

Cargo ontology.

ONTOLOGY (CARGO)										
Information need	Information element	Conditions/attribute	Value metrics	Value (blank)	Value threshold	From whom	To whom	Profile	Timing	
0. System time	0.1 Date		<i>GPS</i>			<i>DG vehicle</i>	<i>TMC</i>	<i>“Critical info”</i>	<i>Real time</i>	
						<i>DG vehicle</i>	<i>Infrastructure</i>	<i>“Passport”</i>	<i>Real time</i>	
						<i>DG vehicle</i>	<i>Police</i>	<i>“Enforcement”</i>	<i>Real time</i>	
						<i>DG vehicle</i>	<i>Business chain</i>	<i>“Logistics”</i>	<i>Real time</i>	
						<i>DG vehicle</i>	<i>Emergency agencies</i>	<i>“Emergency”</i>	<i>Real time</i>	
						<i>DG vehicle</i>	<i>Other vehicles</i>	<i>“Warning”</i>	<i>Real time</i>	
	0.2 Time			<i>GPS</i>			<i>DG vehicle</i>	<i>TMC</i>	<i>“Critical info”</i>	<i>Real time</i>
							<i>DG vehicle</i>	<i>Infrastructure</i>	<i>“Passport”</i>	<i>Real time</i>
							<i>DG vehicle</i>	<i>Police</i>	<i>“Enforcement”</i>	<i>Real time</i>
							<i>DG vehicle</i>	<i>Business chain</i>	<i>“Logistics”</i>	<i>Real time</i>
							<i>DG vehicle</i>	<i>Emergency agencies</i>	<i>“Emergency”</i>	<i>Real time</i>
							<i>DG vehicle</i>	<i>Other vehicles</i>	<i>“Warning”</i>	<i>Real time</i>
1. Cargo	1.1 0004¹	1.1.1 State	Liquid/Gas/Solid			DG vehicle	TMC	“Critical info”	Real time; as soon as accident/incident is detected	
						DG vehicle	Infrastructure	“Passport”	24 hours before the time of	

¹ All UN numbers are listed in this column. For some attributes and metrics are valid for each.

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Information need	Information element	Conditions/attribute	Value metrics	Value (blank)	Value threshold	From whom	To whom	Profile	Timing
									arrival
						DG vehicle	Police	“Enforcement”	Real time; upon accident/incident occurrence
						DG vehicle	Business chain	“Logistics”	Real time; upon event (route change, accident/incident/upon request)
						DG vehicle	Emergency agencies	“Emergency”	Real time; upon accident/incident occurrence
		1.1.2 Quantity	Kg/cm ³		ADR threshold ²	DG vehicle	TMC	“Critical info”	Real time; as soon as accident/incident is detected
						DG vehicle	Infrastructure	“Passport”	24 hours before the time of arrival
						DG vehicle	Police	“Enforcement”	Real time; upon accident/incident

² All thresholds for each substance with a specific UN number are reported in ADR.

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Information need	Information element	Conditions/attribute	Value metrics	Value (blank)	Value threshold	From whom	To whom	Profile	Timing
									occurrence
						DG vehicle	Business chain	“Logistics”	Real time; upon event (route change, accident/incident/upon request)
						DG vehicle	Emergency agencies	“Emergency”	Real time; upon accident/incident occurrence
	...	1.1.1 State	Liquid/Gas/Solid						
		1.1.2 Quantity	Kg/cm ³		ADR threshold		AS ABOVE		
	1. 2868 3468	1.1.1 State	Liquid/Gas/Solid						
		1.1.2 Quantity	Kg/cm ³		ADR threshold				