VRU use cases	Infrastructure Safety				Prioritized Traffic					Environmental Polution			Legal	
Requirements / Messages	SPATEM	MAPEM	DENM's	IVIM	CAM	DENM's	MCM	SPAT	MAP	CAM	DENM's	IVIM	IVIM	Comment
Transmission Rate	1-10Hz	1-10Hz	-	-	1-10Hz	-	1-10Hz	1-10Hz	1-10Hz	1-10Hz	-	-	-	
Transmission dynamics	low	high	high	high	high	high	Medium	low	high	low	high	high	high	
Area of relevance urban	150m	150m	150m	150m	150m	150m	150m	150m	150m	70m	>70m	>70m	>70m	
Area of relevance suburban roads	150m	150m	150m	150m	150m	150m	150m	150m	150m	>150m	>70m	>70m	>70m	
Area of relevance highways	500m	500m	500m	500m	500m	500m	500m	500m	500m	>200m	>70m	>70m	>70m	
Message Size	1200 Byte		1000 Bytes	400 Bytes	average 400 Byte (250-800 Bytes)	1000 Bytes	1000 Byte	1200 Byte		average 400 Byte (250-800 Bytes)	1000 Bytes	400 Bytes	400 Bytes	for spectrum needs a combined message size for SPATEM, MAPEM, IVIM of 1200 Byte
Message Latency, According to Current	SPATEM	MAPEM	DENM	IVIM	CAM	DENM	MCM	SPATEM	MAPEM	CAM	DENM	IVIM	IVIM	
Message Validity														Currently not defined
Message Priority	Only for Day-1	Only for Day-1	Only for Day-1	Only for Day-1	Only for Day-1	Only for Day-1	Not defined	Only for Day-1	Only for Day-1	Only for Day-1	Only for Day-1	Only for Day-1	Only for Day-1	
Transmission mode	Multicast	Multicast	Multicast	Multicast	Multicast	Multicast	Multicast	Multicast	Multicast	Multicast	Multicast	Multicast	Multicast	
Transmission type	Repetitive	Repetitive	Event	Repetitive	Repetitive	Event	event, repetiive	Repetitive	Repetitive	Repetitive	Event	Event	Event	
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"				<1%	<1%	<2%	<3%	<0%	<80%	<2%	<2%	<2%	For the awareness type of messages The amount of messages effected is identified but the amount of messages is not increasing only the size of the message is. See Footnote*
Rural roads network message channel load					<1%	<1%	<2%	<5%	<0%	<80%	<2%	<2%	<2%	
Highway network message channel load					<1%	<1%	<2%	<5%	<0%	<80%	<2%	<2%	<2%	
V2V	-	-	-	-	X	X	X	-	-	X	-	-	-	
I2V and V2I	X	X	X	X	X	X	X	X	X	X	X	X	X	
V2E and E2V	-	-	-	-	-	-		-	-	-	-	-	-	
Reception Propability Requirement	Standard	Standard	Standard	Standard	Standard	Standard	Same Release 1	Standard	Standard	Standard	Standard	Standard	Standard	
Security requirements	C-ITS	C-ITS	C-ITS	C-ITS	C-ITS	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	NO	NO	NO	NO	NO	
Functional Safety Requirements														Not known at this time but in gernal only ASIL QM expected
SOTIF	No	No	No	No	No	No	No	No	No	No	No	No	No	Refer to FSR
Position Accuracy level A	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	