

INTERNATIONAL STANDARD



**Power systems management and associated information exchange –
Data and communication security –
Part 6: Security for IEC 61850**



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IEC Central Office
3, rue de Varembe
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
info@iec.ch
www.iec.ch

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**POWER SYSTEMS MANAGEMENT AND ASSOCIATED INFORMATION
EXCHANGE – DATA AND COMMUNICATION SECURITY –****Part 6: Security for IEC 61850**

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International Standard IEC 62351-6 has been prepared by IEC technical committee 57: Power systems management and associated information exchange.

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

FDIS	Report on voting
57/2234/FDIS	57/2258/RVD

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

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 62351 series, published under the general title *Power systems management and associated information exchange – Data and communications security*, 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 "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
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POWER SYSTEMS MANAGEMENT AND ASSOCIATED INFORMATION EXCHANGE – DATA AND COMMUNICATION SECURITY –

Part 6: Security for IEC 61850

1 Scope and object

1.1 Scope

This part of IEC 62351 specifies messages, procedures, and algorithms for securing the operation of all protocols based on or derived from the IEC 61850 series. This document applies to at least those protocols listed in Table 1.

Table 1 – Scope of application to standards

Number	Name
IEC 61850-8-1	Communication networks and systems for power utility automation – Part 8-1: Specific communication service mapping (SCSM) – Mappings to MMS (ISO/IEC 9506-1 and ISO/IEC 9506-2) and to ISO/IEC 8802-3
IEC 61850-8-2	Communication networks and systems for power utility automation – Part 8-2: Specific communication service mapping (SCSM) – Mapping to Extensible Messaging Presence Protocol (XMPP)
IEC 61850-9-2	Communication networks and systems for power utility automation – Part 9-2: Specific communication service mapping (SCSM) – Sampled values over ISO/IEC 8802-3
IEC 61850-6	Communication networks and systems for power utility automation – Part 6: Configuration description language for communication in power utility automation systems related to IEDs

The initial audience for this document is intended to be the members of the working groups developing or making use of the protocols listed in Table 1. For the measures described in this specification to take effect, they must be accepted and referenced by the specifications for the protocols themselves. This document is written to enable that process.

The subsequent audience for this document is intended to be the developers of products that implement these protocols.

Portions of this document may also be of use to managers and executives in order to understand the purpose and requirements of the work.

1.2 Namespace name and version

This new clause is mandatory for any IEC 61850 namespace (as defined by part 7-1 of IEC 61850 Edition 2).

The parameters which identify this new release of this namespace are:

- Namespace version: 2020
- Namespace revision: A
- Namespace name: “IEC 62351-6:2020A”
- Namespace release: 1

The table below provides an overview of all published versions of this namespace.