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| STN | Zariadenia a integrácia v podnikových systémoch. Integrácia softvérového nástroja. Časť 3: Server FDI. | STN EN 62769-3 18 4012 |
|------------|---|--|

Devices and integration in enterprise systems; Field Device Integration - Part 3: FDI Server

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 11/15

Obsahuje: EN 62769-3:2015, IEC 62769-3:2015

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Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, 2015
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EUROPEAN STANDARD

EN 62769-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2015

ICS 25.040.40; 35.100

English Version

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

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)

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

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Comité Européen de Normalisation Electrotechnique
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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- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-06-24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 ¹⁾ |
| IEC 62769-6 | NOTE | Harmonized as EN 62769-6 |

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.

| <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 | EN 61804 | series |
| 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 | - | - |
| 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: FDI - Communication Devices | - | - |



IEC 62769-3

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INTERNATIONAL STANDARD

NORME INTERNATIONALE



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

**Intégration des appareils de terrain (FDI) –
Partie 3: Serveur FDI**





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INTERNATIONAL STANDARD

NORME INTERNATIONALE



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

**Intégration des appareils de terrain (FDI) –
Partie 3: Serveur FDI**

INTERNATIONAL
ELECTROTECHNICAL
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FIELD DEVICE INTEGRATION (FDI) –

Part 3: FDI Server

FOREWORD

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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.

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- withdrawn,
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INTRODUCTION

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- 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.

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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.

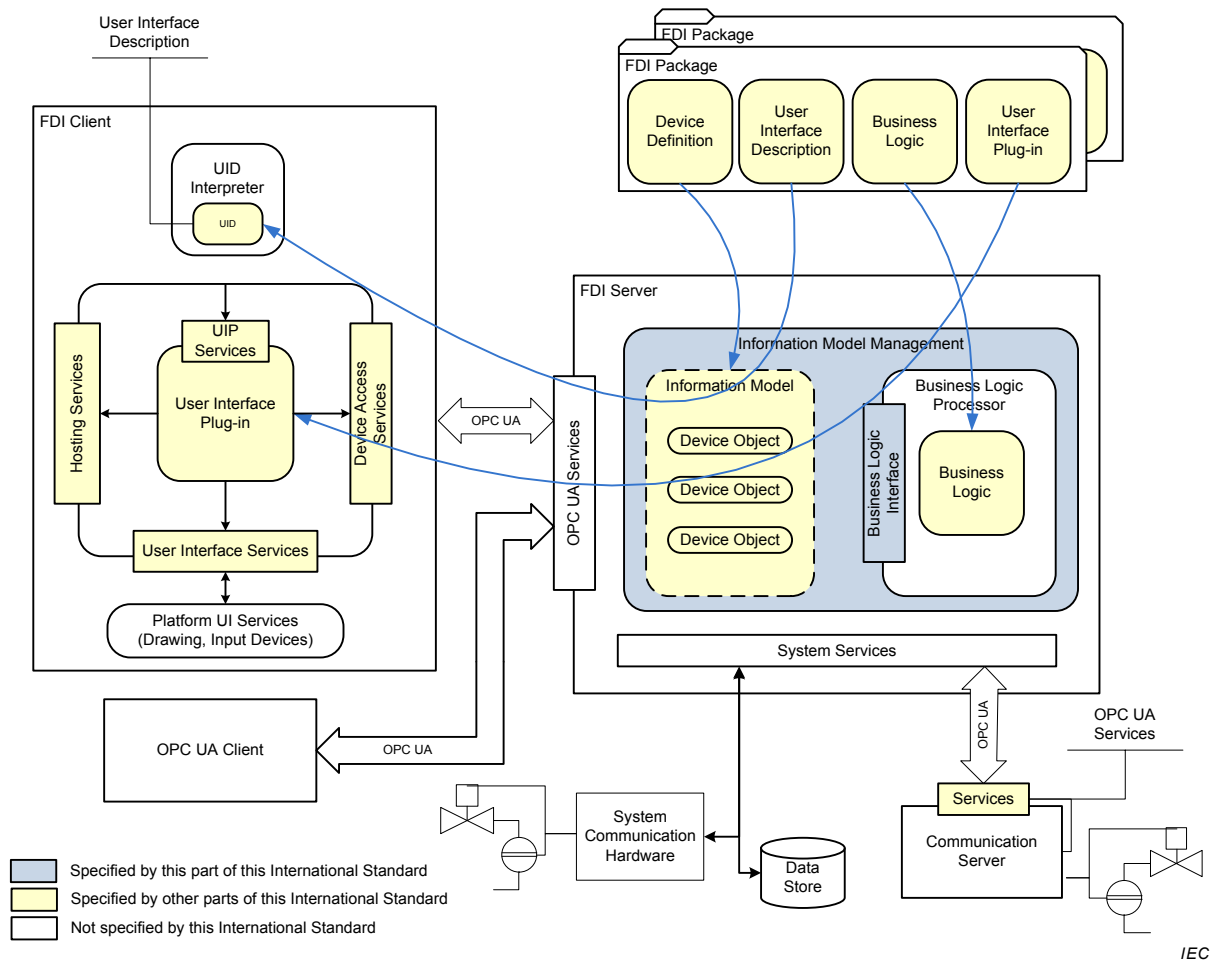


Figure 1 – FDI architecture diagram

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 61804-3¹, *Function block (FB) for process control and Electronic Device Description Language (EDDL) – Part 3: EDDL syntax and semantics*

IEC 61804-4², *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.

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¹ To be published.

² To be published.