

# DENM Mapping

## 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 (C2C-CC). 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 C2C-CC has evolved to be one of the key players in preparing the initial deployment of C-ITS in Europe and the subsequent innovation phases. C2C members focus on wireless V2V communication applications based on Direct Communication 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 C2C-CC and its members work in close cooperation with the European and international standardisation organisations

## Disclaimer

The present document has been developed within C2C-CC and might be further elaborated within C2C-CC. C2C-CC and its members accept no liability for any use of this document and other documents from C2C-CC for implementation. C2C-CC documents should be obtained directly from the C2C-CC.

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## Intellectual Property Rights – Essential patents

IPRs essential or potentially essential to profiles or specifications may have been declared to the C2C-CC. The declarations pertaining to these essential IPRs, if any, are publicly available for the C2C-CC members and non-members, and can be found in "Essential or potentially Essential IPRs notified to the C2C-CC in respect of C2C-CC profiles or specifications" ([C2CCC IPR R]), which is available with the latest update from the webpage (<https://www.car-2-car.org>) of the C2C-CC.

Pursuant to the C2C-CC's IPR Policy [C2CCC IPR P], no investigation regarding the essentiality of IPRs, including IPR searches, has been carried out by the C2C-CC. No guarantee can be given as to the existence of other IPRs not referenced in [C2CCC IPR R] (or the updates on the C2C-CC web server) which are, or may be, or may become, essential to the present document.

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
2	queuing traffic (with average speeds Q). Danger of stationary traffic	27_0	dangerousEndOfQueue	unavailable	
		1_3	trafficCondition	trafficJamIncreasing	
11	overheight warning system triggered	1_0	trafficCondition	unavailable	
12	(Q) accident(s), traffic being directed around accident area	2_0	accident	unavailable	
16	closed, rescue and recovery work in progress	15_0	rescueAndRecoveryWorkInProgress	unavailable	IVI
		5_0	impassability	unavailable	
20	service area overcrowded, drive to another service area				
22	service area, fuel station closed	5_0	impassability	unavailable	IVI
23	service area, restaurant closed	5_0	impassability	unavailable	IVI
24	bridge closed	5_0	impassability	unavailable	IVI
25	tunnel closed	5_0	impassability	unavailable	IVI
26	bridge blocked	5_0	impassability	unavailable	IVI
27	tunnel blocked	5_0	impassability	unavailable	IVI
28	road closed intermittently	5_0	impassability	unavailable	IVI
36	fuel station reopened				
37	restaurant reopened				
40	smog alert ended				
41	(Q) overtaking lane(s) closed	5_0	impassability	unavailable	IVI
42	(Q) overtaking lane(s) blocked	5_0	impassability	unavailable	IVI
51	roadworks, (Q) overtaking lane(s) closed	5_0	impassability	unavailable	IVI
		3_0	roadworks	unavailable	
52	(Q sets of) roadworks on the hard shoulder	3_0	roadworks	unavailable	
53	(Q sets of) roadworks in the emergency lane	3_0	roadworks	unavailable	
55	traffic problem expected				IVI
56	traffic congestion expected	1_0	trafficCondition	unavailable	IVI
57	normal traffic expected				IVI
61	(Q) object(s) on roadway {something that does not necessarily block the road or part of it}	10_0	hazardousLocation-ObstacleOnTheRoad	unavailable	
62	(Q) burst pipe(s)	9_7	hazardousLocation-SurfaceCondition	burstPipe	
63	(Q) object(s) on the road. Danger	10_0	hazardousLocation-ObstacleOnTheRoad	unavailable	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
64	burst pipe. Danger	9_7	hazardousLocation-SurfaceCondition	burstPipe	
70	traffic congestion, average speed of 10 km/h	1_0	trafficCondition	unavailable	
71	traffic congestion, average speed of 20 km/h	1_0	trafficCondition	unavailable	
72	traffic congestion, average speed of 30 km/h	1_0	trafficCondition	unavailable	
73	traffic congestion, average speed of 40 km/h	1_0	trafficCondition	unavailable	
74	traffic congestion, average speed of 50 km/h	1_0	trafficCondition	unavailable	
75	traffic congestion, average speed of 60 km/h	1_0	trafficCondition	unavailable	
76	traffic congestion, average speed of 70 km/h	1_0	trafficCondition	unavailable	
91	delays (Q) for cars	1_0	trafficCondition	unavailable	
101	stationary traffic	1_5	trafficCondition	trafficStationary	
102	stationary traffic for 1 km	1_5	trafficCondition	trafficStationary	
103	stationary traffic for 2 km	1_5	trafficCondition	trafficStationary	
104	stationary traffic for 4 km	1_5	trafficCondition	trafficStationary	
105	stationary traffic for 6 km	1_5	trafficCondition	trafficStationary	
106	stationary traffic for 10 km	1_5	trafficCondition	trafficStationary	
107	stationary traffic expected	1_5	trafficCondition	trafficStationary	IVI
108	queuing traffic (with average speeds Q)	27_0	dangerousEndOfQueue	unavailable	
109	queuing traffic for 1 km (with average speeds Q)	27_0	dangerousEndOfQueue	unavailable	
110	queuing traffic for 2 km (with average speeds Q)	27_0	dangerousEndOfQueue	unavailable	
111	queuing traffic for 4 km (with average speeds Q)	27_0	dangerousEndOfQueue	unavailable	
112	queuing traffic for 6 km (with average speeds Q)	27_0	dangerousEndOfQueue	unavailable	
113	queuing traffic for 10 km (with average speeds Q)	27_0	dangerousEndOfQueue	unavailable	
114	queuing traffic expected	27_0	dangerousEndOfQueue	unavailable	IVI
115	slow traffic (with average speeds Q)	1_0	trafficCondition	unavailable	
116	slow traffic for 1 km (with average speeds Q)	1_0	trafficCondition	unavailable	
117	slow traffic for 2 km (with average speeds Q)	1_0	trafficCondition	unavailable	
118	slow traffic for 4 km (with average speeds Q)	1_0	trafficCondition	unavailable	
119	slow traffic for 6 km (with average speeds Q)	1_0	trafficCondition	unavailable	
120	slow traffic for 10 km (with average speeds Q)	1_0	trafficCondition	unavailable	
121	slow traffic expected	1_0	trafficCondition	unavailable	IVI
122	heavy traffic (with average speeds Q)	1_1	trafficCondition	increasedVolumeOfTraffic	
123	heavy traffic expected	1_1	trafficCondition	increasedVolumeOfTraffic	IVI

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
124	traffic flowing freely (with average speeds Q)				
125	traffic building up (with average speeds Q)	1_2	trafficCondition	trafficJamSlowlyIncreasing	
126	no problems to report				
127	traffic congestion cleared				
128	message cancelled				
129	stationary traffic for 3 km	1_5	trafficCondition	trafficStationary	
130	danger of stationary traffic	1_3	trafficCondition	trafficJamIncreasing	
131	queuing traffic for 3 km (with average speeds Q)	27_0	dangerousEndOfQueue	unavailable	
132	danger of queuing traffic (with average speeds Q)	1_3	trafficCondition	trafficJamIncreasing	
133	long queues (with average speeds Q)	27_0	dangerousEndOfQueue	unavailable	
134	slow traffic for 3 km (with average speeds Q)	1_0	trafficCondition	unavailable	
135	traffic easing				
136	traffic congestion (with average speeds Q)	1_0	trafficCondition	unavailable	
137	traffic lighter than normal (with average speeds Q)				
138	queuing traffic (with average speeds Q). Approach with care	27_0	dangerousEndOfQueue	unavailable	
139	queuing traffic around a bend in the road	27_3	dangerousEndOfQueue	queueAroundBend	
140	queuing traffic over the crest of a hill	27_2	dangerousEndOfQueue	queueOverHill	
141	all accidents cleared, no problems to report				
142	traffic heavier than normal (with average speeds Q)				
143	traffic very much heavier than normal (with average speeds Q)				
200	multi vehicle pile up. Delays (Q)	1_0	trafficCondition	unavailable	
201	(Q) accident(s)	2_0	accident	unavailable	
202	(Q) serious accident(s)	2_2	accident	heavyAccident	
203	multi-vehicle accident (involving Q vehicles)	2_1	accident	multiVehicleAccident	
204	accident involving (a/Q) heavy lorr(y/ies)	2_3	accident	accidentInvolvingLorry	
205	(Q) accident(s) involving hazardous materials	2_5	accident	accidentInvolvingHazardousMaterials	
206	(Q) fuel spillage accident(s)	2_5	accident	accidentInvolvingHazardousMaterials	
207	(Q) chemical spillage accident(s)	2_5	accident	accidentInvolvingHazardousMaterials	
208	vehicles slowing to look at (Q) accident(s)	26_2	slowVehicle	vehiclesSlowingToLookAtAccident	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
209	(Q) accident(s) in the opposing lanes	2_6	accident	accidentOnOppositeLane	
210	(Q) shed load(s)	10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
211	(Q) broken down vehicle(s)	94_2	stationaryVehicle	vehicleBreakdown	
212	(Q) broken down heavy lorry(ies)	94_2	stationaryVehicle	vehicleBreakdown	
213	(Q) vehicle fire(s)	94_6	stationaryVehicle	vehicleOnFire	
214	(Q) incident(s)				
215	(Q) accident(s). Stationary traffic	1_5	trafficCondition	trafficStationary	
		2_0	accident	unavailable	
216	(Q) accident(s). Stationary traffic for 1 km	1_5	trafficCondition	trafficStationary	
		2_0	accident	unavailable	
217	(Q) accident(s). Stationary traffic for 2 km	1_5	trafficCondition	trafficStationary	
		2_0	accident	unavailable	
218	(Q) accident(s). Stationary traffic for 4 km	1_5	trafficCondition	trafficStationary	
		2_0	accident	unavailable	
219	(Q) accident(s). Stationary traffic for 6 km	1_5	trafficCondition	trafficStationary	
		2_0	accident	unavailable	
220	(Q) accident(s). Stationary traffic for 10 km	1_5	trafficCondition	trafficStationary	
		2_0	accident	unavailable	
221	(Q) accident(s). Danger of stationary traffic	1_3	trafficCondition	trafficJamIncreasing	
		2_0	accident	unavailable	
222	(Q) accident(s). Queuing traffic	27_0	dangerousEndOfQueue	unavailable	
		2_0	accident	unavailable	
223	(Q) accident(s). Queuing traffic for 1 km	27_0	dangerousEndOfQueue	unavailable	
		2_0	accident	unavailable	
224	(Q) accident(s). Queuing traffic for 2 km	27_0	dangerousEndOfQueue	unavailable	
		2_0	accident	unavailable	
225	(Q) accident(s). Queuing traffic for 4 km	27_0	dangerousEndOfQueue	unavailable	
		2_0	accident	unavailable	
226	(Q) accident(s). Queuing traffic for 6 km	27_0	dangerousEndOfQueue	unavailable	
		2_0	accident	unavailable	
227	(Q) accident(s). Queuing traffic for 10 km	27_0	dangerousEndOfQueue	unavailable	
		2_0	accident	unavailable	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
228	(Q) accident(s). Danger of queuing traffic	1_3 2_0	trafficCondition accident	trafficJamIncreasing unavailable	
229	(Q) accident(s). Slow traffic	1_0 2_0	trafficCondition accident	unavailable unavailable	
230	(Q) accident(s). Slow traffic for 1 km	1_0 2_0	trafficCondition accident	unavailable unavailable	
231	(Q) accident(s). Slow traffic for 2 km	1_0 2_0	trafficCondition accident	unavailable unavailable	
232	(Q) accident(s). Slow traffic for 4 km	1_0 2_0	trafficCondition accident	unavailable unavailable	
233	(Q) accident(s). Slow traffic for 6 km	1_0 2_0	trafficCondition accident	unavailable unavailable	
234	(Q) accident(s). Slow traffic for 10 km	1_0 2_0	trafficCondition accident	unavailable unavailable	
235	(Q) accident(s). Slow traffic expected	1_0 2_0	trafficCondition accident	unavailable unavailable	IVI
236	(Q) accident(s). Heavy traffic	1_1 2_0	trafficCondition accident	increasedVolumeOfTraffic unavailable	
237	(Q) accident(s). Heavy traffic expected	1_1 2_0	trafficCondition accident	increasedVolumeOfTraffic unavailable	IVI
238	(Q) accident(s). Traffic flowing freely	2_0	accident	unavailable	
239	(Q) accident(s). Traffic building up	2_0 1_2	accident trafficCondition	unavailable trafficJamSlowlyIncreasing	
240	road closed due to (Q) accident(s)	2_0 5_0	accident impassability	unavailable unavailable	IVI
241	(Q) accident(s). Right lane blocked	2_0 5_0	accident impassability	unavailable unavailable	IVI
242	(Q) accident(s). Centre lane blocked	2_0 5_0	accident impassability	unavailable unavailable	IVI
243	(Q) accident(s). Left lane blocked	2_0 5_0	accident impassability	unavailable unavailable	IVI
244	(Q) accident(s). Hard shoulder blocked	2_0 5_0	accident impassability	unavailable unavailable	IVI

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
245	(Q) accident(s). Two lanes blocked	2_0	accident	unavailable	IVI
		5_0	impassability	unavailable	
246	(Q) accident(s). Three lanes blocked	2_0	accident	unavailable	IVI
		5_0	impassability	unavailable	
247	accident. Delays (Q)	1_0	trafficCondition	unavailable	
		2_0	accident	unavailable	
248	accident. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI
		2_0	accident	unavailable	
249	accident. Long delays (Q)	1_0	trafficCondition	unavailable	
		2_0	accident	unavailable	
250	vehicles slowing to look at (Q) accident(s). Stationary traffic	1_5	trafficCondition	trafficStationary	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
251	vehicles slowing to look at (Q) accident(s). Stationary traffic for 1 km	1_5	trafficCondition	trafficStationary	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
252	vehicles slowing to look at (Q) accident(s). Stationary traffic for 2 km	1_5	trafficCondition	trafficStationary	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
253	vehicles slowing to look at (Q) accident(s). Stationary traffic for 4 km	1_5	trafficCondition	trafficStationary	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
254	vehicles slowing to look at (Q) accident(s). Stationary traffic for 6 km	1_5	trafficCondition	trafficStationary	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
255	vehicles slowing to look at (Q) accident(s). Stationary traffic for 10 km	1_5	trafficCondition	trafficStationary	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
256	vehicles slowing to look at (Q) accident(s). Danger of stationary traffic	1_3	trafficCondition	trafficJamIncreasing	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
257	vehicles slowing to look at (Q) accident(s). Queuing traffic	27_0	dangerousEndOfQueue	unavailable	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
258	vehicles slowing to look at (Q) accident(s). Queuing traffic for 1 km	27_0	dangerousEndOfQueue	unavailable	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
259	vehicles slowing to look at (Q) accident(s). Queuing traffic for 2 km	27_0	dangerousEndOfQueue	unavailable	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
260	vehicles slowing to look at (Q) accident(s). Queuing traffic for 4 km	27_0	dangerousEndOfQueue	unavailable	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	



ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
261	vehicles slowing to look at (Q) accident(s). Queuing traffic for 6 km	27_0	dangerousEndOfQueue	unavailable	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
262	vehicles slowing to look at (Q) accident(s). Queuing traffic for 10 km	27_0	dangerousEndOfQueue	unavailable	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
263	vehicles slowing to look at (Q) accident(s). Danger of queuing traffic	1_3	trafficCondition	trafficJamIncreasing	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
264	vehicles slowing to look at (Q) accident(s). Slow traffic	1_0	trafficCondition	unavailable	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
265	vehicles slowing to look at (Q) accident(s). Slow traffic for 1 km	1_0	trafficCondition	unavailable	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
266	vehicles slowing to look at (Q) accident(s). Slow traffic for 2 km	1_0	trafficCondition	unavailable	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
267	vehicles slowing to look at (Q) accident(s). Slow traffic for 4 km	1_0	trafficCondition	unavailable	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
268	vehicles slowing to look at (Q) accident(s). Slow traffic for 6 km	1_0	trafficCondition	unavailable	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
269	vehicles slowing to look at (Q) accident(s). Slow traffic for 10 km	1_0	trafficCondition	unavailable	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
270	vehicles slowing to look at (Q) accident(s). Slow traffic expected	1_0	trafficCondition	unavailable	IVI
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
271	vehicles slowing to look at (Q) accident(s). Heavy traffic	1_1	trafficCondition	increasedVolumeOfTraffic	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
272	vehicles slowing to look at (Q) accident(s). Heavy traffic expected	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
274	vehicles slowing to look at (Q) accident(s). Traffic building up	1_2	trafficCondition	trafficJamSlowlyIncreasing	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
275	vehicles slowing to look at accident. Delays (Q)	1_0	trafficCondition	unavailable	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
276	vehicles slowing to look at accident. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
277	vehicles slowing to look at accident. Long delays (Q)	1_0	trafficCondition	unavailable	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
278	(Q) shed load(s). Stationary traffic	1_5	trafficCondition	trafficStationary	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
279	(Q) shed load(s). Stationary traffic for 1 km	1_5	trafficCondition	trafficStationary	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
280	(Q) shed load(s). Stationary traffic for 2 km	1_5	trafficCondition	trafficStationary	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
281	(Q) shed load(s). Stationary traffic for 4 km	1_5	trafficCondition	trafficStationary	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
282	(Q) shed load(s). Stationary traffic for 6 km	1_5	trafficCondition	trafficStationary	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
283	(Q) shed load(s). Stationary traffic for 10 km	1_5	trafficCondition	trafficStationary	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
284	(Q) shed load(s). Danger of stationary traffic	1_3	trafficCondition	trafficJamIncreasing	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
285	(Q) shed load(s). Queuing traffic	27_0	dangerousEndOfQueue	unavailable	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
286	(Q) shed load(s). Queuing traffic for 1 km	27_0	dangerousEndOfQueue	unavailable	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
287	(Q) shed load(s). Queuing traffic for 2 km	27_0	dangerousEndOfQueue	unavailable	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
288	(Q) shed load(s). Queuing traffic for 4 km	27_0	dangerousEndOfQueue	unavailable	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
289	(Q) shed load(s). Queuing traffic for 6 km	27_0	dangerousEndOfQueue	unavailable	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
290	(Q) shed load(s). Queuing traffic for 10 km	27_0	dangerousEndOfQueue	unavailable	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
291	(Q) shed load(s). Danger of queuing traffic	1_3	trafficCondition	trafficJamIncreasing	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
292	(Q) shed load(s). Slow traffic	1_0	trafficCondition	unavailable	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
293	(Q) shed load(s). Slow traffic for 1 km	1_0	trafficCondition	unavailable	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
294	(Q) shed load(s). Slow traffic for 2 km	1_0	trafficCondition	unavailable	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
295	(Q) shed load(s). Slow traffic for 4 km	1_0	trafficCondition	unavailable	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
296	(Q) shed load(s). Slow traffic for 6 km	1_0	trafficCondition	unavailable	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
297	(Q) shed load(s). Slow traffic for 10 km	1_0	trafficCondition	unavailable	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
298	(Q) shed load(s). Slow traffic expected	1_0	trafficCondition	unavailable	IVI
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
299	(Q) shed load(s). Heavy traffic	1_1	trafficCondition	increasedVolumeOfTraffic	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
300	(Q) shed load(s). Heavy traffic expected	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
301	(Q) shed load(s). Traffic flowing freely	10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
302	(Q) shed load(s). Traffic building up	10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
		1_2	trafficCondition	trafficJamSlowlyIncreasing	
303	blocked by (Q) shed load(s)	10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
		5_0	impassability	unavailable	IVI
304	(Q) shed load(s). Right lane blocked	10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
		5_0	impassability	unavailable	IVI
305	(Q) shed load(s). Centre lane blocked	10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
		5_0	impassability	unavailable	IVI
306	(Q) shed load(s). Left lane blocked	10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
		5_0	impassability	unavailable	IVI
307	(Q) shed load(s). Hard shoulder blocked	10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
		5_0	impassability	unavailable	IVI
308	(Q) shed load(s). Two lanes blocked	10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
		5_0	impassability	unavailable	IVI
309	(Q) shed load(s). Three lanes blocked	10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
		5_0	impassability	unavailable	IVI
310	shed load. Delays (Q)	1_0	trafficCondition	unavailable	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	IVI
311	shed load. Delays (Q) expected	1_0	trafficCondition	unavailable	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
312	shed load. Long delays (Q)	1_0	trafficCondition	unavailable	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
313	(Q) broken down vehicle(s). Stationary traffic	1_5	trafficCondition	trafficStationary	
		94_2	stationaryVehicle	vehicleBreakdown	
314	(Q) broken down vehicle(s). Danger of stationary traffic	1_3	trafficCondition	trafficJamIncreasing	
		94_2	stationaryVehicle	vehicleBreakdown	
315	(Q) broken down vehicle(s). Queuing traffic	27_0	dangerousEndOfQueue	unavailable	
		94_2	stationaryVehicle	vehicleBreakdown	
316	(Q) broken down vehicle(s). Danger of queuing traffic	1_3	trafficCondition	trafficJamIncreasing	
		94_2	stationaryVehicle	vehicleBreakdown	
317	(Q) broken down vehicle(s). Slow traffic	1_0	trafficCondition	unavailable	
		94_2	stationaryVehicle	vehicleBreakdown	
318	(Q) broken down vehicle(s). Slow traffic expected	1_0	trafficCondition	unavailable	IVI
		94_2	stationaryVehicle	vehicleBreakdown	
319	(Q) broken down vehicle(s). Heavy traffic	1_1	trafficCondition	increasedVolumeOfTraffic	
		94_2	stationaryVehicle	vehicleBreakdown	
320	(Q) broken down vehicle(s). Heavy traffic expected	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
		94_2	stationaryVehicle	vehicleBreakdown	
321	(Q) broken down vehicle(s). Traffic flowing freely	94_2	stationaryVehicle	vehicleBreakdown	
322	(Q) broken down vehicle(s). Traffic building up	94_2	stationaryVehicle	vehicleBreakdown	
		1_2	trafficCondition	trafficJamSlowlyIncreasing	
323	blocked by (Q) broken down vehicle(s).	94_2	stationaryVehicle	vehicleBreakdown	IVI
		5_0	impassability	unavailable	
324	(Q) broken down vehicle(s). Right lane blocked	94_2	stationaryVehicle	vehicleBreakdown	IVI
		5_0	impassability	unavailable	
325	(Q) broken down vehicle(s). Centre lane blocked	94_2	stationaryVehicle	vehicleBreakdown	IVI
		5_0	impassability	unavailable	
326	(Q) broken down vehicle(s). Left lane blocked	94_2	stationaryVehicle	vehicleBreakdown	IVI
		5_0	impassability	unavailable	
327	(Q) broken down vehicle(s). Hard shoulder blocked	94_2	stationaryVehicle	vehicleBreakdown	IVI
		5_0	impassability	unavailable	
328	(Q) broken down vehicle(s). Two lanes blocked	94_2	stationaryVehicle	vehicleBreakdown	IVI
		5_0	impassability	unavailable	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
329	(Q) broken down vehicle(s). Three lanes blocked	94_2	stationaryVehicle	vehicleBreakdown	IVI
		5_0	impassability	unavailable	
330	broken down vehicle. Delays (Q)	1_0	trafficCondition	unavailable	IVI
		94_2	stationaryVehicle	vehicleBreakdown	
331	broken down vehicle. Delays (Q) expected	1_0	trafficCondition	unavailable	
		94_2	stationaryVehicle	vehicleBreakdown	
332	broken down vehicle. Long delays (Q)	1_0	trafficCondition	unavailable	
		94_2	stationaryVehicle	vehicleBreakdown	
333	accident cleared				
334	message cancelled				
335	accident involving (a/Q) bus(es)	2_4	accident	accidentInvolvingBus	
336	(Q) oil spillage accident(s)	2_5	accident	accidentInvolvingHazardousMaterials	
337	(Q) overturned vehicle(s)	2_2	accident	heavyAccident	
338	(Q) overturned heavy lorr(y/ies)	2_2	accident	heavyAccident	
339	(Q) jackknifed trailer(s)	2_3	accident	accidentInvolvingLorry	
340	(Q) jackknifed caravan(s)	2_3	accident	accidentInvolvingLorry	
341	(Q) jackknifed articulated lorr(y/ies)	2_3	accident	accidentInvolvingLorry	
342	(Q) vehicle(s) spun around	2_2	accident	heavyAccident	
343	(Q) earlier accident(s)	2_0	accident	unavailable	
344	accident investigation work	2_0	accident	unavailable	
345	(Q) secondary accident(s)	2_0	accident	unavailable	
346	(Q) broken down bus(es)	94_2	stationaryVehicle	vehicleBreakdown	
347	(Q) overheight vehicle(s)	26_3	slowVehicle	abnormalLoad	
348	(Q) accident(s). Stationary traffic for 3 km	1_5	trafficCondition	trafficStationary	
		2_0	accident	unavailable	
349	(Q) accident(s). Queuing traffic for 3 km	27_0	dangerousEndOfQueue	unavailable	
		2_0	accident	unavailable	
350	(Q) accident(s). Slow traffic for 3 km	1_0	trafficCondition	unavailable	
		2_0	accident	unavailable	
351	(Q) accident(s) in roadworks area	2_0	accident	unavailable	
		3_0	roadworks	unavailable	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
352	vehicles slowing to look at (Q) accident(s). Stationary traffic for 3 km	1_5	trafficCondition	trafficStationary	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
353	vehicles slowing to look at (Q) accident(s). Queuing traffic for 3 km	27_0	dangerousEndOfQueue	unavailable	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
354	vehicles slowing to look at (Q) accident(s). Slow traffic for 3 km	1_0	trafficCondition	unavailable	
		26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
355	vehicles slowing to look at (Q) accident(s). Danger	26_2	slowVehicle	vehiclesSlowingToLookAtAccident	
356	(Q) shed load(s). Stationary traffic for 3 km	1_5	trafficCondition	trafficStationary	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
357	(Q) shed load(s). Queuing traffic for 3 km	27_0	dangerousEndOfQueue	unavailable	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
358	(Q) shed load(s). Slow traffic for 3 km	1_0	trafficCondition	unavailable	
		10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
359	(Q) shed load(s). Danger	10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
360	(Q) overturned vehicle(s). Stationary traffic	1_5	trafficCondition	trafficStationary	
		2_2	accident	heavyAccident	
361	(Q) overturned vehicle(s). Danger of stationary traffic	1_3	trafficCondition	trafficJamIncreasing	
		2_2	accident	heavyAccident	
362	(Q) overturned vehicle(s). Queuing traffic	27_0	dangerousEndOfQueue	unavailable	
		2_2	accident	heavyAccident	
363	(Q) overturned vehicle(s). Danger of queuing traffic	1_3	trafficCondition	trafficJamIncreasing	
		2_2	accident	heavyAccident	
364	(Q) overturned vehicle(s). Slow traffic	1_0	trafficCondition	unavailable	
		2_2	accident	heavyAccident	
365	(Q) overturned vehicle(s). Slow traffic expected	1_0	trafficCondition	unavailable	IVI
		2_2	accident	heavyAccident	
366	(Q) overturned vehicle(s). Heavy traffic	1_1	trafficCondition	increasedVolumeOfTraffic	
		2_2	accident	heavyAccident	
367	(Q) overturned vehicle(s). Heavy traffic expected	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
		2_2	accident	heavyAccident	
368	(Q) overturned vehicle(s). Traffic building up	2_2	accident	heavyAccident	
		1_2	trafficCondition	trafficJamSlowlyIncreasing	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
369	blocked by (Q) overturned vehicle(s)	2_2 5_0	accident impassability	heavyAccident unavailable	IVI
370	(Q) overturned vehicle(s). Right lane blocked	2_2 5_0	accident impassability	heavyAccident unavailable	IVI
371	(Q) overturned vehicle(s). Centre lane blocked	2_2 5_0	accident impassability	heavyAccident unavailable	IVI
372	(Q) overturned vehicle(s). Left lane blocked	2_2 5_0	accident impassability	heavyAccident unavailable	IVI
373	(Q) overturned vehicle(s). Two lanes blocked	2_2 5_0	accident impassability	heavyAccident unavailable	IVI
374	(Q) overturned vehicle(s). Three lanes blocked	2_2 5_0	accident impassability	heavyAccident unavailable	IVI
375	overturned vehicle. Delays (Q)	1_0 2_2	trafficCondition accident	unavailable heavyAccident	IVI
376	overturned vehicle. Delays (Q) expected	1_0 2_2	trafficCondition accident	unavailable heavyAccident	
377	overturned vehicle. Long delays (Q)	1_0 2_2	trafficCondition accident	unavailable heavyAccident	
378	(Q) overturned vehicle(s). Danger	2_2	accident	heavyAccident	
379	Stationary traffic due to (Q) earlier accident(s)	1_5 2_0	trafficCondition accident	trafficStationary unavailable	
380	Danger of stationary traffic due to (Q) earlier accident(s)	1_3 2_0	trafficCondition accident	trafficJamIncreasing unavailable	
381	Queuing traffic due to (Q) earlier accident(s)	27_0 2_0	dangerousEndOfQueue accident	unavailable unavailable	
382	Danger of queuing traffic due to (Q) earlier accident(s)	1_3 2_0	trafficCondition accident	trafficJamIncreasing unavailable	
383	Slow traffic due to (Q) earlier accident(s)	1_0 2_0	trafficCondition accident	unavailable unavailable	
385	Heavy traffic due to (Q) earlier accident(s)	1_1 2_0	trafficCondition accident	increasedVolumeOfTraffic unavailable	
387	Traffic building up due to (Q) earlier accident(s)	2_0 1_2	accident trafficCondition	unavailable trafficJamSlowlyIncreasing	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
388	Delays (Q) due to earlier accident	1_0	trafficCondition	unavailable	
		2_0	accident	unavailable	
390	Long delays (Q) due to earlier accident	1_0	trafficCondition	unavailable	
		2_0	accident	unavailable	
391	accident investigation work. Danger	2_0	accident	unavailable	
392	(Q) secondary accident(s). Danger	2_0	accident	unavailable	
393	(Q) broken down vehicle(s). Danger	94_2	stationaryVehicle	vehicleBreakdown	
394	(Q) broken down heavy lorr(y)ies). Danger	94_2	stationaryVehicle	vehicleBreakdown	
395	road cleared				
396	incident cleared				
397	rescue and recovery work in progress	15_0	rescueAndRecoveryWorkInProgress	unavailable	
399	message cancelled				
401	closed	5_0	impassability	unavailable	IVI
402	blocked	5_0	impassability	unavailable	IVI
403	closed for heavy vehicles (over Q)	5_0	impassability	unavailable	IVI
404	no through traffic for heavy lorries (over Q)				
405	no through traffic				
406	(Q th) entry slip road closed	5_0	impassability	unavailable	IVI
407	(Q th) exit slip road closed	5_0	impassability	unavailable	IVI
408	slip roads closed	5_0	impassability	unavailable	IVI
409	slip road restrictions				
410	closed ahead. Stationary traffic	1_5	trafficCondition	trafficStationary	IVI
		5_0	impassability	unavailable	
411	closed ahead. Stationary traffic for 1 km	1_5	trafficCondition	trafficStationary	IVI
		5_0	impassability	unavailable	
412	closed ahead. Stationary traffic for 2 km	1_5	trafficCondition	trafficStationary	IVI
		5_0	impassability	unavailable	
413	closed ahead. Stationary traffic for 4 km	1_5	trafficCondition	trafficStationary	IVI
		5_0	impassability	unavailable	
414	closed ahead. Stationary traffic for 6 km	1_5	trafficCondition	trafficStationary	IVI
		5_0	impassability	unavailable	



ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
415	closed ahead. Stationary traffic for 10 km	1_5	trafficCondition	trafficStationary	IVI
		5_0	impassability	unavailable	
416	closed ahead. Danger of stationary traffic	1_3	trafficCondition	trafficJamIncreasing	IVI
		5_0	impassability	unavailable	
417	closed ahead. Queuing traffic	27_0	dangerousEndOfQueue	unavailable	IVI
		5_0	impassability	unavailable	
418	closed ahead. Queuing traffic for 1 km	27_0	dangerousEndOfQueue	unavailable	IVI
		5_0	impassability	unavailable	
419	closed ahead. Queuing traffic for 2 km	27_0	dangerousEndOfQueue	unavailable	IVI
		5_0	impassability	unavailable	
420	closed ahead. Queuing traffic for 4 km	27_0	dangerousEndOfQueue	unavailable	IVI
		5_0	impassability	unavailable	
421	closed ahead. Queuing traffic for 6 km	27_0	dangerousEndOfQueue	unavailable	IVI
		5_0	impassability	unavailable	
422	closed ahead. Queuing traffic for 10 km	27_0	dangerousEndOfQueue	unavailable	IVI
		5_0	impassability	unavailable	
423	closed ahead. Danger of queuing traffic	1_3	trafficCondition	trafficJamIncreasing	IVI
		5_0	impassability	unavailable	
424	closed ahead. Slow traffic	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
425	closed ahead. Slow traffic for 1 km	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
426	closed ahead. Slow traffic for 2 km	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
427	closed ahead. Slow traffic for 4 km	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
428	closed ahead. Slow traffic for 6 km	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
429	closed ahead. Slow traffic for 10 km	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
430	closed ahead. Slow traffic expected	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
431	closed ahead. Heavy traffic	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
		5_0	impassability	unavailable	
432	closed ahead. Heavy traffic expected	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
		5_0	impassability	unavailable	
433	closed ahead. Traffic flowing freely	5_0	impassability	unavailable	IVI
434	closed ahead. Traffic building up	1_2	trafficCondition	trafficJamSlowlyIncreasing	IVI
		5_0	impassability	unavailable	
435	closed ahead. Delays (Q)	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
436	closed ahead. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
437	closed ahead. Long delays (Q)	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
438	blocked ahead. Stationary traffic	1_5	trafficCondition	trafficStationary	IVI
		5_0	impassability	unavailable	
439	blocked ahead. Stationary traffic for 1 km	1_5	trafficCondition	trafficStationary	IVI
		5_0	impassability	unavailable	
440	blocked ahead. Stationary traffic for 2 km	1_5	trafficCondition	trafficStationary	IVI
		5_0	impassability	unavailable	
441	blocked ahead. Stationary traffic for 4 km	1_5	trafficCondition	trafficStationary	IVI
		5_0	impassability	unavailable	
442	blocked ahead. Stationary traffic for 6 km	1_5	trafficCondition	trafficStationary	IVI
		5_0	impassability	unavailable	
443	blocked ahead. Stationary traffic for 10 km	1_5	trafficCondition	trafficStationary	IVI
		5_0	impassability	unavailable	
444	blocked ahead. Danger of stationary traffic	1_3	trafficCondition	trafficJamIncreasing	IVI
		5_0	impassability	unavailable	
445	blocked ahead. Queuing traffic	27_0	dangerousEndOfQueue	unavailable	IVI
		5_0	impassability	unavailable	
446	blocked ahead. Queuing traffic for 1 km	27_0	dangerousEndOfQueue	unavailable	IVI
		5_0	impassability	unavailable	
447	blocked ahead. Queuing traffic for 2 km	27_0	dangerousEndOfQueue	unavailable	IVI
		5_0	impassability	unavailable	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
448	blocked ahead. Queuing traffic for 4 km	27_0	dangerousEndOfQueue	unavailable	IVI
		5_0	impassability	unavailable	
449	blocked ahead. Queuing traffic for 6 km	27_0	dangerousEndOfQueue	unavailable	IVI
		5_0	impassability	unavailable	
450	blocked ahead. Queuing traffic for 10 km	27_0	dangerousEndOfQueue	unavailable	IVI
		5_0	impassability	unavailable	
451	blocked ahead. Danger of queuing traffic	1_3	trafficCondition	trafficJamIncreasing	IVI
		5_0	impassability	unavailable	
452	blocked ahead. Slow traffic	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
453	blocked ahead. Slow traffic for 1 km	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
454	blocked ahead. Slow traffic for 2 km	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
455	blocked ahead. Slow traffic for 4 km	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
456	blocked ahead. Slow traffic for 6 km	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
457	blocked ahead. Slow traffic for 10 km	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
458	blocked ahead. Slow traffic expected	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
459	blocked ahead. Heavy traffic	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
		5_0	impassability	unavailable	
460	blocked ahead. Heavy traffic expected	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
		5_0	impassability	unavailable	
461	blocked ahead. Traffic flowing freely	5_0	impassability	unavailable	IVI
462	blocked ahead. Traffic building up	1_2	trafficCondition	trafficJamSlowlyIncreasing	IVI
		5_0	impassability	unavailable	
463	blocked ahead. Delays (Q)	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
464	blocked ahead. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
465	blocked ahead. Long delays (Q)	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
466	slip roads reopened				
467	reopened				
468	message cancelled				
469	closed ahead	5_0	impassability	unavailable	IVI
470	blocked ahead	5_0	impassability	unavailable	IVI
471	(Q) entry slip road(s) closed	5_0	impassability	unavailable	IVI
472	(Q th) entry slip road blocked	5_0	impassability	unavailable	IVI
473	entry blocked	5_0	impassability	unavailable	IVI
474	(Q) exit slip road(s) closed	5_0	impassability	unavailable	IVI
475	(Q th) exit slip road blocked	5_0	impassability	unavailable	IVI
476	exit blocked	5_0	impassability	unavailable	IVI
477	slip roads blocked	5_0	impassability	unavailable	IVI
478	connecting carriageway closed	5_0	impassability	unavailable	IVI
479	parallel carriageway closed	5_0	impassability	unavailable	IVI
480	right-hand parallel carriageway closed	5_0	impassability	unavailable	IVI
481	left-hand parallel carriageway closed	5_0	impassability	unavailable	IVI
482	express lanes closed	5_0	impassability	unavailable	IVI
483	through traffic lanes closed	5_0	impassability	unavailable	IVI
484	local lanes closed	5_0	impassability	unavailable	IVI
485	connecting carriageway blocked	5_0	impassability	unavailable	IVI
486	parallel carriageway blocked	5_0	impassability	unavailable	IVI
487	right-hand parallel carriageway blocked	5_0	impassability	unavailable	IVI
488	left-hand parallel carriageway blocked	5_0	impassability	unavailable	IVI
489	express lanes blocked	5_0	impassability	unavailable	IVI
490	through traffic lanes blocked	5_0	impassability	unavailable	IVI
491	local lanes blocked	5_0	impassability	unavailable	IVI
492	no motor vehicles				IVI
493	restrictions				
494	closed for heavy lorries (over Q)	5_0	impassability	unavailable	IVI

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
495	closed ahead. Stationary traffic for 3 km	1_5	trafficCondition	trafficStationary	IVI
		5_0	impassability	unavailable	
496	closed ahead. Queuing traffic for 3 km	27_0	dangerousEndOfQueue	unavailable	IVI
		5_0	impassability	unavailable	
497	closed ahead. Slow traffic for 3 km	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
498	blocked ahead. Stationary traffic for 3 km	1_5	trafficCondition	trafficStationary	IVI
		5_0	impassability	unavailable	
499	blocked ahead. Queuing traffic for 3 km	27_0	dangerousEndOfQueue	unavailable	IVI
		5_0	impassability	unavailable	
500	(Q) lane(s) closed	5_0	impassability	unavailable	IVI
501	(Q) right lane(s) closed	5_0	impassability	unavailable	IVI
502	(Q) centre lane(s) closed	5_0	impassability	unavailable	IVI
503	(Q) left lane(s) closed	5_0	impassability	unavailable	IVI
504	hard shoulder closed	5_0	impassability	unavailable	IVI
505	two lanes closed	5_0	impassability	unavailable	IVI
506	three lanes closed	5_0	impassability	unavailable	IVI
507	(Q) right lane(s) blocked	5_0	impassability	unavailable	IVI
508	(Q) centre lane(s) blocked	5_0	impassability	unavailable	IVI
509	(Q) left lane(s) blocked	5_0	impassability	unavailable	IVI
510	hard shoulder blocked	5_0	impassability	unavailable	IVI
511	two lanes blocked	5_0	impassability	unavailable	IVI
512	three lanes blocked	5_0	impassability	unavailable	IVI
513	single alternate line traffic				
514	carriageway reduced (from Q lanes) to one lane	5_0	impassability	unavailable	IVI
515	carriageway reduced (from Q lanes) to two lanes	5_0	impassability	unavailable	IVI
516	carriageway reduced (from Q lanes) to three lanes	5_0	impassability	unavailable	IVI
517	contraflow				IVI
518	narrow lanes				IVI
519	contraflow with narrow lanes				IVI
520	(Q) lane(s) blocked	5_0	impassability	unavailable	IVI

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
521	(Q) lanes closed. Stationary traffic	1_5 5_0	trafficCondition impassability	trafficStationary unavailable	IVI
522	(Q) lanes closed. Stationary traffic for 1 km	1_5 5_0	trafficCondition impassability	trafficStationary unavailable	IVI
523	(Q) lanes closed. Stationary traffic for 2 km	1_5 5_0	trafficCondition impassability	trafficStationary unavailable	IVI
524	(Q) lanes closed. Stationary traffic for 4 km	1_5 5_0	trafficCondition impassability	trafficStationary unavailable	IVI
525	(Q) lanes closed. Stationary traffic for 6 km	1_5 5_0	trafficCondition impassability	trafficStationary unavailable	IVI
526	(Q) lanes closed. Stationary traffic for 10 km	1_5 5_0	trafficCondition impassability	trafficStationary unavailable	IVI
527	(Q) lanes closed. Danger of stationary traffic	1_3 5_0	trafficCondition impassability	trafficJamIncreasing unavailable	IVI
528	(Q) lanes closed. Queuing traffic	27_0 5_0	dangerousEndOfQueue impassability	unavailable unavailable	IVI
529	(Q) lanes closed. Queuing traffic for 1 km	27_0 5_0	dangerousEndOfQueue impassability	unavailable unavailable	IVI
530	(Q) lanes closed. Queuing traffic for 2 km	27_0 5_0	dangerousEndOfQueue impassability	unavailable unavailable	IVI
531	(Q) lanes closed. Queuing traffic for 4 km	27_0 5_0	dangerousEndOfQueue impassability	unavailable unavailable	IVI
532	(Q) lanes closed. Queuing traffic for 6 km	27_0 5_0	dangerousEndOfQueue impassability	unavailable unavailable	IVI
533	(Q) lanes closed. Queuing traffic for 10 km	27_0 5_0	dangerousEndOfQueue impassability	unavailable unavailable	IVI
534	(Q) lanes closed. Danger of queuing traffic	1_3 5_0	trafficCondition impassability	trafficJamIncreasing unavailable	IVI
535	(Q) lanes closed. Slow traffic	1_0 5_0	trafficCondition impassability	unavailable unavailable	IVI
536	(Q) lanes closed. Slow traffic for 1 km	1_0 5_0	trafficCondition impassability	unavailable unavailable	IVI

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
537	(Q) lanes closed. Slow traffic for 2 km	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
538	(Q) lanes closed. Slow traffic for 4 km	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
539	(Q) lanes closed. Slow traffic for 6 km	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
540	(Q) lanes closed. Slow traffic for 10 km	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
541	(Q) lanes closed. Slow traffic expected	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
542	(Q) lanes closed. Heavy traffic	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
		5_0	impassability	unavailable	
543	(Q) lanes closed. Heavy traffic expected	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
		5_0	impassability	unavailable	
544	(Q) lanes closed. Traffic flowing freely	5_0	impassability	unavailable	IVI
545	(Q) lanes closed. Traffic building up	1_2	trafficCondition	trafficJamSlowlyIncreasing	IVI
		5_0	impassability	unavailable	
546	carriageway reduced (from Q lanes) to one lane. Stationary traffic	1_5	trafficCondition	trafficStationary	IVI
		5_0	impassability	unavailable	
547	carriageway reduced (from Q lanes) to one lane. Danger of stationary traffic	1_3	trafficCondition	trafficJamIncreasing	IVI
		5_0	impassability	unavailable	
548	carriageway reduced (from Q lanes) to one lane. Queuing traffic	27_0	dangerousEndOfQueue	unavailable	IVI
		5_0	impassability	unavailable	
549	carriageway reduced (from Q lanes) to one lane. Danger of queuing traffic	1_3	trafficCondition	trafficJamIncreasing	IVI
		5_0	impassability	unavailable	
550	carriageway reduced (from Q lanes) to one lane. Slow traffic	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
551	carriageway reduced (from Q lanes) to one lane. Slow traffic expected	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
552	carriageway reduced (from Q lanes) to one lane. Heavy traffic	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
		5_0	impassability	unavailable	
553	carriageway reduced (from Q lanes) to one lane. Heavy traffic expected	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
		5_0	impassability	unavailable	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
554	carriageway reduced (from Q lanes) to one lane. Traffic flowing freely	5_0	impassability	unavailable	IVI
555	carriageway reduced (from Q lanes) to one lane. Traffic building up	1_2 5_0	trafficCondition impassability	trafficJamSlowlyIncreasing unavailable	IVI
556	carriageway reduced (from Q lanes) to two lanes. Stationary traffic	1_5 5_0	trafficCondition impassability	trafficStationary unavailable	IVI
557	carriageway reduced (from Q lanes) to two lanes. Danger of stationary traffic	1_3 5_0	trafficCondition impassability	trafficJamIncreasing unavailable	IVI
558	carriageway reduced (from Q lanes) to two lanes. Queuing traffic	27_0 5_0	dangerousEndOfQueue impassability	unavailable unavailable	IVI
559	carriageway reduced (from Q lanes) to two lanes. Danger of queuing traffic	1_3 5_0	trafficCondition impassability	trafficJamIncreasing unavailable	IVI
560	carriageway reduced (from Q lanes) to two lanes. Slow traffic	1_0 5_0	trafficCondition impassability	unavailable unavailable	IVI
561	carriageway reduced (from Q lanes) to two lanes. Slow traffic expected	1_0 5_0	trafficCondition impassability	unavailable unavailable	IVI
562	carriageway reduced (from Q lanes) to two lanes. Heavy traffic	1_1 5_0	trafficCondition impassability	increasedVolumeOfTraffic unavailable	IVI
563	carriageway reduced (from Q lanes) to two lanes. Heavy traffic expected	1_1 5_0	trafficCondition impassability	increasedVolumeOfTraffic unavailable	IVI
564	carriageway reduced (from Q lanes) to two lanes. Traffic flowing freely	5_0	impassability	unavailable	IVI
565	carriageway reduced (from Q lanes) to two lanes. Traffic building up	1_2 5_0	trafficCondition impassability	trafficJamSlowlyIncreasing unavailable	IVI
566	carriageway reduced (from Q lanes) to three lanes. Stationary traffic	1_5 5_0	trafficCondition impassability	trafficStationary unavailable	IVI
567	carriageway reduced (from Q lanes) to three lanes. Danger of stationary traffic	1_3 5_0	trafficCondition impassability	trafficJamIncreasing unavailable	IVI
568	carriageway reduced (from Q lanes) to three lanes. Queuing traffic	27_0 5_0	dangerousEndOfQueue impassability	unavailable unavailable	IVI
569	carriageway reduced (from Q lanes) to three lanes. Danger of queuing traffic	1_3 5_0	trafficCondition impassability	trafficJamIncreasing unavailable	IVI



ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
570	carriageway reduced (from Q lanes) to three lanes. Slow traffic	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
571	carriageway reduced (from Q lanes) to three lanes. Slow traffic expected	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
572	carriageway reduced (from Q lanes) to three lanes. Heavy traffic	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
		5_0	impassability	unavailable	
573	carriageway reduced (from Q lanes) to three lanes. Heavy traffic expected	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
		5_0	impassability	unavailable	
574	carriageway reduced (from Q lanes) to three lanes. Traffic flowing freely	5_0	impassability	unavailable	IVI
575	carriageway reduced (from Q lanes) to three lanes. Traffic building up	1_2	trafficCondition	trafficJamSlowlyIncreasing	IVI
		5_0	impassability	unavailable	
576	contraflow. Stationary traffic	1_5	trafficCondition	trafficStationary	IVI
577	contraflow. Stationary traffic for 1 km	1_5	trafficCondition	trafficStationary	IVI
578	contraflow. Stationary traffic for 2 km	1_5	trafficCondition	trafficStationary	IVI
579	contraflow. Stationary traffic for 4 km	1_5	trafficCondition	trafficStationary	IVI
580	contraflow. Stationary traffic for 6 km	1_5	trafficCondition	trafficStationary	IVI
581	contraflow. Stationary traffic for 10 km	1_5	trafficCondition	trafficStationary	IVI
582	contraflow. Danger of stationary traffic	1_3	trafficCondition	trafficJamIncreasing	IVI
583	contraflow. Queuing traffic	27_0	dangerousEndOfQueue	unavailable	IVI
584	contraflow. Queuing traffic for 1 km	27_0	dangerousEndOfQueue	unavailable	IVI
585	contraflow. Queuing traffic for 2 km	27_0	dangerousEndOfQueue	unavailable	IVI
586	contraflow. Queuing traffic for 4 km	27_0	dangerousEndOfQueue	unavailable	IVI
587	contraflow. Queuing traffic for 6 km	27_0	dangerousEndOfQueue	unavailable	IVI
588	contraflow. Queuing traffic for 10 km	27_0	dangerousEndOfQueue	unavailable	IVI
589	contraflow. Danger of queuing traffic	1_3	trafficCondition	trafficJamIncreasing	IVI
590	contraflow. Slow traffic	1_0	trafficCondition	unavailable	IVI
591	contraflow. Slow traffic for 1 km	1_0	trafficCondition	unavailable	IVI
592	contraflow. Slow traffic for 2 km	1_0	trafficCondition	unavailable	IVI
593	contraflow. Slow traffic for 4 km	1_0	trafficCondition	unavailable	IVI
594	contraflow. Slow traffic for 6 km	1_0	trafficCondition	unavailable	IVI
595	contraflow. Slow traffic for 10 km	1_0	trafficCondition	unavailable	IVI

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
596	contraflow. Slow traffic expected	1_0	trafficCondition	unavailable	IVI
597	contraflow. Heavy traffic	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
598	contraflow. Heavy traffic expected	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
599	contraflow. Traffic flowing freely				IVI
600	contraflow. Traffic building up	1_2	trafficCondition	trafficJamSlowlyIncreasing	IVI
601	contraflow. Carriageway reduced (from Q lanes) to one lane	5_0	impassability	unavailable	IVI
602	contraflow. Carriageway reduced (from Q lanes) to two lanes	5_0	impassability	unavailable	IVI
603	contraflow. Carriageway reduced (from Q lanes) to three lanes	5_0	impassability	unavailable	IVI
604	narrow lanes. Stationary traffic	1_5	trafficCondition	trafficStationary	IVI
605	narrow lanes. Danger of stationary traffic	1_3	trafficCondition	trafficJamIncreasing	IVI
606	narrow lanes. Queuing traffic	27_0	dangerousEndOfQueue	unavailable	IVI
607	narrow lanes. Danger of queuing traffic	1_3	trafficCondition	trafficJamIncreasing	IVI
608	narrow lanes. Slow traffic	1_0	trafficCondition	unavailable	IVI
609	narrow lanes. Slow traffic expected	1_0	trafficCondition	unavailable	IVI
610	narrow lanes. Heavy traffic	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
611	narrow lanes. Heavy traffic expected	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
612	narrow lanes. Traffic flowing freely				IVI
613	narrow lanes. Traffic building up	1_2	trafficCondition	trafficJamSlowlyIncreasing	IVI
614	contraflow with narrow lanes. Stationary traffic	1_5	trafficCondition	trafficStationary	IVI
615	contraflow with narrow lanes. Stationary traffic. Danger of stationary traffic	1_3	trafficCondition	trafficJamIncreasing	IVI
616	contraflow with narrow lanes. Queuing traffic	27_0	dangerousEndOfQueue	unavailable	IVI
617	contraflow with narrow lanes. Danger of queuing traffic	1_3	trafficCondition	trafficJamIncreasing	IVI
618	contraflow with narrow lanes. Slow traffic	1_0	trafficCondition	unavailable	IVI
619	contraflow with narrow lanes. Slow traffic expected	1_0	trafficCondition	unavailable	IVI
620	contraflow with narrow lanes. Heavy traffic	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
621	contraflow with narrow lanes. Heavy traffic expected	1_1	trafficCondition	increasedVolumeOfTraffic	IVI

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
622	contraflow with narrow lanes. Traffic flowing freely				IVI
623	contraflow with narrow lanes. Traffic building up	1_2	trafficCondition	trafficJamSlowlyIncreasing	IVI
624	lane closures removed				IVI
625	message cancelled				
626	blocked ahead. Slow traffic for 3 km	1_0	trafficCondition	unavailable	IVI
		5_0	impassability	unavailable	
627	no motor vehicles without catalytic converters				IVI
628	no motor vehicles with even-numbered registration plates				IVI
629	no motor vehicles with odd-numbered registration plates				IVI
630	open				
631	road cleared				
632	entry reopened				
633	exit reopened				
634	all carriageways reopened				
635	motor vehicle restrictions lifted				
636	traffic restrictions lifted {reopened for all traffic}				
637	emergency lane closed	5_0	impassability	unavailable	IVI
638	turning lane closed	5_0	impassability	unavailable	IVI
639	crawler lane closed	5_0	impassability	unavailable	IVI
640	slow vehicle lane closed	5_0	impassability	unavailable	IVI
		26_0	slowVehicle	unavailable	
641	one lane closed	5_0	impassability	unavailable	IVI
642	emergency lane blocked	5_0	impassability	unavailable	IVI
643	turning lane blocked	5_0	impassability	unavailable	IVI
644	crawler lane blocked	5_0	impassability	unavailable	IVI
645	slow vehicle lane blocked	5_0	impassability	unavailable	IVI
		26_0	slowVehicle	unavailable	
646	one lane blocked	5_0	impassability	unavailable	IVI
647	(Q person) carpool lane in operation				

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
648	(Q person) carpool lane closed	5_0	impassability	unavailable	IVI
649	(Q person) carpool lane blocked	5_0	impassability	unavailable	IVI
650	carpool restrictions changed (to Q persons per vehicle)				
651	(Q) lanes closed. Stationary traffic for 3 km	1_5 5_0	trafficCondition impassability	trafficStationary unavailable	IVI
652	(Q) lanes closed. Queuing traffic for 3 km	27_0 5_0	dangerousEndOfQueue impassability	unavailable unavailable	IVI
653	(Q) lanes closed. Slow traffic for 3 km	1_0 5_0	trafficCondition impassability	unavailable unavailable	IVI
654	contraflow. Stationary traffic for 3 km	1_5	trafficCondition	trafficStationary	IVI
655	contraflow. Queuing traffic for 3 km	27_0	dangerousEndOfQueue	unavailable	IVI
656	contraflow. Slow traffic for 3 km	1_0	trafficCondition	unavailable	IVI
657	lane blockages cleared				
658	contraflow removed				IVI
659	(Q person) carpool restrictions lifted				
660	lane restrictions lifted				
661	use of hard shoulder allowed				
662	normal lane regulations restored				
663	all carriageways cleared				
664	carriageway closed	5_0	impassability	unavailable	IVI
665	both directions closed	5_0	impassability	unavailable	IVI
666	intermittent short term closures				IVI
671	bus lane available for carpools (with at least Q occupants)				
672	message cancelled				
673	message cancelled				
675	(Q) salting vehicles	26_8	slowVehicle	saltingVehicles	
676	bus lane blocked	5_0	impassability	unavailable	IVI
678	heavy vehicle lane closed	5_0	impassability	unavailable	IVI
679	heavy vehicle lane blocked	5_0	impassability	unavailable	IVI
680	reopened for through traffic				

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
681	(Q) snowploughs	26_6	slowVehicle	snowplough	
701	(Q sets of) roadworks	3_0	roadworks	unavailable	
702	(Q sets of) major roadworks	3_1	roadworks	majorRoadworks	
703	(Q sets of) maintenance work	3_4	roadworks	shortTermStationaryRoadworks	
704	(Q sections of) resurfacing work	3_1	roadworks	majorRoadworks	
705	(Q sets of) central reservation work	3_0	roadworks	unavailable	
706	(Q sets of) road marking work	3_2	roadworks	roadMarkingWork	
707	bridge maintenance work (at Q bridges)	3_0	roadworks	unavailable	
708	(Q sets of) temporary traffic lights				IVI SPAT/MAP
709	(Q sections of) blasting work	3_0	roadworks	unavailable	
710	(Q sets of) roadworks. Stationary traffic	1_5	trafficCondition	trafficStationary	
		3_0	roadworks	unavailable	
711	(Q sets of) roadworks. Stationary traffic for 1 km	1_5	trafficCondition	trafficStationary	
		3_0	roadworks	unavailable	
712	(Q sets of) roadworks. Stationary traffic for 2 km	1_5	trafficCondition	trafficStationary	
		3_0	roadworks	unavailable	
713	(Q sets of) roadworks. Stationary traffic for 4 km	1_5	trafficCondition	trafficStationary	
		3_0	roadworks	unavailable	
714	(Q sets of) roadworks. Stationary traffic for 6 km	1_5	trafficCondition	trafficStationary	
		3_0	roadworks	unavailable	
715	(Q sets of) roadworks. Stationary traffic for 10 km	1_5	trafficCondition	trafficStationary	
		3_0	roadworks	unavailable	
716	(Q sets of) roadworks. Danger of stationary traffic	1_3	trafficCondition	trafficJamIncreasing	
		3_0	roadworks	unavailable	
717	(Q sets of) roadworks. Queuing traffic	27_0	dangerousEndOfQueue	unavailable	
		3_0	roadworks	unavailable	
718	(Q sets of) roadworks. Queuing traffic for 1 km	27_0	dangerousEndOfQueue	unavailable	
		3_0	roadworks	unavailable	
719	(Q sets of) roadworks. Queuing traffic for 2 km	27_0	dangerousEndOfQueue	unavailable	
		3_0	roadworks	unavailable	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
720	(Q sets of) roadworks. Queuing traffic for 4 km	27_0	dangerousEndOfQueue	unavailable	
		3_0	roadworks	unavailable	
721	(Q sets of) roadworks. Queuing traffic for 6 km	27_0	dangerousEndOfQueue	unavailable	
		3_0	roadworks	unavailable	
722	(Q sets of) roadworks. Queuing traffic for 10 km	27_0	dangerousEndOfQueue	unavailable	
		3_0	roadworks	unavailable	
723	(Q sets of) roadworks. Danger of queuing traffic	1_3	trafficCondition	trafficJamIncreasing	
		3_0	roadworks	unavailable	
724	(Q sets of) roadworks. Slow traffic	1_0	trafficCondition	unavailable	
		3_0	roadworks	unavailable	
725	(Q sets of) roadworks. Slow traffic for 1 km	1_0	trafficCondition	unavailable	
		3_0	roadworks	unavailable	
726	(Q sets of) roadworks. Slow traffic for 2 km	1_0	trafficCondition	unavailable	
		3_0	roadworks	unavailable	
727	(Q sets of) roadworks. Slow traffic for 4 km	1_0	trafficCondition	unavailable	
		3_0	roadworks	unavailable	
728	(Q sets of) roadworks. Slow traffic for 6 km	1_0	trafficCondition	unavailable	
		3_0	roadworks	unavailable	
729	(Q sets of) roadworks. Slow traffic for 10 km	1_0	trafficCondition	unavailable	
		3_0	roadworks	unavailable	
730	(Q sets of) roadworks. Slow traffic expected	1_0	trafficCondition	unavailable	IVI
		3_0	roadworks	unavailable	
731	(Q sets of) roadworks. Heavy traffic	1_1	trafficCondition	increasedVolumeOfTraffic	
		3_0	roadworks	unavailable	
732	(Q sets of) roadworks. Heavy traffic expected	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
		3_0	roadworks	unavailable	
733	(Q sets of) roadworks. Traffic flowing freely	3_0	roadworks	unavailable	
734	(Q sets of) roadworks. Traffic building up	1_2	trafficCondition	trafficJamSlowlyIncreasing	
		3_0	roadworks	unavailable	
735	closed due to (Q sets of) roadworks	5_0	impassability	unavailable	
		3_0	roadworks	unavailable	
736	(Q sets of) roadworks. Right lane closed	5_0	impassability	unavailable	IVI
		3_0	roadworks	unavailable	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
737	(Q sets of) roadworks. Centre lane closed	5_0	impassability	unavailable	IVI
		3_0	roadworks	unavailable	
738	(Q sets of) roadworks. Left lane closed	5_0	impassability	unavailable	IVI
		3_0	roadworks	unavailable	
739	(Q sets of) roadworks. Hard shoulder closed	5_0	impassability	unavailable	IVI
		3_0	roadworks	unavailable	
740	(Q sets of) roadworks. Two lanes closed	5_0	impassability	unavailable	IVI
		3_0	roadworks	unavailable	
741	(Q sets of) roadworks. Three lanes closed	5_0	impassability	unavailable	IVI
		3_0	roadworks	unavailable	
742	(Q sets of) roadworks. Single alternate line traffic	3_0	roadworks	unavailable	IVI
743	roadworks. Carriageway reduced (from Q lanes) to one lane	5_0	impassability	unavailable	
		3_0	roadworks	unavailable	IVI
744	roadworks. Carriageway reduced (from Q lanes) to two lanes	5_0	impassability	unavailable	
		3_0	roadworks	unavailable	IVI
745	roadworks. Carriageway reduced (from Q lanes) to three lanes	5_0	impassability	unavailable	
		3_0	roadworks	unavailable	IVI
746	(Q sets of) roadworks. Contraflow	3_0	roadworks	unavailable	
747	roadworks. Delays (Q)	1_0	trafficCondition	unavailable	IVI
		3_0	roadworks	unavailable	
748	roadworks. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI
		3_0	roadworks	unavailable	
749	roadworks. Long delays (Q)	1_0	trafficCondition	unavailable	
		3_0	roadworks	unavailable	
750	(Q sections of) resurfacing work. Stationary traffic	1_5	trafficCondition	trafficStationary	
		3_1	roadworks	majorRoadworks	
751	(Q sections of) resurfacing work. Stationary traffic for 1 km	1_5	trafficCondition	trafficStationary	
		3_1	roadworks	majorRoadworks	
752	(Q sections of) resurfacing work. Stationary traffic for 2 km	1_5	trafficCondition	trafficStationary	
		3_1	roadworks	majorRoadworks	
753	(Q sections of) resurfacing work. Stationary traffic for 4 km	1_5	trafficCondition	trafficStationary	
		3_1	roadworks	majorRoadworks	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
754	(Q sections of) resurfacing work. Stationary traffic for 6 km	1_5 3_1	trafficCondition roadworks	trafficStationary majorRoadworks	
755	(Q sections of) resurfacing work. Stationary traffic for 10 km	1_5 3_1	trafficCondition roadworks	trafficStationary majorRoadworks	
756	(Q sections of) resurfacing work. Danger of stationary traffic	1_3 3_1	trafficCondition roadworks	trafficJamIncreasing majorRoadworks	
757	(Q sections of) resurfacing work. Queuing traffic	27_0 3_1	dangerousEndOfQueue roadworks	unavailable majorRoadworks	
758	(Q sections of) resurfacing work. Queuing traffic for 1 km	27_0 3_1	dangerousEndOfQueue roadworks	unavailable majorRoadworks	
759	(Q sections of) resurfacing work. Queuing traffic for 2 km	27_0 3_1	dangerousEndOfQueue roadworks	unavailable majorRoadworks	
760	(Q sections of) resurfacing work. Queuing traffic for 4 km	27_0 3_1	dangerousEndOfQueue roadworks	unavailable majorRoadworks	
761	(Q sections of) resurfacing work. Queuing traffic for 6 km	27_0 3_1	dangerousEndOfQueue roadworks	unavailable majorRoadworks	
762	(Q sections of) resurfacing work. Queuing traffic for 10 km	27_0 3_1	dangerousEndOfQueue roadworks	unavailable majorRoadworks	
763	(Q sections of) resurfacing work. Danger of queuing traffic	1_3 3_1	trafficCondition roadworks	trafficJamIncreasing majorRoadworks	
764	(Q sections of) resurfacing work. Slow traffic	1_0 3_1	trafficCondition roadworks	unavailable majorRoadworks	
765	(Q sections of) resurfacing work. Slow traffic for 1 km	1_0 3_1	trafficCondition roadworks	unavailable majorRoadworks	
766	(Q sections of) resurfacing work. Slow traffic for 2 km	1_0 3_1	trafficCondition roadworks	unavailable majorRoadworks	
767	(Q sections of) resurfacing work. Slow traffic for 4 km	1_0 3_1	trafficCondition roadworks	unavailable majorRoadworks	
768	(Q sections of) resurfacing work. Slow traffic for 6 km	1_0 3_1	trafficCondition roadworks	unavailable majorRoadworks	
769	(Q sections of) resurfacing work. Slow traffic for 10 km	1_0 3_1	trafficCondition roadworks	unavailable majorRoadworks	



ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
770	(Q sections of) resurfacing work. Slow traffic expected	1_0	trafficCondition	unavailable	IVI
		3_1	roadworks	majorRoadworks	
771	(Q sections of) resurfacing work. Heavy traffic	1_1	trafficCondition	increasedVolumeOfTraffic	
		3_1	roadworks	majorRoadworks	
772	(Q sections of) resurfacing work. Heavy traffic expected	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
		3_1	roadworks	majorRoadworks	
773	(Q sections of) resurfacing work. Traffic flowing freely	3_1	roadworks	majorRoadworks	
774	(Q sections of) resurfacing work. Traffic building up	1_2	trafficCondition	trafficJamSlowlyIncreasing	
		3_1	roadworks	majorRoadworks	
775	(Q sections of) resurfacing work. Single alternate line traffic	3_1	roadworks	majorRoadworks	
776	resurfacing work. Carriageway reduced (from Q lanes) to one lane	3_1	roadworks	majorRoadworks	IVI
		5_0	impassability	unavailable	
777	resurfacing work. Carriageway reduced (from Q lanes) to two lanes	3_1	roadworks	majorRoadworks	IVI
		5_0	impassability	unavailable	
778	resurfacing work. Carriageway reduced (from Q lanes) to three lanes	3_1	roadworks	majorRoadworks	IVI
		5_0	impassability	unavailable	
779	(Q sections of) resurfacing work. Contraflow	3_1	roadworks	majorRoadworks	IVI
780	resurfacing work. Delays (Q)	1_0	trafficCondition	unavailable	
		3_1	roadworks	majorRoadworks	
781	resurfacing work. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI
		3_1	roadworks	majorRoadworks	
782	resurfacing work. Long delays (Q)	1_0	trafficCondition	unavailable	
		3_1	roadworks	majorRoadworks	
783	(Q sets of) road marking work. Stationary traffic	1_5	trafficCondition	trafficStationary	
		3_2	roadworks	roadMarkingWork	
784	(Q sets of) road marking work. Danger of stationary traffic	1_3	trafficCondition	trafficJamIncreasing	
		3_2	roadworks	roadMarkingWork	
785	(Q sets of) road marking work. Queuing traffic	27_0	dangerousEndOfQueue	unavailable	
		3_2	roadworks	roadMarkingWork	
786	(Q sets of) road marking work. Danger of queuing traffic	1_3	trafficCondition	trafficJamIncreasing	
		3_2	roadworks	roadMarkingWork	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
787	(Q sets of) road marking work. Slow traffic	1_0	trafficCondition	unavailable	IVI
		3_2	roadworks	roadMarkingWork	
788	(Q sets of) road marking work. Slow traffic expected	1_0	trafficCondition	unavailable	IVI
		3_2	roadworks	roadMarkingWork	
789	(Q sets of) road marking work. Heavy traffic	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
		3_2	roadworks	roadMarkingWork	
790	(Q sets of) road marking work. Heavy traffic expected	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
		3_2	roadworks	roadMarkingWork	
791	(Q sets of) road marking work. Traffic flowing freely	3_2	roadworks	roadMarkingWork	IVI
792	(Q sets of) road marking work. Traffic building up	1_2	trafficCondition	trafficJamSlowlyIncreasing	
		3_2	roadworks	roadMarkingWork	IVI
793	(Q sets of) road marking work. Right lane closed	3_2	roadworks	roadMarkingWork	
		5_0	impassability	unavailable	IVI
794	(Q sets of) road marking work. Centre lane closed	3_2	roadworks	roadMarkingWork	
		5_0	impassability	unavailable	IVI
795	(Q sets of) road marking work. Left lane closed	3_2	roadworks	roadMarkingWork	
		5_0	impassability	unavailable	IVI
796	(Q sets of) road marking work. Hard shoulder closed	3_2	roadworks	roadMarkingWork	
		5_0	impassability	unavailable	IVI
797	(Q sets of) road marking work. Two lanes closed	3_2	roadworks	roadMarkingWork	
		5_0	impassability	unavailable	IVI
798	(Q sets of) road marking work. Three lanes closed	3_2	roadworks	roadMarkingWork	
		5_0	impassability	unavailable	IVI
799	closed for bridge demolition work (at Q bridges)	5_0	impassability	unavailable	
800	roadworks cleared				
801	message cancelled				
802	(Q sets of) long-term roadworks	3_0	roadworks	unavailable	
803	(Q sets of) construction work	3_0	roadworks	unavailable	
804	(Q sets of) slow moving maintenance vehicles	3_3	roadworks	slowMovingRoadMaintenance	
805	bridge demolition work (at Q bridges)	3_0	roadworks	unavailable	
806	(Q sets of) water main work	3_0	roadworks	unavailable	
807	(Q sets of) gas main work	3_0	roadworks	unavailable	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
808	(Q sets of) work on buried cables	3_0	roadworks	unavailable	
809	(Q sets of) work on buried services	3_0	roadworks	unavailable	
810	new roadworks layout	3_0	roadworks	unavailable	
811	new road layout				
812	(Q sets of) roadworks. Stationary traffic for 3 km	1_5	trafficCondition	trafficStationary	
		3_0	roadworks	unavailable	
813	(Q sets of) roadworks. Queuing traffic for 3 km	27_0	dangerousEndOfQueue	unavailable	
		3_0	roadworks	unavailable	
814	(Q sets of) roadworks. Slow traffic for 3 km	1_0	trafficCondition	unavailable	
		3_0	roadworks	unavailable	
815	(Q sets of) roadworks during the day time	3_0	roadworks	unavailable	
816	(Q sets of) roadworks during off-peak periods	3_0	roadworks	unavailable	
817	(Q sets of) roadworks during the night	3_0	roadworks	unavailable	
818	(Q sections of) resurfacing work. Stationary traffic for 3 km	1_5	trafficCondition	trafficStationary	
		3_1	roadworks	majorRoadworks	
819	(Q sections of) resurfacing work. Queuing traffic for 3 km	27_0	dangerousEndOfQueue	unavailable	
		3_1	roadworks	majorRoadworks	
820	(Q sections of) resurfacing work. Slow traffic for 3 km	1_0	trafficCondition	unavailable	
		3_1	roadworks	majorRoadworks	
821	(Q sets of) resurfacing work during the day time	3_1	roadworks	majorRoadworks	
822	(Q sets of) resurfacing work during off-peak periods	3_1	roadworks	majorRoadworks	
823	(Q sets of) resurfacing work during the night	3_1	roadworks	majorRoadworks	
824	(Q sets of) road marking work. Danger	3_2	roadworks	roadMarkingWork	
825	(Q sets of) slow moving maintenance vehicles. Stationary traffic	1_5	trafficCondition	trafficStationary	
		3_3	roadworks	slowMovingRoadMaintenance	
826	(Q sets of) slow moving maintenance vehicles. Danger of stationary traffic	1_3	trafficCondition	trafficJamIncreasing	
		3_3	roadworks	slowMovingRoadMaintenance	
827	(Q sets of) slow moving maintenance vehicles. Queuing traffic	27_0	dangerousEndOfQueue	unavailable	
		3_3	roadworks	slowMovingRoadMaintenance	
828	(Q sets of) slow moving maintenance vehicles. Danger of queuing traffic	1_3	trafficCondition	trafficJamIncreasing	
		3_3	roadworks	slowMovingRoadMaintenance	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
829	(Q sets of) slow moving maintenance vehicles. Slow traffic	1_0 3_3	trafficCondition roadworks	unavailable slowMovingRoadMaintenance	IVI
830	(Q sets of) slow moving maintenance vehicles. Slow traffic expected	1_0 3_3	trafficCondition roadworks	unavailable slowMovingRoadMaintenance	
831	(Q sets of) slow moving maintenance vehicles. Heavy traffic	1_1 3_3	trafficCondition roadworks	increasedVolumeOfTraffic slowMovingRoadMaintenance	IVI
832	(Q sets of) slow moving maintenance vehicles. Heavy traffic expected	1_1 3_3	trafficCondition roadworks	increasedVolumeOfTraffic slowMovingRoadMaintenance	
833	(Q sets of) slow moving maintenance vehicles. Traffic flowing freely	3_3	roadworks	slowMovingRoadMaintenance	
834	(Q sets of) slow moving maintenance vehicles. Traffic building up	1_2 3_3	trafficCondition roadworks	trafficJamSlowlyIncreasing slowMovingRoadMaintenance	
835	(Q sets of) slow moving maintenance vehicles. Right lane closed	5_0 3_3	impassability roadworks	unavailable slowMovingRoadMaintenance	IVI
836	(Q sets of) slow moving maintenance vehicles. Centre lane closed	5_0 3_3	impassability roadworks	unavailable slowMovingRoadMaintenance	IVI
837	(Q sets of) slow moving maintenance vehicles. Left lane closed	5_0 3_3	impassability roadworks	unavailable slowMovingRoadMaintenance	IVI
838	(Q sets of) slow moving maintenance vehicles. Two lanes closed	5_0 3_3	impassability roadworks	unavailable slowMovingRoadMaintenance	IVI
839	(Q sets of) slow moving maintenance vehicles. Three lanes closed	5_0 3_3	impassability roadworks	unavailable slowMovingRoadMaintenance	IVI
840	water main work. Delays (Q)	1_0	trafficCondition	unavailable	
841	water main work. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI
842	water main work. Long delays (Q)	1_0	trafficCondition	unavailable	
843	gas main work. Delays (Q)	1_0	trafficCondition	unavailable	
844	gas main work. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI
845	gas main work. Long delays (Q)	1_0	trafficCondition	unavailable	
846	work on buried cables. Delays (Q)	1_0	trafficCondition	unavailable	
847	work on buried cables. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI
848	work on buried cables. Long delays (Q)	1_0	trafficCondition	unavailable	
849	work on buried services. Delays (Q)	1_0	trafficCondition	unavailable	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
850	work on buried services. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI
851	work on buried services. Long delays (Q)	1_0	trafficCondition	unavailable	
852	construction traffic merging				
853	roadwork clearance in progress	15_0	rescueAndRecoveryWorkInProgress	unavailable	IVI
854	maintenance work cleared				
855	road layout unchanged				
856	construction traffic merging. Danger				IVI
857	(Q) unprotected accident area(s)	2_0	accident	unavailable	
858	danger of (Q) unprotected accident area(s)	2_0	accident	unavailable	
859	(Q) unlit vehicle(s) on the road	99_0	dangerousSituation	unavailable	
860	danger of (Q) unlit vehicle(s) on the road	99_0	dangerousSituation	unavailable	
861	snow and ice debris	6_5	adverseWeatherCondition-Adhesion	iceOnRoad	
862	danger of snow and ice debris	6_5	adverseWeatherCondition-Adhesion	iceOnRoad	
897	people throwing objects onto the road. Danger	20_3	violence	stoneThrowingPersons	
898	obstruction warning withdrawn				IVI
899	clearance work in progress, road free again	15_0	rescueAndRecoveryWorkInProgress	unavailable	
900	flooding expected	9_0	hazardousLocation-SurfaceCondition	unavailable	
901	(Q) obstruction(s) on roadway {something that does block the road or part of it}	10_4	hazardousLocation-ObstacleOnTheRoad	bigObjects	
902	(Q) obstructions on the road. Danger	10_4	hazardousLocation-ObstacleOnTheRoad	bigObjects	
903	spillage on the road	6_0	adverseWeatherCondition-Adhesion	unavailable	
904	storm damage	9_6	hazardousLocation-SurfaceCondition	stormDamage	
905	(Q) fallen trees	10_5	hazardousLocation-ObstacleOnTheRoad	fallenTrees	
906	(Q) fallen trees. Danger	10_5	hazardousLocation-ObstacleOnTheRoad	fallenTrees	
907	flooding	9_0	hazardousLocation-SurfaceCondition	unavailable	
908	flooding. Danger	9_0	hazardousLocation-SurfaceCondition	unavailable	
909	flash floods	9_3	hazardousLocation-SurfaceCondition	sewerCollapse	
910	danger of flash floods	9_3	hazardousLocation-SurfaceCondition	sewerCollapse	
911	avalanches	5_0	impassability	unavailable	
		10_4	hazardousLocation-ObstacleOnTheRoad	bigObjects	
912	avalanche risk				IVI
913	rockfalls	9_1	hazardousLocation-SurfaceCondition	rockfalls	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
914	landslips	5_0	impassability	unavailable	
		10_4	hazardousLocation-ObstacleOnTheRoad	bigObjects	
915	earthquake damage	9_2	hazardousLocation-SurfaceCondition	earthquakeDamage	
916	road surface in poor condition	9_0	hazardousLocation-SurfaceCondition	unavailable	
917	subsidence	9_4	hazardousLocation-SurfaceCondition	subsidence	
918 (Q)	collapsed sewer(s)	9_3	hazardousLocation-SurfaceCondition	sewerCollapse	
919	burst water main	9_7	hazardousLocation-SurfaceCondition	burstPipe	
920	gas leak	9_0	hazardousLocation-SurfaceCondition	unavailable	
921	serious fire	9_10	hazardousLocation-SurfaceCondition	fire	
922	animals on roadway	11_0	hazardousLocation-AnimalOnTheRoad	unavailable	
923	animals on the road. Danger	11_0	hazardousLocation-AnimalOnTheRoad	unavailable	
924	clearance work	15_0	rescueAndRecoveryWorkInProgress	unavailable	
925	blocked by storm damage	9_6	hazardousLocation-SurfaceCondition	stormDamage	IVI
		5_0	impassability	unavailable	
926	blocked by (Q) fallen trees	10_5	hazardousLocation-ObstacleOnTheRoad	fallenTrees	IVI
		5_0	impassability	unavailable	
927	(Q) fallen tree(s). Passable with care	10_5	hazardousLocation-ObstacleOnTheRoad	fallenTrees	
928	flooding. Stationary traffic	1_5	trafficCondition	trafficStationary	
		9_0	hazardousLocation-SurfaceCondition	unavailable	
929	flooding. Danger of stationary traffic	1_3	trafficCondition	trafficJamIncreasing	
		9_0	hazardousLocation-SurfaceCondition	unavailable	
930	flooding. Queuing traffic	27_0	dangerousEndOfQueue	unavailable	
		9_0	hazardousLocation-SurfaceCondition	unavailable	
931	flooding. Danger of queuing traffic	1_3	trafficCondition	trafficJamIncreasing	
		9_0	hazardousLocation-SurfaceCondition	unavailable	
932	flooding. Slow traffic	1_0	trafficCondition	unavailable	
		9_0	hazardousLocation-SurfaceCondition	unavailable	
933	flooding. Slow traffic expected	1_0	trafficCondition	unavailable	IVI
		9_0	hazardousLocation-SurfaceCondition	unavailable	
934	flooding. Heavy traffic	1_1	trafficCondition	increasedVolumeOfTraffic	
		9_0	hazardousLocation-SurfaceCondition	unavailable	
935	flooding. Heavy traffic expected	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
		9_0	hazardousLocation-SurfaceCondition	unavailable	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
936	flooding. Traffic flowing freely	9_0	hazardousLocation-SurfaceCondition	unavailable	
937	flooding. Traffic building up	1_2	trafficCondition	trafficJamSlowlyIncreasing	
		9_0	hazardousLocation-SurfaceCondition	unavailable	
938	closed due to flooding	9_0	hazardousLocation-SurfaceCondition	unavailable	IVI
		5_0	impassability	unavailable	
939	flooding. Delays (Q)	1_0	trafficCondition	unavailable	
		9_0	hazardousLocation-SurfaceCondition	unavailable	
940	flooding. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI
		9_0	hazardousLocation-SurfaceCondition	unavailable	
941	flooding. Long delays (Q)	1_0	trafficCondition	unavailable	
		9_0	hazardousLocation-SurfaceCondition	unavailable	
942	flooding. Passable with care	9_0	hazardousLocation-SurfaceCondition	unavailable	
943	closed due to avalanches	5_0	impassability	unavailable	IVI
		10_4	hazardousLocation-ObstacleOnTheRoad	bigObjects	
944	avalanches. Passable with care (above Q hundred metres)	5_0	impassability	unavailable	
		10_4	hazardousLocation-ObstacleOnTheRoad	bigObjects	
945	closed due to rockfalls	5_0	impassability	unavailable	IVI
		9_1	hazardousLocation-SurfaceCondition	rockfalls	
946	rockfalls. Passable with care	9_1	hazardousLocation-SurfaceCondition	rockfalls	
947	road closed due to landslips	5_0	impassability	unavailable	IVI
		10_4	hazardousLocation-ObstacleOnTheRoad	bigObjects	
948	landslips. Passable with care	5_0	impassability	unavailable	
		10_4	hazardousLocation-ObstacleOnTheRoad	bigObjects	
949	closed due to subsidence	5_0	impassability	unavailable	IVI
		9_4	hazardousLocation-SurfaceCondition	subsidence	
950	subsidence. Single alternate line traffic	9_4	hazardousLocation-SurfaceCondition	subsidence	
951	subsidence. Carriageway reduced (from Q lanes) to one lane	5_0	impassability	unavailable	IVI
		9_4	hazardousLocation-SurfaceCondition	subsidence	
952	subsidence. Carriageway reduced (from Q lanes) to two lanes	5_0	impassability	unavailable	IVI
		9_4	hazardousLocation-SurfaceCondition	subsidence	
953	subsidence. Carriageway reduced (from Q lanes) to three lanes	5_0	impassability	unavailable	IVI
		9_4	hazardousLocation-SurfaceCondition	subsidence	
954	subsidence. Contraflow in operation	9_4	hazardousLocation-SurfaceCondition	subsidence	IVI



ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
955	subsidence. Passable with care	9_4	hazardousLocation-SurfaceCondition	subsidence	
956	closed due to sewer collapse	9_3	hazardousLocation-SurfaceCondition	sewerCollapse	IVI
		5_0	impassability	unavailable	
957	road closed due to burst water main	5_0	impassability	unavailable	IVI
		9_7	hazardousLocation-SurfaceCondition	burstPipe	
958	burst water main. Delays (Q)	1_0	trafficCondition	unavailable	
		9_7	hazardousLocation-SurfaceCondition	burstPipe	
959	burst water main. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI
		9_7	hazardousLocation-SurfaceCondition	burstPipe	
960	burst water main. Long delays (Q)	1_0	trafficCondition	unavailable	
		9_7	hazardousLocation-SurfaceCondition	burstPipe	
961	closed due to gas leak	5_0	impassability	unavailable	IVI
		9_0	hazardousLocation-SurfaceCondition	unavailable	
962	gas leak. Delays (Q)	1_0	trafficCondition	unavailable	
		9_0	hazardousLocation-SurfaceCondition	unavailable	
963	gas leak. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI
		9_0	hazardousLocation-SurfaceCondition	unavailable	
964	gas leak. Long delays (Q)	1_0	trafficCondition	unavailable	
		9_0	hazardousLocation-SurfaceCondition	unavailable	
965	closed due to serious fire	9_10	hazardousLocation-SurfaceCondition	fire	IVI
		5_0	impassability	unavailable	
966	serious fire. Delays (Q)	1_0	trafficCondition	unavailable	
		9_10	hazardousLocation-SurfaceCondition	fire	
967	serious fire. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI
		9_10	hazardousLocation-SurfaceCondition	fire	
968	serious fire. Long delays (Q)	1_0	trafficCondition	unavailable	
		9_10	hazardousLocation-SurfaceCondition	fire	
969	closed for clearance work	15_0	rescueAndRecoveryWorkInProgress	unavailable	IVI
		5_0	impassability	unavailable	
970	road free again				
971	message cancelled				
972	storm damage expected	9_6	hazardousLocation-SurfaceCondition	stormDamage	IVI
973	fallen power cables	10_0	hazardousLocation-ObstacleOnTheRoad	unavailable	



ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
974	sewer overflow	9_3	hazardousLocation-SurfaceCondition	sewerCollapse	
975	ice build-up	6_5	adverseWeatherCondition-Adhesion	iceOnRoad	
976	mud slide	9_0	hazardousLocation-SurfaceCondition	unavailable	
		6_3	adverseWeatherCondition-Adhesion	mudOnRoad	
977	grass fire	9_10	hazardousLocation-SurfaceCondition	fire	
978	air crash	2_0	accident	unavailable	
979	rail crash	2_0	accident	unavailable	
980	blocked by (Q) obstruction(s) on the road	10_4	hazardousLocation-ObstacleOnTheRoad	bigObjects	IVI
		5_0	impassability	unavailable	
981	(Q) obstructions on the road. Passable with care	10_4	hazardousLocation-ObstacleOnTheRoad	bigObjects	
982	blocked due to spillage on roadway	6_0	adverseWeatherCondition-Adhesion	unavailable	IVI
		5_0	impassability	unavailable	
983	spillage on the road. Passable with care	6_0	adverseWeatherCondition-Adhesion	unavailable	
984	spillage on the road. Danger	6_0	adverseWeatherCondition-Adhesion	unavailable	
985	storm damage. Passable with care	9_6	hazardousLocation-SurfaceCondition	stormDamage	
986	storm damage. Danger	9_6	hazardousLocation-SurfaceCondition	stormDamage	
987	blocked by fallen power cables	10_0	hazardousLocation-ObstacleOnTheRoad	unavailable	IVI
		5_0	impassability	unavailable	
988	fallen power cables. Passable with care	10_0	hazardousLocation-ObstacleOnTheRoad	unavailable	
989	fallen power cables. Danger	10_0	hazardousLocation-ObstacleOnTheRoad	unavailable	
990	sewer overflow. Danger	9_3	hazardousLocation-SurfaceCondition	sewerCollapse	
991	flash floods. Danger	9_3	hazardousLocation-SurfaceCondition	sewerCollapse	
992	avalanches. Danger	5_0	impassability	unavailable	
		10_4	hazardousLocation-ObstacleOnTheRoad	bigObjects	
993	closed due to avalanche risk				IVI
994	avalanche risk. Danger				IVI
995	closed due to ice build-up	5_0	impassability	unavailable	IVI
		6_5	adverseWeatherCondition-Adhesion	iceOnRoad	
996	ice build-up. Passable with care (above Q hundred metres)	6_5	adverseWeatherCondition-Adhesion	iceOnRoad	
997	ice build-up. Single alternate traffic	6_5	adverseWeatherCondition-Adhesion	iceOnRoad	
998	rockfalls. Danger	9_1	hazardousLocation-SurfaceCondition	rockfalls	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
999	landslips. Danger	5_0	impassability	unavailable	
		10_4	hazardousLocation-ObstacleOnTheRoad	bigObjects	
1000	earthquake damage. Danger	9_2	hazardousLocation-SurfaceCondition	earthquakeDamage	
1001	hazardous driving conditions (above Q hundred metres)	9_0	hazardousLocation-SurfaceCondition	unavailable	
1002	danger of aquaplaning	7_0	aquaplaning	unavailable	
1003	slippery road (above Q hundred metres)	6_0	adverseWeatherCondition-Adhesion	unavailable	
1004	mud on road	6_3	adverseWeatherCondition-Adhesion	mudOnRoad	
1005	leaves on road	6_0	adverseWeatherCondition-Adhesion	unavailable	
1006	ice (above Q hundred metres)	6_5	adverseWeatherCondition-Adhesion	iceOnRoad	
1007	danger of ice (above Q hundred metres)	6_5	adverseWeatherCondition-Adhesion	iceOnRoad	
1008	black ice (above Q hundred metres)	6_6	adverseWeatherCondition-Adhesion	blackIceOnRoad	
1009	freezing rain (above Q hundred metres)	6_5	adverseWeatherCondition-Adhesion	iceOnRoad	
1010	wet and icy roads (above Q hundred metres)	6_5	adverseWeatherCondition-Adhesion	iceOnRoad	
1011	slush (above Q hundred metres)	6_4	adverseWeatherCondition-Adhesion	snowOnRoad	
1012	snow on the road (above Q hundred metres)	6_4	adverseWeatherCondition-Adhesion	snowOnRoad	
1013	packed snow (above Q hundred metres)	6_4	adverseWeatherCondition-Adhesion	snowOnRoad	
1014	fresh snow (above Q hundred metres)	6_4	adverseWeatherCondition-Adhesion	snowOnRoad	
1015	deep snow (above Q hundred metres)	6_4	adverseWeatherCondition-Adhesion	snowOnRoad	
1016	snow drifts (above Q hundred metres)	9_5	hazardousLocation-SurfaceCondition	snowDrifts	
1017	slippery due to spillage on roadway	6_0	adverseWeatherCondition-Adhesion	unavailable	
1018	slippery road (above Q hundred metres) due to snow	6_0	adverseWeatherCondition-Adhesion	unavailable	
1019	slippery road (above Q hundred metres) due to frost	6_0	adverseWeatherCondition-Adhesion	unavailable	
		6_1	adverseWeatherCondition-Adhesion	heavyFrostOnRoad	
1020	road blocked by snow (above Q hundred metres)	5_0	impassability	unavailable	IVI
1021	snow on the road. Carriageway reduced (from Q lanes) to one lane	5_0	impassability	unavailable	IVI
1022	snow on the road. Carriageway reduced (from Q lanes) to two lanes	5_0	impassability	unavailable	IVI
1023	snow on the road. Carriageway reduced (from Q lanes) to three lanes	5_0	impassability	unavailable	IVI
1024	conditions of road surface improved				

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Code	Text	DENM index	CauseCode	SubCauseCode	
1025	message cancelled				
1026	subsidence. Danger	9_4	hazardousLocation-SurfaceCondition	subsidence	
1027	sewer collapse. Delays (Q)	1_0	trafficCondition	unavailable	
		9_3	hazardousLocation-SurfaceCondition	sewerCollapse	
1028	sewer collapse. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI
		9_3	hazardousLocation-SurfaceCondition	sewerCollapse	
1029	sewer collapse. Long delays (Q)	1_0	trafficCondition	unavailable	
		9_3	hazardousLocation-SurfaceCondition	sewerCollapse	
1030	sewer collapse. Danger	9_3	hazardousLocation-SurfaceCondition	sewerCollapse	
1031	burst water main. Danger	9_7	hazardousLocation-SurfaceCondition	burstPipe	
1032	gas leak. Danger	9_0	hazardousLocation-SurfaceCondition	unavailable	
1033	serious fire. Danger	9_10	hazardousLocation-SurfaceCondition	fire	
1034	clearance work. Danger	15_0	rescueAndRecoveryWorkInProgress	unavailable	
1035	impassable (above Q hundred metres)	5_0	impassability	unavailable	
1036	almost impassable (above Q hundred metres)				IVI
1037	extremely hazardous driving conditions (above Q hundred metres)	9_0	hazardousLocation-SurfaceCondition	unavailable	
1038	difficult driving conditions (above Q hundred metres)	9_0	hazardousLocation-SurfaceCondition	unavailable	
1039	passable with care (up to Q hundred metres)	9_0	hazardousLocation-SurfaceCondition	unavailable	
1040	passable (up to Q hundred metres)				
1041	surface water hazard	7_0	aquaplaning	unavailable	
1042	loose sand on road	6_0	adverseWeatherCondition-Adhesion	unavailable	
1043	loose chippings	6_8	adverseWeatherCondition-Adhesion	looseChippings	
1044	oil on road	6_7	adverseWeatherCondition-Adhesion	oilOnRoad	
1045	petrol on road	6_2	adverseWeatherCondition-Adhesion	fuelOnRoad	
1047	icy patches (above Q hundred metres)	6_5	adverseWeatherCondition-Adhesion	iceOnRoad	
1048	danger of icy patches (above Q hundred metres)	6_5	adverseWeatherCondition-Adhesion	iceOnRoad	
1050	danger of black ice (above Q hundred metres)	6_6	adverseWeatherCondition-Adhesion	blackIceOnRoad	
1054	slippery due to loose sand on roadway	6_0	adverseWeatherCondition-Adhesion	unavailable	
1055	mud on road. Danger	6_3	adverseWeatherCondition-Adhesion	mudOnRoad	
1056	loose chippings. Danger	6_8	adverseWeatherCondition-Adhesion	looseChippings	
1057	oil on road. Danger	6_7	adverseWeatherCondition-Adhesion	oilOnRoad	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
1058	petrol on road. Danger	6_2	adverseWeatherCondition-Adhesion	fuelOnRoad	
1059	road surface in poor condition. Danger	9_0	hazardousLocation-SurfaceCondition	unavailable	
1060	icy patches (above Q hundred metres) on bridges	6_5	adverseWeatherCondition-Adhesion	iceOnRoad	
1061	danger of icy patches (above Q hundred metres) on bridges	6_5	adverseWeatherCondition-Adhesion	iceOnRoad	
1062	icy patches (above Q hundred metres) on bridges, in shaded areas and on slip roads	6_5	adverseWeatherCondition-Adhesion	iceOnRoad	
1063	impassable for heavy vehicles (over Q)				IVI
1064	impassable (above Q hundred metres) for vehicles with trailers				IVI
1065	driving conditions improved				
1066	rescue and recovery work in progress. Danger	15_0	rescueAndRecoveryWorkInProgress	unavailable	
1067	large animals on roadway	11_4	hazardousLocation-AnimalOnTheRoad	largeAnimals	IVI
1068	herds of animals on roadway	11_2	hazardousLocation-AnimalOnTheRoad	herdOfAnimals	IVI
1069	skid hazard reduced				
1070	snow cleared				
1073	extremely hazardous driving conditions expected (above Q hundred meters)	9_0	hazardousLocation-SurfaceCondition	unavailable	IVI
1074	freezing rain expected (above Q hundred metres)	6_5	adverseWeatherCondition-Adhesion	iceOnRoad	IVI
1075	danger of road being blocked by snow (above Q hundred metres)	5_0	impassability	unavailable	IVI
1079	temperature falling rapidly (to Q)				
1080	extreme heat (up to Q)				
1081	extreme cold (of Q)				
1082	less extreme temperatures				
1083	current temperature (Q)				
1084	house fire	9_10	hazardousLocation-SurfaceCondition	fire	
1085	forest fire	9_10	hazardousLocation-SurfaceCondition	fire	
1086	vehicle stuck under bridge	94_2	stationaryVehicle	vehicleBreakdown	IVI
1090	volcano eruption warning	9_8	hazardousLocation-SurfaceCondition	volcanoEruption	
1101	heavy snowfall (Q)	19_2	adverseWeatherCondition-Precipitation	heavySnowfall	
1102	heavy snowfall (Q). Visibility reduced to <30 m	18_3	adverseWeatherCondition-Visibility	heavySnowfall	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
1103	heavy snowfall (Q). Visibility reduced to <50 m	18_3	adverseWeatherCondition-Visibility	heavySnowfall	
1104	snowfall (Q)	19_0	adverseWeatherCondition-Precipitation	unavailable	
1105	snowfall (Q). Visibility reduced to <100 m	18_0	adverseWeatherCondition-Visibility	unavailable	
1106	hail (visibility reduced to Q)	19_3	adverseWeatherCondition-Precipitation	softHail	
1107	sleet (visibility reduced to Q)	18_0	adverseWeatherCondition-Visibility	unavailable	
1108	thunderstorms (visibility reduced to Q)	17_4	adverseWeatherCondition-ExtremeWeatherCondition	thunderstorm	
1109	heavy rain (Q)	19_1	adverseWeatherCondition-Precipitation	heavyRain	
1110	heavy rain (Q). Visibility reduced to <30 m	18_4	adverseWeatherCondition-Visibility	heavyRain	
1111	heavy rain (Q). Visibility reduced to <50 m	18_4	adverseWeatherCondition-Visibility	heavyRain	
1112	rain (Q)	19_0	adverseWeatherCondition-Precipitation	unavailable	
1113	rain (Q). Visibility reduced to <100 m	18_0	adverseWeatherCondition-Visibility	unavailable	
1114	showers (visibility reduced to Q)	18_0	adverseWeatherCondition-Visibility	unavailable	
1115	heavy frost	6_1	adverseWeatherCondition-Adhesion	heavyFrostOnRoad	
1116	frost	6_1	adverseWeatherCondition-Adhesion	heavyFrostOnRoad	
1126	weather situation improved				
1127	message cancelled				
1128	winter storm (visibility reduced to Q)	18_0	adverseWeatherCondition-Visibility	unavailable	
1130	blizzard (visibility reduced to Q)	17_6	adverseWeatherCondition-ExtremeWeatherCondition	blizzard	
1132	damaging hail (visibility reduced to Q)	17_2	adverseWeatherCondition-ExtremeWeatherCondition	damagingHail	
1134	heavy snowfall. Visibility reduced (to Q)	18_3	adverseWeatherCondition-Visibility	heavySnowfall	
1135	snowfall. Visibility reduced (to Q)	18_0	adverseWeatherCondition-Visibility	unavailable	
1136	heavy rain. Visibility reduced (to Q)	18_4	adverseWeatherCondition-Visibility	heavyRain	
1137	rain. Visibility reduced (to Q)	18_0	adverseWeatherCondition-Visibility	unavailable	
1165	rain changing to snow	19_0	adverseWeatherCondition-Precipitation	unavailable	
1166	snow changing to rain	19_0	adverseWeatherCondition-Precipitation	unavailable	
1170	heavy snowfall (Q) expected	19_2	adverseWeatherCondition-Precipitation	heavySnowfall	IVI
1171	heavy rain (Q) expected	19_1	adverseWeatherCondition-Precipitation	heavyRain	IVI
1172	weather expected to improve				IVI

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
1173	blizzard (with visibility reduced to Q) expected	17_6	adverseWeatherCondition- ExtremeWeatherCondition	blizzard	IVI
1174	damaging hail (with visibility reduced to Q) expected	17_2	adverseWeatherCondition- ExtremeWeatherCondition	damagingHail	IVI
1175	reduced visibility (to Q) expected				IVI
1176	freezing fog expected (with visibility reduced to Q). Danger of slippery roads	6_5 18_1	adverseWeatherCondition-Adhesion adverseWeatherCondition-Visibility	iceOnRoad fog	IVI
1177	dense fog (with visibility reduced to Q) expected	18_1	adverseWeatherCondition-Visibility	fog	IVI
1178	patchy fog (with visibility reduced to Q) expected	18_1	adverseWeatherCondition-Visibility	fog	IVI
1179	visibility expected to improve				IVI
1180	adverse weather warning withdrawn				
1190	severe smog				
1191	severe exhaust pollution				
1201	tornadoes	17_5	adverseWeatherCondition- ExtremeWeatherCondition	tornado	
1202	hurricane force winds (Q)	17_3	adverseWeatherCondition- ExtremeWeatherCondition	hurricane	
1203	gales (Q)	17_1	adverseWeatherCondition- ExtremeWeatherCondition	strongWinds	
1204	storm force winds (Q)	17_3	adverseWeatherCondition- ExtremeWeatherCondition	hurricane	
1205	strong winds (Q)	17_1	adverseWeatherCondition- ExtremeWeatherCondition	strongWinds	
1209	gusty winds (Q)	17_1	adverseWeatherCondition- ExtremeWeatherCondition	strongWinds	
1210	crosswinds (Q)	17_1	adverseWeatherCondition- ExtremeWeatherCondition	strongWinds	
1211	strong winds (Q) affecting high-sided vehicles	17_1	adverseWeatherCondition- ExtremeWeatherCondition	strongWinds	
1212	closed for high-sided vehicles due to strong winds (Q)	5_0	impassability	unavailable	IVI
1213	strong winds easing				
1214	message cancelled				

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
1215	restrictions for high-sided vehicles lifted				
1217	tornado warning ended				
1301	dense fog (visibility reduced to Q)	18_1	adverseWeatherCondition-Visibility	fog	
1302	dense fog. Visibility reduced to <30 m	18_1	adverseWeatherCondition-Visibility	fog	
1303	dense fog. Visibility reduced to <50 m	18_1	adverseWeatherCondition-Visibility	fog	
1304	fog (visibility reduced to Q)	18_1	adverseWeatherCondition-Visibility	fog	
1305	fog. Visibility reduced to <100 m	18_1	adverseWeatherCondition-Visibility	fog	
1307	patchy fog (visibility reduced to Q)	18_1	adverseWeatherCondition-Visibility	fog	
1308	freezing fog (visibility reduced to Q)	6_5	adverseWeatherCondition-Adhesion	iceOnRoad	
		18_1	adverseWeatherCondition-Visibility	fog	
1309	smoke hazard (visibility reduced to Q)	18_2	adverseWeatherCondition-Visibility	smoke	
1310	blowing dust (visibility reduced to Q)	18_0	adverseWeatherCondition-Visibility	unavailable	
1312	snowfall and fog (visibility reduced to Q)	18_1	adverseWeatherCondition-Visibility	fog	
1313	visibility improved				
1314	message cancelled				
1318	visibility reduced (to Q)	18_0	adverseWeatherCondition-Visibility	unavailable	
1319	visibility reduced to <30 m	18_0	adverseWeatherCondition-Visibility	unavailable	
1320	visibility reduced to <50 m	18_0	adverseWeatherCondition-Visibility	unavailable	
1321	visibility reduced to <100 m	18_0	adverseWeatherCondition-Visibility	unavailable	
1322	white out (visibility reduced to Q)	18_0	adverseWeatherCondition-Visibility	unavailable	
1323	blowing snow (visibility reduced to Q)	18_3	adverseWeatherCondition-Visibility	heavySnowfall	
		17_1	adverseWeatherCondition-ExtremeWeatherCondition	strongWinds	
1324	spray hazard (visibility reduced to Q)	18_0	adverseWeatherCondition-Visibility	unavailable	
1325	low sun glare	18_6	adverseWeatherCondition-Visibility	lowSunGlare	
1326	sandstorms (visibility reduced to Q)	18_7	adverseWeatherCondition-Visibility	sandstorms	
1332	smog alert				
1337	freezing fog (visibility reduced to Q). Slippery roads	6_5	adverseWeatherCondition-Adhesion	iceOnRoad	
		18_1	adverseWeatherCondition-Visibility	fog	
1338	no motor vehicles due to smog alert				IVI
1340	swarms of insects (visibility reduced to Q)	18_8	adverseWeatherCondition-Visibility	swarmsOfInsects	
1345	fog clearing				



ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
1346	fog forecast withdrawn				
1449	emergency training in progress	1_0	trafficCondition	unavailable	
		12_0	humanPresenceOnTheRoad	unavailable	
1450	international sports meeting	1_0	trafficCondition	unavailable	
1451	match	1_0	trafficCondition	unavailable	
1452	tournament	1_0	trafficCondition	unavailable	
1453	athletics meeting	1_0	trafficCondition	unavailable	
1454	ball game	1_0	trafficCondition	unavailable	
1455	boxing tournament	1_0	trafficCondition	unavailable	
1456	bull fight	1_0	trafficCondition	unavailable	
1457	cricket match	1_0	trafficCondition	unavailable	
1458	cycle race	1_0	trafficCondition	unavailable	
1459	football match	1_0	trafficCondition	unavailable	
1460	golf tournament	1_0	trafficCondition	unavailable	
1461	marathon	1_0	trafficCondition	unavailable	
1462	race meeting	1_0	trafficCondition	unavailable	
1463	rugby match	1_0	trafficCondition	unavailable	
1464	show jumping	1_0	trafficCondition	unavailable	
1465	tennis tournament	1_0	trafficCondition	unavailable	
1466	water sports meeting	1_0	trafficCondition	unavailable	
1467	winter sports meeting	1_0	trafficCondition	unavailable	
1468	funfair	1_0	trafficCondition	unavailable	
1469	trade fair	1_0	trafficCondition	unavailable	
1470	procession	1_0	trafficCondition	unavailable	
1471	sightseers obstructing access	12_0	humanPresenceOnTheRoad	unavailable	
1472	people on roadway	12_0	humanPresenceOnTheRoad	unavailable	
1473	children on roadway	12_1	humanPresenceOnTheRoad	childrenOnRoadway	
1474	cyclists on roadway	12_2	humanPresenceOnTheRoad	cyclistOnRoadway	
1475	strike	1_0	trafficCondition	unavailable	
1476	security incident	1_0	trafficCondition	unavailable	
1477	police checkpoint	1_0	trafficCondition	unavailable	
1478	terrorist incident	1_0	trafficCondition	unavailable	



ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
1479	gunfire on roadway, danger	1_0	trafficCondition	unavailable	
1480	civil emergency	1_0	trafficCondition	unavailable	
1481	air raid, danger	1_0	trafficCondition	unavailable	
1482	people on roadway. Danger	12_0	humanPresenceOnTheRoad	unavailable	
1483	children on roadway. Danger	12_1	humanPresenceOnTheRoad	childrenOnRoadway	
1484	cyclists on roadway. Danger	12_2	humanPresenceOnTheRoad	cyclistOnRoadway	
1485	closed due to security incident	5_0	impassability	unavailable	IVI
1486	security incident. Delays (Q)	1_0	trafficCondition	unavailable	
1487	security incident. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI
1488	security incident. Long delays (Q)	1_0	trafficCondition	unavailable	
1489	police checkpoint. Delays (Q)	1_0	trafficCondition	unavailable	
1490	police checkpoint. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI
1491	police checkpoint. Long delays (Q)	1_0	trafficCondition	unavailable	
1492	security alert withdrawn				
1493	sports traffic cleared				
1494	evacuation	1_0	trafficCondition	unavailable	
1495	evacuation. Heavy traffic	1_1	trafficCondition	increasedVolumeOfTraffic	
1496	traffic disruption cleared				
1497	military training in progress	1_0	trafficCondition	unavailable	
		12_0	humanPresenceOnTheRoad	unavailable	
1498	police activity ongoing	15_3	rescueAndRecoveryWorkInProgress	policeActivityOngoing	
1499	medical emergency ongoing	15_4	rescueAndRecoveryWorkInProgress	medicalEmergencyOngoing	
1500	child abduction in progress	1_0	trafficCondition	unavailable	
1501	major event	1_0	trafficCondition	unavailable	
1502	sports event meeting	1_0	trafficCondition	unavailable	
1503	show	1_0	trafficCondition	unavailable	
1504	festival	1_0	trafficCondition	unavailable	
1505	exhibition	1_0	trafficCondition	unavailable	
1506	fair	1_0	trafficCondition	unavailable	
1507	market	1_0	trafficCondition	unavailable	
1508	ceremonial event	1_0	trafficCondition	unavailable	
1509	state occasion	1_0	trafficCondition	unavailable	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
1510	parade	1_0	trafficCondition	unavailable	
1511	crowd	1_0	trafficCondition	unavailable	
1512	march	1_0	trafficCondition	unavailable	
1513	demonstration	1_0	trafficCondition	unavailable	
1514	public disturbance	1_0	trafficCondition	unavailable	
1515	security alert	1_0	trafficCondition	unavailable	
1516	bomb alert	1_0	trafficCondition	unavailable	
1517	major event. Stationary traffic	1_5	trafficCondition	trafficStationary	
1518	major event. Danger of stationary traffic	1_3	trafficCondition	trafficJamIncreasing	
1519	major event. Queuing traffic	27_0	dangerousEndOfQueue	unavailable	
1520	major event. Danger of queuing traffic	1_3	trafficCondition	trafficJamIncreasing	
1521	major event. Slow traffic	1_0	trafficCondition	unavailable	
1522	major event. Slow traffic expected	1_0	trafficCondition	unavailable	IVI
1523	major event. Heavy traffic	1_1	trafficCondition	increasedVolumeOfTraffic	
1524	major event. Heavy traffic expected	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
1525	major event. Traffic flowing freely				
1526	major event. Traffic building up	1_2	trafficCondition	trafficJamSlowlyIncreasing	
1527	closed due to major event	5_0	impassability	unavailable	IVI
1528	major event. Delays (Q)	1_0	trafficCondition	unavailable	
1529	major event. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI
1530	major event. Long delays (Q)	1_0	trafficCondition	unavailable	
1531	sports meeting. Stationary traffic	1_5	trafficCondition	trafficStationary	
1532	sports meeting. Danger of stationary traffic	1_3	trafficCondition	trafficJamIncreasing	
1533	sports meeting. Queuing traffic	27_0	dangerousEndOfQueue	unavailable	
1534	sports meeting. Danger of queuing traffic	1_3	trafficCondition	trafficJamIncreasing	
1535	sports meeting. Slow traffic	1_0	trafficCondition	unavailable	
1536	sports meeting. Slow traffic expected	1_0	trafficCondition	unavailable	IVI
1537	sports meeting. Heavy traffic	1_1	trafficCondition	increasedVolumeOfTraffic	
1538	sports meeting. Heavy traffic expected	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
1539	sports meeting. Traffic flowing freely				
1540	sports meeting. Traffic building up	1_2	trafficCondition	trafficJamSlowlyIncreasing	
1541	closed due to sports meeting	5_0	impassability	unavailable	IVI

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
1542	sports meeting. Delays (Q)	1_0	trafficCondition	unavailable	
1543	sports meeting. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI
1544	sports meeting. Long delays (Q)	1_0	trafficCondition	unavailable	
1545	fair. Stationary traffic	1_5	trafficCondition	trafficStationary	
1546	fair. Danger of stationary traffic	1_3	trafficCondition	trafficJamIncreasing	
1547	fair. Queuing traffic	27_0	dangerousEndOfQueue	unavailable	
1548	fair. Danger of queuing traffic	1_3	trafficCondition	trafficJamIncreasing	
1549	fair. Slow traffic	1_0	trafficCondition	unavailable	
1550	fair. Slow traffic expected	1_0	trafficCondition	unavailable	IVI
1551	fair. Heavy traffic	1_1	trafficCondition	increasedVolumeOfTraffic	
1552	fair. Heavy traffic expected	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
1553	fair. Traffic flowing freely				
1554	fair. Traffic building up	1_2	trafficCondition	trafficJamSlowlyIncreasing	
1555	closed due to fair	5_0	impassability	unavailable	IVI
1556	fair. Delays (Q)	1_0	trafficCondition	unavailable	
1557	fair. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI
1558	fair. Long delays (Q)	1_0	trafficCondition	unavailable	
1559	closed due to parade	5_0	impassability	unavailable	IVI
1560	parade. Delays (Q)	1_0	trafficCondition	unavailable	
1561	parade. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI
1562	parade. Long delays (Q)	1_0	trafficCondition	unavailable	
1563	closed due to strike	5_0	impassability	unavailable	IVI
1564	strike. Delays (Q)	1_0	trafficCondition	unavailable	
1565	strike. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI
1566	strike. Long delays (Q)	1_0	trafficCondition	unavailable	
1567	closed due to demonstration	5_0	impassability	unavailable	IVI
1568	demonstration. Delays (Q)	1_0	trafficCondition	unavailable	
1569	demonstration. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI
1570	demonstration. Long delays (Q)	1_0	trafficCondition	unavailable	
1571	security alert. Stationary traffic	1_5	trafficCondition	trafficStationary	
1572	security alert. Danger of stationary traffic	1_3	trafficCondition	trafficJamIncreasing	
1573	security alert. Queuing traffic	27_0	dangerousEndOfQueue	unavailable	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
1574	security alert. Danger of queuing traffic	1_3	trafficCondition	trafficJamIncreasing	IVI
1575	security alert. Slow traffic	1_0	trafficCondition	unavailable	
1576	security alert. Slow traffic expected	1_0	trafficCondition	unavailable	
1577	security alert. Heavy traffic	1_1	trafficCondition	increasedVolumeOfTraffic	
1578	security alert. Heavy traffic expected	1_1	trafficCondition	increasedVolumeOfTraffic	IVI
1579	security alert. Traffic building up	1_2	trafficCondition	trafficJamSlowlyIncreasing	IVI
1580	closed due to security alert	5_0	impassability	unavailable	
1581	security alert. Delays (Q)	1_0	trafficCondition	unavailable	
1582	security alert. Delays (Q) expected	1_0	trafficCondition	unavailable	
1583	security alert. Long delays (Q)	1_0	trafficCondition	unavailable	IVI
1584	traffic has returned to normal				
1585	message cancelled				
1586	security alert. Traffic flowing freely				
1587	air raid warning cancelled				
1588	civil emergency cancelled				
1589	message cancelled				
1590	several major events	1_0	trafficCondition	unavailable	
1591	information about major event no longer valid	1_0	trafficCondition	unavailable	
1592	automobile race	1_0	trafficCondition	unavailable	
1593	baseball game	1_0	trafficCondition	unavailable	
1594	basketball game	1_0	trafficCondition	unavailable	
1595	boat race	1_0	trafficCondition	unavailable	
1596	concert	1_0	trafficCondition	unavailable	
1597	hockey game	1_0	trafficCondition	unavailable	
1601	delays (Q)	1_0	trafficCondition	unavailable	
1602	delays up to 15 minutes	1_0	trafficCondition	unavailable	
1603	delays up to 30 minutes	1_0	trafficCondition	unavailable	
1604	delays up to one hour	1_0	trafficCondition	unavailable	
1605	delays up to two hours	1_0	trafficCondition	unavailable	
1606	delays of several hours	1_0	trafficCondition	unavailable	IVI
1607	delays (Q) expected	1_0	trafficCondition	unavailable	
1608	long delays (Q)	1_0	trafficCondition	unavailable	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
1609	delays (Q) for heavy vehicles	1_0	trafficCondition	unavailable	
1610	delays up to 15 minutes for heavy lorr(y/ies)	1_0	trafficCondition	unavailable	
1611	delays up to 30 minutes for heavy lorr(y/ies)	1_0	trafficCondition	unavailable	
1612	delays up to one hour for heavy lorr(y/ies)	1_0	trafficCondition	unavailable	
1613	delays up to two hours for heavy lorr(y/ies)	1_0	trafficCondition	unavailable	
1614	delays of several hours for heavy lorr(y/ies)	1_0	trafficCondition	unavailable	
1615	service suspended (until Q)				
1616	(Q) service withdrawn				
1617	(Q) service(s) fully booked				
1618	(Q) service(s) fully booked for heavy vehicles				
1619	normal services resumed				
1620	message cancelled				
1621	delays up to 5 minutes	1_0	trafficCondition	unavailable	
1622	delays up to 10 minutes	1_0	trafficCondition	unavailable	
1623	delays up to 20 minutes	1_0	trafficCondition	unavailable	
1624	delays up to 25 minutes	1_0	trafficCondition	unavailable	
1625	delays up to 40 minutes	1_0	trafficCondition	unavailable	
1626	delays up to 50 minutes	1_0	trafficCondition	unavailable	
1627	delays up to 90 minutes	1_0	trafficCondition	unavailable	
1628	delays up to three hours	1_0	trafficCondition	unavailable	
1629	delays up to four hours	1_0	trafficCondition	unavailable	
1630	delays up to five hours	1_0	trafficCondition	unavailable	
1631	very long delays (Q)	1_0	trafficCondition	unavailable	
1632	delays of uncertain duration	1_0	trafficCondition	unavailable	
1633	delayed until further notice				
1634	cancellations				
1635	park and ride service not operating (until Q)				
1636	special public transport services operating (until Q)				
1637	normal services not operating (until Q)				
1638	rail services not operating (until Q)				
1639	bus services not operating (until Q)				

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
1640	shuttle service operating (until Q)				
1641	free shuttle service operating (until Q)				
1642	delays (Q) for heavy lorr(y/ies)	1_0	trafficCondition	unavailable	
1643	delays (Q) for buses	1_0	trafficCondition	unavailable	
1644	(Q) service(s) fully booked for heavy lorr(y/ies)				
1645	(Q) service(s) fully booked for buses				
1646	next departure (Q) for heavy lorr(y/ies)				
1647	next departure (Q) for buses				
1648	delays cleared				
1649	rapid transit service not operating (until Q)				
1650	delays (Q) possible	1_0	trafficCondition	unavailable	
1651	underground service not operating (until Q)				
1652	cancellations expected				IVI
1653	long delays expected	1_0	trafficCondition	unavailable	IVI
1654	very long delays expected	1_0	trafficCondition	unavailable	IVI
1655	all services fully booked (until Q)				
1656	next arrival (Q)				
1657	rail services irregular. Delays (Q)				
1658	bus services irregular. Delays (Q)				
1659	underground services irregular				
1660	normal public transport services resumed				
1661	ferry service not operating (until Q)				
1662	park and ride trip time (Q)				
1663	delay expected to be cleared				IVI
1664	demonstration by vehicles	1_0	trafficCondition	unavailable	
1695	current trip time (Q)				
1696	expected trip time (Q)				IVI
1700	(Q) slow moving maintenance vehicle(s)	3_3	roadworks	slowMovingRoadMaintenance	
1701	(Q) vehicle(s) on wrong carriageway	14_2	wrongWayDriving	wrongDirection	
1702	dangerous vehicle warning cleared				
1703	message cancelled				
1704	(Q) reckless driver(s)	99_0	dangerousSituation	unavailable	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
1705	(Q) prohibited vehicle(s) on the roadway				
1706	(Q) emergency vehicles	95_0	emergencyVehicleApproaching	unavailable	
1707	(Q) high-speed emergency vehicles	95_1	emergencyVehicleApproaching	emergencyVehicleApproaching	
1708	high-speed chase (involving Q vehicles)	99_0	dangerousSituation	unavailable	
1709	spillage occurring from moving vehicle	6_0	adverseWeatherCondition-Adhesion	unavailable	
1710	objects falling from moving vehicle	10_1	hazardousLocation-ObstacleOnTheRoad	shedLoad	
1711	emergency vehicle warning cleared				
1712	road cleared				
1720	rail services irregular				
1721	public transport services not operating				
1731	(Q) abnormal load(s), danger	26_3	slowVehicle	abnormalLoad	
1732	(Q) wide load(s), danger	26_4	slowVehicle	abnormalWideLoad	
1733	(Q) long load(s), danger	26_3	slowVehicle	abnormalLoad	
1734	(Q) slow vehicle(s), danger	26_0	slowVehicle	unavailable	
1735	(Q) track-laying vehicle(s), danger	26_1	slowVehicle	maintenanceVehicle	
1736	(Q) vehicle(s) carrying hazardous materials. Danger	26_3	slowVehicle	abnormalLoad	
1737	(Q) convoy(s), danger	26_5	slowVehicle	convoy	
1738	(Q) military convoy(s), danger	26_5	slowVehicle	convoy	
1739	(Q) overheight load(s), danger	26_3	slowVehicle	abnormalLoad	
1740	abnormal load causing slow traffic. Delays (Q)	1_0	trafficCondition	unavailable	
		26_3	slowVehicle	abnormalLoad	
1741	convoy causing slow traffic. Delays (Q)	1_0	trafficCondition	unavailable	
1751	(Q) abnormal load(s)	26_3	slowVehicle	abnormalLoad	
1752	(Q) wide load(s)	26_4	slowVehicle	abnormalWideLoad	
1753	(Q) long load(s)	26_3	slowVehicle	abnormalLoad	
1754	(Q) slow vehicle(s)	26_0	slowVehicle	unavailable	
1755	(Q) convoy(s)	26_5	slowVehicle	convoy	
1756	abnormal load. Delays (Q)	1_0	trafficCondition	unavailable	
		26_3	slowVehicle	abnormalLoad	
1757	abnormal load. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI
		26_3	slowVehicle	abnormalLoad	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
1758	abnormal load. Long delays (Q)	1_0	trafficCondition	unavailable	IVI
		26_3	slowVehicle	abnormalLoad	
1759	convoy causing delays (Q)	1_0	trafficCondition	unavailable	
1760	convoy. Delays (Q) expected	1_0	trafficCondition	unavailable	
1761	convoy causing long delays (Q)	1_0	trafficCondition	unavailable	
1762	exceptional load warning cleared				
1763	message cancelled				
1764	(Q) track-laying vehicle(s)	26_1	slowVehicle	maintenanceVehicle	
1765	(Q) vehicle(s) carrying hazardous materials	26_3	slowVehicle	abnormalLoad	
1766	(Q) military convoy(s)	26_5	slowVehicle	convoy	
1767	(Q) abnormal load(s). No overtaking	26_3	slowVehicle	abnormalLoad	
1768	Vehicles carrying hazardous materials have to stop at next safe place!	26_3	slowVehicle	abnormalLoad	
1769	hazardous load warning cleared				
1770	convoy cleared				
1771	warning cleared				
1801	lane control signs not working				
1802	emergency telephones not working				
1803	emergency telephone number not working				
1804	(Q sets of) traffic lights not working				IVI SPAT/MAP
1805	(Q sets of) traffic lights working incorrectly				IVI SPAT/MAP
1806	level crossing failure				IVI SPAT/MAP
1807	(Q sets of) traffic lights not working. Stationary traffic	1_5	trafficCondition	trafficStationary	IVI SPAT/MAP
1808	(Q sets of) traffic lights not working. Danger of stationary traffic	1_3	trafficCondition	trafficJamIncreasing	IVI SPAT/MAP
1809	(Q sets of) traffic lights not working. Queuing traffic	27_0	dangerousEndOfQueue	unavailable	IVI SPAT/MAP



ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
1810	(Q sets of) traffic lights not working. Danger of queuing traffic	1_3	trafficCondition	trafficJamIncreasing	IVI SPAT/MAP
1811	(Q sets of) traffic lights not working. Slow traffic	1_0	trafficCondition	unavailable	IVI SPAT/MAP
1812	(Q sets of) traffic lights not working. Slow traffic expected	1_0	trafficCondition	unavailable	IVI SPAT/MAP
1813	(Q sets of) traffic lights not working. Heavy traffic	1_1	trafficCondition	increasedVolumeOfTraffic	IVI SPAT/MAP
1814	(Q sets of) traffic lights not working. Heavy traffic expected	1_1	trafficCondition	increasedVolumeOfTraffic	IVI SPAT/MAP
1815	(Q sets of) traffic lights not working. Traffic flowing freely				IVI SPAT/MAP
1816	(Q sets of) traffic lights not working. Traffic building up	1_2	trafficCondition	trafficJamSlowlyIncreasing	IVI SPAT/MAP
1817	traffic lights not working. Delays (Q)				IVI SPAT/MAP
1818	traffic lights not working. Delays (Q) expected				IVI SPAT/MAP
1819	traffic lights not working. Long delays (Q)				IVI SPAT/MAP
1820	level crossing failure. Stationary traffic	1_5	trafficCondition	trafficStationary	IVI SPAT/MAP
1821	level crossing failure. Danger of stationary traffic	1_3	trafficCondition	trafficJamIncreasing	IVI SPAT/MAP
1822	level crossing failure. Queuing traffic	27_0	dangerousEndOfQueue	unavailable	IVI SPAT/MAP
1823	level crossing failure. Danger of queuing traffic	1_3	trafficCondition	trafficJamIncreasing	IVI SPAT/MAP
1824	level crossing failure. Slow traffic	1_0	trafficCondition	unavailable	IVI SPAT/MAP
1825	level crossing failure. Slow traffic expected	1_0	trafficCondition	unavailable	IVI SPAT/MAP

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
1826	level crossing failure. Heavy traffic	1_1	trafficCondition	increasedVolumeOfTraffic	IVI SPAT/MAP
1827	level crossing failure. Heavy traffic expected	1_1	trafficCondition	increasedVolumeOfTraffic	IVI SPAT/MAP
1828	level crossing failure. Traffic flowing freely				IVI SPAT/MAP
1829	level crossing failure. Traffic building up	1_2	trafficCondition	trafficJamSlowlyIncreasing	IVI SPAT/MAP
1830	level crossing failure. Delays (Q)	1_0	trafficCondition	unavailable	IVI SPAT/MAP
1831	level crossing failure. Delays (Q) expected	1_0	trafficCondition	unavailable	IVI SPAT/MAP
1832	level crossing failure. Long delays (Q)	1_0	trafficCondition	unavailable	IVI SPAT/MAP
1838	lane control signs working incorrectly				
1839	lane control signs operating				
1840	variable message signs not working				
1841	variable message signs working incorrectly				
1842	variable message signs operating				
1843	(Q sets of) ramp control signals not working				
1844	(Q sets of) ramp control signals working incorrectly				
1845	(Q sets of) temporary traffic lights not working				IVI SPAT/MAP
1846	(Q sets of) temporary traffic lights working incorrectly				IVI SPAT/MAP
1847	traffic signal control computer not working				
1848	traffic signal timings changed				IVI SPAT/MAP
1850	lane control signs not working. Danger				
1854	traffic regulations have been changed				
1858	Snowplough. Delays (Q)	26_6 1_0	slowVehicle trafficCondition	snowplough unavailable	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
1864	lane control signs working incorrectly. Danger				
1865	emergency telephones out of order. Extra police patrols in operation				
1866	emergency telephones out of order. In emergency, wait for police patrol				
1867	(Q sets of) traffic lights not working. Danger				IVI SPAT/MAP
1868	traffic lights working incorrectly. Delays (Q)				IVI SPAT/MAP
1869	traffic lights working incorrectly. Delays (Q) expected				IVI SPAT/MAP
1870	traffic lights working incorrectly. Long delays (Q)				IVI SPAT/MAP
1875	(Q sets of) traffic lights working incorrectly. Danger				IVI SPAT/MAP
1876	temporary traffic lights not working. Delays (Q)				IVI SPAT/MAP
1877	temporary traffic lights not working. Delays (Q) expected				IVI SPAT/MAP
1878	temporary traffic lights not working. Long delays (Q)				IVI SPAT/MAP
1879	(Q sets of) temporary traffic lights not working. Danger				IVI SPAT/MAP
1880	traffic signal control computer not working. Delays (Q)				
1884	traffic signal control computer not working. Delays (Q) expected				IVI
1885	traffic signal control computer not working. Long delays (Q)				
1901	next departure (Q)				
1902	next departure (Q) for heavy vehicles				
1906	park and ride service operating (until Q)				
1961	allow emergency vehicles to pass in the carpool lane	95_0	emergencyVehicleApproaching	unavailable	

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
1962	carpool lane available for all vehicles				
1963	police directing traffic via the carpool lane				
1971	police directing traffic				
1972	buslane available for all vehicles				
1973	police directing traffic via the buslane				
1974	allow emergency vehicles to pass	95_0	emergencyVehicleApproaching	unavailable	
1975	overtaking prohibited for heavy vehicles (over Q)				IVI
1976	overtaking prohibited				IVI
1977	allow emergency vehicles to pass in the heavy vehicle lane	95_0	emergencyVehicleApproaching	unavailable	
1978	heavy vehicle lane available for all vehicles				
1979	police directing traffic via the heavy vehicle lane				
1980	overtaking prohibited for heavy lorries (over Q)				IVI
1981	drivers of heavy lorries (over Q) are recommended to stop at next safe place				
1982	buslane closed	5_0	impassability	unavailable	IVI
1985	overtaking restriction lifted				IVI
1986	Low Emission Zone restriction in force				
1991	danger of waiting vehicles on roadway	10_7	hazardousLocation-ObstacleOnTheRoad	waitingVehicles	
1998	dangerous situation on exit slip road	99_0	dangerousSituation	unavailable	IVI
1999	dangerous situation on entry slip road	99_0	dangerousSituation	unavailable	IVI
2000	closed due to smog alert (until Q)	5_0	impassability	unavailable	IVI
2006	closed for vehicles with less than three occupants {not valid for lorries}	5_0	impassability	unavailable	IVI
2007	closed for vehicles with only one occupant {not valid for lorries}	5_0	impassability	unavailable	IVI
2013	service area busy				
2021	service not operating, substitute service available				
2022	public transport strike				
2028	message cancelled				
2029	message cancelled				

ALERT-C (ISO 14819-2:2021)		Codes according to DENM/CDD standard			Additional IVI SPAT / MAP
Code	Text	DENM index	CauseCode	SubCauseCode	
2030	message cancelled				
2033	message cancelled				
2034	message cancelled				
2035	message cancelled				
2042	ice build-up on cable structure	6_5	adverseWeatherCondition-Adhesion	iceOnRoad	
2043	road salted	6_10	adverseWeatherCondition-Adhesion	roadsSalted	
2044	danger of snow patches	6_4	adverseWeatherCondition-Adhesion	snowOnRoad	
2045	snow patches	6_4	adverseWeatherCondition-Adhesion	snowOnRoad	
2046	Convoy service required due to bad weather				