

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

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Title:	Release Overview			Document Type:	TR
Release	1.6.1				
Release Status:	Public				
Status:	Final				

Table 1: Document information



Changes since last version

Title:	CAR 2 CAR Commun Release Overview	ication Consortium	
Date	Changes	Edited by	Approved
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



Index

Table of contents	
About the C2C-CC	1
Disclaimer	1
Document information	2
Changes since last version	3
Index	4
List of figures	4
List of tables	4
1 Introduction	5
2 Scope	6
3 Conventions used	7
4 Deliverables	8
5 Change history	10
5.1 In general	10
5.2 Per document	
5.3 Per requirement	
6 Known issues	14
List of figures	
None	
List of tables	
Table 1: Document information	2
Table 2: Change history	3
Table 3: Deliverables	8
Table 4: Change history per document	10

Table 5: Change history per requirement......12



1 Introduction

Other (informational)

TR_ RelOv_00147

The CAR 2 CAR Communication Consortium is pleased to provide the release 1.6.1 on the 17th of December 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 (1.6.1):

Table 3: Deliverables

UID	Abbrev iation	Symbol for Referencing		Long Name	File Name	
	iation				C2CCC_TR_2000_Release	
2000	RelOv	[C2CCC RelOv]		Release Overview	Overview.pdf	
2002	tcAdW e		[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_Dangero usSituation.pdf	
2004	tcIRC		[C2CCC tcIRC]	Triggering Conditions and Data Quality Exchange of IRCs	C2CCC_RS_2004_Exchang eofIRC.pdf	
2005	tcSpVe	[C2CCC tc Docs]	[C2CCC tcSpVe]	Triggering Conditions and Data Quality Special Vehicle Warning	C2CCC_RS_2005_SpecialV ehicle.pdf	
2006	tcStVe		[C2CCC tcStVe]	Triggering Conditions and Data Quality Stationary Vehicle Warning	C2CCC_RS_2006_Stationar yVehicle.pdf	
2007	tcTrJa		[C2CCC tcTrJa]	Triggering Conditions and Data Quality Traffic Jam	C2CCC_RS_2007_TrafficJa m.pdf	
2066	tcPCI		[C2CCC tcPCI]	Triggering Conditions and Data Quality Stationary Vehicle Warning	C2CCC_RS_2066_Pre- CrashInformation	
2035	OBJ	[C2CCC OBJ]		Objectives	C2CCC_RS_2035_Objectiv es	
2036	FEA	[C2CCC F	EA]	Features	C2CCC_RS_2036_Features	
2037	BSP	[C2CCC E	SP]	Vehicle C-ITS station Profile	C2CCC_RS_2037_Profile	
2052	Refs	[C2CCC Refs]		Reference list	C2CCC_RS_2052_Referen	
2053	Glos	[C2CCC Glos]		Glossary	C2CCC_TR_2053_Glossary	
2056	HSM	[C2CCC HSM]		Protection Profile V2X Hardware Security Module	C2CCC_RS_2056_HSM	
2067	PCIAS N	[C2CCC PCIASN]		ASN.1 extension for Pre-Crash Information	C2CCC_RS_2067_Pre- CrashInformation_AsnExten sion	
2077	ARSM	[C2CCC ARSM]		Automotive Requirements for the Traffic Light Manoeuvre (TLM) and Road and Lane Topology (RLT) Services	C2CCC_RS_2077_TLM_RL T_AutomotiveRequirements	



UID	Abbrev iation	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_Auto motiveRequirements
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:

- Added marking of requirements, in the vehicle C-ITS station profile and the Triggering Conditions, indicating relevance for interoperability according to [CPOC]
- Significant improvements of:
 - Automotive Requirements for the Infrastructure to Vehicle Information (IVI)
 Service
 - Inclusion of the RCC, further detailing of road and zone representation
 - Introduction of a new clause for preliminary content
- Update of versions of referenced standards (for more details, refer to: [C2CCC Refs])

5.2 Per document

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

Table 4: Change history per document

	Table 4. Change mistory per document					
UID	Long Name	History				
2000	Release Overview	Adapted according to release 1.6.1				
2002	Triggering Conditions and Data Quality Adverse Weather Conditions	Added marking of requirements, indicating relevance for interoperability according to [CPOC]				
2003	Triggering Conditions and Data Quality Dangerous Situation	Added marking of requirements, indicating relevance for interoperability according to [CPOC]				
2004	Triggering Conditions and Data Quality Exchange of IRCs	Added marking of requirements, indicating relevance for interoperability according to [CPOC]				
2005	Triggering Conditions and Data Quality Special Vehicle Warning	Added marking of requirements, indicating relevance for interoperability according to [CPOC]				
2006	Triggering Conditions and Data Quality Stationary Vehicle Warning	Added marking of requirements, indicating relevance for interoperability according to [CPOC]				
2007	Triggering Conditions and Data Quality Traffic Jam	Added marking of requirements, indicating relevance for interoperability according to [CPOC]				
2035	Objectives	No changes				
2036	Features	No changes				
2037	Vehicle C-ITS station profile	Added marking of requirements, indicating				



		relevance for interoperability according to [CPOC] • Update of versions of referenced standards (for more details, refer to: [C2CCC Refs]) Updated version of:
2052	Reference list	 [EN 302 636-5-1] to V2.2.1 [EN 302 663] to V1.3.1 [TS 102 965] to V1.5.1 [TS 103 248] to V1.3.1 [TS 103 301] to V2.1.1 [IEEE 802.11] to 2016 Added [CPOC]
2053	Glossary	No changes
2056	Protection Profile V2X Hardware Security Module	No content changes
2066	Triggering Conditions and Data Quality Pre- Crash Information	Added marking of requirements, indicating relevance for interoperability according to [CPOC]
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)	No changes
2080	Automotive Requirements for the Infrastructure to Vehicle Information (IVI) Service (former: Automotive Requirements for IVIM)	 Inclusion of the RCC, further detailing of road and zone representation Introduction of a new clause for preliminary content Minor improvements
2086	Conventions used	 Introduced marking of requirements, indicating relevance for interoperability according to [CPOC] Clarified that British English is used in C2C-CC documents



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_23		X		
RS_ARI_34			X	
RS_ARI_39			Х	
RS_ARI_45		Х		
RS_ARI_60		Х		
RS_ARI_64		X		
RS_ARI_69			X	
RS_ARI_73		X		
RS_ARI_75		X		
RS_ARI_78			X	
RS_ARI_80		X		
RS_ARI_84	X			
RS_ARI_85	X			
RS_ARI_86	X			
RS_ARI_87	X			
RS_ARI_88	X			
RS_ARI_89	X			
RS_ARI_90	X			
RS_ARI_91	X			
RS_BSP_169		X		
RS_BSP_170		X		
RS_BSP_170		Х		
RS_BSP_225		Х		
RS_BSP_235		Х		
RS_BSP_235		Х		
RS_BSP_266		X		



Change				
Affected requirement	Kind of change			
ID	Added	Changed	Removed	
RS_BSP_397		Х		
RS_BSP_416		Х		
RS_BSP_434		X		
RS_BSP_443		Х		
RS_BSP_443		Х		
RS_BSP_545	Х			
RS_Refs_00152		Х		
RS_Refs_00427		Х		
RS_tcStVe_116		Х		
RS_tcStVe_120		Х		
RS_tcStVe_123		Х		
RS_tcStVe_138		Х		
RS_tcStVe_142		Х		
RS_tcStVe_145		Х		
RS_tcStVe_162		Х		
RS_tcStVe_166		Х		
TR_ConV_159	Х			
TR_ConV_161	Х			
TR_ConV_425	Х			

Also available as Excel file for C2C-CC members:

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



Known issues 6

none