

INTERNATIONAL STANDARD



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



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CONTENTS

FOREWORD.....	4
1 Scope and object.....	6
1.1 Scope	6
1.2 Namespace name and version	6
1.3 Code Component distribution	7
2 Normative references	7
3 Terms, definitions and abbreviated terms	8
3.1 Terms and definitions.....	8
3.2 Abbreviated terms.....	8
4 Security issues addressed by this document.....	9
4.1 Operational issues affecting choice of security options	9
4.2 Security threats countered	9
4.3 Attack methods countered.....	9
5 Correlation of IEC 61850 parts and IEC 62351 parts.....	9
5.1 General.....	9
5.2 IEC 61850-8-1 Profile for Client/Server communications	10
5.2.1 General	10
5.2.2 Control centre to substation.....	11
5.2.3 Substation communications	11
5.3 IEC 61850 security for profiles using VLAID.....	11
5.4 IEC 61850-8-2 for Client/Server communications	11
5.5 Using OriginatorID for Client/Server Service	11
6 Multicast Association Protocols	12
6.1 General.....	12
6.2 Replay Protection	12
6.2.1 GOOSE replay protection	12
6.2.2 Sampled Value replay protection	16
7 Security for SNTP.....	19
8 Layer 2 security for profiles for IEC 61850-8-1 GOOSE and IEC 61850-9-2 Sampled Value	20
8.1 Overview and thertype (informative)	20
8.2 Extended PDU	20
8.2.1 General format of extended PDU	20
8.2.2 Format of extension octets.....	21
9 Substation configuration language extensions	25
9.1 Service capability.....	25
9.1.1 Access Point support security for GOOSE Publisher.....	25
9.1.2 Access Point support security for SV Publisher.....	25
9.1.3 Access Point support security for GOOSE and SMV subscriber	25
9.1.4 Server Access Point support security for TPAA.....	26
9.1.5 Client Access Point support security for TPAA.....	26
9.2 Publish with security enabled.....	26
9.2.1 GOOSE	26
9.2.2 SMV	26
9.2.3 Key Policy and Management.....	27
9.3 Use of Simulation.....	27

10	Extension of LGOS and LSVS	27
11	Conformance	27
11.1	General conformance	27
11.2	Conformance for implementations claiming IEC 61850-8-1 ISO 9506 profile security	28
11.2.1	General	28
11.2.2	IEC 62351-4 TLS Conformity for ISO-9506 Client/Server Profile using ACSE Authentication	29
11.3	Conformance for implementations claiming VLAN profile security	29
11.4	Conformance for implementations claiming SNTP profile security	32
	Bibliography	33
	Figure 1 – MMS Security Profiles	10
	Figure 2 – Replay Protection State Machine for GOOSE	13
	Figure 3 – Replay Protection State Machine for SV	17
	Figure 4 – General format of extended PDU	20
	Figure 5 – Definition of Reserved 1	20
	Figure 6 – Calculated MAC Domain	22
	Figure 7 – AES-GCM application on the example of a L2 GOOSE/SV packet	23
	Table 1 – Scope of application to standards	6
	Table 2 – Extract from IEC 61850-9-2 (Informative)	16
	Table 3 – Extension of the LGOS class	27
	Table 4 – Extension of the LSVS class	27
	Table 5 – Conformance table	28
	Table 6 – PICS for IEC 61850-8-1 ISO 9506 profile	28
	Table 7 – PICS for TLS IEC 61850-8-1 Client/Server using ACSE Authentication	29
	Table 8 – PICS for VLAN profiles	30
	Table 9 – IEC 61850-8-1 L2 GOOSE Security	30
	Table 10 – IEC 61850-9-2 L2 SMV Security	31
	Table 11 – IEC 61850-8-1 Routable GOOSE	31
	Table 12 – IEC 61850-9-2 Routable SMV	32
	Table 13 – PICS for SNTP profiles	32

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.