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| STN | **Integrácia softvérového nástroja (FDI). Časť 2: Klient FDI.** | **STN EN 62769-2**<br><br>18 4012 |
|---|---|---|

Field Device Integration (FDI) - Part 2: FDI Client

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 62769-2:2015, IEC 62769-2:2015

**121871**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

**EN 62769-2**

June 2015

ICS 25.040.40; 35.100

English Version

# Field Device Integration (FDI) - Part 2: FDI Client (IEC 62769-2:2015)

Intégration des appareils de terrain (FDI) - Partie 2: Client FDI (IEC 62769-2:2015)

Feldgeräteintegration (FDI) - Teil 2: FDI-Client (IEC 62769-2:2015)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

**EN 62769-2:2015**

## European foreword

The text of document 65E/345/CDV, future edition 1 of IEC 62769-2, 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 62769-2:2015.

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) | 2016-03-16 |
| • latest date by which the national standards conflicting with the document have to be withdrawn | (dow) | 2018-06-16 |

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## Endorsement notice

The text of the International Standard IEC 62769-2:2015 was approved by CENELEC as a European Standard without any modification.

# 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.

| Publication | Year | Title | EN/HD | Year |
|---|---|---|---|---|
| IEC 62541-3 | - | OPC unified architecture - Part 3: Address Space Model | EN 62541-3 | - |
| IEC 62541-4 | - | OPC Unified Architecture - Part 4: Services | EN 62541-4 | - |
| IEC 62769-1 | - | Devices and integration in enterprise systems; Field Device Integration - Part 1: Overview | - | - |
| IEC 62769-3 | - | Devices and integration in enterprise systems; Field Device Integration - Part 3: FDI Server | - | - |
| IEC 62769-4 | 2015 | Devices and integration in enterprise systems; Field Device Integration - Part 4: FDI Packages | - | - |
| IEC 62769-5 | - | Devices and integration in enterprise systems; Field Device Integration - Part 5: FDI Information Model | - | - |
| IEC 62769-6 | 2015 | Devices and integration in enterprise systems; Field Device Integration - Part6: Technology Mapping | - | - |
| ISO 639 | - | Code for the representation of names of languages | - | - |
| ISO 3166 | - | Codes for the representation of names of countries | - | - |
| ISO/IEC 10918-1 | - | Information technology; digital compression and coding of continuous-tone still images; requirements and guidelines | - | - |
| ISO/IEC 15948 | - | Information technology - Computer graphics and image processing - Portable Network Graphics (PNG) - Functional specification | - | - |
| IEEE 754 | - | IEEE Standard for Binary Floating-Point Arithmetic | - | - |
| IETF RFC 2083 | - | PNG (Portable Network Graphics) - Specification Version 1.0 | - | - |
| IETF RFC 3066 | - | Tags for the Identification of Languages | - | - |
| XML-1 | - | XML Schema Part 1: Structures, W3C | - | - |
| XML-2 | - | XML Schema Part 2: Datatypes, W3C | - | - |

IEC 62769-2

Edition 1.0 2015-05

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

colour inside

## Field Device Integration (FDI) – Part 2: FDI Client

## Intégration des appareils de terrain (FDI) – Partie 2: Client FDI

IEC IEC 62769-2:2015-05(en-fr)

IEC 62769-2

Edition 1.0 2015-05

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

colour inside

## Field Device Integration (FDI) – Part 2: FDI Client

## Intégration des appareils de terrain (FDI) – Partie 2: Client FDI

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

# FIELD DEVICE INTEGRATION (FDI) –

# Part 2: FDI Client

## 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 62769-2 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/345/CDV | 65E/422/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 web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

**IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.**

# 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.

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# FIELD DEVICE INTEGRATION (FDI) –

# Part 2: FDI Client

## 1 Scope

This part of IEC 62769 specifies the FDI Client. 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.

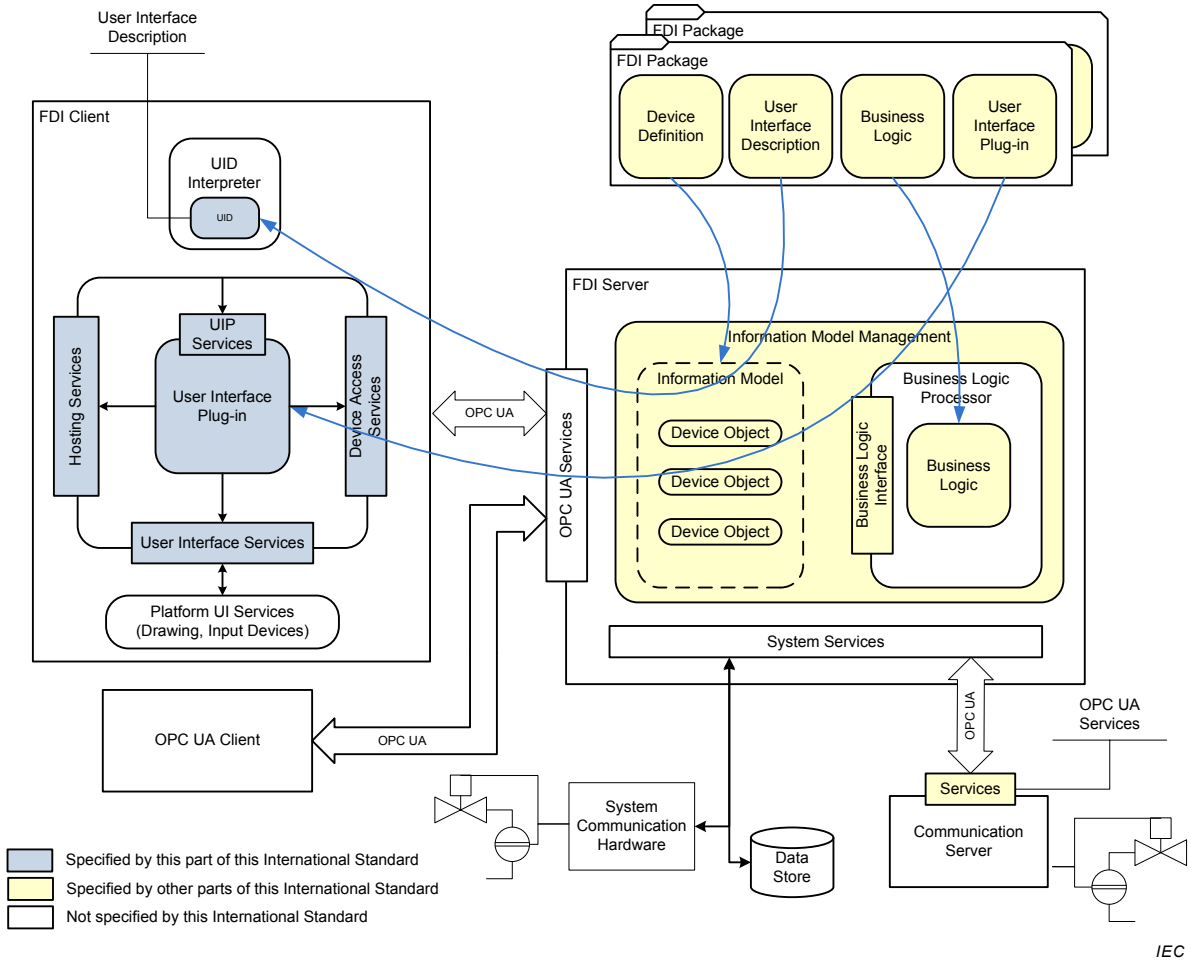


**Figure 1 – FDI architecture diagram**

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

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

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

NOTE IEC 62769-3 is technically identical to FDI-2023.

IEC 62769-4:2015, *Field Device Integration (FDI) – Part 4: FDI Packages*

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

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

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

IEC 62769-6:2015, *Field Device Integration (FDI) – Part 6: FDI Technology Mapping*

NOTE IEC 62769-6 is technically identical to FDI-2026.

IEC 62541-3, *OPC Unified Architecture – Part 3: Address Space Model*

IEC 62541-4, *OPC Unified Architecture – Part 4: Services*

ISO 639, *Codes for the representation of names of languages*

ISO 3166, *Codes for the representation of names of countries and their subdivisions*

ISO/IEC 10918-1, *Information technology – Digital compression and coding of continuous-tone still images: Requirements and guidelines*

ISO/IEC 15948, *Information technology – Computer graphics and image processing – Portable Network Graphics (PNG): Functional specification*

IEEE 754, *IEEE Standard for Floating-Point Arithmetic*

IETF RFC 2083, *PNG (Portable Network Graphics) Specification Version 1.0*

IETF RFC 3066, *Tags for the Identification of Languages*

XML Schema-1, *XML Schema: Structures* (available at http://www.w3.org/TR/xmlschema-1/*)*

XML Schema-2, *XML Schema: Datatypes* (available at http://www.w3.org/TR/xmlschema-2/*)*