

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

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**Field device integration (FDI®) –  
Part 100: Profiles – Generic Protocols**

**Intégration des appareils de terrain (FDI®) –  
Partie 100: Profils – Protocoles Génériques**





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Part 100: Profiles – Generic Protocols**

**Intégration des appareils de terrain (FDI®) –  
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INTERNATIONAL  
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## CONTENTS

|  |    |
|--|----|
| FOREWORD.....  | 5  |
| 1 Scope.....   | 7  |
| 2 Normative references .....                               | 7  |
| 3 Terms, definitions, abbreviated terms and acronyms ..... | 8  |
| 3.1 Terms and definitions.....                             | 8  |
| 3.2 Abbreviated terms and acronyms .....                   | 8  |
| 4 Conventions .....  | 8  |
| 4.1 EDDL syntax.....                                       | 8  |
| 4.2 XML syntax.....  | 8  |
| 4.3 Capitalizations .....                                  | 8  |
| 5 Profile for Generic Protocols.....                       | 9  |
| 5.1 General.....   | 9  |
| 5.2 Catalog profile .....                                  | 9  |
| 5.2.1 Protocol support file.....                           | 9  |
| 5.2.2 CommunicationProfile definition.....                 | 9  |
| 5.2.3 Profile device.....                                  | 10 |
| 5.2.4 Protocol version information .....                   | 10 |
| 5.3 Associating a Package with a device.....               | 10 |
| 5.3.1 Device type identification mapping.....              | 10 |
| 5.3.2 Device type revision mapping .....                   | 11 |
| 5.4 Information Model mapping.....                         | 12 |
| 5.4.1 ProtocolType definition .....                        | 12 |
| 5.4.2 DeviceType mapping .....                             | 12 |
| 5.4.3 FunctionalGroup identification definition .....      | 12 |
| 5.5 Topology elements.....                                 | 13 |
| 5.5.1 ConnectionPoint definition .....                     | 13 |
| 5.5.2 Communication Device definition .....                | 14 |
| 5.5.3 Communication service provider definition .....      | 15 |
| 5.5.4 Network definition.....                              | 16 |
| 5.6 Methods.....   | 16 |
| 5.6.1 Methods for FDI® Communication Servers .....         | 16 |
| 5.6.2 Methods for Gateways .....                           | 20 |
| Annex A (normative) Topology scan result schema .....      | 29 |
| A.1 General.....   | 29 |
| A.2 Network .....  | 29 |
| A.3 GenericNetworkT .....                                  | 29 |
| A.4 GenericConnectionPointT .....                          | 30 |
| A.5 GenericIdentificationT .....                           | 30 |
| A.6 GenericAddressT .....                                  | 31 |
| A.7 GenericIdentificationExtendedT .....                   | 31 |
| Annex B (normative) Transfer service parameters.....       | 32 |
| B.1 General.....   | 32 |
| B.2 sendData .....   | 32 |
| B.3 receiveData .....                                      | 32 |
| B.4 TransferSendDataT.....                                 | 32 |
| B.5 EddDataTypeInfoListT .....                             | 33 |

|  |                              |    |
|--|------------------------------|----|
| B.6  | EddDataTypeInfoT .....       | 33 |
| B.7  | EddDataTypeT .....           | 34 |
| B.8  | TransferResultDataT .....    | 35 |
| Annex C (normative) Protocol specific definitions .....                |                              | 36 |
| C.1  | General .....                | 36 |
| C.2  | Header .....                 | 36 |
| C.3  | ProtocolIdentifier .....     | 36 |
| C.4  | Address .....                | 36 |
| C.5  | Manufacturer .....           | 37 |
| C.6  | DeviceModel .....            | 37 |
| C.7  | DeviceRevision .....         | 37 |
| C.8  | SerialNumber .....           | 37 |
| C.9  | Tag .....                    | 37 |
| C.10   | ProfileId .....              | 38 |
| C.11   | Version .....                | 38 |
| C.12   | ProtocolSupportFile .....    | 38 |
| C.13   | ExtendedDeviceRevision ..... | 38 |
| Bibliography .....   |                              | 39 |
| Table 1 – ProtocolSupportFile for FDI® Device Packages .....           |                              | 9  |
| Table 2 – Catalog values for profile devices .....                     |                              | 10 |
| Table 3 – Device identification information mapping .....              |                              | 11 |
| Table 4 – Device revision information mapping .....                    |                              | 11 |
| Table 5 – Protocol type GenericProtocol .....                          |                              | 12 |
| Table 6 – Inherited DeviceType property mapping .....                  |                              | 12 |
| Table 7 – Generic Protocol Device Type identification attributes ..... |                              | 13 |
| Table 8 – ConnectionPoint type for Generic Protocols .....             |                              | 13 |
| Table 9 – Method Connect arguments .....                               |                              | 17 |
| Table 10 – Method Disconnect arguments .....                           |                              | 17 |
| Table 11 – Method Transfer arguments .....                             |                              | 18 |
| Table 12 – EddDataTypeInfo DataType Structure .....                    |                              | 19 |
| Table 13 – EddDataType Enum Values .....                               |                              | 19 |
| Table 14 – Method SetAddress arguments .....                           |                              | 20 |
| Table 15 – Connect service arguments .....                             |                              | 22 |
| Table 16 – Method Transfer arguments .....                             |                              | 24 |
| Table 17 – Method SetAddress arguments .....                           |                              | 27 |
| Table A.1 – Elements of GenericNetworkT .....                          |                              | 29 |
| Table A.2 – Attributes of GenericConnectionPointT .....                |                              | 30 |
| Table A.3 – Elements of GenericConnectionPointT .....                  |                              | 30 |
| Table A.4 – Attributes of GenericIdentificationT .....                 |                              | 31 |
| Table A.5 – Attributes of GenericIdentificationExtendedT .....         |                              | 31 |
| Table B.1 – Attributes of TransferSendDataT .....                      |                              | 33 |
| Table B.2 – Elements of TransferSendDataT .....                        |                              | 33 |
| Table B.3 – Elements of EddDataTypeInfoListT .....                     |                              | 33 |
| Table B.4 – Attributes of EddDataTypeInfoT .....                       |                              | 34 |

Table B.5 – Enumerations of EddDataTypeT ..... 35  
Table B.6 – Attributes of TransferResultDataT ..... 35

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**FIELD DEVICE INTEGRATION (FDI®) –****Part 100: Profiles – Generic Protocols**

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IEC 62769-100 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 2020. This edition constitutes a technical revision.

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

- a) added ExtendedDeviceRevision implementing the FDI® Version scheme and the method ScanExtended.

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

| Draft       | Report on voting |
|-------------|------------------|
| 65E/865/CDV | 65E/922/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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

A list of all parts in the IEC 62769 series, published under the general title *Field device integration (FDI)*<sup>®</sup>, 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.

## FIELD DEVICE INTEGRATION (FDI®) –

### Part 100: Profiles – Generic Protocols

#### 1 Scope

This part of IEC 62769 specifies an FDI®<sup>1</sup> profile of IEC 62769 for Generic Protocols. That means that all interfaces are defined and a host can add support for more protocols without changing its implementation. Nevertheless, there are some protocol specific definitions (PSD) that need to be specified per protocol using this profile. Annex C specifies what PSD need to be defined per protocol so that FDI® Device Packages, FDI® Communication Packages for Gateways and FDI® Communication Servers, FDI® Communication Server, Gateways and Devices supporting such a protocol can work together in a host not aware about the specific protocol.

NOTE A host not using FDI® Communication Server but a proprietary mechanism for communication needs to define its own means to deal with this profile to support several protocols without changing its implementation. This is specific to the proprietary way how the communication driver is bound to the host.

#### 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 61804 (all parts), *Devices and integration in enterprise systems – Function blocks (FB) for process control and Electronic Device Description Language (EDDL)*

IEC 61804-3, *Devices and integration in enterprise systems – Function blocks (FB) for process control and electronic device description language (EDDL) – Part 3: EDDL syntax and semantics*

IEC 62541-100:2015, *OPC Unified Architecture – Part 100: Device Interface*

IEC 62769-1, *Field Device Integration (FDI®) – Part 1: Overview*

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

IEC 62769-3, *Field Device Integration (FDI®) – Part 3: Server*

IEC 62769-4, *Field Device Integration (FDI®) – Part 4: FDI® Packages*

IEC 62769-5, *Field Device Integration (FDI®) – Part 5: FDI® Information Model*

IEC 62769-7, *Field Device Integration (FDI®) – Part 7: Communication Devices*

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