References

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

Document information

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Table 1: Document information

Changes since last version

Title:	CAR 2 CAR Communication Consortium References		
Explanatory notes:			
31/07/2020	Minor corrections	Release Management	Steering Committee
27/03/2020	• 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

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None

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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 Communication Consortium is providing them in:

- this separate document to make the information:
  - explicitly available (not ‘hidden’ in the different requirement documents)
  - easily 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 References

3.1 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-

Symbol	Version	Title
		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

3.2 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

Symbol	Version	Title
		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
[EN 302 890-2]	V2.1.1	Intelligent Transport Systems (ITS); Facilities Layer function; Part 2: Position and Time management (PoTi); Release 2
[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

Symbol	Version	Title
[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

3.3 Machine-readable definitions

Other (informational) **RS_Refs_00152**

Published ASN.1 definitions of referenced ETSI standards are listed in the table below. Please note, the provided links lead to the versions and all corrections, which were available at the time, this C2C-CC specification bundle was developed and released.

More up-to-date ASN.1 definitions might be available in the meantime. To find the latest versions, please navigate to the master branch on the referenced page.

Symbol	Abstract Syntax Notation definitions (ASN.1)
[EN 302 637-2]	https://forge.etsi.org/rep/ITS/asn1/cam_en302637_2/tree/7ae4195d48dd468754a50f1a3bb0c2ce976ae15a
[EN 302 637-3]	https://forge.etsi.org/rep/ITS/asn1/denm_en302637_3/tree/29ec748fd9a0e44b91e1896867fa34453781e334
[TS 102 894-2]	https://forge.etsi.org/rep/ITS/asn1/cdd_ts102894_2/tree/151b191121d05c3b808f5dec14387339730db14f
[TS 103 097]	https://forge.etsi.org/rep/ITS/asn1/cdd_ts102894_2/tree/151b191121d05c3b808f5dec14387339730db14f
[IEEE 1609.2]	https://forge.etsi.org/rep/ITS/asn1/ieee1609.2/tree/daae766d4dc72b52c7fcc0ade5f86529015e61d3
[TS 102 941]	https://forge.etsi.org/rep/ITS/asn1/pki_ts102941/tree/0ad802c5d4ee3343d2b436c53f57375766707574