400-25-2
IEC 61850-6:2009	NOTE	Approved as EN 61850-6:2010 (not modified)
IEC 61850-6:2009/AMD2:2024	NOTE	Approved as EN 61850-6:2010/A2:2025 (not modified)
IEC 61850-10	NOTE	Approved as EN 61850-10
IEC 61970-301	NOTE	Approved as EN IEC 61970-301
IEC 62264-1:2013	NOTE	Approved as EN 62264-1:2013 (not modified)

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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60034	2022	Rotating electrical machines - Part 1: Rating and performance	-	-
IEC 60041	1991	Field acceptance tests to determine the hydraulic performance of hydraulic turbines, storage pumps and pump-turbines	EN 60041	1994
+ corrigendum Mar.	1996		-	-
IEC 60050-351	2013	International Electrotechnical Vocabulary - Part 351: Control technology	-	-
IEC 60545	2021	Guidelines for commissioning and operation of hydraulic turbines, pump-turbines and storage pumps	EN IEC 60545	2021
IEC 61362	2024	Guidelines to specification of hydraulic turbine governing systems	EN IEC 61362	2024
IEC/TS 61850-1-2	2020	Communication networks and systems for power utility automation - Part 1-2: Guideline on extending IEC 61850	-	-
+ A1	2022			
IEC/TS 61850-2	2019	Communication networks and systems in substations - Part 2: Glossary	-	-
IEC 61850-5	2013	Communication networks and systems for power utility automation - Part 5: Communication requirements for functions and device models	EN 61850-5	2013
IEC 61850-7-1	2011	Communication networks and systems for power utility automation - Part 7-1: Basic communication structure - Principles and models	EN 61850-7-1	2011
+ A1	2020		+ A1	2020

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IEC 61850-7-3	2010	Communication networks and systems for power utility automation - Part 7-3: Basic communication structure - Common data classes	EN 61850-7-3	2011
+ A1	2020		+ A1	2020
IEC 61850-7-4	2010	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	2010
+ A1	2020		+ A1	2020
IEC 61850-7-6	2024	Communication networks and systems for power utility automation - Part 7-6: Guideline for definition of Basic Application Profiles (BAPs) using IEC 61850	-	-
IEC 61850-7-420	2021	Communication networks and systems for power utility automation - Part 7-420: Basic communication structure - Distributed energy resources and distribution automation logical nodes	EN IEC 61850-7-420	2021
IEC/TR 500	61850-7-2017	Communication networks and systems for power utility automation - Part 7-500: Basic information and communication structure - Use of logical nodes for modeling application functions and related concepts and guidelines for substations	-	-
ISO/IEC 81346	series	Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations	-	-
IEC 62270	2013	Hydroelectric power plant automation - Guide for computer-based control	-	-
IEC 62361-103	2013	Power systems management and associated information exchange - Interoperability in the long term - Part 103: Standard profiling	-	-
IEC/IEEE 2775	63198-2023	Technical guidelines for smart hydroelectric power plant	-	-
IEC 63200	2021	Definition of extended SGAM smart energy grid reference architecture model	-	-
IEEE 421.1-2021	-	IEEE Standard Definitions for Excitation Systems for Synchronous Machines	-	-
IEEE 421.5-2016	-	IEEE Recommended Practice for Excitation System Models for Power System Stability Studies	-	-
ANSI/ASSP Z244.1	2024	The Control Of Hazardous Energy - Lockout, Tagout, And Alternative Methods	-	-



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**Communication networks and systems for power utility automation -
Part 7-410: Basic communication structure - Hydroelectric power plants, steam
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