

DIN EN 14908-9:2025-02 (E)

Open Data Communication in Building Automation, Controls and Building Management - Control Network Protocol - Part 9: Wireless Communication in ISM bands; English version EN 14908-9:2021

Contents	Page
European foreword	4
Introduction	5
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions.....	6
4 Abbreviations.....	7
5 Overview of ISM RF in EN 14908 based systems	8
5.1 General.....	8
5.2 ISM RF radio communication introduction.....	8
5.2.1 Architecture.....	8
5.2.2 ISM RF radio network elements	9
5.3 ISM RF functional overview.....	10
6 Control Network protocol information flows mapping to ISM RF.....	11
6.1 General.....	11
6.2 Address mapping principles.....	11
6.3 Broadcast messages flows	12
6.3.1 Messages from other segments of CNP network.....	12
6.3.2 Messages from CNP application layers.....	13
6.4 Unicast message flows.....	13
6.4.1 Messages from CNP network	13
6.4.2 Messages from RF node	14
6.5 Multicast.....	15
6.5.1 Messages from CNP network	15
6.5.2 Messages from RF Node	16
7 ISM RF radio network services to CNP applications.....	17
7.1 General.....	17
7.2 Attributes.....	17
7.3 RF node addressing.....	17
7.4 RF-DSAP Services	18
7.4.1 Overview	18
7.4.2 RF-DSAP-DATA_TX.request	19
7.4.3 RF-DSAP-DATA_TX.confirm.....	21
7.4.4 RF-DSAP-DATA_TX.indication	21
7.4.5 RF-DSAP-DATA_RX.indication	22
7.4.6 RF-DSAP-DATA_TX/RX.response	23
7.5 RF-CSAP Services.....	23
7.5.1 Overview	23
7.5.2 RF-CSAP-ATTRIBUTE_WRITE.request.....	23
7.5.3 RF-CSAP-ATTRIBUTE_WRITE.confirm	26
7.5.4 RF-CSAP-ATTRIBUTE_READ.request	27
7.5.5 RF-CSAP-ATTRIBUTE_READ.confirm.....	27
7.6 Radio link layer security	27

Annex A (normative) ISM RF Radio characteristics.....	28
A.1 General requirements.....	28
A.2 Supported operating frequency bands	28
Bibliography	29