# IEC 62351-9

Edition 2.0 2023-06

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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## Power systems management and associated information exchange – Data and communications security – Part 9: Cyber security key management for power system equipment

## Gestion des systèmes de puissance et échanges d'informations associés – Sécurité des communications et des données – Partie 9: Gestion de clé de cybersécurité des équipements de système de puissance



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# POWER SYSTEMS MANAGEMENT AND ASSOCIATED INFORMATION EXCHANGE – DATA AND COMMUNICATIONS SECURITY –

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IEC 62351-9 has been prepared by WG15: Data and Communication Security, of IEC technical committee TC57: Power systems management and associated information exchange. It is an International Standard.

This second edition cancels and replaces the first edition published in 2017. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

a) Certificate components and verification of the certificate components have been added;
b) GDOI has been updated to include findings from interop tests;
c) GDOI operation considerations have been added;
d) GDOI support for PTP (IEEE 1588) support has been added as specified by IEC/IEEE 61850-9-3 Power Profile;
e) Cyber security event logging has been added as well as the mapping to IEC 62351-14;

f) Annex B with background on utilized cryptographic algorithms and mechanisms has been added.

The text of this International Standard is based on the following documents:

| Draft | Report on voting |
|---|---|
| 57/2579/FDIS | 57/2594/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 International Standard 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. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

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