

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 (http://www.era.europa.eu/Document-Register/Pages/list-VKM.aspx , 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 ² 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.