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:	2022-12-16
Title:	Release Overview			Document Type:	TR
Release	1.6.3				
Release Status:	Public				
Status:	Final				

Table 1: Document information

Changes since last release

Release	Date	Changes	Edited by	Approved
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 1.6.3 on the 16th of December 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].

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4 Deliverables

The following table shows all documents which are part of this release (1.6.3):

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
2077	ARSM	[C2CCC ARSM]		Automotive Requirements for the Traffic Light Manoeuvre (TLM) and Road and Lane Topology (RLT) Services	C2CCC_RS_2077_TLM_RLT_AutomotiveRequirements
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:

- Adapted former *Triggering Conditions and Data Quality Traffic Jam* document:
  - Improved detection quality of traffic conditions
  - Detailed self-declaration of features by:
    - Renaming of document from *Triggering Conditions and Data Quality Traffic Jam* to *Triggering Conditions and Data Quality Traffic Condition*
    - Changing the phrases:
      - *traffic jam* to *traffic condition*
      - *dangerous end of queue* to *sudden speed drop*
      - *traffic jam ahead* to *local slow down*
- Further improvement of: *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 1.6.3
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	Minor corrections
2005	Triggering Conditions and Data Quality Special Vehicle Warning	Minor changes
2006	Triggering Conditions and Data Quality Stationary Vehicle Warning	No changes

2007	Triggering Conditions and Data Quality Traffic Condition	Content changes:
		- Improved detection quality of traffic conditions
		- Changed phrases:
		  - *traffic jam* to *traffic condition*
		  - *dangerous end of queue* to *sudden speed drop*
		  - *traffic jam ahead* to *local slow down*
		Renamed document from *Triggering Conditions and Data Quality Traffic Jam* to *Triggering Conditions and Data Quality Traffic Condition*

2035	Objectives	No changes
2036	Features	No changes
2037	Vehicle C-ITS station profile	Minor changes
2052	Reference list	Added as informative reference: [TS 103 831] V2.1.1
2053	Glossary	No changes
2056	Protection Profile V2X Hardware Security Module	No content changes • Certificate is linked in the document
2066	Triggering Conditions and Data Quality Pre-Crash Information	Removed from release
2067	ASN.1 extension for Pre-Crash Information	Removed from release
2077	Automotive Requirements for the Traffic Light Manoeuvre (TLM) and Road and Lane Topology (RLT) Services *(former: Automotive Requirements for SPaT and MAP)*	No changes
2080	Automotive Requirements for the Infrastructure to Vehicle Information (IVI) Service *(former: Automotive Requirements for IVIM)*	• Phrasing corrections (e.g., replacing "carriageway" in many occurrences) • Integration of preliminary requirements to full requirements • New requirement on laneWidth in RCC
2086	Conventions used	Added description of release numbering schema

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_22		X	
RS_ARI_22		X	
RS_ARI_45		X	
RS_ARI_46		X	
RS_ARI_47		X	
RS_ARI_48		X	
RS_ARI_50		X	
RS_ARI_84			X
RS_ARI_85			X
RS_ARI_86		X	
RS_ARI_89		X	
RS_ARI_96	X		
RS_BSP_214		X	
RS_BSP_544		X	
RS_BSP_546		X	
RS_BSP_547	X		
RS_Refs_00151		X	
RS_tcIRC_151	X		
RS_tcTrJa_105		X	
RS_tcTrJa_105		X	
RS_tcTrJa_105		X	
RS_tcTrJa_108		X	
RS_tcTrJa_121		X	
RS_tcTrJa_131		X	
RS_tcTrJa_131		X	
RS_tcTrJa_134		X	
RS_tcTrJa_135		X	
RS_tcTrJa_142		X	
RS_tcTrJa_148		X	
RS_tcTrJa_158		X	
RS_tcTrJa_93		X	
TR_ConV_162	X		

Also available as Excel file for C2C-CC members:

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

6 Known issues