



IEC 62769-101-2

Edition 3.0 2023-04  
REDLINE VERSION

# INTERNATIONAL STANDARD



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| **Field Device Integration (FDI)<sup>®</sup> –  
Part 101-2: Profiles – Foundation Fieldbus HSE**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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## CONTENTS

FOREWORD .....	4
1 Scope .....	6
2 Normative references .....	6
3 Terms, definitions, abbreviated terms and <del>conventions</del> acronyms .....	7
3.1 Terms and definitions .....	7
3.2 Abbreviated terms and acronyms .....	7
4 Conventions .....	7
4.1 EDDL syntax .....	7
4.2 XML syntax .....	7
5 Profile for CP 1/2 (FOUNDATION™ HSE) .....	8
5.1 General .....	8
5.2 Catalog profile .....	8
5.2.1 Protocol support file ( <b>Capability File</b> ) .....	8
5.2.2 CommunicationProfile definition .....	8
5.2.3 Profile device .....	8
5.2.4 Protocol version information .....	8
5.3 Associating a Package with a CP 1/2 device .....	9
5.3.1 Device type identification mapping .....	9
5.3.2 Device type revision mapping .....	9
5.4 Information Model mapping .....	9
5.4.1 ProtocolType definition .....	9
5.4.2 DeviceType mapping .....	9
5.4.3 FunctionalGroup Identification definition .....	10
5.4.4 BlockType property mapping .....	10
5.4.5 Mapping to Block ParameterSet .....	11
5.5 Topology elements .....	11
5.5.1 ConnectionPoint definition .....	11
5.5.2 Communication Device definition .....	12
5.5.3 Communication service provider definition .....	14
5.5.4 Network definition .....	14
5.6 Methods .....	15
5.6.1 Methods for FDI® Communication Servers .....	15
5.6.2 Methods for Gateways .....	21
Annex A (normative) Topology scan schema .....	22
A.1 General .....	22
A.2 Target Namespace .....	22
A.3 Network .....	22
A.4 FoundationHSEAddressT .....	22
A.5 FoundationHSEConnectionPointT .....	22
A.6 FoundationHSEN networkT .....	23
A.7 FoundationBlockIdentificationT .....	24
A.8 FoundationIdentificationT .....	24
Annex B (normative) Transfer service parameters .....	26
Annex C (informative) Communication service arguments for Transfer Method .....	27
Bibliography .....	28

Table 1 – Capability File part .....	8
Table 2 – CommunicationProfile definition .....	8
Table 3 – Device type catalog mapping.....	9
Table 4 – ProtocolType Foundation_HSE definition .....	9
Table 5 – Inherited DeviceType property mapping .....	10
Table 6 – Identification parameters .....	10
Table 7 – Inherited BlockType property mapping.....	11
Table 8 – ConnectionPointType ConnectionPoint_Foundation_HSE definition.....	11
Table 9 – Communication device ParameterSet definition.....	14
Table 10 – Method Connect arguments .....	16
Table 11 – Method Disconnect arguments .....	16
Table 12 – Method Transfer arguments.....	17
Table 13 – Method GetPublishedData arguments.....	19
Table 14 – Method SetAddress arguments .....	20
Table A.1 – Attributes of FoundationHSEConnectionPointT .....	23
Table A.2 – Elements of FoundationHSEConnectionPointT .....	23
Table A.3 – Elements of FoundationHSEN networkT .....	24
Table A.4 – Attributes of FoundationBlockIdentificationT .....	24
Table A.5 – Attributes of FoundationIdentificationT .....	25

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

### FIELD DEVICE INTEGRATION (FDI®) –

#### Part 101-2: Profiles – Foundation Fieldbus HSE

#### FOREWORD

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IEC 62769-101-2 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 2020. This edition constitutes a technical revision.

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

- a) added namespace to Annex A;
- b) changed content type of cff file to application/vnd.ff.cff.

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

Draft	Report on voting
65E/861/CDV	65E/918/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<sup>®</sup>) –

### Part 101-2: Profiles – Foundation Fieldbus HSE

## 1 Scope

This part of IEC 62769 specifies the IEC 62769 profile for IEC 61784-1, CP 1/2 (FOUNDATION™ Fieldbus HSE)<sup>1</sup>.

## 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 61784-1, *Industrial communication networks – Profiles – Part 1: Fieldbus Profiles*

IEC 61784-2, *Industrial communication networks – Profiles – Part 2: Additional fieldbus profiles for real-time networks based on ISO/IEC 8802-3*

IEC 61804 (all parts), *Devices and integration in enterprise systems – Function blocks (FB) for process control and Electronic Device Description Language (EDDL)*

IEC 62541-6, *OPC Unified Architecture – Part 6: Mappings*

IEC 62541-100:~~2015~~, *OPC unified architecture – Part 100: Device Interface*

IEC 62769-2, *Field device integration (FDI<sup>®</sup>) – Part 2: FDI-Client*

IEC 62769-3, *Field device integration (FDI<sup>®</sup>) – Part 3: FDI-Server*

IEC 62769-4, *Field device integration (FDI<sup>®</sup>) – Part 4: FDI<sup>®</sup> Packages*

IEC 62769-5, *Field device integration (FDI<sup>®</sup>) – Part 5: FDI<sup>®</sup> Information Model*

IEC 62769-6, *Field device integration (FDI<sup>®</sup>) – Part 6: FDI<sup>®</sup> Technology Mapping*

IEC 62769-7, *Field device integration (FDI<sup>®</sup>) – Part 7: FDI<sup>®</sup> Communication Devices*

IEC 62769-101-1, *Field device integration (FDI<sup>®</sup>) – Part 101-1: Profiles – Foundation Fieldbus H1*

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IEC 62769-101-2

Edition 3.0 2023-04

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Field Device Integration (FDI)<sup>®</sup> –  
Part 101-2: Profiles – Foundation Fieldbus HSE**

**Intégration des appareils de terrain (FDI)<sup>®</sup> –  
Partie 101-2: Profils – Foundation Fieldbus HSE**



## CONTENTS

FOREWORD .....	4
1 Scope .....	6
2 Normative references .....	6
3 Terms, definitions, abbreviated terms and acronyms .....	7
3.1 Terms and definitions.....	7
3.2 Abbreviated terms and acronyms .....	7
4 Conventions .....	7
4.1 EDDL syntax.....	7
4.2 XML syntax .....	7
5 Profile for CP 1/2 (FOUNDATION™ HSE) .....	8
5.1 General.....	8
5.2 Catalog profile .....	8
5.2.1 Protocol support file (Capability File) .....	8
5.2.2 CommunicationProfile definition.....	8
5.2.3 Profile device.....	8
5.2.4 Protocol version information .....	8
5.3 Associating a Package with a CP 1/2 device .....	9
5.3.1 Device type identification mapping.....	9
5.3.2 Device type revision mapping .....	9
5.4 Information Model mapping .....	9
5.4.1 ProtocolType definition .....	9
5.4.2 DeviceType mapping .....	9
5.4.3 FunctionalGroup Identification definition .....	10
5.4.4 BlockType property mapping .....	10
5.4.5 Mapping to Block ParameterSet.....	11
5.5 Topology elements.....	11
5.5.1 ConnectionPoint definition .....	11
5.5.2 Communication Device definition .....	12
5.5.3 Communication service provider definition .....	14
5.5.4 Network definition .....	14
5.6 Methods.....	15
5.6.1 Methods for FDI® Communication Servers .....	15
5.6.2 Methods for Gateways .....	21
Annex A (normative) Topology scan schema.....	22
A.1 General.....	22
A.2 Target Namespace.....	22
A.3 Network .....	22
A.4 FoundationHSEAddressT .....	22
A.5 FoundationHSEConnectionPointT .....	22
A.6 FoundationHSENNetworkT .....	23
A.7 FoundationBlockIdentificationT .....	24
A.8 FoundationIdentificationT .....	24
Annex B (normative) Transfer service parameters.....	26
Annex C (informative) Communication service arguments for Transfer Method .....	27
Bibliography.....	28

Table 1 – Capability File part .....	8
Table 2 – CommunicationProfile definition .....	8
Table 3 – Device type catalog mapping.....	9
Table 4 – ProtocolType Foundation_HSE definition .....	9
Table 5 – Inherited DeviceType property mapping .....	10
Table 6 – Identification parameters .....	10
Table 7 – Inherited BlockType property mapping.....	11
Table 8 – ConnectionPointType ConnectionPoint_Foundation_HSE definition.....	11
Table 9 – Communication device ParameterSet definition.....	14
Table 10 – Method Connect arguments .....	16
Table 11 – Method Disconnect arguments .....	16
Table 12 – Method Transfer arguments.....	17
Table 13 – Method GetPublishedData arguments.....	19
Table 14 – Method SetAddress arguments .....	20
Table A.1 – Attributes of FoundationHSEConnectionPointT .....	23
Table A.2 – Elements of FoundationHSEConnectionPointT .....	23
Table A.3 – Elements of FoundationHSEN networkT .....	24
Table A.4 – Attributes of FoundationBlockIdentificationT .....	24
Table A.5 – Attributes of FoundationIdentificationT .....	25

# INTERNATIONAL ELECTROTECHNICAL COMMISSION

## FIELD DEVICE INTEGRATION (FDI®) –

### Part 101-2: Profiles – Foundation Fieldbus HSE

#### FOREWORD

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### Part 101-2: Profiles – Foundation Fieldbus HSE

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## SOMMAIRE

AVANT-PROPOS .....	32
1 Domaine d'application .....	34
2 Références normatives .....	34
3 Termes, définitions, abréviations et acronymes .....	35
3.1 Termes et définitions .....	35
3.2 Abréviations et acronymes .....	35
4 Conventions .....	35
4.1 Syntaxe EDDL .....	35
4.2 Syntaxe XML .....	36
5 Profil pour CP 1/2 (FOUNDATION™ HSE) .....	36
5.1 Généralités .....	36
5.2 Profil du catalogue .....	36
5.2.1 Fichier de prise en charge du protocole (Fichier de capacités) .....	36
5.2.2 Définition du CommunicationProfile .....	36
5.2.3 Appareil de profil .....	36
5.2.4 Informations relatives à la version du protocole .....	36
5.3 Association d'un Paquetage avec un appareil CP 1/2 .....	37
5.3.1 Mapping d'identification de type d'appareil .....	37
5.3.2 Mapping de révision de type d'appareil .....	37
5.4 Mapping du Modèle d'information .....	37
5.4.1 Définition de ProtocolType .....	37
5.4.2 Mapping de DeviceType .....	37
5.4.3 Définition du FunctionalGroup "Identification" .....	38
5.4.4 Mapping des propriétés du BlockType .....	38
5.4.5 Mapping sur le ParameterSet du Bloc .....	39
5.5 Eléments de topologie .....	39
5.5.1 Définition de ConnectionPoint .....	39
5.5.2 Définition d'appareil de communication .....	40
5.5.3 Définition du fournisseur de service de communication .....	42
5.5.4 Définition du Réseau .....	43
5.6 Méthodes .....	43
5.6.1 Méthodes pour les Serveurs de Communication FDI® .....	43
5.6.2 Méthodes pour les Passerelles .....	49
Annexe A (normative) Schéma de balayage de la topologie .....	50
A.1 Généralités .....	50
A.2 Espace de noms cible .....	50
A.3 Network .....	50
A.4 FoundationHSEAddressT .....	50
A.5 FoundationHSEConnectionPointT .....	50
A.6 FoundationHSEN networkT .....	51
A.7 FoundationBlockIdentificationT .....	52
A.8 FoundationIdentificationT .....	52
Annexe B (normative) Paramètres du service Transfer .....	54
Annexe C (informative) Arguments du service de communication pour la Méthode Transfer .....	55
Bibliographie .....	56

Tableau 1 – Partie fichier de capacité .....	36
Tableau 2 – Définition du CommunicationProfile .....	36
Tableau 3 – Mapping du catalogue de types d'appareils .....	37
Tableau 4 – Définition du ProtocolType Foundation_HSE .....	37
Tableau 5 – Mapping des propriétés héritées du DeviceType.....	38
Tableau 6 – Paramètres d'identification .....	38
Tableau 7 – Mapping des propriétés héritées du BlockType.....	39
Tableau 8 – Définition du ConnectionPointType ConnectionPoint_Foundation_HSE .....	39
Tableau 9 – Définition du ParameterSet d'un appareil de communication.....	42
Tableau 10 – Arguments de la méthode Connect .....	44
Tableau 11 – Arguments de la méthode Disconnect.....	44
Tableau 12 – Arguments de la méthode Transfer .....	45
Tableau 13 – Arguments de la méthode GetPublishedData .....	47
Tableau 14 – Arguments de la Méthode SetAddress .....	48
Tableau A.1 – Attributs de FoundationHSEConnectionPointT .....	51
Tableau A.2 – Eléments de FoundationHSEConnectionPointT .....	51
Tableau A.3 – Eléments de FoundationHSEN networkT .....	52
Tableau A.4 – Attributs de FoundationBlockIdentificationT .....	52
Tableau A.5 – Attributs de FoundationIdentificationT .....	53

## COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

### INTÉGRATION DES APPAREILS DE TERRAIN (FDI®) –

#### Partie 101-2: Profils – Foundation Fieldbus HSE

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L'IEC 62769-101-2 a été établie par le sous-comité 65E: Les dispositifs et leur intégration dans les systèmes de l'entreprise, du comité d'études 65 de l'IEC: Mesure, commande et automation dans les processus industriels. Il s'agit d'une Norme internationale.

Cette troisième édition annule et remplace la deuxième édition parue en 2020. Cette édition constitue une révision technique.

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

- a) ajout d'un espace de noms à l'Annexe A;
- b) modification du type de contenu des fichiers cff par application/vnd.ff.cff.

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

Projet	Rapport de vote
65E/861/CDV	65E/918/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).

Une liste de toutes les parties de la série IEC 62769, publiées sous le titre général *Intégration des appareils de terrain (FDI®)*, se trouve sur le site web de l'IEC.

Le comité a décidé que le contenu de ce document ne sera pas modifié avant la date de stabilité indiquée sur le site web de l'IEC sous [webstore.iec.ch](http://webstore.iec.ch) dans les données relatives au document recherché. A cette date, le document sera

- reconduit,
- supprimé,
- remplacé par une édition révisée, ou
- amendé.

## INTÉGRATION DES APPAREILS DE TERRAIN (FDI®) –

### Partie 101-2: Profils – Foundation Fieldbus HSE

#### 1 Domaine d'application

La présente partie de l'IEC 62769 spécifie le profil de l'IEC 62769 pour le profil de communication CP 1/2 (FOUNDATION™ Fieldbus HSE)<sup>1</sup> défini dans l'IEC 61784-1.

#### 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 61784-1, *Réseaux de communication industriels – Profils – Partie 1: Profils de bus de terrain*

IEC 61784-2, *Réseaux de communication industriels – Profils – Partie 2: Profils de bus de terrain supplémentaires pour les réseaux en temps réel basés sur l'ISO/CEI 8802-3*

IEC 61804 (toutes les parties), *Les dispositifs et leur intégration dans les systèmes de l'entreprise – Blocs fonctionnels (FB) pour les procédés industriels et le langage de description électronique de produit (EDDL)*

IEC 62541-6, *Architecture unifiée OPC – Partie 6: Mappings*

IEC 62541-100, *Architecture unifiée OPC – Partie 100: Interface d'appareils*

IEC 62769-2, *Intégration des appareils de terrain (FDI®) – Partie 2: Client*

IEC 62769-3, *Intégration des appareils de terrain (FDI®) – Partie 3: Serveur*

IEC 62769-4, *Intégration des appareils de terrain (FDI®) – Partie 4: Paquetages FDI®*

IEC 62769-5, *Intégration des appareils de terrain (FDI®) – Partie 5: Modèle d'information*

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

IEC 62769-7, *Intégration des appareils de terrain (FDI®) – Partie 7: Appareils de communication*

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<sup>1</sup> Foundation™ Fieldbus est l'appellation commerciale du consortium Fieldbus Foundation, une organisation à but non lucratif. Cette information est donnée à l'intention des utilisateurs du présent rapport technique et ne signifie nullement que l'IEC approuve le détenteur des appellations commerciales ou l'emploi de ses produits. La conformité n'exige pas l'utilisation de l'appellation commerciale. L'utilisation de l'appellation commerciale exige l'autorisation du détenteur de l'appellation commerciale.

IEC 62769-101-1, *Intégration des appareils de terrain (FDI®) – Partie 101-1: Profils – Foundation Fieldbus H1*