

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). The Consortium members represent worldwide major vehicle manufactures, equipment suppliers and 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 and its members work in close cooperation with the European and international standardisation organisations.

Disclaimer

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Table 1: Document information

Changes since last release

Release	Date	Changes	Edited by	Approved
2.0.1	2024-07-12	Initial setup of document	Release Management	Steering Committee

Table 2: Changes since last release

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

Symbol	Version	Title
[CMC Basic Specification]	1.0	CMC Basic Specification Overview, Connected Motorcycle Consortium, Available: https://www.cmc-info.net/basic-specification.html
[C-ITS Message Profile]	R2.1.0	C-Roads, C-ITS Message Profiles and Parameters, Available: https://releases.c-roads.eu/
[GDPR]	2016/679	General Data Protection Regulation (GDPR), Available: http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32016R0679 ; EU

Table 3: Normative references

3.2 Informative references

Other (informational)

RS_Refs_00151

Symbol	Version	Title
[C2CCC ConV].	R1.6.5	Conventions used, CAR 2 CAR Communication Consortium, 2023-07-21, Available: https://www.car-2-car.org/fileadmin/documents/Basic_System_Profile/Release_1.6.5/C2CCC_TR_2086_Conventions_R165.pdf
[C2CCC Roadmap]	V1.2	Guidance for day 2 and beyond roadmap, CAR 2 CAR Communication Consortium, 2021-07-09, Available: https://www.car-2-car.org/fileadmin/documents/General_Documents/C2CCC_WP_2072_RoadmapDay2AndBeyond_V1.2.pdf
[ECE R.E.3]	Rev 3 23 rd of January 2014	Consolidated Resolution on the Construction of Vehicles (R.E.3) — Regulation No 3 of the Economic Commission for Europe of the United Nations (UN/ECE) — ECE/TRANS/WP.29/78/Rev.3 Uniform provisions concerning the approval of vehicles of categories M, N and O with regard to braking [2016/194], Available: https://unece.org/fileadmin/DAM/trans/main/wp29/wp29resolutions/ECE-TRANS-WP29-78-r3e.pdf
[EN 15194]	2017, 2023	CEN, BS EN 15194:2017+A1:2023, Electrically power assisted cycles - EPAC Bicycles, Available: https://www.en-standard.eu/bs-en-15194-2017-a1-2023-cycles-electrically-power-assisted-cycles-epac-bicycles/
[EN 15509]	29 th of March 2023	CEN, EN 15509:2023, Electronic fee collection - Interoperability application profile for DSRC, Available: https://standards.cencenelec.eu/dyn/www/f?p=CEN:110:0:::FSP_PROJECT:71840&cs=1325061795468D97CB974727A211757AD
[EN 301 893]	Draft V2.2.0 (2023-11)	ETSI, 5 GHz WAS/RLAN; Harmonised Standard for access to radio spectrum, Available: https://www.etsi.org/deliver/etsi_en/301800_301899/301893/02.02.00_20/en_301893v020200ev.pdf
[EU R168]	No 168 / 2013	REGULATION (EU) No 168/2013 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL, of 15 January 2013, on the approval and market surveillance of two- or three-wheel vehicles and quadricycles, Available: https://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2013:060:0052:0128:en:PDF
[EU D42]	17 th of May 2006	DIRECTIVE 2006/42/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL, of 17 May 2006, on machinery, and amending Directive 95/16/EC (recast), Available: https://eur-

Symbol	Version	Title
		lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2006:157:0024:0086:en:PDF
[GDPR].	27 th of April 2016	Regulation (EU) 2016/679 (General Data Protection Regulation), Available: http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32016R0679
[PFB Law]	June 2021	PeopleForBikes, Electric Bicycle Law Basics https://peopleforbikes.cdn.prismic.io/peopleforbikes/29e81dec-5c0b-4b61-a41d-864384d3aecc_E-Bike-Law-Primer_June_2021.pdf
[TR 103 460]	V2.1.1 October 2020-10	Intelligent Transport Systems (ITS); Security; Pre-standardization study on Misbehavior Detection; Release 2; https://www.etsi.org/deliver/etsi_tr/103400_103499/103460/02.01.01_60/tr_103460v020101p.pdf
[WP.5/GE.5]	No. 6 2 nd of November 2023	Informal document WP.5/GE.5 (2023) No. 6, Proposals concerning cycle definition https://unece.org/sites/default/files/2023-11/id23_WP5-GE5_06e.pdf

Table 4: Informative references

3.3 Recognition and validation status of other C-ITS station type profiles

Definition

RS_Refs_00427

In following table provides an overview of the recognition or validation status by C2C-CC of profiles for specific C-ITS station types, of other organization which are not covered by the C2C-CC profile or are extending it.

The used terms have the following meaning:

- Recognized – C2C-CC in general support the used approach and supports to uses these profiles / specifications as basis for implementations
- Validated – C2C-CC has evidence that implementation according these profiles / specifications are a good basis for C-ITS stations, which are compatible with C2C-CC Profile based C-ITS stations. Such evidence can be:
 - Seamlessly operating systems
 - Test reports

C-ITS station Type	Profile			Status	
	Name	Part	Sub-part	[recognized validated]	How achieved
Infrastructure	[C-ITS Message Profile] https://releases.c-roads.eu/	C-ITS EU Handbook MAPEM-SPATEM_2.0.9 for publication		recognized	
		C-Roads_TF1_C-ITS_Security_and_Governance_2.0.7		recognized	
		C-Roads_TF1_C-ITS_Security_Requirements_and_Specifications_2.0.5		recognized	
		C-Roads_WG2_TF2_Service and Use Case Definitions 2.1.0 For Publication	RWW	validated	By operation
			All other parts	recognized	
C-Roads_WG2_TF3_C-ITS Infrastructure Mobile ITS-G5 System Profile_2.1.0 for publication		--			

C-ITS station Type	Profile			Status	
	Name	Part	Sub-part	[recognized validated]	How achieved
		C-Roads_WG2_TF3_C-ITS MessageProfiles_2.1.0 for publication		recognized	
		C-Roads_WG2_TF3_C-ITS Roadside ITS-G5 System Profile_2.1.0 for publication		recognized	
		C-Roads_WG2_TF4_C-ITS IP Based Interface Profile_2.1.0_SCOM		recognized	
		TF5 C-ITS Test Plan_R2.0.5		recognized	
		TF5_C-ITS_Cross-Border_Testing-PCAP_Exchange_Specification_R2.0.3		recognized	
		TF5_C-ITS_Cross-Border-Testing-and-Validation-Concept_R2.0.3		recognized	
PTW	[CMC Basic Specification] https://www.cmc-info.net/downloads.html	All		recognized	

Table 5: 1.1 Recognition and validation status of other C-ITS station type profiles