

Summary

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SC1 - Identity

Supra	Category	Example Context Elements
SC1 Identity	I1.1 Vehicle Id	VIN License Plate National Registration Number Brand Model Year Electronic tag Id
	I1.2 Vehicle Dimensions	Length Width Height Empty Weight Max Weight Wheelbase
	I1.3 Vehicle Classification	Vehicle Category EuroCar Segment Classification US EPA Classification
	I1.4 Vehicle Mechanical Attributes	Engine Displacement Suspension Type Gear Characteristics Axles Traction
	I2.1.1 Driver Id	Possession based (Driver License number, SSN) Knowledge based (User/password) Biometric based (Fingerprint, face, iris)
	I2.1.2 Passenger Id	Possession based (Official document number, SSN, Bus/Train Ticket, Public Transportation Card) Knowledge based (User/password) Biometric based (Fingerprint, face, iris)
	I2.1.3 Person Id	Possession based (Driver License number, SSN) Knowledge based (User/password) Biometric based (Fingerprint, face, iris)
	I2.2.1 Profile	Name Age Birthday Profession Gender Infotainment Preferences (Music style, Radio stations, Cell Phone answering policy) General Preferences (Route type, Route distance vs time, Toll policy, Gas Stations, Shops) Addresses Email

		Phone number Social Media Addresses Allergies
	I2.2.2 Physical Attributes	Height Weight Physical abilities / Special needs
	I2.2.3 Driver Experience	Is in training? Is recently licensed? Years licensed Vehicle Categories allowed to drive Special training (passenger, dangerous goods) Safety history
	I3.1 Place Id	Geographic Coordinate* Symbolic Coordinate* Geographic (Semantic) Location*
	I3.2 Place Attributes	Length Width Height Max allowed weight Allowed vehicle types Min Age Opening Hours Other restrictions
	I3.3 Road Characteristics	Pavement type Number of lanes Default maximum speed
	I4.1 Payload Dimensions	Length Width Height Weight Has special format / needs special handling?
	I4.2 Payload Type	Is Live? Is Perishable? Is Fragile? Is Dangerous? Hazardous Materials Classification
	I4.3 Payload Id	Cargo Barcode / QR-Code Tracking IDs
	I5.1 Device Type	Is mobile? Is inside/part of Vehicle? Is Network device? Is Traffic Infrastructure ? Power supply type Power
	I5.2 Device UID	MAC address Sensor ID Traffic Light ID

SC2 - Location

Supra	Category	Example Context Elements
SC2 Location	L1.1 Geographic Coordinate	Latitude Longitude Altitude
	L1.2 Symbolic Coordinate	Cellular Network Base Station Id Wifi SSID Beacon Id
	L2 Geographic (Semantic) Location	Address Road Name Floor (in multi-story car parks, for instance) Train station Name / Id Bus Stop Id Traffic Light Id
	L3 Location Type	Kind of Place Place Service
	L4.1 Route	Start and End point Intermediate stops Bus line
	L4.2 Distance	Total distance traveled Distance traveled in current journey Distance traveled since last rest stop Distance to destination Distance to next waypoint

SC3 - Time

Supra	Category	Example Context Elements
SC3 Time	T1 Local Time	Local Time/Date Coordinated Time/Date Day of the Week Timestamp
	T2 Schedule	Personal Schedule Delivery Tables Holiday List Bus lines timetable
	T3 Travel Time	Time elapsed since travel start Time elapsed since last rest stop ETA

SC4 - Activity

Supra	Category	Example Context Elements
SC4 Activity	A1.1 Driver Status	Pulse Rate Temperature Blood alcohol content Tiredness Mood
	A1.2 Driving Task	Hands position Eyes direction Throttle pressure Break pressure Current Gear
	A1.3 Driving External Task	Is talking to other passengers? Is using mobile? Is talking to pedestrian? Is interacting with drive-thru/toll booth?
	A1.4 Driver Infotainment Task	Is Radio On? Current radio volume Is Changing Volume? Is Changing mode? Is Changing station? GPS has way set Is handling GPS?
	A2 Passenger	Current activity Objectives Seat Occupied Is sat? Is using Seatbelt? Is wake? Pulse Rate Temperature Mood
	A3.1 Pedestrian Movement	Acceleration Direction Speed
	A3.2 Pedestrian Role	Is waiting? Is future passenger?
	A4.1 Vehicle Activity	Is in autonomous mode? Is parking? Is stopped? Is in service? (taxi ride/transporting passengers/cargo/patients) Is in emergence? Ambient noise level Internal temperature
	A4.2 Mechanical Status	Fuel tank level Current gear RPM Engine load

		Oil Temperature Cooling Temperature Throttle position Fuel type/mix Lights status Blinker status Failure/Malfunction error code Has Crashed? Airbag deployment status Seatbelt status Any information readable from OBD-II
	A4.3 Vehicle Movement	Speed Average Speed Angular velocity Acceleration Direction Has rolled over? Had sudden acceleration?
	A5 Cargo	Temperature Movement
	A6.1 Traffic Device	Traffic lights status Traffic lights timer Traffic sign type Message board message Toll plaza status Barrier status
	A6.2.1 Traffic Condition	Traffic intensity Accident notification Abnormal condition (stopped car in the road, potholes)
	A6.2.2 Road Availability	Road works Road blocks Vehicle types allowed in road
	A7.1 Weather	Temperature Rain/Snow status Moisture Wind speed Tide**
	A7.2 Lanes	Lane Status (Open/Closed) Lane direction (for reversible lanes) Vehicle types allowed in lane
	A7.3 Point of Interest	Surrounding POIs Services offered Service values Is open?
	A7.4.1 Infrastructure	Surrounding Infrastructure Devices Traffic Device* Road Side Unit*
	A7.4.2 Traffic Controller	Surrounding Traffic Controllers Actions

		Commands
	A7.4.3 Law Enforcement	Surrounding Law Enforcement Agents Commands Type Is human or machine?
	A7.5.1 Surrounding Cyclist	Surrounding Cyclists Acceleration Direction Speed
	A7.5.2 Surrounding Driver	Surrounding Drivers
	A7.5.3 Surrounding Passenger	Surrounding Passengers Location* Travel Time*
	A7.5.4 Surrounding Pedestrian	Surrounding Pedestrians Location*
	A7.5.5 Surrounding Vehicles	Surrounding Vehicles Vehicle Activity* Mechanical Status* Vehicle Movement* Location*
	A8 Social Media	Posts about events nearby Posts about traffic events Posts from persons nearby Posts from businesses nearby
	A9.1 Network Connectivity	Bandwidth Network type Connectivity level (no access, local, internet)
	A9.2 Network status	Latency Packet loss Jitter
	A9.3 Road Side Unit	Connectivity* Location*
	A9.4 Peer Device	<i>Any CE about a network peer device</i>

* Any CE from the category (or its subcategories) is also a CE for this category

** While not a weather condition, we consider that it is fit to put Tide in this category, since applications which might use Tide information are probably using other weather information too.