

Dangerous Goods Transport Data Model DATEX II 3.0 Version 01-02-00

Changelog



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Document History

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00-01-00	29/11/2021	First version	Christian Lüpkes, AlbrechtConsult

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1. Changes within D2Packages

1.1 D2Package DGTransport

Object	Change
D2Relation between D2Class DGTransport and D2Class DGTDocument	Aggregation deleted. Implementation difficult, because it can be used by TP2, but not be read by authorities' application.

1.2 D2Package DGTransportUnit

Object	Change
D2Class Vehicle	Note added with regard to D2Attribute vehicleRegistrationPlateIdentifier: attribute to be set as mandatory via DATEX II Tool when exported as xsd profile
D2Class DGRailWagonInformation, D2Attribute actualETA	Changed to optional [0..1]*
D2Class DGRailWagonInformation, D2Attribute commitmentETA	Changed to optional [0..1]*
D2Class DGRailWagonInformation, D2Attribute limitedQuantityDG	Changed to optional [0..1]*
D2Class DGRailWagonInformation, D2Attribute operationalTrainNumber	Changed to optional [0..1]*
D2Class DGRailWagonInformation, D2Attribute wagonTrainPosition	Changed to optional [0..1]*
D2Relation between D2Class RoadVehicle and D2Class VehicleExtension	To be able to set vehicleRegistrationPlateIdentifier as mandatory via DATEX II Tool when exported as xsd profile, it was necessary to connect D2Class RoadVehicle directly with D2Class Vehicle

* mandatory in TAF-TSI but for the Webservice HandleVehicle (see eDGTI WSDL specification) only DGRailWagonInformation:wagonNumber and DGRailWagonInformation:wagonType are mandatory. The latter one only when it is not already included in the wagon number.

1.3 D2Package DGDynamicInformation

Object	Change
D2Relation speedGivenByGnss between D2Class PointByCoordinates and D2Class SpeedValue	D2Relation speedGivenByGnss would be an extension to the original DATEX II Model. Therefore, the relation now has been connected between D2Class PointCoordinatesExtended and D2Class SpeedValue

1.4 D2Package DGAccompanyingInformation

Object	Change
D2Relation between D2Class InstructionsInWriting and D2Class DGAccompanyingInformation	Multiplicity at source D2Class InstructionsInWriting changed to 0..1
D2Class CertificateOfApproval, D2Attribute certificateOfApproval	DataType changed from Any to Url
D2Class TestReportForPackaging, D2Attribute testReportForPackaging	DataType changed from Any to Url
D2Class TankCertificate, D2Attribute tankCertificate	DataType changed from Any to Url
D2Class MeansOfIdentification, D2Attribute driverIdentifier	DataType changed from Any to Url
D2Class ExpertTrainingCertificate, D2Attribute expertTrainingCertificate	DataType changed from Any to Url
D2Class ExplosivesLabelStatement, D2Attribute explosivesLabelStatement	DataType changed from Any to Url
D2Class ApprovalClasses41And52, D2Attribute approvalAW2d2d52d1d8	DataType changed from Any to Url, attribute name changed to approvalAW2x2x52x1x8
D2Class ContainerPackingCertificate, D2Attribute containerPackingCertificate	DataType changed from Any to Url

1.5 D2Package DGTransportDocument

Object	Change
D2Class DGConsignmentDescriptionStatic, D2Attribute environmentallyHazardousSubstance	Attribute now optional
D2Class DGSpecialProvision	Now assigned as abstract class
D2Relation between D2Class DGSpecialProvision and D2Class DGConsignmentDescriptionStatic	Multiplicity at source D2Class DGSpecialProvision changed to 0..* since SP640 could be combined with SP664
D2Class CarriageIAW2x1x3x5x5	New class
D2Class SP623	New class
D2Class NationalSP	New class
D2Class SP290	New class
D2Class SP367	New class
D2Class SP390	New class
D2Class SP581	New class
D2Class SP582	New class
D2Class SP583	New class
D2Class SP642	New class
D2Class SP650	New class

D2Class ContainmentSystemContent	New class with regard to SP392
D2Relation between D2Class SP392 and D2Class ContainmentSystemContent	New relation with regard to SP392
D2Relation between D2Class QuantitiesPerShipment and D2Class SP392	Aggregation deleted, because Quantities are now covered by D2class ContainmentSystemContent
D2Class DGConsignmentDescriptionOtherRegulations, D2Attribute ICAO	DataType changed from Any to Url, attribute name changed to iCAO
D2Class DGConsignmentDescriptionOtherRegulations, D2Attribute IMDGCode	DataType changed from Any to Url
D2Class SP356, D2Attribute metalHydrideStorageSystemApprovalDocument	DataType changed from Any to Url

1.6 D2Package DGEmptyUncleanedContainments

Object	Change
-	

1.7 D2Package DGDescriptionDetails

Object	Change
-	

1.8 D2Package Datatypes

Object	Change
D2Datatype BargeldentType	Facet to be defined!
D2Datatype ContainerIdentType	Facet to be defined!
D2Datatype VolumeLitres	New data type with regard to SP392
D2Datatype BICCodesType	Facet adapted to ILU Code
D2Datatype Any	Deleted, since replaced for all attributes using Any by D2Datatype Url

1.9 D2Package Enumerations

Object	Change
D2Enumeration LoadEventEnum	Definition not related to WDW table
D2Enumeration VehicleEventEnum	Definition not related to WDW table
D2Enumeration DangerLabelEnum	D2Literal dl15 deleted

D2Enumeration GasTypeEnum	New enumeration with regard to SP392
D2Enumeration PressureUnitEnum	New enumeration with regard to SP392
D2Enumeration SpecialProvision581Enum	New enumeration with regard to SP581
D2Enumeration SpecialProvision582Enum	New enumeration with regard to SP582
D2Enumeration SpecialProvision583Enum	New enumeration with regard to SP583

2. Changes in future to be agreed

2.1 Links between D2Class DangerousGoodsDocuments::Carrier and ConnectingCarrier

If an alignment with Eu-Custom Code like the eFTI proposal is required, then 2 other links with a name respectively „masterLevel“, and „houseLevel“ should be introduced.

2.2 W3C Signature

Currently, the W3C signature is being integrated into the DATEX II dangerous goods namespace. For this purpose, the xmldsig-core-schema.xsd is integrated in the data model (source: <https://www.w3.org/TR/xmldsig-core2>). In the future, the signature will be integrated via the W3C namespace.

Annex 1 List of regulation updates, XX/XX/2022

No.	Amendment applicable from	Documents	Amendment As taken from documents for ADR (EXE/TRANS/WP.15...), re-checked with RID notification document and published AND version	Remarks (G. Schwan) Red= needs to be checked Green= no influence on data model Purple = Remark C. Lüpkes
1.				
2.				
3.				

Annex 2 Information required during transport in other documents than in 5.4.1, XX/XX/2022

No.	Para	Text	Remarks (G. Schwan)
			Red= needs to be checked Green= no influence on data model Purple = Comment Christian Lüpkes
1.			
2.			
3.			