

Field Device Integration (FDI) - Part 4: FDI Packages

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
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**Field Device Integration (FDI) - Part 4: FDI Packages
(IEC 62769-4:2021)**

Intégration des appareils de terrain (FDI) - Partie 4:
Paquetages FDI
(IEC 62769-4:2021)

Feldgeräteintegration (FDI) - Teil 4: FDI-Packages
(IEC 62769-4:2021)

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European foreword

The text of document 65E/761/FDIS, future edition 2 of IEC 62769-4, prepared by SC 65E "Devices and integration in enterprise systems" of IEC/TC 65 "Industrial-process measurement, control and automation" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62769-4:2021.

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IEC 61784-1	NOTE	Harmonized as EN IEC 61784-1
IEC 61784-2	NOTE	Harmonized as EN IEC 61784-2
IEC 62591	NOTE	Harmonized as EN 62591
IEC 62769-2	NOTE	Harmonized as EN 62769-2
IEC 62769-3	NOTE	Harmonized as EN 62769-3
IEC 62769-5	NOTE	Harmonized as EN 62769-5
IEC 62769-7	NOTE	Harmonized as EN 62769-7

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61804		series Function blocks (FB) for process control and electronic device description language (EDDL)	EN IEC 61804 series	
IEC 61804-5	2015	Function blocks (FB) for process control and electronic device description language (EDDL) - Part 5: EDDL Built-in library	EN 61804-5	2015
IEC 62769-1	-	Field Device Integration (FDI) - Part 1: Overview	EN 62769-1	-
IEC 62769-6	-	Field Device Integration (FDI) - Part 6: Technology Mapping	EN 62769-6	-
ISO/IEC 29500-2	2016	Information technology - Document - description and processing languages - Office Open XML File Formats - Part 2: Open Packaging Conventions		-
ISO 639-1	-	Codes for the representation of names of languages - Part 1: Alpha-2 code		-
ISO 32000-1	-	Document management - Portable document format - Part 1: PDF 1.7		-
Extensible Markup Language (XML) 1.0	-	W3C Recommendation, available at http://www.w3.org/TR/REC-xml/		-
XML Schema Definition Language (XSD) 1.1	-	W3C Recommendation, available at http://www.w3.org/TR/xmlschema11-1/		-
ETSI EN 319 132-1	-	Electronic Signatures and Infrastructures (ESI); XAdES digital signatures; Part 1: Building blocks and XAdES baseline signatures		-
ETSI TS 101 733	-	Electronic Signatures and Infrastructures (ESI); CMS Advanced Electronic Signatures (CAAdES)		-
FIPS 140-2	-	Security Requirements for Cryptographic Modules		-

INTERNATIONAL STANDARD

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**Field device integration (FDI) –
Part 4: FDI Packages**

**Intégration des appareils de terrain (FDI) –
Partie 4: Paquetages FDI**



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INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Field device integration (FDI) –
Part 4: FDI Packages**

**Intégration des appareils de terrain (FDI) –
Partie 4: Paquetages FDI**

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CONTENTS

FOREWORD	7
INTRODUCTION	9
1 Scope	10
2 Normative references	10
3 Terms, definitions, abbreviated terms and conventions	11
3.1 Terms and definitions	11
3.2 Abbreviated terms	12
3.3 Conventions	12
4 FDI Package Model	12
4.1 Overview	12
4.2 FDI Package Elements	14
4.2.1 Package Catalog	14
4.2.2 Electronic Device Description	14
4.2.3 User Interface Plug-in	14
4.2.4 Attachment	16
4.3 FDI Package Types	16
4.3.1 FDI Device Package	16
4.3.2 FDI Communication Package	17
4.3.3 FDI UIP Package	18
4.3.4 FDI Profile Package	18
5 FDI Package implementation	20
5.1 Packaging technology	20
5.2 Use of Open Packaging Conventions	20
5.2.1 Unknown parts	20
5.2.2 Invalid parts	20
5.2.3 Unknown relationships	20
5.2.4 Interleaving	20
5.2.5 Core properties	20
5.2.6 Thumbnails	20
5.2.7 Digital signatures	20
5.3 FDI Package Parts	21
5.3.1 Package Catalog	21
5.3.2 Electronic Device Description	22
5.3.3 User Interface Plug-in	22
5.3.4 Attachments	25
6 FDI Package Versioning	27
6.1 Version scheme	27
6.2 Versioned elements	28
6.3 Version Hierarchy	28
6.4 UIP Compatibility	30
7 Digital Signatures and Registration Certificates	31
7.1 Signed Elements and Certification documents	31
7.2 Signing mechanism	32
7.3 FDI Package Originator, FDI Registration Authority	33
7.4 FDI Host behavior	33

Annex A (normative) File name conventions	34
A.1 Identification	34
A.2 FDI Package filename convention	34
Annex B (informative) FDI Package Creation	35
B.1 General	35
B.2 Tools and Components	35
B.3 Development	35
Annex C (informative) FDI Package deployment	38
C.1 General	38
C.2 Scenarios	38
Annex D (informative) Example	41
D.1 General	41
D.2 Open Packaging Conventions	41
D.3 Creation and Handling of FDI Packages	44
D.4 FDI Device Package Example	44
Annex E (normative) Schema	52
E.1 Target Namespace	52
E.2 Catalog	52
E.3 ClassificationIdT	52
E.4 CommunicationProfileT	52
E.5 CommunicationRoleT	52
E.6 CommunicationServerT	53
E.7 DeviceTypeT	53
E.8 FdiRegistrationCert	54
E.9 FdiRegistrationCertT	54
E.10 InterfaceT	55
E.11 ListOfCommunicationProfilesT	56
E.12 ListOfDeviceImagesT	57
E.13 ListOfDeviceTypesT	57
E.14 ListOfDocumentsT	57
E.15 ListOfInterfacesT	58
E.16 ListOfLocalizedStringsT	58
E.17 ListOfProtocolSupportFilesT	58
E.18 ListOfRegDeviceTypesT	59
E.19 ListOfRegistrationsT	59
E.20 ListOfSupportedDeviceRevisionsT	60
E.21 ListOfSupportedUipsT	60
E.22 ListOfUipVariantsT	60
E.23 LocalizedStringT	61
E.24 PackageT	61
E.25 PackageTypeT	62
E.26 PlatformT	63
E.27 RegDeviceTypeT	63
E.28 RegistrationT	64
E.29 RelationshipIdT	64
E.30 String256T	65
E.31 SupportedUipT	65
E.32 UipCatalog	65

E.33	UipStyleT	66
E.34	UipT	66
E.35	UipVariantT	67
E.36	UuidT	67
E.37	VersionSupportedT	68
E.38	VersionT	68
Annex F (normative) Communication protocol specific profiles		69
Annex G (informative) FDI Package life cycle use cases		70
G.1	New Device Type	70
G.2	Replacement of Device	70
G.3	Firmware enhancements	70
G.4	FDI Package life cycle polices	71
G.5	FDI Package update	71
G.6	FDI Package upgrade	71
G.7	FDI Package replacement/exchange	71
G.8	FDI Package uninstallation	71
Annex H (normative) Health Status Method		73
H.1	Background	73
H.2	Device Health Status model	73
H.3	Standard EDD Method signature	73
H.4	Performance considerations	74
Annex I (normative) Modular devices		75
I.1	Concept	75
I.2	EDDL usage profile	75
I.3	Processing recommendations	76
Annex J (normative) FDI Communication Packages for FDI Communication Server		78
J.1	General	78
J.2	Protocol Support File	78
J.3	CommunicationProfile definition	78
J.4	Profile Device	78
J.5	Protocol version information	78
J.6	Associating a Package with an FDI Communication Server	78
J.7	Handling of Catalog elements	78
J.8	Example	79
Annex K (normative) FDI Profile for EDDs		80
K.1	Overview	80
K.2	Entry Point to Online handling	80
K.3	Entry Point to Offline handling	80
K.4	Upload and Download	80
K.5	Initial Data Set	80
K.6	Method GetHealthStatus	80
K.7	Actions	80
K.8	Shared files	81
Bibliography		82
Figure 1 – FDI architecture diagram		10
Figure 2 – FDI Package Model		13
Figure 3 – Architectural mapping		13

Figure 4 – User Interface Plug-in Reference Model	15
Figure 5 – Multiple FDI Packages referencing a common UIP	16
Figure 6 – FDI Device Package.....	17
Figure 7 – FDI Communication Package	18
Figure 8 – FDI UIP Package	18
Figure 9 – FDI Profile Package	19
Figure 10 – Device Function and Parameter sets (type- and profile-specific)	19
Figure 11 – Catalog Element.....	21
Figure 12 – User Interface Plug-in	23
Figure 13 – UIP Catalog	24
Figure 14 – FDI Registration Certificate	27
Figure 15 – Version Hierarchy.....	29
Figure 16 – UIP Version Support concept	31
Figure 17 – FDI Package signing	32
Figure B.1 – Tools used for FDI Package development	36
Figure D.1 – Parts and relationships in a package	41
Figure D.2 – Creating an FDI Package with the content files	44
Figure D.3 – FDI Device Package Example.....	45
Figure D.4 – User Interface Plug-in Example (fancytrend.uip)	48
Figure I.1 – Modular device's package	75
Table 1 – UIP Platform.....	15
Table 2 – Package Catalog Part.....	21
Table 3 – EDD part	22
Table 4 – User Interface Plug-in part	23
Table 5 – UIP Catalog Part	24
Table 6 – UIP Variant Part	25
Table 7 – Image Part	25
Table 8 – Documentation Part.....	26
Table 9 – Protocol Support File Part	26
Table 10 – FDI Registration Certificate Part.....	26
Table 11 – Versioned Elements	28
Table 12 – Influence on FDI Package Version.....	29
Table A.1 – FDI Package Naming Convention.....	34
Table D.1 – Examples of standard MIME media types that can be used in FDI packages	43
Table D.2 – Examples of FDI custom MIME media types that can be used in FDI Packages.....	43
Table E.1 – Enumerations of CommunicationRoleT.....	53
Table E.2 – Elements of CommunicationServerT	53
Table E.3 – Elements of DeviceTypeT	54
Table E.4 – Elements of FdiRegistrationCertT.....	55
Table E.5 – Elements of InterfaceT	56
Table E.6 – Elements of ListOfCommunicationProfilesT	56

Table E.7 – Elements of ListOfDeviceImagesT	57
Table E.8 – Elements of ListOfDeviceTypesT	57
Table E.9 – Elements of ListOfDocumentsT	58
Table E.10 – Elements of ListOfInterfacesT	58
Table E.11 – Elements of ListOfLocalizedStringsT	58
Table E.12 – Elements of ListOfProtocolSupportFilesT	59
Table E.13 – Elements of ListOfRegDeviceTypesT	59
Table E.14 – Elements of ListOfRegistrationsT	60
Table E.15 – Elements of ListOfSupportedDeviceRevisionsT	60
Table E.16 – Elements of ListOfSupportedUipsT	60
Table E.17 – Elements of ListOfUipVariantsT	61
Table E.18 – Attributes of LocalizedStringT	61
Table E.19 – Elements of PackageT	62
Table E.20 – Enumerations of PackageTypeT	63
Table E.21 – Enumerations of PlatformT	63
Table E.22 – Elements of RegDeviceTypeT	64
Table E.23 – Elements of RegistrationT	64
Table E.24 – Elements of SupportedUipT	65
Table E.25 – Enumerations of UipStyleT	66
Table E.26 – Elements of UipT	67
Table E.27 – Elements of UipVariantT	67
Table F.1 – Communication protocol interest groups (alphabetical order)	69
Table G.1– Device Replacement Guidelines	70
Table G.2 – Firmware enhancement guidelines	71
Table H.1 – Health Status State	73
Table J.1 – Catalog Mapping	78
Table J.2 – Handling of Catalog elements	78

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FIELD DEVICE INTEGRATION (FDI) –**Part 4: FDI Packages****FOREWORD**

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International Standard IEC 62769-4 has been prepared by subcommittee 65E: Devices and integration in enterprise systems, of IEC technical committee 65: Industrial-process measurement, control and automation.

This second edition cancels and replaces the first edition published in 2015. This edition constitutes a technical revision.

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

- a) support for Package Developers to build EDDs targeted for today's EDD bases system under a single development tool;
- b) digital signature now includes trusted timestamping for long-term validation of FDI Package;
- c) time stamp for device package signature.

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

FDIS	Report on voting
65E/761/FDIS	65E/771/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 in the IEC 62769 series, published under the general title *Field Device Integration (FDI)*, can be found on the IEC website.

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INTRODUCTION

The IEC 62769 series has the general title *Field Device Integration (FDI)* and the following parts:

- Part 1: Overview
- Part 2: FDI Client
- Part 3: FDI Server
- Part 4: FDI Packages
- Part 5: FDI Information Model
- Part 6: FDI Technology Mapping
- Part 7: FDI Communication Devices
- Part 100: Profiles – Generic Protocol Extensions
- Part 101-1: Profiles – Foundation Fieldbus H1
- Part 101-2: Profiles – Foundation Fieldbus HSE
- Part 103-1: Profiles – PROFIBUS
- Part 103-4: Profiles – PROFINET
- Part 109-1: Profiles – HART and WirelessHART
- Part 115-2: Profiles – Protocol-specific Definitions for Modbus RTU
- Part 150-1: Profiles – ISA 100.11a

FIELD DEVICE INTEGRATION (FDI) –

Part 4: FDI Packages

1 Scope

This part of IEC 62769 specifies the FDI Packages. The overall FDI architecture is illustrated in Figure 1. The architectural components that are within the scope of this document have been highlighted in Figure 1.

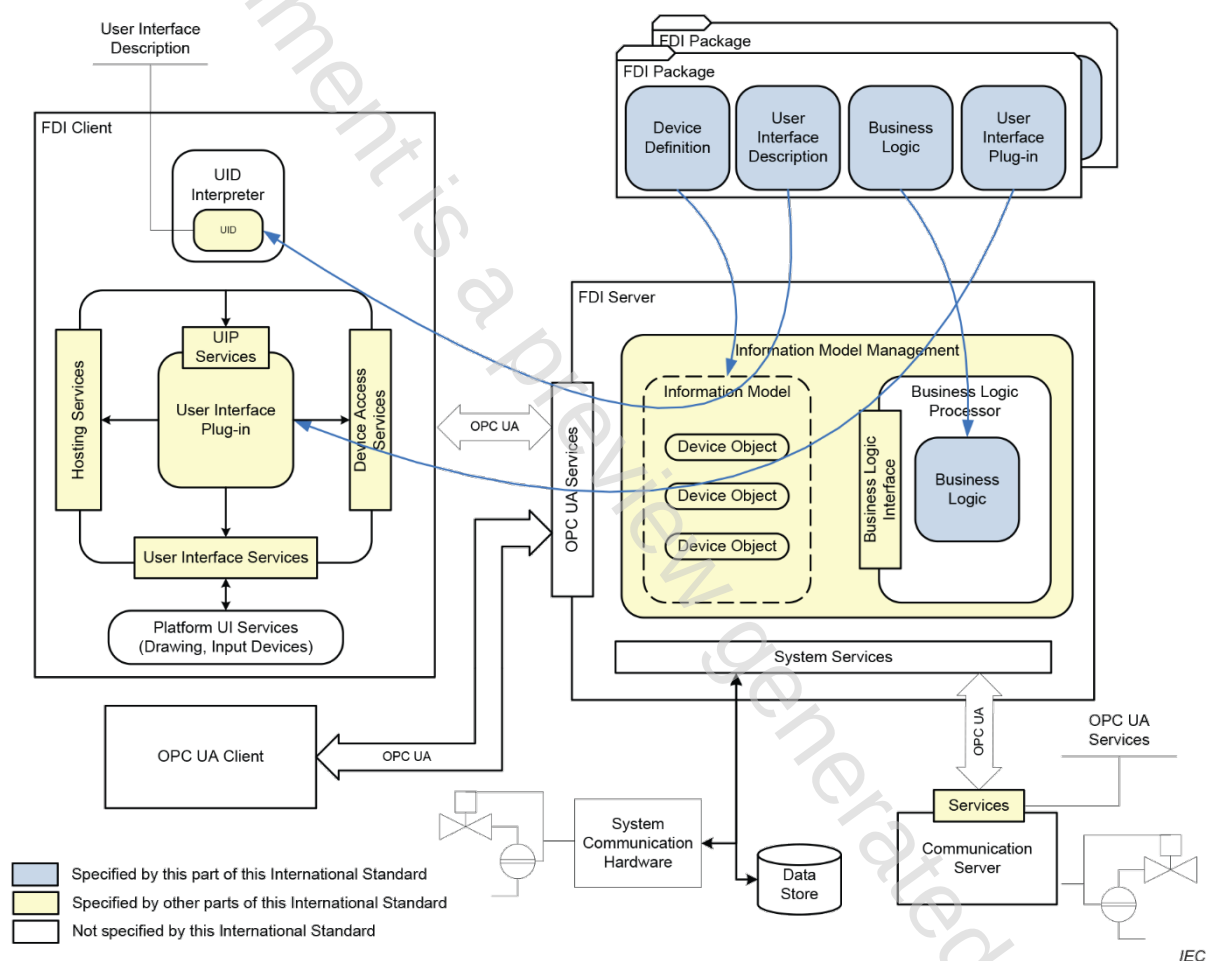


Figure 1 – FDI architecture diagram

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IEC 61804 (all parts), *Function blocks (FB) for process control and electronic device description language (EDDL)*