



IEC 62657-4

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INTERNATIONAL STANDARD

Industrial networks – Coexistence of wireless systems –
Part 4: Coexistence management with central coordination of wireless
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IEC Secretariat
3, rue de Varembé
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
info@iec.ch
www.iec.ch

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CONTENTS

FOREWORD	9
INTRODUCTION	2
1 Scope	12
2 Normative references	12
3 Terms, definitions, abbreviated terms and conventions	13
3.1 General	13
3.2 Terms and definitions specific for this document	13
3.3 Additional terms and definitions for the templates	14
3.4 Terms and definitions given in IEC 62657-2	17
3.5 SRF specific definitions	18
3.6 Abbreviated terms	18
3.7 Conventions used for service descriptions	19
4 Area of consideration	20
4.1 Coexistence conceptual model	20
4.2 Investigation of coexistence state	21
4.3 Implementing radio resources and their utilization	24
4.4 Coexistence management equipment	25
5 Wireless coexistence management system architecture	25
5.1 General	25
5.2 System elements	30
5.2.1 Wireless systems and wireless devices for automation applications	30
5.2.2 Central coordination point	32
5.2.3 Coordination database	35
5.2.4 Spectrum sensing system	36
5.3 Protocol reference architecture	37
5.3.1 General	37
5.3.2 Data plane	38
5.3.3 Management and control plane	39
5.4 System of wireless communication applications	40
5.4.1 CCP concept for sharing with incumbent radio systems	40
5.4.2 Protection of incumbent radio systems	40
5.4.3 CCP concept for intra-system coexistence	40
5.5 Interfaces	42
5.5.1 CCP	42
5.5.2 CCP managed wireless communication application and wireless device	43
5.5.3 Database	43
5.5.4 Spectrum sensing system	43
6 Parameter for coexistence assessment	43
7 Parameter for coexistence control	44
7.1 General	44
7.2 Application parameter	44
7.3 Radio parameter	44
8 Management and control services	46
8.1 General	46
8.2 Application communication requirements management services	46
8.2.1 Supported services	46

8.2.2	GetGeneralPlantCharacteristic	47
8.2.3	SetGeneralPlantCharacteristic.....	51
8.2.4	GetApplicationCommunicationRequirements.....	55
8.2.5	GetApplicationCommunicationStatus	58
8.2.6	SetApplicationCommunicationReport	61
8.2.7	NotificationApplicationCommunicationstatus	64
8.3	Wireless communication system and device subscription services	67
8.3.1	Supported services	67
8.3.2	SubscribeDevice.....	67
8.3.3	UnsubscribeDevice	71
8.3.4	SubscribeSystem.....	74
8.3.5	UnsubscribeSystem	77
8.3.6	GetDeviceAttributes.....	79
8.4	Wireless communication system and device configuration and control services	84
8.4.1	Supported services	84
8.4.2	SetTransmitPower	85
8.4.3	SetFrequencyChannel	87
8.4.4	SetBandwidth	90
8.4.5	SetFrequencyHoppingSequence	92
8.4.6	SetBlockedFrequencyList	95
8.4.7	SetDwellTime	97
8.4.8	SetMediumAccessControlMechanism	100
8.4.9	SetDeviceStatus	102
8.4.10	GetParameter	105
8.4.11	SetParameter	108
8.5	Medium resource management services	112
8.5.1	Supported services	112
8.5.2	GetMediumResourceReport	112
8.5.3	SetMediumResourceReport	116
8.5.4	NotifyMediumResource	120
8.5.5	SetMediumSensingReport	124
8.5.6	NotifyMediumSensingResults	128
8.6	Database access services.....	131
8.6.1	Supported service.....	131
8.6.2	GetRadioRegulation	131
Annex A (informative)	Example of a CCP controlled WCA and incumbent services/applications within the 5,8 GHz band	136
Annex B (informative)	Use of IEC CDD	138
Annex C (informative)	Mapping of the services to templates	140
C.1	General.....	140
C.2	Templates of the management services	140
C.3	Templates of the subscription services.....	142
C.4	Templates of the Wireless communication system and device configuration and control services	146
C.5	Templates of the Medium resource management services	149
C.6	Templates of the Database access services.....	151
Annex D (informative)	Wireless coexistence management with SRF Wireless Platform	153
D.1	General.....	153

D.2	Overview of SRF Wireless Platform	153
D.3	Effects of SRF Wireless Platform implementation.....	156
D.4	Functions of SRF Wireless Platform.....	158
D.4.1	Messages	158
D.4.2	Functions.....	162
D.4.3	Parameters	180
D.4.4	Message format.....	183
Bibliography.....		186
Figure 1 – Wireless coexistence conceptual model according to IEC 62657-2	21	
Figure 2 – Sources to determine parameters for coexistence state calculation	22	
Figure 3 – Coexistence state function	24	
Figure 4 – Parameters describing active influences and control parameters used to manage coexistence	25	
Figure 5 – Example instance of class CoexistenceSystem in accordance with IEC 62657-3	27	
Figure 6 – Elements of central coordinated coexistence management system.....	28	
Figure 7 – Data exchange in central coordinated coexistence management system	29	
Figure 8 – CCP managed wireless devices and CCP managed wireless systems.....	32	
Figure 9 – Overview of CCP.....	33	
Figure 10 – Protocol reference model of CCP managed wireless device	38	
Figure 11 – CCP for intra-system coexistence.....	42	
Figure 12 – Primitive flow of GetGeneralPlantCharacteristic	47	
Figure 13 – Sequence diagram (GetGeneralPlantCharacteristic).....	49	
Figure 14 – Primitive flow of SetGeneralPlantCharacteristic	51	
Figure 15 – Sequence diagram (SetGeneralPlantCharacteristic).....	53	
Figure 16 – Primitive flow of GetApplicationCommunicationRequirements	55	
Figure 17 – Sequence diagram (GetApplicationCommunicationRequirements).....	57	
Figure 18 – Primitive flow of GetApplicationCommunicationStatus	58	
Figure 19 – Sequence diagram (GetApplicationCommunicationStatus)	60	
Figure 20 – Primitive flow of SetApplicationCommunicationReport	62	
Figure 21 – Sequence diagram (SetApplicationCommunicationReport service parameters)	63	
Figure 22 – Primitive flow of NotificationApplicationCommunicationstatus	65	
Figure 23 – Sequence diagram (NotificationApplicationCommunicationstatus)	66	
Figure 24 – Primitive flow of SubscribeDevice.....	68	
Figure 25 – Sequence diagram (SubscribeDevice).....	70	
Figure 26 – Primitive flow of UnsubscribeDevice	71	
Figure 27 – Sequence diagram (UnsubscribeDevice)	73	
Figure 28 – Primitive flow of SubscribeSystem.....	74	
Figure 29 – Sequence diagram (SubscribeSystem)	76	
Figure 30 – Primitive flow of UnsubscribeSystem	77	
Figure 31 – Sequence diagram (UnsubscribeSystem)	78	
Figure 32 – Primitive flow of GetDeviceAttributes.....	79	
Figure 33 – Sequence diagram (GetDeviceAttributes)	82	

Figure 34 – Primitive flow of SetTransmitPower service	85
Figure 35 – Sequence diagram (SetTransmitPower)	86
Figure 36 – Primitive flow of SetFrequencyChannel service	87
Figure 37 – Sequence diagram (SetFrequencyChannel)	89
Figure 38 – Primitive flow of SetBandwidth service	90
Figure 39 – Sequence diagram (SetBandwidth)	91
Figure 40 – Primitive flow of SetFrequencyHoppingSequence service.....	92
Figure 41 – Sequence diagram (SetBandwidth)	94
Figure 42 – Primitive flow of SetBlockedFrequencyList service	95
Figure 43 – Sequence diagram (SetBlockedFrequencyList).....	96
Figure 44 – Primitive flow of SetDwellTime service	97
Figure 45 – Sequence diagram (SetDwellTime)	99
Figure 46 – Primitive flow of SetMediumAccessControlMechanism service	100
Figure 47 – Sequence diagram (SetMediumAccessControlMechanism).....	101
Figure 48 – Primitive flow of SetDeviceStatus service	103
Figure 49 – Sequence diagram (SetDeviceStatus)	104
Figure 50 – Primitive flow of GetParameter service for CMWCA.....	105
Figure 51 – Primitive flow of GetParameter service for CMWD	106
Figure 52 – Sequence diagram (GetParameter)	107
Figure 53 – Primitive flow of SetParameter service for CMWCA.....	109
Figure 54 – Primitive flow of SetParameter service for CMWD	109
Figure 55 – Sequence diagram (SetParameter)	111
Figure 56 – Primitive flow of GetMediumResourceReport service for CMWCA	112
Figure 57 – Primitive flow of GetMediumResourceReport service for CMWD.....	112
Figure 58 – Sequence diagram (GetMediumResourceReport)	115
Figure 59 – Primitive flow of SetMediumResourceReport service for CMWCA.....	117
Figure 60 – Primitive flow of SetMediumResourceReport service for CMWD	117
Figure 61 – Sequence diagram (SetMediumResourceReport)	119
Figure 62 – Primitive flow of NotifyMediumResource service for CMWCA	121
Figure 63 – Primitive flow of NotifyMediumResource service for CMWD.....	121
Figure 64 – Sequence diagram (NotifyMediumResource)	123
Figure 65 – Primitive flow of SetMediumSensingReport service for SSN	125
Figure 66 – Primitive flow of SetMediumSensingReport service for SSF in CMWD	125
Figure 67 – Sequence diagram (SetMediumSensingReport).....	127
Figure 68 – Primitive flow of NotifyMediumSensingResults service for SSN	129
Figure 69 – Primitive flow of NotifyMediumSensingResults service for SSF in CMWD	129
Figure 70 – Sequence diagram (NotifyMediumSensingResults).....	130
Figure 71 – Primitive flow of GetRadioRegulation service	132
Figure 72 – Sequence diagram (GetRadioRegulation).....	134
Figure A.1 – CCP controlled WCA and incumbent services and applications	136
Figure A.2 – Overview of incumbent service/applications	137
Figure B.1 – Fostering wireless coexistence management	139
Figure D.1 – CCP system elements of SRF Wireless Platform	153

Figure D.2 – Overview of SRF Wireless Platform	154
Figure D.3 – Architecture of SRF Wireless Platform	155
Figure D.4 – Overview of SRF Wireless Platform layer structure	156
Figure D.5 – Experimental results of the SRF Wireless Platform demonstration (time variation of transmission time)	157
Figure D.6 – Experimental results of the SRF Wireless Platform demonstration (frequency of transmission time)	158
Table 1 – Explanations of radio channels	22
Table 2 – Level of effectiveness of wireless automation	35
Table 3 – List of parameters for coexistence assessment	43
Table 4 – List of application parameters for coexistence control	44
Table 5 – List of radio parameters for coexistence control	45
Table 6 – GetGeneralPlantCharacteristic service parameters	47
Table 7 – GetGeneralPlantCharacteristic service message format	50
Table 8 – SetGeneralPlantCharacteristic service parameters	51
Table 9 – SetGeneralPlantCharacteristic service message format	54
Table 10 – GetApplicationCommunicationRequirements service parameters	55
Table 11 – GetApplicationCommunicationRequirements service message format	58
Table 12 – GetApplicationCommunicationStatus service parameters	59
Table 13 – GetApplicationCommunicationStatus service message format	61
Table 14 – SetApplicationCommunicationReport service parameters	62
Table 15 – SetApplicationCommunicationReport service message format	64
Table 16 – NotificationApplicationCommunicationstatus service parameters	65
Table 17 – NotificationApplicationCommunicationstatus service message format	67
Table 18 – SubscribeDevice service parameters	68
Table 19 – SubscribeDevice service message format	70
Table 20 – UnsubscribeDevice service parameters	71
Table 21 – UnsubscribeDeviceservice message format	73
Table 22 – SubscribeSystem service parameters	74
Table 23 – SubscribeSystem service message format	76
Table 24 – UnsubscribeSystem service parameters	77
Table 25 – UnsubscribeSystemservice message format	79
Table 26 – GetDeviceAttributes service parameters	80
Table 27 – GetDeviceAttributesservice message format	82
Table 28 – SetTransmitPower service parameter	85
Table 29 – SetTransmitPowerservice messsage format	87
Table 30 – SetFrequencyChannel service parameter	88
Table 31 – SetFrequencyChannel service message format	89
Table 32 – SetBandwidth service parameter	90
Table 33 – SetBandwidthservice message format	92
Table 34 – SetFrequencyHoppingSequence service parameter	93
Table 35 – SetFrequencyHoppingSequenceservice message format	94
Table 36 – SetBlockedFrequencyList service parameter	95

Table 37 – SetBlockedFrequencyListservice message format	97
Table 38 – SetDwellTime service parameter	98
Table 39 – SetDwellTimeservice message format	99
Table 40 – SetMediumAccessControlMechanism service parameter	100
Table 41 – SetMediumAccessControlMechanism service message format	102
Table 42 – SetDeviceStatus service parameter	103
Table 43 – SetDeviceStatusservice message format	105
Table 44 – GetParameter service parameter	106
Table 45 – GetParameterservice message format	108
Table 46 – SetParameter service parameter	109
Table 47 – SetParameterservice message format	111
Table 48 – GetMediumResourceReport service parameter	113
Table 49 – GetMediumResourceReport service message format	116
Table 50 – SetMediumResourceReport service parameter	117
Table 51 – SetMediumResourceReport service message format	120
Table 52 – NotifyMediumResource service parameter	121
Table 53 – NotifyMediumResourceservice message format	124
Table 54 – SetMediumSensingReport service parameter	126
Table 55 – SetMediumSensingReportservice message format	128
Table 56 – NotifyMediumSensingResults service parameter	129
Table 57 – NotifyMediumSensingResults service message format	131
Table 58 – GetRadioRegulation service parameter	132
Table 59 – GetRadioRegulation service message format	135
Table A.1 – Incumbent services and applications	137
Table C.1 – GetGeneralPlantCharacteristic service parameter template	141
Table C.2 – SetGeneralPlantCharacteristic service parameter template	142
Table C.3 – GetApplicationCommunicationRequirements service parameter template	142
Table C.4 – SubscribeDevice service parameter template	143
Table C.5 – UnsubscribeDevice service parameter template	143
Table C.6 – SubscribeSystem service parameter template	144
Table C.7 – UnsubscribeSystem service parameter template	144
Table C.8 – GetDeviceAttributes service parameter template	145
Table C.9 – SetTransmitPower service parameter template	146
Table C.10 – SetFrequencyChannel service parameter template	146
Table C.11 – SetBandwidth service parameter template	146
Table C.12 – SetFrequencyHoppingSequence service parameter template	147
Table C.13 – SetBlockedFrequencyList service parameter template	147
Table C.14 – SetDwellTime service parameter template	147
Table C.15 – SetMediumAccessControlMechanism service parameter template	148
Table C.16 – SetDeviceStatus service parameter template	148
Table C.17 – GetParameter service parameter template	148
Table C.18 – SetParameter service parameter template	149
Table C.19 – GetMediumResourceReport service parameter template	149

Table C.20 – SetMediumResourceReport service parameter template	150
Table C.21 – NotifyMediumResource service parameter template	150
Table C.22 – SetMediumSensingReport service parameter template	151
Table C.23 – NotifyMediumSensingResults service parameter template.....	151
Table C.24 – GetRadioRegulation service parameter template.....	152
Table D.1 – Comparison between IEC 62657-4 and SRF Wireless Platform	156
Table D.2 – Correspondence list of messages of SRF Wireless Platform and services in IEC 62657-4.....	159
Table D.3 – Correspondence list of functions of SRF Wireless Platform and IEC 62657-4	163
Table D.4 – Correspondence list of parameters of SRF Wireless Platform and IEC 62657-4	180
Table D.5 – Examples of JSON Format.....	183

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IEC 62657-4 has been prepared by subcommittee 65C: Industrial networks, of IEC technical committee 65: Industrial-process measurement, control and automation. It is an International Standard.

This second edition cancels and replaces the first edition published in 2022. This edition constitutes a technical revision.

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

- a) The data item (parameter) to be exchanged between CCP and CMWCA and CMWD to ensure interoperability between CCP providers and device providers.
- b) The sequence of services conducted between CCP and CMWCA and CMWD are now defined. When the CCP providers and the device providers implement similar process, clearly defined sequence and unified execution specifications ensure interoperability as expected.
- c) The message formats of sequence diagram to be exchanged between CCP and CMWCA and CMWD are defined. By defining the message formats, the hierarchical structure of each data (parameter), and implementing the same message format by the CCP provider and the device provider, enables to exchange data correctly and ensure interoperability.

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

Draft	Report on voting
65C/1330/FDIS	65C/1338/RVD

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. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts in the IEC 62657 series, published under the general title *Industrial networks – Coexistence of wireless systems*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

INTRODUCTION

The IEC 62657 series provides background, foundations, process and examples to achieve wireless coexistence. With a coexistence management process according to IEC 62657-2, a predictable assuredness of coexistence can be achieved for a given spectrum while ensuring that application requirements continue to be met. The present document provides an automated coexistence management.

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INDUSTRIAL NETWORKS – COEXISTENCE OF WIRELESS SYSTEMS –

Part 4: Coexistence management with central coordination of wireless applications

1 Scope

This part of IEC 62657 specifies a concept and methods for central coordination (CC) of automation applications using wireless communications to extend the coexistence management according to IEC 62657-2. It establishes system elements, interfaces and relationships for a central coordination. Functions, data, and data exchange for assessing and maintaining the coexistence state are specified.

This document specifies the central coordination point (CCP) approach as one example of the usage of the formal description given in IEC 62657-3.

This document is applicable to develop, implement, or modify procedures or solutions.

This document provides requirements for automated coexistence management systems.

This document provides requirements for:

- determination of the coexistence state,
- automated coexistence management procedures,
- CC amendments for existing wireless communication solutions,
- CC functions that coordinate legacy and new wireless communication systems,
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- CC sequences and message formats for data exchange.

This document is not restricted to a specific radio frequency range nor is it restricted to a specific wireless communication technology.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes the 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 62657-2:2025, *Industrial networks – Coexistence of wireless systems – Part 2: Coexistence management*¹

~~IEC 62443 (all parts), Security for industrial automation and control systems~~

ISO/IEC 10731, *Information technology – Open Systems Interconnection – Basic Reference Model – Conventions for the definition of OSI services*

¹ Under preparation. Stage at the time of publication: IEC/FDIS 62657-2:2024.