
References



CAR 2 CAR
COMMUNICATION CONSORTIUM

About the C2C-CC

Enhancing road safety and traffic efficiency by means of Cooperative Intelligent Transport Systems and Services (C-ITS) is the dedicated goal of the CAR 2 CAR Communication Consortium. The industrial driven, non-commercial association was founded in 2002 by vehicle manufacturers affiliated with the idea of cooperative road traffic based on Vehicle-to-Vehicle Communications (V2V) and supported by Vehicle-to-Infrastructure Communications (V2I). Today, the Consortium comprises 88 members, with 18 vehicle manufacturers, 39 equipment suppliers and 31 research organisations.

Over the years, the CAR 2 CAR Communication Consortium has evolved to be one of the key players in preparing the initial deployment of C-ITS in Europe and the subsequent innovation phases. CAR 2 CAR members focus on wireless V2V communication applications based on ITS-G5 and concentrate all efforts on creating standards to ensure the interoperability of cooperative systems, spanning all vehicle classes across borders and brands. As a key contributor, the CAR 2 CAR Communication Consortium works in close cooperation with the European and international standardisation organisations such as ETSI and CEN.

Disclaimer

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Document information

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Table 1: Document information

Changes since last version

Title:	CAR 2 CAR Communication Consortium References
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Explanatory notes:

31.08.2018	Initial setup of document	Release Management	Steering Committee
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Date	Changes	Edited by	Approved
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Table 2: Change history

Table of contents	
About the C2C-CC	1
Disclaimer	Fehler! Textmarke nicht definiert.
Document information	2
Changes since last version.....	3
List of figures.....	4
List of tables	4
1 Introduction	5
2 Scope.....	6
3 Conventions to be used.....	7
3.1 Item identification	7
3.2 Provisions from referenced documents	7
4 References.....	8
4.1 Normative references	8
4.2 Informative references.....	9

List of figures

None

List of tables

Table 1: Document information.....	2
Table 2: Change history	3
Table 3: Normative references	9
Table 4: Informative references	10

1 Introduction

Other (informational)

RS_Refs_00147

As references to other standards and their versions are essential information in the V2X area, CAR 2 CAR CC is providing them in:

- this separate document to make the information:
 - explicitly available (not “hidden” in the different requirement documents)
 - easy accessible (e.g. for alignment with other organizations)

2 Scope

Other (informational)

RS_Refs_00148

This document holds all normative and informative references of the CAR 2 CAR requirement specifications of this release bundle.

3 Conventions to be used

3.1 Item identification

Other (informational)

RS_Refs_00421

Each item of this document has its unique identifier starting with “RS_Refs_” as prefix. For any review annotations, remarks and/or questions please refer to this unique ID rather than chapter or page numbers!

3.2 Provisions from referenced documents

Other (informational)

RS_Refs_00153

Unless otherwise specified in the present document, the normative requirements included in the referenced documents supporting the required functionality of the C2C-CC basic system shall apply. The verbal forms for the definition of provisions of referenced documents are defined either inside the document, or generally by the SDO or the organization providing them. For example normative requirements in ETSI documents are indicated by the verbal form “shall”.

When the requirements defined in the standards published by the various organizations stand in conflict, or contradict the requirements specified inside this document, the ones specified inside this document shall always outweigh the requirements included inside the referenced documents.

4 References

4.1 Normative references

Definition

RS_Refs_00427

All documents, which are part of this release, are normative / informative depending on the document type, e.g:

- Requirement specifications are normative
- Explanatories are informative.

Please refer to C2CCC_TR_2000_ReleaseOverview.pdf for further details on this.

All normative documents, which are not part of this release, are listed below.

Symbol	Version	Title
[EN 302 571]	2.1.1	Intelligent Transport Systems (ITS); Radio communications equipment operating in the 5 855 MHz to 5 925 MHz frequency band; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive.
[EN 302 636-4-1]	1.3.1	Intelligent Transport Systems (ITS); Vehicular Communication; Geonetworking; Part 4 Geographical addressing and forwarding for point-to-point and point-to-multipoint communications; Sub-part 1: Media-Independent Functionality.
[EN 302 636-5-1]	2.1.1	Intelligent Transport Systems (ITS); Vehicular Communication; Geonetworking; Part 5: Transport Protocols; Sub-part 1: Basic Transport Protocols.
[EN 302 637-2]	1.4.0	Intelligent Transport Systems (ITS); Vehicular Communications; Basic Set of Applications; Part 2: Specification of Cooperative Awareness Basic Service.
[EN 302 637-3]	1.3.0	Intelligent Transport Systems (ITS); Vehicular Communications; Basic Set of Applications; Part 3: Specifications of Decentralized Environmental Notification Basic Service.
[EN 302 663]	1.2.1	Intelligent Transport Systems (ITS); Access layer specification for Intelligent Transport Systems operating in the 5 GHz frequency band.
[EN 302 665]	1.1.1	Intelligent Transport Systems (ITS); Communications Architecture
[EN 302 931]	1.1.1	Vehicular Communications; Geographical Area Definition.
[ISO 8855]	2011	Road vehicles - Vehicle dynamics and road-holding ability - Vocabulary, ISO, 2011
[TS 102 636-4-2]	1.1.1	Intelligent Transport Systems (ITS); Vehicular Communications; GeoNetworking; Part 4: Geographical addressing and forwarding for point-to-point and point-to-

		multipoint communications; Sub-part 2: Media-dependent functionalities for ITS-G5
[TS 102 687]	1.2.1	Decentralized Congestion Control Mechanisms for Intelligent Transport Systems operating in the 5 GHz range; Access layer part.
[TS 102 724]	1.1.1	Intelligent Transport Systems (ITS); Harmonized Channel Specifications for Intelligent Transport Systems operating in the 5 GHz frequency band.
[TS 102 792]	1.2.1	Intelligent Transport Systems (ITS); Mitigation techniques to avoid interference between European CEN Dedicated Short Range Communication (CEN DSRC) equipment and Intelligent Transport Systems (ITS) operating in the 5 GHz frequency rang.
[TS 102 894-2]	1.3.1	Intelligent Transport Systems (ITS); Users and applications requirements; Applications and facilities layer common data dictionary.
[TS 102 965]	1.4.1	Intelligent Transport Systems (ITS); Application Object Identifier (ITS – AID); Registration list.
[TS 103 097]	1.3.1	Intelligent Transport Systems (ITS); Security; Security Header and Certificate Formats.
[TS 103 248]	1.2.1	Intelligent Transport Systems (ITS); GeoNetworking; Port Numbers for the Basic Transport Protocol (BTP)

Table 3: Normative references

4.2 Informative references

Other (informational)

RS_Refs_00151

Symbol	Version	Title
[C-ITS CP]	1.1	„Certificate Policy for Deployment and Operation of European Cooperative Intelligent Transport Systems (C-ITS)“ [Online]. Available: https://ec.europa.eu/transport/sites/transport/files/c-its_certificate_policy-v1.1.pdf
[C-ITS SP]	1	„Security Policy & Governance Framework for Deployment and Operation of European Cooperative Intelligent Transport Systems (C-ITS)“ [Online]. Available: https://ec.europa.eu/transport/sites/transport/files/c-its_security_policy_release_1.pdf
[IEEE 802.11]	2012	Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications
[Reg121]	---	Regulation No 121 of the Economic Commission for Europe of the United Nations (UN/ECE) – Uniform provisions concerning the approval of vehicles with regard to the location and identification of hand controls, tell-tales and indicators

[Reg48]	---	European Norm ECE Regulations No. 48, No. 13 and 13-H
[SAE J2945/1]	---	SAE J2945/1: On-board System Requirements for V2V Safety Communications, March 2016
[TS 102 731]	1.1.1	Intelligent Transport Systems (ITS); Security; Security Services and Architecture
[TS 102 940]	1.3.1	Intelligent Transport Systems (ITS); Security; ITS communications security Architecture and security management
[TS 102 941]	1.2.1	Intelligent Transport Systems (ITS); Security; Trust and Privacy Management

Table 4: Informative references