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IEC 62769-109-1

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INTERNATIONAL STANDARD

colour inside

Field device integration (FDI) – Part 109-1: Profiles – HART® and WirelessHART®

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CONTENTS

FOREWORD 4
~~INTRODUCTION~~ .....
1 Scope 7
2 Normative references 7
3 Terms, definitions, abbreviated terms and ~~acronyms~~ conventions 7
3.1 Terms and definitions 7
3.2 Abbreviated terms and acronyms 8
3.3 Conventions 8
3.3.1 EDDL syntax 8
3.3.2 XML syntax 8
3.3.3 Capitalizations 8
4 Profile for CP 9/1 (HART®) or CP 9/2 (WirelessHART®) 9
4.1 General 9
4.2 Catalog profile 9
4.2.1 Protocol support file 9
4.2.2 CommunicationProfile definition 9
4.2.3 Profile device 10
4.2.4 Protocol version information 10
4.3 Associating a Package with a CP 9/1 device 10
4.3.1 Device type identification mapping 10
4.3.2 Device type revision mapping 11
4.4 Information Model mapping 11
4.4.1 ProtocolType definition 11
4.4.2 DeviceType mapping 11
4.4.3 FunctionalGroup Identification definition 12
4.5 Topology elements 13
4.5.1 ConnectionPoint definition 13
4.5.2 Communication Device definition 19
4.5.3 Communication service provider definition 20
4.5.4 Network definition 20
4.6 Methods 21
4.6.1 Methods for FDI Communication Servers 21
4.6.2 Methods for Gateways 25
Annex A (normative) Topology scan schema 33
A.1 General 33
A.2 IdentificationType 33
A.3 AddressTypeTP 35
A.4 AddressTypeIP 35
A.5 AddressTypeTDMA 36
A.6 AddressType 36
A.7 ConnectionPointType 37
A.8 NetworkType 38
A.9 Network 38
Annex B (normative) Transfer service parameters 39
B.1 General 39
B.2 receiveData 39

This is a preview - click here to buy the full publication

B.3 sendData 39
B.4 TransferResultDataT 39
B.5 TransferSendDataT 40
Bibliography 41

Table 1 – Device Information Files 9
Table 2 – CommunicationProfile definition 9
Table 3 – Catalog values for profile devices 10
Table 4 – Protocol Version Information 10
Table 5 – Device type catalog mapping 11
Table 6 – ProtocolType HART definition 11
Table 7 – Inherited DeviceType Property mapping 12
Table 8 – Identification parameters 12
Table 9 – ConnectionPointType HART_TP definition 14
Table 10 – ConnectionPointType HART_IP Definition 16
Table 11 – ConnectionPointType HART_TDMA Definition 18
Table 12 – Method Connect arguments 22
Table 13 – Method Disconnect arguments 22
Table 14 – Method Transfer arguments 23
Table 15 – Method GetPublishedData arguments 24
Table 16 – Method SetAddress arguments 25
Table 17 – Method Connect arguments 26
Table 18 – Method Disconnect arguments 27
Table 19 – Method Transfer arguments 28
Table 20 – Method GetPublishedData arguments 29
Table 21 – Method SetAddress arguments 30
Table A.1 – Attributes of IdentificationT 34
Table A.2 – Elements of AddressTypeTP 35
Table A.3 – Elements of AddressTypeIP 36
Table A.4 – Elements of AddressTypeTDMA 36
Table A.5 – Elements of AddressT 37
Table A.6 – Elements of ConnectionPointT 37
Table A.7 – Elements of NetworkT 38
Table B.1 – Attributes of TransferResultDataT 39
Table B.2 – Attributes of TransferSendDataT 40

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FIELD DEVICE INTEGRATION (FDI) –

Part 109-1: Profiles – HART® and WirelessHART®

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

a) support for generic protocol extension for faster adoption of other technologies;
b) support for Package Developers to build EDDs targeted for today's EDD bases system under a single development tool.

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

CDV	Report on voting
65E/624/CDV	65E/687A/RVC

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~~INTRODUCTION~~

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FIELD DEVICE INTEGRATION (FDI) –

Part 109-1: Profiles – HART® and WirelessHART®

1 Scope

This part of IEC 62769 specifies an FDI profile of IEC 62769 for IEC 61784-1_CP 9/1 (HART®)[1] and IEC 61784-1_CP 9/2 (WirelessHART®)[1].

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 62541-100:2015, *OPC Unified Architecture Specification – Part 100: Device Interface*

IEC 62769-4:~~2015~~ –[2], *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 62769-7, *Field device integration (FDI) – Part 7: FDI Communication Devices*

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[1] HART® and wirelessHART® are ~~the trade names of the non-profit consortium HART Communication Foundation, Austin,Texas, USA~~ the registered trademark of FieldComm Group. 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~~ the product named. ~~Compliance does not require use of the trade names. Use of the trade names requires permission of the trade name holder.~~ Equivalent products may be used if they can be shown to lead to the same results.

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Field device integration (FDI) – Part 109-1: Profiles – HART® and WirelessHART®

Intégration des appareils de terrain (FDI) – Partie 109-1: Profils – HART® et WirelessHART®

IEC 62769-109-1:2020-04(en-fr)

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CONTENTS

FOREWORD 4
1 Scope 6
2 Normative references 6
3 Terms, definitions, abbreviated terms and conventions 6
3.1 Terms and definitions 6
3.2 Abbreviated terms and acronyms 6
3.3 Conventions 7
3.3.1 EDDL syntax 7
3.3.2 XML syntax 7
3.3.3 Capitalizations 7
4 Profile for CP 9/1 (HART®) or CP 9/2 (WirelessHART®) 8
4.1 General 8
4.2 Catalog profile 8
4.2.1 Protocol support file 8
4.2.2 CommunicationProfile definition 8
4.2.3 Profile device 9
4.2.4 Protocol version information 9
4.3 Associating a Package with a CP 9/1 device 9
4.3.1 Device type identification mapping 9
4.3.2 Device type revision mapping 10
4.4 Information Model mapping 10
4.4.1 ProtocolType definition 10
4.4.2 DeviceType mapping 10
4.4.3 FunctionalGroup Identification definition 11
4.5 Topology elements 11
4.5.1 ConnectionPoint definition 11
4.5.2 Communication Device definition 17
4.5.3 Communication service provider definition 18
4.5.4 Network definition 18
4.6 Methods 19
4.6.1 Methods for FDI Communication Servers 19
4.6.2 Methods for Gateways 23
Annex A (normative) Topology scan schema 31
A.1 General 31
A.2 IdentificationType 31
A.3 AddressTypeTP 33
A.4 AddressTypeIP 33
A.5 AddressTypeTDMA 34
A.6 AddressType 34
A.7 ConnectionPointType 35
A.8 NetworkType 36
A.9 Network 36
Annex B (normative) Transfer service parameters 37
B.1 General 37
B.2 receiveData 37
B.3 sendData 37

This is a preview - click here to buy the full publication

B.4 TransferResultDataT 37
B.5 TransferSendDataT 38
Bibliography 39

Table 1 – Device Information Files 8
Table 2 – CommunicationProfile definition 8
Table 3 – Catalog values for profile devices 9
Table 4 – Protocol Version Information 9
Table 5 – Device type catalog mapping 9
Table 6 – ProtocolType HART definition 10
Table 7 – Inherited DeviceType Property mapping 10
Table 8 – Identification parameters 11
Table 9 – ConnectionPointType HART_TP definition 12
Table 10 – ConnectionPointType HART_IP Definition 14
Table 11 – ConnectionPointType HART_TDMA Definition 16
Table 12 – Method Connect arguments 20
Table 13 – Method Disconnect arguments 20
Table 14 – Method Transfer arguments 21
Table 15 – Method GetPublishedData arguments 22
Table 16 – Method SetAddress arguments 23
Table 17 – Method Connect arguments 24
Table 18 – Method Disconnect arguments 25
Table 19 – Method Transfer arguments 26
Table 20 – Method GetPublishedData arguments 27
Table 21 – Method SetAddress arguments 28
Table A.1 – Attributes of IdentificationT 32
Table A.2 – Elements of AddressTypeTP 33
Table A.3 – Elements of AddressTypeIP 34
Table A.4 – Elements of AddressTypeTDMA 34
Table A.5 – Elements of AddressT 35
Table A.6 – Elements of ConnectionPointT 35
Table A.7 – Elements of NetworkT 36
Table B.1 – Attributes of TransferResultDataT 37
Table B.2 – Attributes of TransferSendDataT 38

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Part 109-1: Profiles – HART® and WirelessHART®

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SOMMAIRE

AVANT-PROPOS 42
1 Domaine d'application 44
2 Références normatives 44
3 Termes, définitions, abréviations et conventions 44
3.1 Termes et définitions 44
3.2 Termes abégés et acronymes 44
3.3 Conventions 45
3.3.1 Syntaxe EDDL 45
3.3.2 Syntaxe XML 45
3.3.3 Majuscules 45
4 Profil pour CP 9/1 (HART®) ou CP 9/2 (WirelessHART®) 46
4.1 Généralités 46
4.2 Profil de catalogue 46
4.2.1 Fichier de prise en charge de protocole 46
4.2.2 Définition de CommunicationProfile 46
4.2.3 Appareil de profil 47
4.2.4 Informations relatives à la version de protocole 47
4.3 Association d'un Paquetage avec un appareil CP 9/1 48
4.3.1 Mapping d'identification du type d'appareil 48
4.3.2 Mapping des révisions de type d'appareil 48
4.4 Mapping du Modèle d'Information 48
4.4.1 Définition de ProtocolType 48
4.4.2 Mapping de DeviceType 48
4.4.3 Définition du FunctionalGroup "Identification" 49
4.5 Eléments de topologie 49
4.5.1 Définition de ConnectionPoint 49
4.5.2 Définition de l'Appareil de Communication 56
4.5.3 Définition du fournisseur de service de communication 57
4.5.4 Définition du Réseau 57
4.6 Méthodes 58
4.6.1 Méthodes pour les Serveurs de Communication FDI 58
4.6.2 Méthodes pour les Passerelles 62
Annexe A (normative) Schéma de balayage de la topologie 70
A.1 Généralités 70
A.2 IdentificationType 70
A.3 AddressTypeTP 72
A.4 AddressTypeIP 72
A.5 AddressTypeTDMA 73
A.6 AddressType 74
A.7 ConnectionPointType 74
A.8 NetworkType 75
A.9 Network 75
Annexe B (normative) Paramètres du service Transfer 76
B.1 Généralités 76
B.2 receiveData 76
B.3 sendData 76

This is a preview - click here to buy the full publication

B.4 TransferResultDataT 76
B.5 TransferSendDataT 77
Bibliographie 78

Tableau 1 – Fichiers d'informations appareil 46
Tableau 2 – Définition de CommunicationProfile 47
Tableau 3 – Valeurs de catalogue pour les appareils de profil 47
Tableau 4 – Informations relatives à la Version de Protocole 47
Tableau 5 – Mapping dans le catalogue des types d'appareils 48
Tableau 6 – Définition du ProtocolType HART 48
Tableau 7 – Mapping des propriétés héritées du DeviceType 49
Tableau 8 – Paramètres du FunctionalGroup Identification 49
Tableau 9 – Définition du ConnectionPointType HART_TP 50
Tableau 10 – Définition du ConnectionPointType HART_IP 53
Tableau 11 – Définition du ConnectionPointType HART_TDMA 55
Tableau 12 – Arguments de la Méthode Connect 59
Tableau 13 – Arguments de la Méthode Disconnect 59
Tableau 14 – Arguments de la Méthode Transfer 60
Tableau 15 – Arguments de la Méthode GetPublishedData 61
Tableau 16 – Arguments de la Méthode SetAddress 61
Tableau 17 – Arguments de la Méthode Connect 63
Tableau 18 – Arguments de la Méthode Disconnect 64
Tableau 19 – Arguments de la Méthode Transfer 65
Tableau 20 – Arguments de la Méthode GetPublishedData 66
Tableau 21 – Arguments de la Méthode SetAddress 67
Tableau A.1 – Attributs d'IdentificationT 71
Tableau A.2 – Eléments d'AddressTypeTP 72
Tableau A.3 – Eléments d'AddressTypeIP 73
Tableau A.4 – Eléments d'AddressTypeTDMA 73
Tableau A.5 – Eléments d'AddressT 74
Tableau A.6 – Eléments de ConnectionPointT 75
Tableau A.7 – Eléments de NetworkT 75
Tableau B.1 – Attributs de TransferResultDataT 76
Tableau B.2 – Attributs de TransferSendDataT 77

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Partie 109-1: Profils – HART® et WirelessHART®

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Cette deuxième édition annule et remplace la première édition parue en 2015. Cette édition constitue une révision technique.

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

a) prise en charge d'extensions de protocoles génériques, pour une adoption plus rapide d'autres technologies;
b) capacité offerte aux Développeurs de Paquetages d'élaborer des EDD ciblant les systèmes actuels de bases EDD, en exploitant un seul outil de développement.

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

CDV	Rapport de vote
65E/624/CDV	65E/687A/RVC

Le rapport de vote indiqué dans le tableau ci-dessus donne toute information sur le vote ayant abouti à l'approbation de la présente Norme internationale.

Ce document a été rédigé selon les Directives ISO/IEC, Partie 2.

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

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INTÉGRATION DES APPAREILS DE TERRAIN (FDI) –

Partie 109-1: Profils – HART® et WirelessHART®

1 Domaine d'application

La présente partie de l'IEC 62769 spécifie un profil FDI de l'IEC 62769 pour l'IEC 61784-1_CP 9/1 (HART®)[1] et l'IEC 61784-1_CP 9/2 (WirelessHART®)[1].

2 Références normatives

Les documents suivants cités dans le texte 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 62541-100:2015, *Architecture unifiée OPC – Partie 100: Interface d'appareils*

IEC 62769-4:–[2], *Intégration des appareils de terrain (FDI) – Partie 4: Paquetages FDI*

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

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

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[1] HART® et WirelessHART® sont des marques déposées de FieldComm Group. Cette information est donnée à l'intention des utilisateurs du présent document et ne signifie nullement que l'IEC approuve ou recommande l'emploi exclusif du produit ainsi désigné. Des produits équivalents peuvent être utilisés, s'il peut être attesté qu'ils donnent les mêmes résultats.

[2] En cours de préparation. Stade au moment de la publication: IEC/RFDIS 62769-4:2020.