Collective Perception Classes		Non-Connected Vehicles	Non-Connected Others				Detected Objects	CAM Aggregation	Emty Segments	
	Objects		Bikes/Mopeds	Pedestrians	Road Workers	Disabled				
Requirements	Message	CPM-V	CPM-B	CPM-P	CPM-W	CPM-D	CPM-D	CPM-A	CPM-E	Comment
Transmission Rate		1-10Hz	1-10Hz	1-10Hz	1-10Hz	1-10Hz	1-10Hz	1-10Hz	1-10Hz	A single ITS-S will only send one CPM containing all sensed and relevant objects within the set limits
Transmission dynamics		depends on speed of objects and own speed as well as protection level (e.g. high for VRU), CPM Tx rates can rapidly change								one CPM message can contain all listed object types
Area of relevance urban		>150m	>150m	>150m	>150m	>150m	>150m	>150m	>150m	
Area of relevance suburban		>150m	>150m	>150m	>150m	>150m	>150m	>150m	>150m	
Area of relevance highways		>500m	-	-	>500m	-	>500m	>500m	>500m	
Message Size Urban		CPM 1000 - 1900 Byte; one CPM contains all sensed objects and package size Message size changes depending on number of detected objects, including vehicles, pedestrians, cyclists, all seen by the in-vehicle-perception sensors such as cameras and radars. including security certificate.								
Message Size Rural roads										
Message Size highways										
Message Latency, According to Current		CPM	CPM	CPM	CPM	CPM	CPM	CPM	CPM	
Message validity										Currently not defined
Message prioirty										Currently not defined
Transmission mode		Multicast	Multicast	Multicast	Multicast	Multicast	Multicast	Multicast	Multicast	
Transmission type		Repetitive	Repetitive	Repetitive	Repetitive	Repetitive	Repetitive	Repetitive	Repetitive	
Urban network message channel load		see C2C-CC position paper on "Road Safety and Road Efficiency Spectrum Needs in the 5.9 GHz for C-ITS and Cooperative Automated Driving"								
Rural roads network message channel load										
Highway network message channel load										
V2V		X	X	X	X	X	X		X	
I2V and V2I		X	X	X	X	X	X	X	X	
V2E and E2V										
Reception Propability Requirement		Same Release 1	Same Release 1	Same Release 1	Same Release 1	Same Release 1	Same Release 1	Same Release 1	Same Release 1	
Security requirements		C-ITS	C-ITS	C-ITS	C-ITS	C-ITS	C-ITS	C-ITS	C-ITS	
Liability Impact		NO	NO	NO	NO	NO	NO	NO	NO	
Functional Safety Requirements		ASIL QM	ASIL QM	ASIL QM	ASIL QM	ASIL QM	ASIL QM	ASIL QM	ASIL QM	For the moment only QM others levels may be supported later
SOTIF		NO	NO	NO	NO	NO	NO	NO	NO	Refer to FSR
Position Accuracy level A		Same Release 1	Target <0.5m Minimum same as Release 1]	Target <0.5m Minimum same as Release 1]	Target <0.5m Minimum same as Release 1]	Target <0.5m Minimum same as Release 1]	Same Release 1	Same Release 1	Same Release 1	