

APPENDIX 16  
TO THE GENERAL CONTRACT OF USE FOR WAGONS

TECHNICAL WAGON DATA

Appendix 16 describes in more detail the information-related requirements laid out in article 7.4.

In accordance with pages 5-8, the keeper must provide the administrative and technical vehicle data for all wagons registered in the GCU database as soon as possible prior to the use of a wagon. The RU has access to this data at all times and may use it for its own operational purposes only.

The GCU Bureau provides a communication platform (GCU Broker) to the signatories for transmission of technical vehicle data.

Additional information - for example, a brief description of any instructions destined for technical inspectors and operational staff - must be made available bilaterally. Information is always required if vehicle-related technical matters are not provided for in Appendix 9 to the GCU.

**Description of elements of technical wagon data**

Element	Type	Definition
WagonNumber-Freight	Mandatory	Identifies uniquely the freight wagon by its number
PreviousWagon-Number-Freight	Optional	For identification of a wagon after renumbering
Registration-Country	Mandatory	ISO country code of registration country
DatePutIntoService	Mandatory	Date of first operation
AuthorisationValid Until	Conditional	End date for restricted authorisation (applicable only in special cases)
SuspensionOf-Authorisation	Conditional	Information if authorisation has been suspended by the authority
DateSuspensionOf Authorisation	Conditional	Date of the suspension of authorisation; must be provided in case of suspension
Multilateral-Authorisation-Countries	Conditional	List of countries/railway letter codes where a wagon with a limited interoperable authorisation is allowed to be operated (derogation plate); first entry is the authorising country/railway and following entries are the accepting countries/railways
ChannelTunnel-Permitted	Optional	Indication if wagon is allowed to pass the Channel Tunnel - if the transport is planned between UK and France and should use Eurotunnel infrastructure
QuieterRoutes-Exemption-Country	Conditional	ISO code of country where the wagon has an exemption in accordance with TSI Noise to run on quieter routes although it is not TSI Noise compliant.
KeeperShortName VKM	Mandatory	Vehicle Keeper Marking of the wagon keeper as listed in VKM register ( <a href="http://www.era.europa.eu/Document-Register/Pages/list-VKM.aspx">http://www.era.europa.eu/Document-Register/Pages/list-VKM.aspx</a> , column B - without special characters)
ECM	Mandatory	Full name of the assigned Entity in Charge of Maintenance
PlannedChangeOf ECM	Conditional	Date until the current Entity in Charge of Maintenance is assigned to the wagon and full name of the following Entity in Charge of Maintenance
ECMCertificate	Mandatory	ECM certificate information
InteropCapability	Mandatory	Identification of the general interoperability capability of the wagon.
GCUWagon	Mandatory	Indication if wagon is operated under the GCU contract
LetterMarking	Mandatory	Complete wagon category letter code. The Identification marking for freight rolling stock (wagon type) is defined in the Uniform Technical Prescription applicable to Vehicle Numbers and linked alphabetical marking on the bodywork: The Railway Vehicle Marking (UTP Marking), issued by the OTIF.
TankCode	Conditional	Tank code (applies only for tank wagons). The codes are defined in the RID regulation, chapter 4.3.3 and 4.3.4.1.1
WagonNumberOf-Axles	Mandatory	Number of Axles for a wagon
WheelSetType	Optional	Type name of the wheel sets, and the name of the type depends on the manufacturer.
WheelDiameter	Optional	Diameter of wheels measured in mm. Reference wheel diameter at maximum.

Element	Type	Definition
WheelsetGauge	Mandatory	Track Gauge measured in mm; multi-entry for wagons with changeable wheel set gauge
WheelSet-Transformation-Method	Conditional	Description of the wheel set transformation method for wagons with a changeable wheel set gauge.
NumberOfBogies	Conditional	Number of bogies.
BogiePitch	Conditional	Bogie Wheelbase measured in mm.
BogiePivotPitch	Conditional	Largest distance between two adjacent bogie pitches in mm.
InnerWheelbase	Mandatory	Maximum distance between two adjacent axles in mm
CouplingType	Optional	Classification of coupling.
BufferType	Optional	Classification of buffer. The following values are mostly used in the sector: A, AX, B, C, CX, L0 (130), L0 (150), L2 (130), L2 (150), L4 (130), L4 (150)
NormalLoading-Gauge	Conditional	Indicates the wagon loading gauge. When the wagon loading gauge is marked on the wagon the information must be provided in the RSRD message. Codes are defined in UIC leaflet 505-1/503 and EN 15273-2:2013 Code list.
MinCurveRadius	Mandatory	Minimum allowed curve radius of the wagon. Measured in Metres.
MinVerticalRadius YardHump	Mandatory	Minimum allowed vertical radius over yard humps. Measured in Meters.
WagonWeight-Empty	Mandatory	The weight of an empty wagon according to the entry in the rolling stock database. Measured in kg.
LengthOverBuffers	Mandatory	Length over buffers is expressed in cm.
MaxAxleWeight	Mandatory	Indicates the maximum design axle weight (to).
LoadTable	Mandatory	Indicates the load tables marked on the wagon. When load tables are marked on the wagon the information must be provided in the RSRD message. Several load tables (international, product specific for LPG wagons and additional/country specific) can be specified by providing the element several times consecutively. For special wagons with specific load tables (e.g. heavy haul wagons) no load table need to be provided. The complete load table must be provided including the empty load row (if existent).
NumberOfBrakes	Mandatory	Number of air brake control valves.
BrakeSystem	Optional	Abbreviation of air brake system. Following values are examples: Kk; Dr; Bo; Hik; Bd; Ch; O; KE; WE; DK; WU; WA; DM; MH, SW; KE 435; through brake pipe
AirBrakeType	Mandatory	Classification of air brake.
BrakingPower-VariationDevice	Mandatory	Type of braking power variation device.
AirBrakedMass	Mandatory	Different uses depending on air brake variation device: No variation device = sole braked mass of wagon Brake device with changeover weights = braked mass empty Brake with auto continuous device = maximum braked mass
ChangeOver-Weight	Conditional	Change over weight of braked weight in tonnes variation device.
AirBrakedMass-Loaded	Conditional	Braked weight in tonnes loaded for change over weight.
BrakeSpecial-Characteristics	Mandatory	General brake characteristics. Code list refers to UIC leaflet 920-13.
HandBrakeType	Mandatory	Classification of hand brake.

Element	Type	Definition
HandBraked-Weight	Conditional	Braked weight of the hand brake in tons.
ParkingBrakeForce	Conditional	Braked weight of the hand brake in kN.
BrakeBlockName	Optional	Name of the brake block type, including the length in mm.
CompositeBrake-BlockRetrofitted	Conditional	Indication if composite brake blocks are retrofitted or originally equipped.
CompositeBrake-BlockInstallation-Date	Conditional	Date of composite brake block installation, for originally equipped wagon = date put into service.
MaxLengthOfLoad	Optional	Loading length in mm for flat wagons and covered wagons with a flat floor, minus the thickness of any intermediate partitions (useful length).
LoadArea	Optional	Surface area in m <sup>2</sup> of the floor of covered wagons and wagons with an opening roof and flat floor.
HeightOfLoading-PlaneUnladen	Optional	Height of the loading plane when wagon is empty measured in mm.
RemovableAccessories	Optional	The type and number of removable accessories are to be indicated.
LoadingCapacity	Mandatory	Usable Cube - measured in M3.
MaxGrossWeight	Mandatory	Weight of max Gross Load Weight plus the tare weight of the equipment.
VapourReturn-System	Optional	Indication if tank wagon is equipped with a vapour return system.
FerryPermittedFlag	Optional	Indication whether the wagon may be used on ferries between Great Britain and Continental Europe.
FerryRampAngle	Conditional	Maximum allowed angle of the ferry ramp (in grades: °).
Temperature-Range	Optional	Allowed environmental temperature range.
Technical-Forwarding-Restrictions	Conditional	This element is designed to identify any special aspects or restrictions which might be relevant to wagon handling operations in train formation yards or in trains because of technical feature of the wagon or its load. All codes of transport restrictions for Freight Traffic (cf. UIC 920-13) and Passengers Traffic are in the same list which is contained in the code list RestrictionCodes. In this element only those codes are used, that have "T - Technical" characteristics and "F - Freight" as type.
DateLastOverhaul	Mandatory	Date of the last overhaul. For wagons newly placed on the market, date put into service shall be used.
OverhaulValidity-Period	Conditional	Validity period of last overhaul in years as marked on the wagon. At least "OverhaulValidityPeriod" or "PlannedDateNextOverhaul" shall be provided.
Permitted-Tolerance	Mandatory	Permitted tolerance after date of overhaul (in months). In case no tolerance is allowed, value shall be "0".
PlannedDate-NextOverhaul	Conditional	Date of planned next overhaul. It must be within the validity period of the last overhaul. The element serves as indication of the actually planned date of next overhaul by the wagon keeper/ECM. At least "OverhaulValidityPeriod" or "PlannedDateNextOverhaul" shall be provided.
DateOfNextTank-Inspection	Conditional	Date of the next tank inspection applies only for tank wagons.

**Remarks**

Values and codes list for the different data elements are part of the XSD schema and referenced in the GCU Broker website. The XSD schema and sample files are available to download from the GCU Broker website.