
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 61 members, with 11 vehicle manufacturers, 31 equipment suppliers and 29 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

The present document has been developed within the CAR 2 CAR Communication Consortium and might be further elaborated within the CAR 2 CAR Communication Consortium. The CAR 2 CAR Communication Consortium and its members accept no liability for any use of this document and other documents from the CAR 2 CAR Communication Consortium for implementation. CAR 2 CAR Communication Consortium documents should be obtained directly from the CAR 2 CAR Communication Consortium.

Copyright Notification: No part may be reproduced except as authorized by written permission. The copyright and the foregoing restriction extend to reproduction in all media. © 2020, CAR 2 CAR Communication Consortium.

Document information

Number: 2052	Version: n.a.	Date: 27/03/2020
Title: References	Document Type: RS	
Release 1.5.0		
Release Status: Public		
Status: Final		

Table 1: Document information

Changes since last version

Title:	CAR 2 CAR Communication Consortium References
---------------	--

Explanatory notes:

27/03/2020	<ul style="list-style-type: none"> • Minor corrections • further informative references added 	Release Management	Steering Committee
13/09/2019	Minor corrections	Release Management	Steering Committee
31/08/2018	Initial setup of document	Release Management	Steering Committee

Date	Changes	Edited by	Approved
-------------	----------------	------------------	-----------------

Table 2: Change history

Table of contents

About the C2C-CC	1
Disclaimer	1
Document information	2
Changes since last version.....	3
Table of contents.....	4
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	11

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]	1.4.1	Intelligent Transport Systems (ITS); Vehicular Communications; Basic Set of Applications; Part 2: Specification of Cooperative Awareness Basic Service.
[EN 302 637-3]	1.3.1	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]	2011-12	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
[ECE 121]	2016-01-08	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 [2016/18]; Available: http://data.europa.eu/eli/reg/2016/18/oj

[ECE 13]	2016-02-18	Regulation No 13 of the Economic Commission for Europe of the United Nations (UN/ECE) — Uniform provisions concerning the approval of vehicles of categories M, N and O with regard to braking [2016/194]; Available: http://data.europa.eu/eli/reg/2016/194/oj
[ECE 13H]	2015-12-22	Regulation No 13-H of the Economic Commission for Europe of the United Nations (UN/ECE) — Uniform provisions concerning the approval of passenger cars with regard to braking [2015/2364]; Available: http://data.europa.eu/eli/reg/2015/2364/oj
[ECE 48]	2019-01-16	Regulation No 48 of the Economic Commission for Europe of the United Nations (UNECE) — Uniform provisions concerning the approval of vehicles with regard to the installation of lighting and light-signalling devices [2019/57]; Available: http://data.europa.eu/eli/reg/2019/57/oj
[ECE 53]	2020-01-15	UN Regulation No 53 — Uniform provisions concerning the approval of category L3 vehicles with regard to the installation of lighting and light-signalling devices [2020/31]; Available: http://data.europa.eu/eli/reg/2020/31/oj
[ECE 78]	2017-09-14	European Norm ECE Regulations No. 78 of the Economic Commission for Europe of the United Nations (UN/ECE) — Uniform provisions concerning the approval of vehicles of categories L1, L2, L3, L4 and L5 with regard to braking; Available: https://www.unece.org/fileadmin/DAM/trans/main/wp29/wp29regs/2018/R078r2e.pdf
[IEEE 1609.2]	2016 amended by 2017	IEEE Std 1609.2™ Standard for Wireless Access in Vehicular Environments -- Security Services for Applications and Management Messages
[IEEE 802.11]	2012	Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications
[IEEE 802.1D]	1998	IEEE Standard for Information technology – Telecommunications and information exchange between systems - Local and metropolitan area networks – Common specifications- Part 3: Media Access Control (MAC) Bridges
[ISO/TS 19091]	2019-06	Intelligent transport systems - Cooperative ITS - Using V2I and I2V communications for applications related to signalized intersections
[SAE J2945/1]	2016-03	SAE J2945/1: On-board System Requirements for V2V Safety Communications
[SAE J2735]	2016-01	Dedicated Short Range Communications (DSRC) Message Set Dictionary
[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]	1.3.1	Intelligent Transport Systems (ITS); Security; Trust and Privacy Management

Table 4: Informative references