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Edition 2.0 2023-04
REDLINE VERSION

INTERNATIONAL STANDARD

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Field device integration (FDI)® – Part 150-1: Profiles – ISA100 ~~WIRELESS~~



IEC 62769-150-1:2023-04 RLV(en)



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FIELD DEVICE INTEGRATION (FDI®) –

Part 150-1: Profiles – ISA100 ~~WIRELESS~~

FOREWORD

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This redline version of the official IEC Standard allows the user to identify the changes made to the previous edition IEC 62769-150-1:2021. A vertical bar appears in the margin wherever a change has been made. Additions are in green text, deletions are in strikethrough red text.

IEC 62769-150-1 has been prepared by subcommittee 65E: Devices and integration in enterprise systems, of IEC technical committee 65: Industrial-process measurement, control and automation. It is an International Standard.

This second edition cancels and replaces the first edition published in 2021. This edition constitutes a technical revision.

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

a) added namespace to Annex A.

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

Draft	Report on voting
65E/866/CDV	65E/923/RVC

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/standardsdev/publications.

A list of all parts in the IEC 62769 series, published under the general title *Field device integration (FDI®)*, 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- withdrawn,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
- amended.

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FIELD DEVICE INTEGRATION (FDI®) –

Part 150-1: Profiles – ISA100 ~~WIRELESS~~

1 Scope

This part of IEC 62769 specifies an FDI®[1] profile of IEC 62769 for IEC 62734 (ISA100 ~~WIRELESS~~.11a)[2].

2 Normative references

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.

IEC 62734:2014*: Industrial networks – Wireless communication network and communication profiles – ISA 100.11a*

IEC 61804 (all parts), *Devices and integration in enterprise systems – Function blocks (FB) for process control and electronic device description language (EDDL)*

IEC TR 62541-2, *OPC unified architecture – Part 2: Security Model*

~~*IEC 62541-6, OPC unified architecture – Part 6: Mappings*~~

IEC 62541-100:2015, *OPC unified architecture – Part 100: Device Interface*

IEC 62734:2014*, Industrial networks – Wireless communication network and communication profiles – ISA 100.11a*

~~*IEC 62769-2, Field Device Integration (FDI) – Part 2: FDI Client*~~

IEC 62769-4, *Field device integration (FDI®) – Part 4: FDI® Packages*

IEC 62769-5, *Field device integration (FDI®) – Part 5: ~~FDI~~ Information Model*

IEC 62769-6, *Field device integration (FDI®) – Part 6: ~~FDI~~ Technology Mapping*

IEC 62769-7, *Field device integration (FDI®) – Part 7: ~~FDI~~ Communication devices*

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2 ISA100 WIRELESS™ is a trade name of the non-profit consortium Wireless Compliance Institute. This information is given for the convenience of users of this standard and does not constitute an endorsement by IEC of the trademark holder or any of its products. Compliance does not require use of the trade name. Use of the trade name requires permission of the trade name holder.

3 Terms, definitions, abbreviated terms and acronyms

3.1 Terms and definitions

~~No terms and definitions are listed in this document.~~

For the purposes of this document, the terms and definitions given in, IEC 61804 (all parts), IEC TR 62541-2, IEC 62541-100, IEC 62734, IEC 62769-4, IEC 62769-5, IEC 62769-7 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

3.1.1
Object
basic entity which defines standardized behavior and features in a ISA100 WIRELESS device

3.2 Abbreviated terms and acronyms

For the purposes of this specification, the following abbreviations apply.

EDD	Electronic Device Description
EDDL	Electronic Device Description Language (see IEC 61804 (all parts))
FDI®	Field Device Integration
FCG	FieldComm Group
XML	Extensible markup language (see REC-xml-20081126)
CFF	Common file format
UAP	User Application Process
UAPMO	User Application Process Management Object
DMO	Device Management Object
IM	Information Model
SM	System Manager
WCI	Wireless Compliance Institute
CP	Communication profile

4 Conventions

4.1 EDDL syntax

This part of IEC 62769 specifies content for the EDD component that is part of FDI® Communication Packages. The specification content using EDDL syntax uses the font `Courier New`. The EDDL syntax is used for method signature, variable, data structure and component declarations.

4.2 XML syntax

XML syntax examples use font `Courier New`. The XML syntax is used to describe XML document schema.

Example: `<xs:simpleType name="ExampleType">`