

**SLOVENSKI STANDARD
SIST EN IEC 62351-7:2026****01-april-2026****Nadomešča:
SIST EN 62351-7:2018**

**Upravljanje elektroenergetskega sistema in pripadajoča izmenjava informacij -
Varnost podatkov in komunikacij - 7. del: Podatkovni modeli pri upravljanju
omrežij in sistemov (NSM) (IEC 62351-7:2025)**

Power systems management and associated information exchange - Data and communications security - Part 7: Network and system management (NSM) data object models (IEC 62351-7:2025)

Datenmodelle, Schnittstellen und Informationsaustausch für Planung und Betrieb von Energieversorgungsunternehmen – Daten- und Kommunikationssicherheit - Teil 7: Datenobjektmodelle für Netzwerk- und Systemmanagement (NSM) (IEC 62351-7:2025)

Gestion des systèmes de puissance et échanges d'informations associés - Sécurité des communications et des données - Partie 7: Modèles d'objets de données de gestion de réseaux et de systèmes (NSM) (IEC 62351-7:2025)

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35.240.50	Uporabniške rešitve IT v industriji	IT applications in industry

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**Power systems management and associated information
exchange - Data and communications security - Part 7: Network
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(IEC 62351-7:2025)**

Gestion des systèmes de puissance et échanges
d'informations associés - Sécurité des communications et
des données - Partie 7: Modèles d'objets de données de
gestion de réseaux et de systèmes (NSM)
(IEC 62351-7:2025)

Datenmodelle, Schnittstellen und Informationsaustausch für
Planung und Betrieb von Energieversorgungsunternehmen
- Daten- und Kommunikationssicherheit - Teil 7:
Datenobjektmodelle für Netzwerk- und Systemmanagement
(NSM)
(IEC 62351-7:2025)

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European Committee for Electrotechnical Standardization
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Europäisches Komitee für Elektrotechnische Normung

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

EN IEC 62351-7:2026 (E)**European foreword**

The text of document 57/2798/FDIS, future edition 2 of IEC 62351-7, 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 62351-7:2026.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2027-01-31 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2029-01-31 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 61850-7-2	NOTE	Approved as EN 61850-7-2
IEC 61850-7-4	NOTE	Approved as EN 61850-7-4
IEC 61850-8-1	NOTE	Approved as EN 61850-8-1
IEC 61850-9-2	NOTE	Approved as EN 61850-9-2

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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC/TS 62351-1	-	Power systems management and associated information exchange - Data and communications security - Part 1: Communication network and system security - Introduction to security issues	-	-
IEC/TS 62351-2	-	Power systems management and associated information exchange - Data and communications security - Part 2: Glossary of terms	-	-
IEC 62351-3	-	Power systems management and associated information exchange - Data and communications security - Part 3: Communication network and system security - Profiles including TCP/IP	EN IEC 62351-3	-
IEC 62351-4	-	Power systems management and associated information exchange - Data and communications security - Part 4: Profiles including MMS and derivatives	EN IEC 62351-4	-
IEC 62351-5	2023	Power systems management and associated information exchange - Data and communications security - Part 5: Security for IEC 60870-5 and derivatives	EN IEC 62351-5	2023
IEC 62351-8	-	Power systems management and associated information exchange - Data and communications security - Part 8: Role-based access control for power system management	EN IEC 62351-8	-
IEC 62351-9	-	Power systems management and associated information exchange - Data and communications security - Part 9: Cyber security key management for power system equipment	EN IEC 62351-9	-
IEEE 754	2008	IEEE Standard for Binary Floating-Point Arithmetic	-	-
IETF RFC 2578	-	Structure of Management Information Version 2 (SMIPv2), April 1999, http://tools.ietf.org/html/rfc2578	-	-

EN IEC 62351-7:2026 (E)

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IETF RFC 3414	-	User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3), December 2002, http://tools.ietf.org/rfc/rfc3414	-	-
IETF RFC 3826	-	The Advanced Encryption Standard (AES) - Cipher Algorithm in the SNMP User-based Security Model, June 2004, http://www.rfc-editor.org/rfc/rfc3826	-	-
IETF RFC 4022	-	Management Information Base for the Transmission Control Protocol (TCP), March 2005, http://tools.ietf.org/html/rfc4022	-	-
IETF RFC 4113	-	Management Information Base for the User-Datagram Protocol (UDP), June 2005, http://tools.ietf.org/html/rfc4113	-	-
IETF RFC 4292	-	IP Forwarding Table MIB, April 2006, http://www.rfc-editor.org/rfc/rfc4292	-	-
IETF RFC 4293	-	Management Information Base for the Internet Protocol (IP), April 2006, http://tools.ietf.org/rfc/rfc4293	-	-
IETF RFC 4898	-	TCP Extended Statistics MIB, May 2007, http://tools.ietf.org/rfc/rfc4898	-	-
IETF RFC 5132	-	IP Multicast MIB, December 2007, http://tools.ietf.org/rfc/rfc5132	-	-
IETF RFC 5905	-	Network Time Protocol Version 4: Protocol and Algorithms Specification	-	-
IETF RFC 5590	-	Transport Subsystem for the Simple Network Management Protocol (SNMP), June 2009, http://tools.ietf.org/rfc/rfc5590	-	-
IETF RFC 5591	-	Transport Security Model for the Simple Network Management Protocol (SNMP), June 2009, http://tools.ietf.org/rfc/rfc5591	-	-
IETF RFC 5592	-	Secure Shell Transport Model for the Simple Network Management Protocol (SNMP), June 2009, http://www.rfc-editor.org/rfc/rfc5592	-	-
IETF RFC 5953	-	Transport Layer Security (TLS) Transport Model for the Simple Network Management Protocol (SNMP), August 2010, http://www.rfc-editor.org/rfc/rfc5953	-	-
IETF RFC 6347	-	Datagram Transport Layer Security Version 1.2, January 2012, http://tools.ietf.org/rfc/rfc6347	-	-
IETF RFC 6353	-	Transport Layer Security (TLS) Transport Model for the Simple Network Management Protocol (SNMP), July 2011, http://tools.ietf.org/rfc/rfc6353	-	-
IETF RFC 7860	-	HMAC-SHA-2, Authentication Protocols in User-Based Security Model (USM) for SNMPv3, April 2016, http://tools.ietf.org/rfc/rfc7860	-	-
IETF RFC 8915	-	Protocol Security for the Network Time Protocol, September 2020, http://tools.ietf.org/rfc/rfc8915	-	-



IEC 62351-7

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INTERNATIONAL STANDARD

**Power systems management and associated information exchange - Data and communications security -
Part 7: Network and System Management (NSM) data object models**

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**Power systems management and associated information exchange -
Data and communications security -
Part 7: Network and System Management (NSM) data object models**

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This edition of IEC 62351-7 cancels and replaces IEC 62351-7 published in 2017. This new edition constitutes a technical revision and includes the following significant technical changes with respect to IEC 62351-7:

- a) Reviewed and enriched the NSM object data model;
- b) UML model adopted for NSM objects description;
- c) SNMP protocol MIBs translation included as Code Components.