

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Field device integration (FDI®) –  
Part 3: Server**

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



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## NORME INTERNATIONALE



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Part 3: Server**

**Intégration des appareils de terrain (FDI®) –  
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FIELD DEVICE INTEGRATION (FDI®) –

## Part 3: Server

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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. It is an International Standard.

This third edition cancels and replaces the second edition published in 2021. This edition constitutes a technical revision.

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

- a) added interactive transfer to device.

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

Draft	Report on voting
65E/856/CDV	65E/913/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).

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# FIELD DEVICE INTEGRATION (FDI®) –

## Part 3: Server

### 1 Scope

This part of IEC 62769 specifies the FDI<sup>®1</sup> Server. The overall FDI<sup>®</sup> architecture is illustrated in Figure 1. The architectural components that are within the scope of this document have been highlighted in this figure. Annex A provides a functional description of the FDI<sup>®</sup> Server.

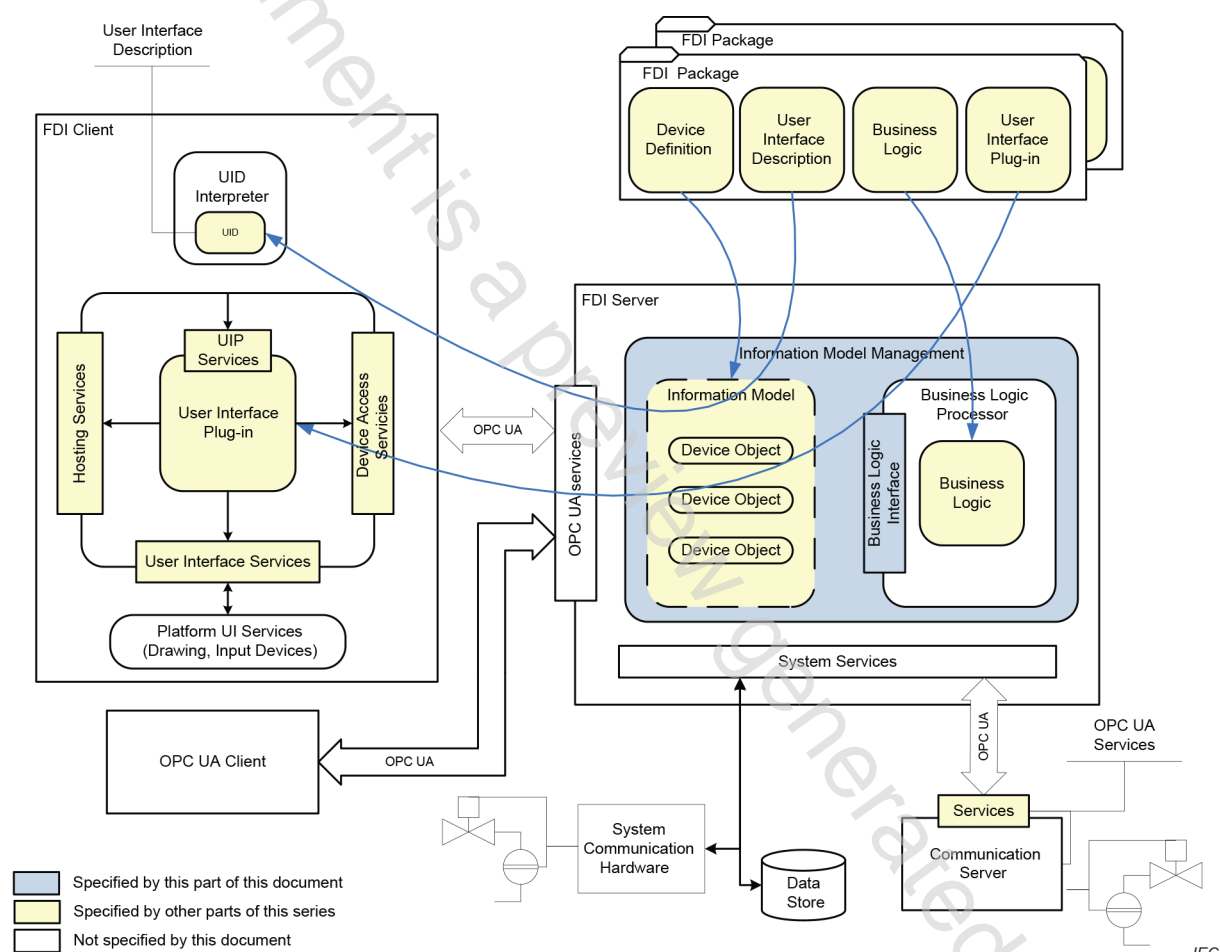


Figure 1 – FDI<sup>®</sup> architecture diagram

### 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.

<sup>1</sup> FDI<sup>®</sup> is a registered trademark of the non-profit organization Fieldbus Foundation, Inc. This information is given for the convenience of users of this document and does not constitute an endorsement by IEC of the trademark holder or any of its products. Compliance does not require use of the trade name. Use of the trade name requires permission of the trade name holder.

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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 61804-4, *Devices and integration in enterprise systems – Function blocks (FB) for process control and electronic device description language (EDDL) – Part 4: EDD interpretation*

IEC 61804-5, *Devices and integration in enterprise systems – Function blocks (FB) for process control and electronic device description language (EDDL) – Part 5: EDDL Builtin library*

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

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

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

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

### **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.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

##### **3.1.1**

##### **Actions Proxy**

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

##### **3.1.2**

##### **Connection Point**

logical representation of a connection of a communication end point to a communication network

#### **3.2 Abbreviated terms and acronyms**

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