



# SLOVENSKI STANDARD

## SIST EN 62769-3:2015

01-november-2015

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### Naprave in združevanje v proizvodne sisteme - Vključitev procesne naprave (FDI) - 3. del: Strežnik FDI (IEC 62769-3:2015)

Devices and integration in enterprise systems; Field Device Integration - Part 3: FDI Server (IEC 62769-3:2015)

Feldgeräteintegration (FDI) - Teil 3: FDI-Server (IEC 62769-3:2015)

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Les dispositifs et leur intégration dans les systèmes de l'entreprise; Intégration des appareils de terrain (FDI) - Partie 3: Serveur FDI (IEC 62769-3:2015)

SIST EN 62769-3:2015

Ta slovenski standard je istoveten z: **EN 62769-3:2015**

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#### **ICS:**

25.040.40	Merjenje in krmiljenje industrijskih postopkov	Industrial process measurement and control
35.240.50	Uporabniške rešitve IT v industriji	IT applications in industry

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EUROPEAN STANDARD

**EN 62769-3**

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2015

ICS 25.040.40; 35.100

English Version

**Field Device Integration - Part 3: FDI Server  
(IEC 62769-3:2015)**Intégration des appareils de terrain (FDI) - Partie 3:  
Serveur FDI  
(IEC 62769-3:2015)Feldgeräteintegration (FDI) - Teil 3: FDI-Server  
(IEC 62769-3:2015)

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European Committee for Electrotechnical Standardization  
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Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

**EN 62769-3:2015****European foreword**

The text of document 65E/346/CDV, future edition 1 of IEC 62769-3, 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 62769-3:2015.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2016-03-24
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-06-24

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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 61804-5

NOTE Harmonized as EN 61804-5<sup>1)</sup>

IEC 62769-6

NOTE Harmonized as EN 62769-6

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1) To be published.

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u> series	<u>Title</u>	<u>EN/HD</u>	<u>Year</u> series
IEC 61804		Function Blocks (FB) for process control	EN 61804	
IEC 61804-3	-	Function blocks (FB) for process control and EDDL - Part 3: EDDL specification and communication profiles	-	-
IEC 61804-4	-	Function blocks (FB) for process control -- Part 4: EDD interpretation	-	-
IEC 62541-4	-	OPC Unified Architecture - Part 4: Services	EN 62541-4	-
IEC 62541-7	-	OPC unified architecture - Part 7: Profiles	EN 62541-7	-
IEC 62541	series	OPC unified architecture	EN 62541	series
IEC 62769-1	-	Field device integration (FDI) - Part 1: Overview	-	-
IEC 62769-2	-	Field Device Integration (FDI) - Part 2: FDI - Client	SIST EN 62769-3:2015	-
IEC 62769-4	-	Field Device Integration (FDI) - Part 4: FDI - Packages	EN 62769-4	-
IEC 62769-5	-	Field Device Integration (FDI) - Part 5: FDI - Information Model	-	-
IEC 62769-7	-	Field Device Integration (FDI) - Part 7: FDI - Communication Devices	-	-

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IEC 62769-3

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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



Field Device Integration (FDI) –  
Part 3: FDI Server

STANDARD PREVIEW  
(standards.iteh.ai)

Intégration des appareils de terrain (FDI) –

Partie 3: Serveur FDI

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## FIELD DEVICE INTEGRATION (FDI) –

## Part 3: FDI Server

## FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 62769-3 has been prepared by subcommittee 65E: Devices and integration in enterprise systems, of IEC technical committee 65: Industrial-process measurement, control and automation.

The text of this standard is based on the following documents:

CDV	Report on voting
65E/346/CDV	65E/423/RVC

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

This publication 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.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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## INTRODUCTION

The International Electrotechnical Commission (IEC) draws attention to the fact that it is claimed that compliance with this document may involve the use of patents concerning

- a) method for the Supplying and Installation of Device-Specific Functionalities, see Patent Family DE10357276;
- b) method and device for accessing a functional module of automation system, see Patent Family EP2182418;
- c) methods and apparatus to reduce memory requirements for process control system software applications, see Patent Family US2013232186;
- d) extensible device object model, see Patent Family US12/893,680.

IEC takes no position concerning the evidence, validity and scope of this patent right.

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# FIELD DEVICE INTEGRATION (FDI) –

## Part 3: FDI Server

### 1 Scope

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

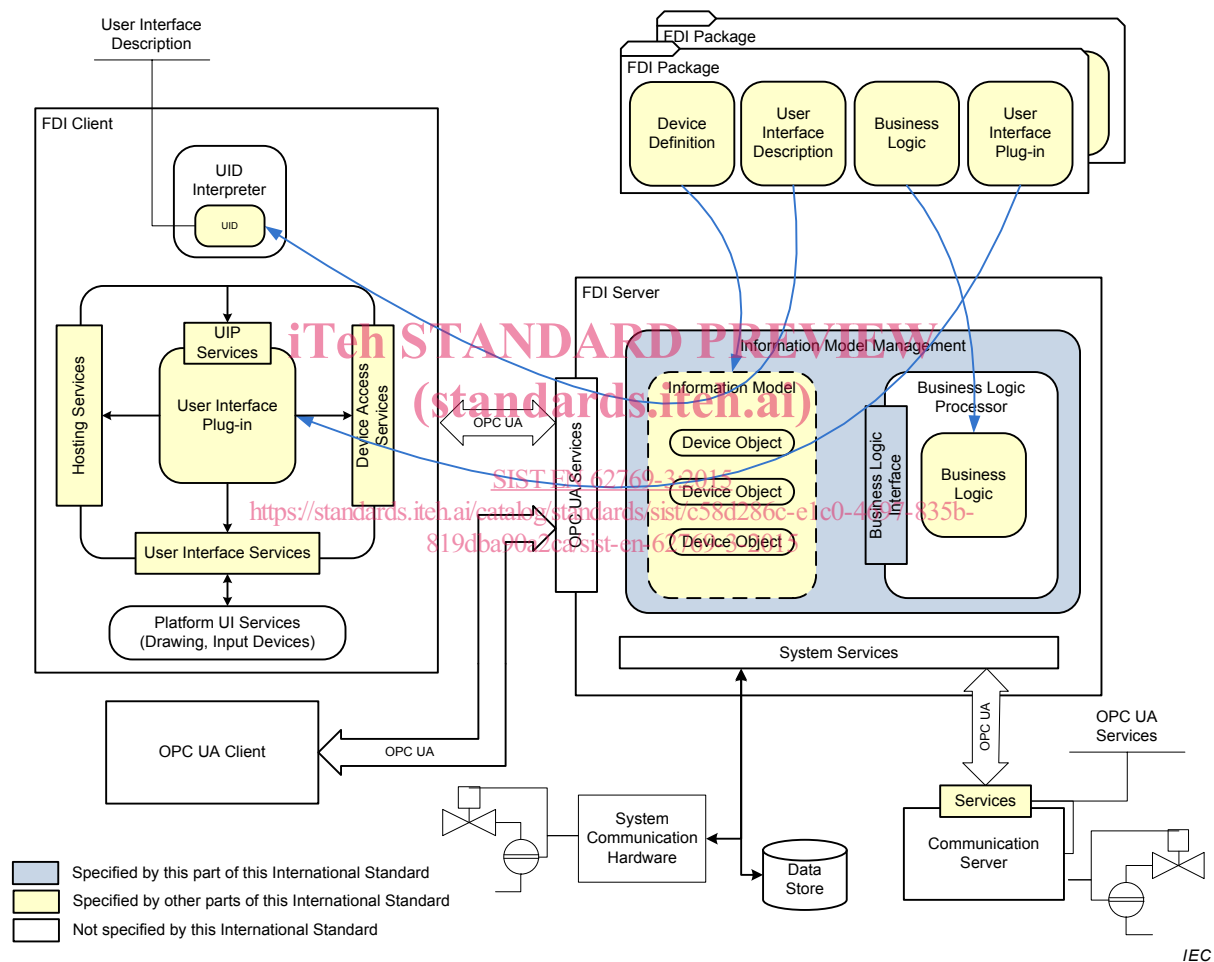


Figure 1 – FDI architecture diagram

### 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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), *Function blocks (FB) for process control and Electronic Device Description Language (EDDL)*

IEC 61804-3<sup>1</sup>, *Function block (FB) for process control and Electronic Device Description Language (EDDL) – Part 3: EDDL syntax and semantics*

IEC 61804-4<sup>2</sup>, *Function blocks (FB) for process control and Electronic Device Description Language (EDDL) – Part 4: EDD interpretation*

IEC 62541 (all parts), *OPC unified architecture*

IEC 62541-4, *OPC unified architecture –Part 4: Services*

IEC 62541-7, *OPC unified architecture – Part 7: Profiles*

IEC 62769-1, *Field Device Integration – Part 1: Overview*

NOTE IEC 62769-1 is technically identical to FDI-2021.

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

NOTE IEC 62769-2 is technically identical to FDI-2022.

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

NOTE IEC 62769-4 is technically identical to FDI-2024.

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

NOTE IEC 62769-5 is technically identical to FDI-2025.

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

NOTE IEC 62769-7 is technically identical to FDI-2027.

### 3 Terms, definitions, abbreviated terms and acronyms

#### 3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 62769-1 as well as the following apply.

##### 3.1.1

##### **Actions Proxy**

internal FDI Server entity that encapsulates all the EDD Methods specified in an EDD Action definition

#### 3.2 Abbreviated terms and acronyms

For the purposes of this document, the abbreviated terms and acronyms given in IEC 62769-1 apply.

### 4 Overview

The structure for an FDI Server is shown in Figure 1.

<sup>1</sup> To be published.

<sup>2</sup> To be published.