

# 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 ELECTROTECHNICAL COMMISSION

## FIELD DEVICE INTEGRATION (FDI) –

## Part 3: FDI Server

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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.

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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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## 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.

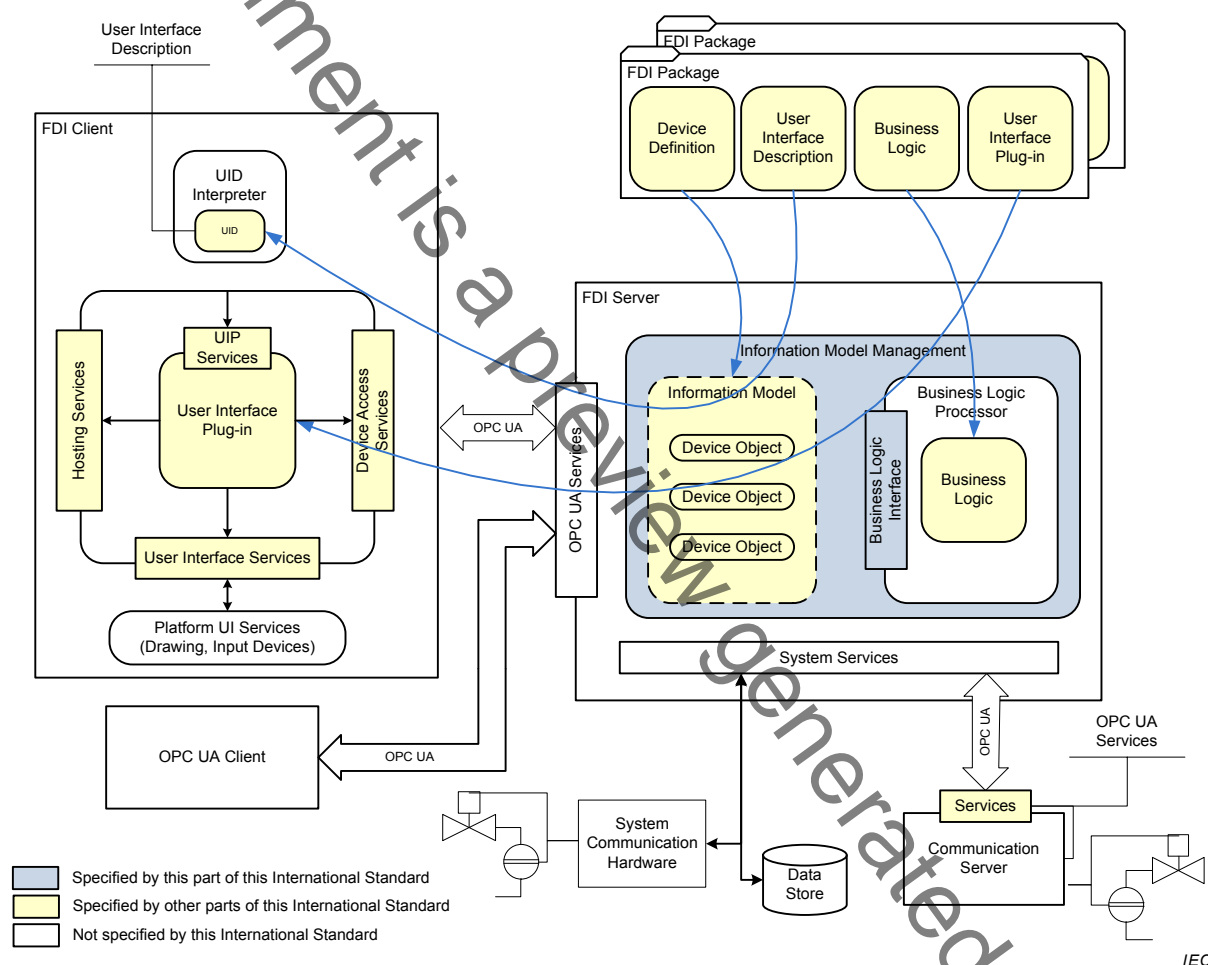


Figure 1 – FDI architecture diagram

#### 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*

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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.

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

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