OTIF

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ZWISCHENSTAATLICHE ORGANISATION FÜR DEN INTERNATIONALEN EISENBAHNVERKEHR

INTERGOVERNMENTAL ORGANISATION FOR INTERNATIONAL CARRIAGE BY RAIL

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Joint Meeting of the RID Committee of Experts and the Working Party on the Transport of Dangerous Goods (Geneva, 13 - 17 September 2010)

Agenda item 6: Reports of informal working groups

Report of the sixth session of the informal working group on telematics (Hamburg, 21 - 23 April 2010)

Addendum: Final version of the "who does what" table

Transmitted by the secretariat of the Intergovernmental Organisation for International Carriage by Rail (OTIF)

1. At its 6th session (Hamburg, 21 to 23 April 2010), the working group on telematics adopted the final version of the "who does what" table. This table sets out important information for the carriage of dangerous goods that can be provided by means of telematics applications.

2. At this session, the working group decided to make the current version of the table available on the UNECE and OTIF websites as a protected PDF document (see report OTIF/RID/RC/2010/42 – ECE/TRANS/WP.15/AC.1/2010/42, paragraph 25).

3. This table, which replaces all earlier versions, is reproduced below. Annex I lists all the participants who have taken part in the previous sessions of the working group and have contributed to developing the table.

No.	INFORMATION	WHO IS IT FOR?															WHAT IS IT FOR?	WHEN IS IT NEEDED? [3]	HOW IS IT PROVIDED?	AVAILABILITY		USE OF TELEMATICS		
		Driver / Crew	Shipper/Consignor/ Sender[1]	Freight forwarder	Consignee	Loader	Carrier	Tank-wagon operator	Packer	Filler	Tank-container operator	Infrastructure manager[2]	Public: Competent authority	Public: Emergency responders	Public: Enforcement bodies	Public: Security bodies		All information in the transport document under A is necessary before and throughout the journey. This column only indicates particular circumstances where this information needs to be available.		Operational	In case of incident/accident	Technical feasibility	Better availability in case of incidents/accidents	Possible operational advantages for public authorities or enterprises
A.	**Entry in the transport document or documents attached to the transport document**																							
1	UN number 5.4.1.1.1 (a) [+ 5.2.1 + 5.3.2]	X	X	X	X	X	X	X	X	X	X	X		X	X	X	Identify DG	Initial incident, initial enforcement, initial security	Transport document [, package markings, plates]	Y	P R: Y	Y	Y	Y
2	Proper Shipping Name 5.4.1.1.1 (b) [, 5.2.1.5, 5.2.1.6, 5.2.1.7]	X	X	X	X	X	X	X	X	X	X	X		X	X	X	Identify DG	Later in incident, clean-up, later enforcement	Transport document [, package markings Class 1 & 7, sometimes Class 2]	Y	P	Y	Y	Y
3	Technical name (if req) 5.4.1.1.1 (b)		X	X	O	X	X		X	X				X	X	X	Further characterize generic or N.O.S. PSNs	Later as incident/enforcement develops	Transport document	Y	P	Y	Y	Y
4	Class (for Class 7) 5.4.1.1.1 (c) [+ 5.2 + 5.3.1]	X	X	X	X	X	X	X	X	X	X	X		X	X	X	Identify nature of hazard	Initial incident, initial enforcement, initial security	Transport document [, package labels, placards, [HINs]]	Y	P	Y	Y	Y
5	Code (for Class 1) 5.4.1.1.1 (c) [+ 5.2 + 5.3.1]	X	X	X	X	X	X	X	X	X	X	X		X	X	X	Identify nature of hazard	Initial incident, initial enforcement, initial security	Transport document [, package labels, placards]	Y	P	Y	Y	Y
6	Danger labels (class and subsidiary risks) 5.4.1.1.1 (c) [+ 5.2 + 5.3.1]	X	X	X	X	X	X	X	X	X	X	X		X	X	X	Identify additional hazard(s)	Initial incident, initial enforcement, initial security	Transport document [, package labels, placards]	Y	P	Y	Y	Y
7	Packing Group 5.4.1.1.1 (d)	X	X	X	X	X	X	X	X	X	X	X		X	X	X	Identify degree of danger	Initial incident, initial enforcement, initial security	Transport document	Y	P	Y	Y	Y
8	Number & type of packages 5.4.1.1.1 (e)	X	X	X	X	X	X					O		X	X	X	Indicate what DGs are contained	Later as incident/enforcement develops	Transport document	Y	P	Y	Y	Y
9	Total quantity of DG 5.4.1.1.1 (f)	X	X	X	X	X	X	X		X	X	X		X	X	X	Indicate quantity of individual DGs	Initial incident, initial enforcement, initial security	Transport document	Y	P R: Y 5)	Y	Y	Y
10	Consignor name & address 5.4.1.1.1 (g) [+ 5.2.1.7.1 (Cl. 7)]	X		X	X	O	X			O		O		X	X	X	To identify the person who initiated the transport	Later in incident, clean-up, later enforcement	Transport document [+ package markings]	Y	P	Y	Y	Y

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		Driver / Crew	Shipper/Consignor/ Sender[1]	Freight forwarder	Consignee	Loader	Carrier	Tank-wagon operator	Packer	Filler	Tank-container operator	Infrastructure manager[2]	Competent authority	Emergency responders	Enforcement bodies	Security bodies		All information in the transport document under A is necessary before and throughout the journey. This column only indicates particular circumstances where this information needs to be available.		Operational	In case of incident/accident	Technical feasibility	Better availability in case of incidents/accidents	Possible operational advantages for public authorities or enterprises
11	Consignee name & address 5.4.1.1.1 (h) [+ 5.2.1.7.1 (Cl. 7)]	X	X	X			X					O		X	X	X	To identify destination	Later enforcement	Transport document [+ package markings]	Y	P	Y	Y	Y
12	Declaration req'd by multilateral agreement 5.4.1.1.1 (i)	X	X	X	X	X	X	X	X	X	X		X	X	X		Various	Before and throughout journey	Transport document	Y	P	Y	Y	Y
13	HIN number 5.4.1.1.1 (j) (RID)		R: X				R: X	R: X		R: X	R: X			R: X			Identify nature of hazard and degree of danger	Initial incident	Transport document (for RID) [, (plates)]	Y	P	Y	Y	Y
14	Tunnel restriction code (road) 5.4.1.1.1 (k) (ADR)	A: X		A: X	A: X		A: X								A: X		To select a route in consideration of tunnel restrictions		Transport document (for ADR)	Y	P	Y	Y	Y
15	Wastes 5.4.1.1.3	X	X	X	X	X	X			X					X		To identify simplified classification of wastes and interface with waste regs	Later as incident/enforcement develops	Transport document	Y	P	Y	Y	Y
16	Salvage packaging 5.4.1.1.5 + 5.4.1.1.6	X	X	O	X	X	X							X	X		Indicates a special packaging situation	Later as incident/enforcement develops	Transport document [, package marking]	Y	P	Y	Y	Y
17	Empty uncleaned packagings 5.4.1.1.6	X	X	O	X	O	X							X	X	X	Identify risks from fumes/residues	Later as incident/enforcement develops	Transport document	Y	P	Y	Y	Y
18	Multimodal transport 5.4.1.1.7	O	X	X		X	X				X			X	X		Indicates sea or air requirements apply	Initial incident, initial enforcement, initial security	Transport document	Y	P	Y	Y	Y
19	IBC and tank carriage post inspection date 5.4.1.1.11		X	X	X	X	X	X			X				X		Indicates that journey must be to inspection/disposal facility	Initial enforcement	Transport document [, IBC and tank marking]	Y	P	Y	Y	Y
20	Multi-compartment tank 5.4.1.1.13 (ADR) [+ 5.3.1.2]		A: X		A: O		A: X	A: X		A: X	A: X			A: X	A: X		Indicates which DG in which compartment	Initial incident, later enforcement	Transport document [, plates]	Y	P	Y	Y	Y

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21	Elevated temperature 5.4.1.1.14 [+ 5.3.3]	X	X	X	X	X	X	X	X	X	X	X		X	X		Identify scalding/burning hazard		Transport document [, marking on vehicle]	Y	P	Y	Y	Y
22	Temp control/ stabilized 5.4.1.1.15 (ADR)	A: X	A: X	A: X	A: X	A: X	A: X	A: X	A: X	A: X	A: X	A: X		A: X	A: X		Need to maintain conditions		Transport document	Y	P	Y	Y	Y
23	SP 640x 5.4.1.1.16		X	X	X			X		X	X				X		Indicates substance classification tank code	Enforcement	Transport document	Y	P	Y	Y	Y
24	Bulk container approval or marking 5.4.1.1.17 [+ 6.11.3.4]	A: X	X	X		X	X			X					X		Indicates approved containment	Later enforcement	Transport document [, plate]	Y	P	Y	Y	Y
25	Net Quantity (Class 1) 5.4.1.2.1 (a)	X	X	X	X	X	X		X			X		X	X	X	Indicates quantity of explosives in article	Later as incident/enforcement develops	Transport document	Y	P	Y	Y	Y
26	Explosives label statement 5.4.1.2.1 (c)		X	X			X								X		Clarify for enforcement purposes	Later as incident/enforcement develops	Attached to transport document	Y	P	Y	Y	Y
27	Additional provisions Class 2 5.4.1.2.2		X	X		X	X	X	X	X	X				X		(a) Identify degree of danger; (b) RID, (c) and (d): Indicates specific conditions of transport	Later enforcement?	Transport document	Y	P	Y	Y	Y

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28	Classes 4.1 & 5.2 statement and condition of transport 5.4.1.2.3	X	X	X	X	X	X	X	X	X	X	X		X	X	X	Indicates possible explosive hazard and specific conditions of transport	Later as incident/enforcement develops	Transport document [and appoval]	Y	P	Y	Y	Y
29	Infectious substances phone no. (Cl. 6.2) 5.4.1.2.4	X	X	X	X	X	X	X	X	X	X	X		X	X	X	Identifies source of expert advice	Later as incident/enforcement develops	Transport document	Y	P	Y	Y	Y
30	RAM information 5.4.1.2.5 [+ 5.2 + 5.3.1 + 6.4]	X	X	X	X	X	X	X	X	X	X	X		X	X	X	Identify detailed RAM hazard	Mix of initial and later incident information; later enforcement; operational requirements (loading etc)	Transport document [, package labels and approval]	Y	P	Y	Y	Y
31	Non DGs 5.4.1.5	O	X	O			O	O				O		X	O		Indicates not subject to ADR/RID	Initial enforcement	Transport document	Y	P	Y	Y	Y
32	Container packing certificate 5.4.2	A: X R: O	X	X		X	X							X	X		Certifies loading/filling of container/vehicle in accordance with 5.4.2 IMDG Code	Later enforcement, following loading	Attached to transport document	Y	Not relevant	Y	Not relevant	Y
B.	**Miscellaneous**																							
33	Instructions in writing 5.4.3	X					X								X		Emergency information for the vehicle crew	Before the journey, initial incident/accident, operational requirements	Information sheet	Y	P	Y	N	?
34	Tank certificate 6.8.2.3.1		O	O			A: X	X		X	X		X	O	X		Suitability for the intended purpose	Operational requirements (e.g. filling)	Certificate	N	N	Y	Y	Y
35	Test report for packagings 6.1.5.8, 6.5.6.14, 6.6.5.4		X			O			X				X	O	X		Suitability for the intended purpose	Operational requirements (e.g. filling)	Certificate	N	N	Y	Y	Y
36	Labels and markings 5.2 + 3.4.3 - 3.4.5 + 3.4.3.7 + 3.4.8 + 3.5.4	X	X	X	X	X	X		X					X	X	X	Hazard communication (also relevant for the general public)	During loading, throughout journey, in case of incident/accident	Labels and markings	Y	P	Y	Y	Y

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37	Placards and markings 5.3.1 + 5.5.2 + 3.4.10 - 3.4.13	X			X	X	X			X		X		X	X	X	Hazard communication (also relevant for the general public)	During loading, throughout journey, in case of incident/accident	Placards and markings	Y	P	Y	Y	Y
38	Orange plate 5.3.2	X			X	X	X			X		X		X	X	X	Hazard communication (also relevant for the general public)	During loading, throughout journey, in case of incident/accident	Orange plate	Y	P	Y	Y	Y
39	Packaging design type approval markings 6.1 - 6.6		X	O	X	X				X			X	X	X		Indicates design type approval; indicates some properties of containment	During loading, throughout journey; some information may be helpful in case of incident	Packaging marking	Y	P	Y	Y	Y
40	Pressure receptacle markings 6.2		X	O	O	X				X			X	X	X		Indicates design type approval; indicates some properties of containment	During loading, throughout journey; some information may be helpful in case of incident	Pressure receptacle markings	Y	P	Y	Y	Y
41	Tank plate and marking 6.7 + 6.8 + 6.9	X	X	O	O		X	X		X	X		X	X	X		Indicates design type approval; indicates some properties of containment	During loading, throughout journey; some information may be helpful in case of incident	Tank plate and marking	Y	P	Y	Y	Y
42	Identity of carrier in general 1.10.1.2	O	X	X	O	X		O		X	O	O		O	O	X	Security purposes	Before offering the goods for carriage	Appropriate identity checks (professional competencies); legal compliance checks	Y	Not relevant	Y	Not relevant	Y
43	Driver identifier 1.10.1.4		O	O	O	A: X	X			A: X					X	X	Security purposes	Before handing over the goods to the driver for carriage and throughout journey	ID card or other documents accepted by the competent authority	Y	P	Y	Y	Y

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44	Driver/ADN-expert training certificate 7.5.1.2 and 8.2.1	A/AN: X	A/AN: X	A/AN: O		A/AN: X	A/AN: X			A/AN: X					A/AN: X	A/AN: X	Indicates qualification for carrying dangerous goods	Before and throughout journey	Certificate, on board	A/AN: Y	P	A/AN: Y	Not relevant	A/AN: Y
45	Certificate of approval for vehicles/inland waterway vessels 9.1.3.5 ADR / 8.1.8. ADN	A/AN: O	A/AN: X	A/AN: X		A/AN: X	A/AN: X			A/AN: X			A/AN: X	A/AN: O	A/AN: X		Indicates suitability for carrying dangerous goods	Before and throughout journey	Certificate, on board	A/AN: Y	P	A/AN: Y	A/AN: Y	A/AN: Y
46	Tunnel category (road) 1.9.5.3.1, 1.9.5.3.7 (ADR)	A: X	A: X	A: X			A: X					A: X	A: X	A: X	A: X		Indicates tunnel restrictions	Before and throughout journey	Road sign (for ADR) and Website UNECE	Y	Y	Y	Y	Y
47	DG wagon number and position in the train 1.4.2.2.5 + 1.4.3.6 (RID)	R: X					R: X					R: X		R: X	R: O	R: O	Indicates location of dangerous goods in a train	Before and throughout journey in case of incident/accident	Access to a data base or information	Y	Y	Y	Y	Y
C.	**New information[4]**																							
48	Alert-system for incident/accident - fire	S	O	O	O		O	O			O	S		S			Various	During loading, throughout journey, in case of incident/accident	Fire detector; automatic alert transmission system	A/R: N AN: E	N	Y	Y	Y
49	Alert-system for road traffic incident/accident (e.g. stability, shock) (ADR)	A: O [5]	O	O	O		O	O			O	A: S		A: S			Automatic emergency call	In case of an accident	Tilt/shock sensor; automatic alert transmission system	A: E	N	Y	Y	Y
50	Alert-system for rail incident/accident (derailment) (RID)	R: S	O	O	O		R: S	O			O	R: S		R: S			Automatic emergency call. Information for the driver	In case of an accident	Derailment detector; automatic alert transmission system	N	N	Y	Y	Y
51	Alert-system for incident/accident - axle-bearing temperature detection	S					S	S				S					Alert before an accident happens	Throughout journey	Temperature sensor; R: automatic alert transmission system	A: N R: N[6]	N	Y	Y	Y

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52	Alert-system for vehicle brake (temperature and other malfunction)	S					S	S				S					Alert before an accident happens	Throughout journey	Temperature sensor; brake monitoring sensor; R: automatic alert transmission system	R:N[6] A: E	N	Y	Y	R: Y A: N
53	Alert-system for load - pressure	S	O	O	S		S	S		S	S	S		S	S		Information / alert before an incident/accident happens	Before and throughout journey	Pressure sensor; automatic alert transmission system	E	N	Y	Y	Y
54	Alert-system for load - temperature control [2.2.41.1.17 + 2.2.52.1.16 + 7.2.4 (V8) + 8.5 (S4) (ADR)]	S	O	O	S	S	S			S		S		S	S		Information / alert before an incident/accident happens	Before and throughout journey	Temperature sensor; automatic alert transmission system	E	N	Y	Y	Y
55	Alert-system for load - gas leakage (load compartment)	S	O	O	S	S	S							S	S		Alert in case of an incident/accident	Before and throughout journey	Gas sensor; automatic alert transmission system	N	N	Y	Y	Y
56	Alert-system for load - gas leakage (tank and battery vehicles)	S	O	O	S		S			S		S		S	S		Alert in case of an incident/accident	Before and throughout journey	Gas sensor; automatic alert transmission system	N	N	Y	Y	Y
57	Alert-system for unauthorised opening of load compartment	S	S	S	S		S								S	S	Alert in case of an incident/accident	Before and throughout journey	Anti-theft device; automatic alert transmission system	E	N	Y	Y	Y
58	Alert-system for unauthorised use of vehicles (ADR/ADN)	A/AN: S	A/AN: S	A/AN: S	A/AN: S		A/AN: S								A/AN: S	A/AN: S	Alert in case of an incident/accident	Before and throughout journey	Anti-theft device; automatic alert transmission system	E	N	Y	Y	Y
59	Alert-system for routing for DG [1.9.1 - 1.9.4]	S	O	S			S					S			S	S	e.g. Use of defined routes (e.g. motorways), no environmentally sensitive areas	Before and throughout journey	Navigation system for the driver; automatic alert transmission system	E	N	Y	Y	Y

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60	Alert-system for position control (geofencing)	S	S	S			S					S			S	S	Position monitoring by a control unit	Throughout journey	GSM / GPS; automatic alert transmission system	E	N	Y	Y	Y
61	Tunnel restrictions: selection of an optimal route 1.9.5 + 8.6 (ADR)	A: S	A: S	A: S			A: S							A: S	A: S		Selection of an optimal route in consideration of the tunnel restrictions	Before and throughout journey	Navigation system for the driver	A: Y	A: Y	A: Y	A: N	A: Y
62	Transport unit / containment system identifier	S	S	S	S	S	S	S	S	S	S	S		S	S	S	Identify DG and their status	During loading, throughout journey, in case of incident/accident	Smartboxes or Monitorung Units with different kinds of sensors	E	N	Y	Y	Y
63	Relevant traffic / weather conditions	S		S			S					S		S	S		Routing / e.g.: Parking when icy	Throughout journey	Radio, TV, Internet, navigation systems	E	Y	Y	Y	Y
64	Automatic calculation of the total maximum quantity per transport unit 1.1.3.6 (ADR/ADN)	A/A N: X	A/AN: X	A/A N: X		A/A N: X	A/A N: X					A/AN: X		A/A N: X	A/A N: X		Automatic calculation of the total maximum quantity per transport unit	During loading, throughout journey	e.g. RFID reader	N	N	Y	N	Y
65	Amount of dangerous goods in limited qantities 3.4.9	X	X	X		X	X							X	X		Establishing the need for an LQ mark	Before and throughout journey	Various traceable means	Y	N	Y	Y	Y
66	Amount of dangerous goods in excepted qantities 3.5.6	X	X	X		X	X							X	X		Establishing the need for an EQ limit	Before and throughout journey	Various traceable means	Y	N	Y	Y	Y
67	Special provisions 3.3 et al.	X	X	X		X	X	X	X	X	X		X	X	X		Various	Various	Various	Place-holder	Place-holder	Place-holder	Place-holder	Place-holder
68	Required information regarding national derogations	X	X	X	X	X	X	X	X	X	X	X	X	X	X		Various	Various	Various	Place-holder	Place-holder	Place-holder	Place-holder	Place-holder

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69	Positioning information (coordinates, speed, direction, ….)	S	O	O	O	O	S	O		O	O	S		S	S	S	Knowing the position	In relation to alerts. Throughout journey.	Location reference based on OBU providing GNSS information (use of EGNOS correction and integrity) (It has to refer to the container or the transport unit and not to the package inside the container or the transport unit)	E	N	Y	Y	Y
70	Tunnel safety and access control information	S	O	O	O		O					S		S	O		Monitoring of vehicles approaching and traversing the tunnel	Before entering and throughout the tunnel	Link between vehicle and infrastructure management systems	N	N	Y	Y	Y

No.	INFORMATION	WHO IS IT FOR?													WHAT IS IT FOR?	WHEN IS IT NEEDED? [3]	HOW IS IT PROVIDED?	AVAILABILITY		USE OF TELEMATICS		
		Driver / Crew	Shipper/Consignor/ Sender[1]	Freight forwarder	Consignee	Loader	Carrier	Tank-wagon operator	Packer	Filler	Tank-container operator	Infrastructure manager[2]	Public									
													Competent authority	Emergency responders	Enforcement bodies	Security bodies		All information in the transport document under A is necessary before and throughout the journey. This column only indicates particular circumstances where this information needs to be available.		Operational	In case of incident/accident	Technical feasibility	Better availability in case of incidents/accidents	Possible operational advantages for public authorities or enterprises

[1] The person who initiates the process.

[2] Infrastructure manager means public or private body with influence over the use of road, rail or inland waterways

[3] Interpretation of "When is it needed" column:

a. Initial incident – the immediate availability of information to those responders to an incident who are first on the scene.
b. Initial enforcement – the immediate availability of information to allow visual determination of compliance with regulations.
c. Initial security – the availability of information to determine compliance with security provisions at the roadside/trackside.
d. Later in incident – the availability of additional, more detailed information that may inform the response to an incident once the initial actions have been taken.
e. Later enforcement – the availability of additional more detailed information to assess full compliance with the regulations.
f. Later security – availability of information to determine full compliance with security provisions.

[4] Availibility under Part C: New Information, means the availability of this information today

[5] To manage false alerts.

[6] Some railway networks are equipped with stationary local systems.

X = Required under existing DG Regulations or directly necessary to comply with the regulations

O = May be known or needed for other reasons or may be indirectly necessary to comply with the regulations

S = Safety or security-linked information for this participant

Y = Yes

P = Possible restricted availability in case of incident/accident or during operation

N = No

E = Existing on the market for means of transport

R = RID only

A = ADR only

AN = ADN only

[] = supplementary requirement / means of provisions

Annex I

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