
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

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Document information

Number:	2000	Version:	n.a.	Date:	2021-07-23
Title:	Release Overview	Document Type:	TR		
Release	1.6.0				
Release Status:	Public				
Status:	Final				

Table 1: Document information

Changes since last version

Title:		CAR 2 CAR Communication Consortium Release Overview		
Date	Changes	Edited by	Approved	
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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None

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1 Introduction

Other (informational)

TR_ RelOv_00147

The CAR 2 CAR Communication Consortium is pleased to provide the release 1.6.0 on the 23rd of July 2021.

2 Scope

Other (informational)

TR_ RelOv_00146

This Release Overview provides information on the specification 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 (1.6.0):

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_RS_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

The achievements of this release are:

- Major detailing of
 - rules for creation and update of the DENM eventHistory; associated modification of Maximum Hop Limit for GBC packets/IVIM specifications
- Consideration of PTW aspects in the requirements
- Changed status of Automotive SPAT MAP requirements back from obsolete to valid

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

Table 4: Change history

UID	Long Name	History
2000	Release Overview	Adapted according to release 1.6.0
2002	Triggering Conditions and Data Quality Adverse Weather Conditions	<ul style="list-style-type: none"> • Changes in the DENM update rules and geonetworking settings for better characterization of the DENM EventHistory; • Consequent deletion of requirements on blocking time and minimum detection interval
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	Consideration of PTW aspects in the requirements
2006	Triggering Conditions and Data Quality Stationary Vehicle Warning	Considerations of PTW aspect in the requirements
2007	Triggering Conditions and Data Quality Traffic Jam	No changes
2035	Objectives	No changes
2036	Features	No changes
2037	Vehicle C-ITS station profile	Detailing of: <ul style="list-style-type: none"> • AT changeover and • Position and timing Major detailing of rules for creation and update of the DENM eventHistory; associated modification of Maximum Hop Limit for GBC packets
2052	Reference list	Updated version of: <ul style="list-style-type: none"> • [EN 302 636-4-1] to V1.4.1 • [TS 102 636-4-2] to V1.4.1 • [TS 103 097] to V1.4.1

UID	Long Name	History
2053	Glossary	No changes
2056	Protection Profile V2X Hardware Security Module	<ul style="list-style-type: none"> • Removing ETSI security standards from referenced documents, focus on IEEE 1609.2[.1] • Key derivation package extended specifying allowed algorithm and the use case • Editorial changes to comply with formal specifications per Common Criteria • Additional application notes clarifying the requirements
2066	Triggering Conditions and Data Quality Pre-Crash Information	No changes
2067	ASN.1 extension for Pre-Crash Information	No changes
2077	Automotive Requirements for the Traffic Light Manoeuvre (TLM) and Road and Lane Topology (RLT) Services (former: Automotive Requirements for SPaT and MAP)	<ul style="list-style-type: none"> • Set document back from obsolete to valid • Adapted introduction (RS_ARSM_1) • Renaming of document from: <ul style="list-style-type: none"> ○ Automotive Requirements for SPaT and MAP to: <ul style="list-style-type: none"> ○ Automotive Requirements for the Traffic Light Manoeuvre (TLM) and Road and Lane Topology (RLT) Services
2080	Automotive Requirements for the Infrastructure to Vehicle Information (IVI) Service (former: Automotive Requirements for IVIM)	<ul style="list-style-type: none"> • Detailing of iviStatus handling • Several improvements of phrasings and figures • Editorial corrections • Renaming of document from: <ul style="list-style-type: none"> ○ Automotive Requirements for IVIM to <ul style="list-style-type: none"> ○ Automotive Requirements for the Infrastructure to Vehicle Information (IVI) Service
2086	Conventions used	No changes

6 Known issues

Note: In respect to [EN 302 663] a newer version exists, but consistency with the requirements has not been checked.