Release Overview
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). 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

Document information

Number:	2000	**Version:**	n.a.	**Date:**	2023-12-15
Title:	Release Overview			**Document Type:**	TR
Release	1.6.5				
Release Status:	Public				
Status:	Final				

Table 1: Document information

Changes since last release

Release	Date	Changes	Edited by	Approved
1.6.5	2023-12-15	Updated according to R1.6.5	Release Management	Steering Committee
1.6.4	2023-07-21	Updated according to R1.6.4	Release Management	Steering Committee
1.6.3	2022-12-16	Updated according to R1.6.3	Release Management	Steering Committee
1.6.2	2022-07-22	Updated according to R1.6.2	Release Management	Steering Committee
1.6.1	2021-12-17	Updated according to R1.6.1	Release Management	Steering Committee
1.6.0	2021-07-23	Updated according to R1.6.0	Release Management	Steering Committee
1.5.3	2021-03-12	Updated according to R1.5.3	Release Management	Steering Committee
1.5.2	2021-12-16	Updated according to R1.5.2	Release Management	Steering Committee
1.5.1	2020-07-31	Updated according to R1.5.1	Release Management	Steering Committee
1.5.0	2020-03-27	Initially provided	Release Management	Steering Committee

Table 2: Changes since last release

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None

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1 Introduction

Other (informational)   **TR_ RelOv_00147**

The CAR 2 CAR Communication Consortium is pleased to provide the release 1.6.5 on the 15th of December 2023.

2   Scope

Other (informational)   **TR_ RelOv_00146**

This Release Overview provides information on the specifications which are part of this release, like:

- which deliverables are part of the release or
- what are the changes since the last release.

3   Conventions used

Other (informational)   **TR_RelOv_00152**

Conventions used in this and other C2C-CC specification documents can be found in [C2CCC ConV].

4 Deliverables

The following table shows all documents which are part of this release (1.6.5):

Table 3: Deliverables

UID	Abbreviation	Symbol for Referencing		Long Name	File Name
2000	RelOv	[C2CCC RelOv]		Release Overview	C2CCC_TR_2000_ReleaseOverview.pdf
2002	tcAdWe	[C2CCC tc Docs]	[C2CCC tcAdWe]	Triggering Conditions and Data Quality Adverse Weather Conditions	C2CCC_RS_2002_AdverseWeather.pdf
2003	tcDaSi		[C2CCC tcDaSi]	Triggering Conditions and Data Quality Dangerous Situation	C2CCC_RS_2003_DangerousSituation.pdf
2004	tcIRC		[C2CCC tcIRC]	Triggering Conditions and Data Quality Exchange of IRCs	C2CCC_RS_2004_ExchangeofIRC.pdf
2005	tcSpVe		[C2CCC tcSpVe]	Triggering Conditions and Data Quality Special Vehicle Warning	C2CCC_RS_2005_SpecialVehicle.pdf
2006	tcStVe		[C2CCC tcStVe]	Triggering Conditions and Data Quality Stationary Vehicle Warning	C2CCC_RS_2006_StationaryVehicle.pdf
2007	tcTrJa		[C2CCC tcTrJa]	Triggering Conditions and Data Quality Traffic Condition	C2CCC_RS_2007_TrafficCondition.pdf
2035	OBJ	[C2CCC OBJ]		Objectives	C2CCC_RS_2035_Objectives
2036	FEA	[C2CCC FEA]		Features	C2CCC_RS_2036_Features
2037	BSP	[C2CCC BSP]		Vehicle C-ITS station Profile	C2CCC_RS_2037_Profile
2052	Refs	[C2CCC Refs]		Reference list	C2CCC_RS_2052_References
2053	Glos	[C2CCC Glos]		Glossary	C2CCC_TR_2053_Glossary
2056	HSM	[C2CCC HSM]		Protection Profile V2X Hardware Security Module	C2CCC_PP_2056_HSM
2080	ARI	[C2CCC ARI]		Automotive Requirements for the Infrastructure to Vehicle Information (IVI) Service	C2CCC_RS_2080_IVI_AutomotiveRequirements
2086	ConV	[C2CCC ConV]		Conventions used	C2CCC_TR_2086_Conventions
2302	VCS	[C2CCC VCS]		Protection Profile Vehicle C-ITS Station	C2CCC_PP_2302_VCS
2305	DENMM	[C2CCC DENMM]		Mapping between DENM and other message formats	C2CCC_TR_2305_DENM_Mapping

The entries of column 'Symbol for Referencing' are used to reference documents of this release. Furthermore, the symbol: [C2CCC tc Docs] represents all Triggering Condition documents as in the table above.

5 Change history

5.1 In general

The achievements of this release are:

- Aftermarket devices:
  - are fully covered in the vehicle C-ITS station profile now
- Introduced:
  - new attribute (#a) (which expresses whether a requirement is relevant to allow for a communication technology agnostic implementation)
- Significant updates of
  - *Automotive Requirements for the Infrastructure to Vehicle Information (IVI) Service (UID 2080)*
- New deliverable added which is crucial for mapping of DENMs to backend standards:
  - *Mapping between DENM and other message formats (UID 2305)*

5.2 Per document

The following table shows the changes since the last release per document:

Table 4: Change history per document

UID	Long Name	History
2000	Release Overview	• Adapted according to release 1.6.5
2002	Triggering Conditions and Data Quality Adverse Weather Conditions	• No changes
2003	Triggering Conditions and Data Quality Dangerous Situation	• No changes
2004	Triggering Conditions and Data Quality Exchange of IRCs	• No changes
2005	Triggering Conditions and Data Quality Special Vehicle Warning	• No changes
2006	Triggering Conditions and Data Quality Stationary Vehicle Warning	• No changes
2007	Triggering Conditions and Data Quality Traffic Condition	• No changes
2035	Objectives	• No changes
2036	Features	• No changes
2037	Vehicle C-ITS station profile	• Aftermarket devices are fully covered now • Changed attribute (i) to (#i) • Introduced new attribute (#a) (which expresses whether a requirement is relevant to allow for a communication technology agnostic implementation) • Detailed regular driving dynamics

2052	Reference list	Updated ASN.1 reference of: • [TS 102 894-2] Updated normative reference of: • [C-ITS Message Profile] Added as informative reference: • [ITSTF 20001] • [ISO 21219-15] • [ISO 14819-2] • [EN 16157-3] • [TS 102 894-2 V2.2.1]
2053	Glossary	• Changed entry of: BSP • Added VSP
2056	Protection Profile V2X Hardware Security Module	• No content changes ○ Certificate is linked in the document
2077	Automotive Requirements for the Traffic Light Manoeuvre (TLM) and Road and Lane Topology (RLT) Services	• Removed from release
2080	Automotive Requirements for the Infrastructure to Vehicle Information (IVI) Service	• Clarification in several requirements • Detailing of RCC requirements • Zones covering the full carriageway
2086	Conventions used	• Added description for tag (#a) and updated (i) to (#i)
2302	Protection Profile Vehicle C-ITS Station	• Initial release • Will be made available after certification
2305	Mapping between DENM and other message formats	• Initial release

5.3 Per requirement

The following table shows the changes since the last release per requirement:

Table 5: Change history per requirement

Note: Requirement changes due to removal or initial release of whole documents are not listed here. For such information please refer rather to clause 5.2.

Change			
Affected requirement	**Kind of change**		
ID	**Added**	**Changed**	**Removed**
RS_ARI_100	X		
RS_ARI_101	X		
RS_ARI_102	X		
RS_ARI_17		X	
RS_ARI_18		X	
RS_ARI_19		X	
RS_ARI_2		X	
RS_ARI_28		X	
RS_ARI_30		X	
RS_ARI_30		X	
RS_ARI_35		X	
RS_ARI_40		X	
RS_ARI_42		X	
RS_ARI_45		X	
RS_ARI_48		X	
RS_ARI_52		X	
RS_ARI_56		X	
RS_ARI_60		X	
RS_ARI_61		X	
RS_ARI_66		X	
RS_ARI_68		X	
RS_ARI_73			X
RS_ARI_75		X	
RS_ARI_76		X	
RS_ARI_82		X	
RS_ARI_86		X	
RS_ARI_90		X	
RS_ARI_90		X	
RS_ARI_95		X	
RS_ARI_95		X	
RS_ARI_97	X		
RS_ARI_98	X		

Change			
Affected requirement	**Kind of change**		
ID	**Added**	**Changed**	**Removed**
RS_ARI_99	X		
RS_BSP_158		X	
RS_BSP_265		X	
RS_BSP_449		X	
RS_BSP_514		X	
RS_BSP_520		X	
RS_BSP_538		X	
RS_Refs_00151		X	
RS_Refs_00152		X	
RS_Refs_00427		X	
TR_ConV_159		X	
TR_ConV_163	X		
TR_Glos_01000		X	

Also available as Excel file for C2C-CC members:

- https://collab.car-2-car.org/index.php/f/78908

6   Known issues

The *Protection Profile Vehicle C-ITS Station (UID 2305)* will only be made available after certification