

ISO 15118-8:2020 (E)

Road vehicles — Vehicle to grid communication interface — Part 8: Physical layer and data link layer requirements for wireless communication

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Abbreviated terms
5	Conventions
5.1	Definition of OSI based services
5.2	Requirement structure
6	System architecture
7	Wireless communication requirements
7.1	Overview
7.2	SECC requirements
7.2.1	General
7.2.2	WLAN technology
7.2.3	WLAN frequency and channel
7.2.4	SECC channel scanning and selection
7.2.5	Quality of service
7.2.6	Association support
7.2.7	Layer 2 interfaces
7.2.7.1	Overview
7.2.7.2	Data SAP
7.2.7.3	Data link control SAP
7.2.8	Pairing
7.2.8.1	General
7.2.8.2	Pairing with conductive charging
7.2.8.3	Pairing with WPT
7.3	EVCC requirements
7.3.1	General
7.3.2	WLAN technology
7.3.3	WLAN frequency and channel
7.3.4	Quality of service
7.3.5	Association support
7.3.6	Layer 2 interfaces
7.3.6.1	Overview
7.3.6.2	Data SAP
7.3.6.3	Data Control SAP
7.4	Security
Annex A	(informative) Mounting location of wireless communication module and antenna
A.1	Overview
A.2	Examples
A.2.1	General
A.2.2	Shortest possible distance for WPT
A.2.3	Typical distance for WPT

- A.2.4 Typical distance for AC/DC charging
- A.2.5 Typical distance for automatic connection device bus charging

Annex B (informative) Interference scan and auto channel selection example

- B.1 Overview
- B.2 Example with one WLAN interferer
- B.3 Example with three WLAN interferers
- B.4 Summary

Annex C (informative) Introduction of service available area

- C.1 Overview
- C.2 Dimensions of the service available area
- C.3 Quality of service within service available area
- C.4 Typical cases of the service available area

Annex D (informative) National regulations in usage of U-NII bands

Page count: 33