

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



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**Industrial networks – Coexistence of wireless systems –  
Part 4: Coexistence management with central coordination of wireless  
applications**

**Réseaux industriels – Coexistence des systèmes sans fil –  
Partie 4: Gestion de coexistence avec coordination centralisée des applications  
sans fil**



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**INDUSTRIAL NETWORKS –  
COEXISTENCE OF WIRELESS SYSTEMS –**
**Part 4: Coexistence management with central coordination  
of wireless applications**
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Draft	Report on voting
65C/1164/FDIS	65C/1170/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](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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## 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.

## 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.

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 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:—<sup>1</sup>, *Industrial networks – Coexistence of wireless systems – Part 2: Coexistence management*

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*

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