
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

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.

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Document information

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Release	1.6.2				
Release Status:	Public				
Status:	Final				

Table 1: Document information

Changes since last version

Date Changes	Edited by	Approved
2022-07-22 Updated according to R1.6.2	Release Management	Steering Committee
2021-12-17 Updated according to R1.6.1	Release Management	Steering Committee
2021-07-23 Updated according to R1.6.0	Release Management	Steering Committee
2021-03-12 Updated according to R1.5.3	Release Management	Steering Committee
2021-12-16 Updated according to R1.5.2	Release Management	Steering Committee
2020-07-31 Updated according to R1.5.1	Release Management	Steering Committee
2020-03-27 Initially provided	Release Management	Steering Committee

Table 2: Change history

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1 Introduction

Other (informational)

TR_ RelOv_00147

The CAR 2 CAR Communication Consortium is pleased to provide the release 1.6.2 on the 22nd of July 2022.

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 (1.6.2):

Table 3: Deliverables

UID	Abbreviation	Symbol for Referencing	Long Name	File Name
2000	RelOv	[C2CCC RelOv]	Release Overview	C2CCC_TR_2000_Release Overview.pdf
2002	tcAdWe	[C2CCC tc Docs]	[C2CCC tcAdWe] Triggering Conditions and Data Quality Adverse Weather Conditions	C2CCC_RS_2002_Adverse Weather.pdf
2003	tcDaSi		[C2CCC tcDaSi] Triggering Conditions and Data Quality Dangerous Situation	C2CCC_RS_2003_Dangerous Situation.pdf
2004	tcIRC		[C2CCC tcIRC] Triggering Conditions and Data Quality Exchange of IRCs	C2CCC_RS_2004_Exchange of IRC.pdf
2005	tcSpVe		[C2CCC tcSpVe] Triggering Conditions and Data Quality Special Vehicle Warning	C2CCC_RS_2005_Special Vehicle.pdf
2006	tcStVe		[C2CCC tcStVe] Triggering Conditions and Data Quality Stationary Vehicle Warning	C2CCC_RS_2006_Stationary Vehicle.pdf
2007	tcTrJa		[C2CCC tcTrJa] Triggering Conditions and Data Quality Traffic Jam	C2CCC_RS_2007_Traffic Jam.pdf
2066	tcPCI		[C2CCC tcPCI] Triggering Conditions and Data Quality Stationary Vehicle Warning	C2CCC_RS_2066_Pre-Crash Information
2035	OBJ		[C2CCC OBJ]	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
2067	PCIASN	[C2CCC PCIASN]	ASN.1 extension for Pre-Crash Information	C2CCC_RS_2067_Pre-Crash Information_Asn Extension
2077	ARSM	[C2CCC ARSM]	Automotive Requirements for the Traffic Light Manoeuvre (TLM) and Road and Lane Topology (RLT) Services	C2CCC_RS_2077_TLM_RLT_Automotive Requirements

UID	Abbreviation	Symbol for Referencing	Long Name	File Name
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

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:

- Improvement of:
 - *Triggering Conditions and Data Quality Special Vehicle Warning* by:
Correction of mixed up use of *stationType* and *vehicleRole* – *stationType* is not set to *specialVehicle* (10) anymore but rather in accordance with [TS 102 894-2].
- The alignment with Infrastructure requirements as maintained by C-Roads has been driven forward, which is reflected by:
 - several requirement changes in: *Automotive Requirements for the Infrastructure to Vehicle Information (IVI) Service*.

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 1.6.2
2002	Triggering Conditions and Data Quality Adverse Weather Conditions	Minor editorial 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	<ul style="list-style-type: none"> • Correction of mixed up use of <i>stationType</i> and <i>vehicleRole</i> <ul style="list-style-type: none"> ○ <i>stationType</i> is not set to <i>specialVehicle</i> (10) anymore but rather in accordance with [TS 102 894-2]. • For further corrections please refer to clause 5
2006	Triggering Conditions and Data Quality Stationary Vehicle Warning	Removed <i>hazard lights</i> from triggering condition RS_tcStVe_142
2007	Triggering Conditions and Data Quality Traffic Jam	No changes
2035	Objectives	No changes
2036	Features	No changes
2037	Vehicle C-ITS station profile	Minor changes, like:

		<ul style="list-style-type: none"> Improved RS_BSP_534 in respect to 'permanent extension' CCH (Control Channel) to SCH0
2052	Reference list	<p>Added as normative references:</p> <ul style="list-style-type: none"> [C-ITS Message Profile] [ISO/TS 19321] [ISO/TS 14823] [IEEE 1609.2.1] <p>Updated entry of:</p> <ul style="list-style-type: none"> [IEEE 1609.2]
2053	Glossary	No changes
2056	Protection Profile V2X Hardware Security Module	<p>No content changes</p> <ul style="list-style-type: none"> Certificate is linked in the document
2066	Triggering Conditions and Data Quality Pre-Crash Information	<ul style="list-style-type: none"> Set document to obsolete as the content has been considered in standardization by ETSI <ul style="list-style-type: none"> Document will not be published in future releases anymore Removed marking of requirements, indicating relevance for interoperability according to [CPOC]
2067	ASN.1 extension for Pre-Crash Information	<p>Set document to obsolete as the content has been considered in standardization by ETSI</p> <ul style="list-style-type: none"> Document will not be published in future releases anymore
2077	Automotive Requirements for the Traffic Light Manoeuvre (TLM) and Road and Lane Topology (RLT) Services <i>(former: Automotive Requirements for SPaT and MAP)</i>	No changes
2080	Automotive Requirements for the Infrastructure to Vehicle Information (IVI) Service <i>(former: Automotive Requirements for IVIM)</i>	<ul style="list-style-type: none"> Several requirements changed in context of alignment with C-Roads A list of changed, added or removed requirements can be found in clause 5
2086	Conventions used	<ul style="list-style-type: none"> No changes

5.3 Per requirement

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

Table 5: Change history per requirement

Change			
Affected requirement	Kind of change		
ID	Added	Changed	Removed
RS_ARI_14		X	
RS_ARI_19		X	
RS_ARI_2		X	
RS_ARI_22		X	
RS_ARI_29		X	
RS_ARI_30		X	
RS_ARI_32			X
RS_ARI_36			X
RS_ARI_42		X	
RS_ARI_46		X	
RS_ARI_50		X	
RS_ARI_59			X
RS_ARI_68		X	
RS_ARI_71		X	
RS_ARI_75		X	
RS_ARI_77		X	
RS_ARI_79		X	
RS_ARI_87		X	
RS_ARI_92	X		
RS_ARI_93	X		
RS_ARI_94	X		
RS_ARI_95	X		
RS_BSP_225		X	
RS_BSP_228		X	
RS_BSP_246		X	
RS_BSP_397		X	
RS_BSP_416		X	
RS_BSP_443		X	

Change			
Affected requirement	Kind of change		
ID	Added	Changed	Removed
RS_BSP_443		X	
RS_BSP_534		X	
RS_BSP_544		X	
RS_BSP_545		X	
RS_BSP_546	X		
RS_Refs_00151		X	
RS_Refs_00152		X	
RS_Refs_00427		X	
RS_tcAdWe_135		X	
RS_tcAdWe_150		X	
RS_tcAdWe_169		X	
RS_tcSpVe_119		X	
RS_tcSpVe_125		X	
RS_tcSpVe_131		X	
RS_tcSpVe_131		X	
RS_tcSpVe_131		X	
RS_tcSpVe_132		X	
RS_tcSpVe_133		X	
RS_tcSpVe_138		X	
RS_tcSpVe_147		X	
RS_tcSpVe_148		X	
RS_tcSpVe_153		X	
RS_tcSpVe_155		X	
RS_tcSpVe_159		X	
RS_tcSpVe_167		X	
RS_tcSpVe_168		X	
RS_tcSpVe_173		X	
RS_tcSpVe_174		X	
RS_tcSpVe_175		X	
RS_tcSpVe_240		X	
RS_tcSpVe_241		X	

Change			
Affected requirement	Kind of change		
ID	Added	Changed	Removed
RS_tcStVe_117		X	
RS_tcStVe_139		X	
RS_tcStVe_142		X	

Also available as Excel file for C2C-CC members:

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

6 Known issues

none