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# INTERNATIONAL STANDARD



Field device integration (FDI®) –  
Part 6: FDI® Technology Mappings

INTERNATIONAL  
ELECTROTECHNICAL  
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## FIELD DEVICE INTEGRATION (FDI®) –

## Part 6: FDI® Technology Mappings

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IEC 62769-6 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) Separated each technology mapping out to subparts of Part 6 (i.e., Part 6-xxx)

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

| Draft       | Report on voting |
|-------------|------------------|
| 65E/867/CDV | 65E/924/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).

A list of all parts in the IEC 62769 series, published under the general title *Field device integration (FDI<sup>®</sup>)*, can be found on the IEC website.

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The IEC 62769 series has the general title *Field Device Integration (FDI)* and the following parts:

- Part 1: Overview
- Part 2: FDI Client
- Part 3: FDI Server
- Part 4: FDI Packages
- Part 5: FDI Information Model
- Part 6: FDI Technology Mapping
- Part 7: FDI Communication Devices
- Part 100: Profiles — Generic Protocol Extensions
- Part 101-1: Profiles — Foundation Fieldbus H1
- Part 101-2: Profiles — Foundation Fieldbus HSE
- Part 103-1: Profiles — PROFIBUS
- Part 103-4: Profiles — PROFINET
- Part 109-1: Profiles — HART and WirelessHART
- Part 115-2: Profiles — Protocol-specific Definitions for Modbus RTU
- Part 150-1: Profiles — ISA 100.11a

## FIELD DEVICE INTEGRATION (FDI®) –

### Part 6: FDI® Technology Mappings

#### 1 Scope

This part of IEC 62769 specifies the technology mapping for the concepts described in the Field Device Integration (FDI®<sup>1</sup>) standard. The technology mapping focuses on implementation of the components FDI® Client and User Interface Plug-in (UIP) ~~that are specific only to~~ in the specified technologies for the WORKSTATION platform ~~/.NET~~ and the MOBILE platform as defined in IEC 62769-4. There are individual subparts for the currently supported technologies .NET and HTML5.

#### 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. 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 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 62769-6-100, *Field Device Integration (FDI®) – Part 6-100: Technology Mapping – .NET*

IEC 62769-6-200, *Field Device Integration (FDI®) – Part 6-200: Technology Mapping – HTML5*

~~IEC 62541 (all parts), OPC Unified Architecture~~

FCG TS10099, *Field Device Integration (FDI®) – Technology Management*

HTML5, W3C Recommendation. World Wide Web Consortium (W3C) (2014)

~~ISO/IEC 19505-1, Information technology – Object Management Group Unified Modeling Language (OMG UML) – Part 1: Infrastructure~~

~~ISO/IEC 29500, (all parts) Information technology – Document description and processing languages – Office Open XML File Formats~~

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| ECMA-262, *ECMAScript 2016 Language Specification*



# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Field device integration (FDI®) –  
Part 6: FDI® Technology Mappings**

**Intégration des appareils de terrain (FDI®) –  
Partie 6: Mappings de technologies FDI®**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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## FIELD DEVICE INTEGRATION (FDI®) –

### Part 6: FDI® Technology Mappings

#### 1 Scope

This part of IEC 62769 specifies the technology mapping for the concepts described in the Field Device Integration (FDI®<sup>1</sup>) standard. The technology mapping focuses on implementation of the components FDI® Client and User Interface Plug-in (UIP) in the specified technologies for the WORKSTATION platform and the MOBILE platform as defined in IEC 62769-4. There are individual subparts for the currently supported technologies .NET and HTML5.

#### 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. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

IEC 62769-6-100, *Field Device Integration (FDI®) – Part 6-100: Technology Mapping – .NET*

IEC 62769-6-200, *Field Device Integration (FDI®) – Part 6-200: Technology Mapping – HTML5*

FCG TS10099, *Field Device Integration (FDI®) – Technology Management*

HTML5, W3C Recommendation. World Wide Web Consortium (W3C) (2014)

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Cette troisième édition annule et remplace la deuxième édition parue en 2021. Cette édition constitue une révision technique.

Cette édition inclut les modifications techniques majeures suivantes par rapport à l'édition précédente:

- a) le mapping de chaque technologie est désormais décrit dans les sous-parties de la Partie 6 (Partie 6-xxx).

Le texte de cette Norme internationale est issu des documents suivants:

| Projet      | Rapport de vote |
|-------------|-----------------|
| 65E/867/CDV | 65E/924/RVC     |

Le rapport de vote indiqué dans le tableau ci-dessus donne toute information sur le vote ayant abouti à son approbation.

La langue employée pour l'élaboration de cette Norme internationale est l'anglais.

Ce document a été rédigé selon les Directives ISO/IEC, Partie 2, il a été développé selon les Directives ISO/IEC, Partie 1 et les Directives ISO/IEC, Supplément IEC, disponibles sous [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). Les principaux types de documents développés par l'IEC sont décrits plus en détail sous [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

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# INTÉGRATION DES APPAREILS DE TERRAIN (FDI®) –

## Partie 6: Mappings de technologies FDI®

### 1 Domaine d'application

La présente partie de l'IEC 62769 spécifie le mapping de technologies pour les concepts décrits dans la norme d'intégration des appareils de terrain (FDI®<sup>1</sup>, *Field Device Integration*). Le mapping de technologies porte essentiellement sur la mise en œuvre des composants Client FDI® et Plugiciel d'interface utilisateur (UIP)) dans les technologies spécifiées pour les plateformes WORKSTATION et MOBILE définies dans l'IEC 62769-4. Les technologies .NET et HTML5 actuellement prises en charge sont traitées dans les différentes sous-parties.

### 2 Références normatives

Les documents suivants sont cités dans le texte de sorte qu'ils constituent, pour tout ou partie de leur contenu, des exigences du présent document. Pour les références datées, seule l'édition citée s'applique. Pour les références non datées, la dernière édition du document de référence s'applique (y compris les éventuels amendements).

IEC 62769-1, *Intégration des appareils de terrain (FDI®) – Partie 1: Vue d'ensemble*

IEC 62769-6-100, *Intégration des appareils de terrain (FDI®) – Partie 6-100: Mapping de technologies – .NET*

IEC 62769-6-200, *Intégration des appareils de terrain (FDI®) – Partie 6-200: Mapping de technologies – HTML5*

FCG TS10099, *Field Device Integration (FDI®) – Technology Management* (disponible en anglais seulement)

HTML5, W3C Recommendation. World Wide Web Consortium (Consortium chargé de la normalisation du web mondial) (W3C) (2014)

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