



**АНАЛИЗ ПАРАМЕТРОВ, ЯВЛЯЮЩИХСЯ ОПРЕДЕЛЯЮЩИМИ ДЛЯ СОХРАНЕНИЯ ТЕХНИЧЕСКОЙ И  
ЭКСПЛУАТАЦИОННОЙ СОВМЕСТИМОСТИ ЖЕЛЕЗНОДОРОЖНОЙ СИСТЕМЫ КОЛЕИ 1520 ММ И 1435 ММ  
НА ГРАНИЦЕ СНГ-ЕС.**

**ПОДСИСТЕМА: ТЕЛЕМАТИЧЕСКИЕ ПРИЛОЖЕНИЯ ДЛЯ ГРУЗОВЫХ ПЕРЕВОЗОК**

**ПРИЛОЖЕНИЕ - ДЕТАЛИ СОПОСТАВЛЕНИЯ ПРАКТИЧЕСКИХ ПРИМЕРОВ СООБЩЕНИЙ**

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**ANALYSIS OF THE BASIC PARAMETERS FOR MAINTAINING THE TECHNICAL AND OPERATIONAL COMPATIBILITY  
OF THE 1520 MM AND 1435 MM GAUGE RAIL SYSTEMS AT THE COMMONWEALTH OF INDEPENDENT STATES  
(CIS)-EUROPEAN UNION (EU) BORDER**

**SUBSYSTEM: TELEMATIC APPLICATIONS FOR FREIGHT**

**ANNEX - DETAILS OF THE MAPPING OF PRACTICAL MESSAGES EXAMPLES**

| <i>Ревизии и внесенные изменения / Document History</i> |                        |                |  |               |
|---|------------------------|----------------|--|---------------|
| <i>Версия /<br/>Version</i>                             | <i>Дата /<br/>Date</i> | <i>Chapter</i> | <i>Примечания / Comments</i>   | <i>Author</i> |
| v. 01   | 22/03/2021             |                | Для приложения создан отдельный файл - информация перенесена из анализа v11 и дополнена / Separate file created for the annex – information transferred from the analysis v11 and complemented | MV, NS        |
| v. 02   | 23/03/2021             |                | Готовность поезда - новая глава н° 7/ Train Ready - new chapter 7  | MV            |
| v. 03<br>(FINAL)  | 14/05/2021             |                | Уточнения в главах 2, 3 и 6 от Украины (зеленым цветом) / Clarifications in chapters 2, 3 and 6 from Ukraine (in green)  | MV, NS        |

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## Введение / Introduction

В рамках совместной работы Контактной группы ОСЖД-ЕЖДА по теме “Анализ основных параметров, являющихся определяющими для поддержания технической и эксплуатационной совместимости железнодорожных систем колеи 1520 мм и 1435 мм на границе Содружества Независимых Государств (СНГ) и Европейского Союза (ЕС). Подсистема: телематические приложения для грузовых перевозок”, специалисты ЕЖДА провели сопоставление практических примеров электронных сообщений при грузовых перевозках между членами ОСЖД, любезно предоставленных участниками Контактной группы ОСЖД-ЕЖДА, с аналогичными сообщениями ТАФ ТСИ при грузовых перевозках по территории ЕС.

Для большинства функций обмена сообщениями, предусмотренных в ТАФ ТСИ, была проведена трансформация сообщений ОСЖД в сообщения ТАФ. При этом использовалось описание данных в Каталоге данных ТАФ XSD<sup>1</sup> и инструкциях по составлению и обмену сообщениями в странах ОСЖД (см. информацию ниже по каждому виду сообщения).

Целью данного Приложения является демонстрация возможности сопоставления сообщений путем публикации детальной информации о результатах сопоставления. Эта информация предназначена для непосредственного использования любым заинтересованным железнодорожным предприятием или управляющим инфраструктурой или оператором интермодальных перевозок для автоматического преобразования сообщений. Другими словами, это решающий вклад для беспрепятственного обмена данными о железнодорожных грузоперевозках с ограниченными инвестициями в существующие системы (формат ЕС ТАФ ТСИ XML по отношению к формату ОСЖД EDIFACT / TXT и системе сообщений ЦСЖТ).

Примечания:

- Данный документ не предназначен для использования в качестве „живого“ (часто обновляемого) документа. Отзывы пользователей могут быть переданы ЕЖДА и / или ОСЖД. В случае значительного развития подсистемы ТАФ, Контактная группа ОСЖД-ЕЖДА может предпринять (частичное) обновление анализа, включая сопоставление сообщений.
- Текст **желтым** цветом выделяет некоторые вопросы, требующие внимания при отображении сообщений (отсутствие некоторых входных данных или неопределенность в отношении входных данных, которые следует использовать). Дополнительную информацию по нерешенным вопросам нужно будет собрать когда сообщения в данном Приложении должны будут введены в разработанный процесс автоматизации передачи информации между железными дорогами ОСЖД / СНГ и ЕС.

Для некоторых основных функций, предусмотренных в ТАФ ТСИ, была также проведена обратная трансформация сообщений ТАФ в сообщения ОСЖД. Сообщения ОСЖД содержат более широкий спектр информационных полей (таможенные вопросы, централизованные расчеты или административные вопросы в рамках ОСЖД / СНГ и т. д.) по сравнению с сообщениями ТАФ. Следовательно, обратное преобразование сообщений требует более сложного процесса трансформации и не включено в это Приложение.

<sup>1</sup> <https://www.era.europa.eu/content/technical-documents-baseline-230>

Дополнительная информация о целях данной работы и выводы по результатам сопоставления сообщений приводятся в окончательной версии вышеупомянутого Анализа.

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Within the framework of the joint work of the ERA-OSJD Contact Group on the topic “ Analysis of the Basic Parameters for maintaining the technical and operational compatibility of the 1520 mm and 1435 mm gauge rail systems at the Commonwealth of Independent States (CIS)-European Union (EU) border - Subsystem: Telematics Applications for Freight. Subsystem: Telematic Applications for Freight”, ERA experts compared practical examples of electronic messages for freight traffic between OSJD members, kindly provided by the ERA-OSJD Contact Group members, with similar messages from TAF TSI for freight traffic across the EU.

For most of the message exchange functions provided for in the TAF TSI, the OSJD messages were transformed into TAF messages. In this work, the description of the data in the TAF data catalogue XSD<sup>2</sup> and instructions for the compilation and exchange of messages in the OSJD countries were used (see information below for each type of message).

The purpose of this Annex is to demonstrate the possibility of message mapping by publishing detailed information about the mapping results. This information is intended for a direct use by any interested Railway Undertaking or Infrastructure Manager or intermodal transport operator for automatic message conversion. In other words this is a decisive input to seamless exchange of rail freight data with limited investments into existing systems (EU TAF TSI XML format vs OSJD EDIFACT / TXT format & CSJT message system).

Notes:

- This document is not intended to be a living (frequently updated) document. User feedback may be shared with ERA and / or OSJD. In case of major evolution of the TAF subsystem, the ERA-OSJD Contact Group may undertake a (partial) update of the analysis, including the mappings of messages.
- Text in **yellow** highlights some questions requiring attention during message mapping (lack of some data inputs or uncertainty on the inputs to be used). Additional information on unresolved issues will need to be collected when the messages in this Annex are to be introduced into the developed process of automating the transfer of information between the OSJD / CIS and EU railways.

For some of the main functions provided for in the TAF TSI, the backward transformation of TAF messages into OSJD messages was also carried out. OSJD messages contain a wider range of information fields (customs-related, OSJD/CIS central accounting or administration, etc.) compared with TAF messages. Therefore the backwards mappings of messages require more complex transformation process and are not included in this Annex.

Additional information on the objectives of this work and conclusions from the message mapping results is provided in the final version of the above Analysis.

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<sup>2</sup> <https://www.era.europa.eu/content/technical-documents-baseline-230>

## 1. Трансформация из набора данных IFTMIN EDI ОСЖД о накладной в сообщение ТАФ ТСИ XML о заказе на перевозку / Mapping from the OSJD IFTMIN EDI dataset on the Consignment Note to the TAF TSI XML “ConsignmentOrderMessage”

Ссылки / References :

|   |   |
|---|---|
| Внутренняя ссылка ЕЖДА файла сопоставления / Internal ERA reference of the mapping file | <b>IFTMIN2TAFCOM.mfd</b>  |
| Дата окончательного сопоставления / Date of the final mapping                           | 13/09/2019  |
| Описания данных   | Памятка ОСЖД О+Р 943 “Библиотека стандартных электронных сообщений для грузовых перевозок в международном сообщении на условиях СМГС в стандарте UN/EDIFACT”<br><br>Документ “Спецификации электронных сообщений IFTMIN (накладная СМГС и досылочная ведомость (дополнительный экземпляр), накладная ЦИМ/СМГС и досылочная дорожная ведомость/сопроводительный документ) и IFTMCS (о корректировке электронного транспортного досье)” |
| Data descriptions   | OSJD Leaflet O+P 943 “Standard electronic message library for international freight transport on SMGS conditions in the UN / EDIFACT standard”<br><br>Document “IFTMIN electronic message specifications (SMGS consignment note and reconsignment invoice sheet (additional copy), CIM / SMGS consignment note and reconsignment invoice/ accompanying document) and IFTMCS (on updating the electronic transport file)”              |

Output [taf\\_cat\\_complete\\_baseline\\_2.1.xmd](#) ([taf\\_cat\\_complete\\_baseline\\_2.1.xmd.xsd](#))

| Connections  |               | Nodes   |
|--|---------------|---|
|  |               | File: taf_cat_complete_baseline_2.1.xmd.xml<br>Type: string   |
| <a href="#">Envelope/Interchange</a><br>Type: Interchange [1..∞] | <i>direct</i> | ns1:ConsignmentOrderMessage<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Consignment Order Message from Lead RU to RU |
|  |               | ns1:ConsignmentOrderMessage/ns1:MessageHeader<br>Type: restriction of xs:anyType<br>Annotation: Used for all messages             |
|  |               | ns1:ConsignmentOrderMessage/ns1:MessageHeader/ns1:MessageReference<br>Type: restriction of xs:anyType                             |

|   |   |  |
|---|---|--|
| <p><a href="#">core.constant("9999")</a></p>  | <p><i>direct</i><br/>Annotation:<br/>New code for COM must be created in CCM !</p>  | <p>Annotation: This element identifies the message<br/>.../ns1:MessageHeader/ns1:MessageReference/ns1:MessageType<br/>Type: restriction of xs:integer<br/>Annotation: To indicate the message type transmitted or referred to. The following list was agreed within the sector:<br/>2001 PathCanceledMessage<br/>2002 PathConfirmedMessage<br/>2003 PathDetailsMessage<br/>2004 PathDetailsRefusedMessage<br/>2005 PathNotAvailableMessage<br/>2006 PathRequestMessage<br/>2007 ReceiptConfirmationMessage<br/>3001 TrainAcceptedMessage<br/>3002 TrainAtStartMessage<br/>3003 TrainCompositionMessage<br/>3004 TrainNotSuitableMessage<br/>3005 TrainPositionMessage<br/>3006 TrainReadyMessage<br/>4001 TrainDelayCauseMessage<br/>4002 TrainDelayPerformanceMessage<br/>4003 TrainForecastAtReportingLocationMessage<br/>4004 TrainRunningForecastMessage<br/>4005 TrainRunningInformationMessage<br/>4006 TrainRunningInterruptionMessage<br/>5001 AlertMessage<br/>5002 WagonArrivalNoticeMessage<br/>5003 WagonDeliveryNoticeMessage<br/>5004 WagonDepartureNoticeMessage<br/>5005 WagonDeviationMessage<br/>5006 WagonETI_ETA_Message<br/>5007 WagonExceptionMessage<br/>5008 WagonExceptionReasonMessage<br/>5009 WagonInterchangeNoticeMessage<br/>5010 WagonInterchangeSubNoticeMessage<br/>5011 WagonOrderMessage<br/>5012 WagonReceivedAtInterchangeMessage<br/>5013 WagonRefusedAtInterchangeMessage<br/>5014 WagonReleaseNoticeMessage<br/>5015 WagonYardArrivalMessage<br/>5016 WagonYardDepartureMessage<br/>6001 IRN_DatasetMessage<br/>6002 LocationFileDatasetMessage<br/>6003 RollingStockDatasetMessage</p> |
| <p><a href="#">.../UNH/S009/F0065</a><br/>Type: F0065<br/>Annotation: Message type</p>                              | <p><i>direct</i></p>  | <p>.../ns1:MessageHeader/ns1:MessageReference/ns1:MessageTypeVersion<br/>Type: restriction of xs:string<br/>Annotation: Version of the Message Type</p>  |
| <p><a href="#">.../Message_IFTMIN/UNH/F0062</a><br/>Type: F0062<br/>Annotation: MESSAGE REFERENCE NUMBER</p>        | <p><i>direct</i></p>  | <p>.../ns1:MessageHeader/ns1:MessageReference/ns1:MessageIdentifier<br/>Type: ns1:FreeText<br/>Annotation: Identification of the Message</p>   |
| <p><a href="#">.../DTM/C507/F2380</a><br/>Type: F2380 [0..1]<br/>Annotation: Date or time or period text</p>        | <p><a href="#">edifact.to-datetime =&gt; F2380   result =&gt;</a></p>   | <p>.../ns1:MessageHeader/ns1:MessageReference/ns1:MessageDateTime<br/>Type: xs:dateTime<br/>Annotation: Generated by the common Interface</p>  |
| <p><a href="#">.../DTM/C507/F2379</a><br/>Type: F2379 [0..1]<br/>Annotation: Date or time or period format code</p> | <p><a href="#">edifact.to-datetime =&gt; F2379   result =&gt;</a></p>   |  |
|   | <p>ns1:ConsignmentOrderMessage/ns1:MessageHeader/ns1:MessageRoutingID<br/>Type: ns1:Numeric2-2 [0..1]<br/>Annotation: Additional information used to route the message to the correct receiving application (if needed)</p> |  |
|   | <p>ns1:ConsignmentOrderMessage/ns1:MessageHeader/ns1:SenderReference<br/>Type: ns1:FreeText [0..1]<br/>Annotation: reference used by the sender (e.g. FTP file name)</p>  |  |
|   | <p>ns1:ConsignmentOrderMessage/ns1:MessageHeader/ns1:Sender<br/>Type: extension of ns1:CompanyCode<br/>Annotation: The sender of the message</p>  |  |



|  |   |   |
|--|---|---|
|  |   | .../ns1:MessageHeader/ns1:Sender/@ns1:CI_InstanceNumber<br>Type: ns1:Numeric2-2 [0..1]<br>Annotation: Number of a Common Interface Instance for the same Company  |
| <a href="#">.../UNB/S003/F0010</a><br>Type: F0010<br>Annotation: Interchange recipient identification      | <a href="#">core.value-map =&gt; input   result =&gt;</a>   | ns1:ConsignmentOrderMessage/ns1:MessageHeader/ns1:Recipient<br>Type: extension of ns1:CompanyCode<br>Annotation: Receiver of the message  |
|  |   | .../ns1:MessageHeader/ns1:Recipient/@ns1:CI_InstanceNumber<br>Type: ns1:Numeric2-2 [0..1]<br>Annotation: Number of a Common Interface Instance for the same Company   |
|  |   | ns1:ConsignmentOrderMessage/ns1:COMS<br>Type: restriction of xs:anyType [1..50]<br>Annotation: Message  |
|  |   | ns1:ConsignmentOrderMessage/ns1:COMS/ns1:COM_Header<br>Type: restriction of xs:anyType<br>Annotation: Additional Header containing consignment related key data such as dossiernumber, version number and a change log for modifications  |
|  |   | .../ns1:COMS/ns1:COM_Header/ns1:SendingRU<br>Type: ns1:CompanyCode<br>Annotation: Use here the 4 digit code according to UIC leaflet 920-1 of the railway, which created/amended the message (like 2185).   |
| <a href="#">.../UNB/S003/F0010</a><br>Type: F0010<br>Annotation: Interchange recipient identification      | Annotation:<br>Maybe not same as message recipient !<br><a href="#">core.value-map =&gt; input   result =&gt;</a><br>Annotation:<br>Maybe not same as message recipient ! | .../ns1:COMS/ns1:COM_Header/ns1:ReceivingRU<br>Type: ns1:CompanyCode<br>Annotation: Use here the 4 digit code according to UIC leaflet 920-1 of the railway, which is the receipt of the message (like 2185).   |
| <a href="#">.../Message_IFTMIN/UNH/F0062</a><br>Type: F0062<br>Annotation: MESSAGE REFERENCE NUMBER        | <i>direct</i><br>Annotation:<br>Maybe not same as MessageIdentifier ! Maybe F0054.  | .../ns1:COMS/ns1:COM_Header/ns1:MessageReferenceNumber<br>Type: restriction of xs:string [0..1]<br>Annotation: Message Reference Number This identification is being generated during creation of the message. This allows the tracing of the message.  |
| <a href="#">.../UNH/S009/F0057</a><br>Type: F0057 [0..1]<br>Annotation: Association assigned code          | <i>direct</i><br>Annotation:<br>New code for OSJD (SMGS) must be created in CCM !   | .../ns1:COMS/ns1:COM_Header/ns1:ShipmentType<br>Type: restriction of xs:token [0..1]<br>Annotation: Classification of the wagon order as 'CUV' or 'CIM'.  |
| <a href="#">.../Message_IFTMIN/BGM/F1225</a><br>Type: F1225 [0..1]<br>Annotation: MESSAGE FUNCTION CODE    | <i>direct</i>   | .../ns1:COMS/ns1:COM_Header/ns1:ConsignmentOrderType<br>Type:<br>Annotation: Preliminary list of messages, by now restricted on different types of consignment orders. CIM: none.<br>ORU: original consignment order message from origin location<br>ORX: update for consignment order from origin location<br>ORD: deletion for consignment order from origin location<br>TRU : original transit consignment order<br>TRX: update for transit consignment order<br>TRD: deletion of transit consignment order<br>DRU : original consignment order to destination location<br>DRX: update for consignment order to destination location<br>DRD: deletion of consignment order to destination location |
| <a href="#">.../DTM/C507/F2380</a><br>Type: F2380 [0..1]<br>Annotation: Date or time or period text        | <a href="#">edifact.to-datetime =&gt; F2380   result =&gt;</a>  | .../ns1:COMS/ns1:COM_Header/ns1:COM_PreparationDatetime<br>Type: restriction of xs:dateTime<br>Annotation: Date and Time of preparation of the COM  |
| <a href="#">.../DTM/C507/F2379</a><br>Type: F2379 [0..1]<br>Annotation: Date or time or period format code | <a href="#">edifact.to-datetime =&gt; F2379   result =&gt;</a>  |   |
| <a href="#">.../DOC/C002/F1000</a><br>Type: F1000 [0..1]   | <i>direct</i>   | .../ns1:COMS/ns1:COM_Header/ns1:DossierNumber<br>Type: restriction of xs:string [0..1]  |

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| Annotation: Document name   |               | Annotation: Internal identification number of the Wo. This information is important to be able to identify the COM even after modifications. Format: RRRYYYYMMDDNNNNNNN Where RRRR = railway code, YYYY = year, MM = month, DD = day and NNNNNNN = running number. |
| <a href="#">.../DOC/C503/F1056</a><br>Type: F1056 [0..1]<br>Annotation: Version identifier  | <i>direct</i> | .../ns1:COMS/ns1:COM_Header/ns1:VersionNumber<br>Type: restriction of xs:int<br>Annotation: Message version number. This number has to be incremented after each modification. On creation this value has to be set to 0.  |
|   |               | .../ns1:COMS/ns1:COM_Header/ns1:ChangeLog<br>Type: restriction of xs:anyType [0..100]<br>Annotation: Log of changes made by the LeadRU / contractual carrier during the transport.   |
|   |               | .../ns1:COM_Header/ns1:ChangeLog/ns1:DateTime<br>Type: restriction of xs:dateTime<br>Annotation: DateTime, when the changes were applied.  |
|   |               | .../ns1:COM_Header/ns1:ChangeLog/ns1:NumberOfModifiedVersion<br>Type: restriction of xs:int<br>Annotation: Version number of the modified message (as also written into COMHeader/COMVersionNumber).   |
|   |               | ns1:ConsignmentOrderMessage/ns1:COMS/ns1:COM<br>Type: restriction of xs:anyType<br>Annotation: Consignment order message   |
|   |               | .../ns1:COMS/ns1:COM/ns1:AcceptancePoint<br>Type: restriction of xs:anyType<br>Annotation: Description of location and time for the take over of the consignment   |
| <a href="#">.../SG8/SG10/LOC</a><br>Type: LOC<br>Annotation: PLACE/LOCATION IDENTIFICATION  | <i>direct</i> | .../ns1:COM/ns1:AcceptancePoint/ns1:Station<br>Type: extension of ns1:LocationIdent<br>Annotation: Details of station serving the point  |
| <a href="#">core.constant("EE")</a>   | <i>direct</i> | .../ns1:AcceptancePoint/ns1:Station/ns1:CountryCodeISO<br>Type: extension of ns1:CountryIdentISO<br>Annotation: Identifies a County or State by code (ISO 3166-1)  |
| <a href="#">.../LOC/C517/F3225</a><br>Type: F3225 [0..1]<br>Annotation: Location identifier | <i>direct</i> | .../ns1:AcceptancePoint/ns1:Station/ns1:LocationPrimaryCode<br>Type: ns1:Numeric1-5  |
| <a href="#">.../LOC/C517/F3224</a><br>Type: F3224 [0..1]<br>Annotation: Location name       | <i>direct</i> | .../ns1:AcceptancePoint/ns1:Station/ns1:PrimaryLocationName<br>Type: ns1:FreeText [0..1]<br>Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet  |
|   |               | .../ns1:AcceptancePoint/ns1:Station/ns1:LocationSubsidiaryIdentification<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Code, Name and allocation company of Subsidiary Location   |
|   |               | .../ns1:COM/ns1:AcceptancePoint/ns1:ProductionStation<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Details of production station serving the point, this element is used if the productional station differs from the commercial station               |
|   |               | .../ns1:AcceptancePoint/ns1:ProductionStation/ns1:Location<br>Type: ns1:LocationIdent<br>Annotation: Identifies a Location using a LocationIdent   |
|   |               | .../ns1:ProductionStation/ns1:Location/ns1:CountryCodeISO<br>Type: extension of ns1:CountryIdentISO<br>Annotation: Identifies a County or State by code (ISO 3166-1)   |
|   |               | .../ns1:ProductionStation/ns1:Location/ns1:LocationPrimaryCode<br>Type: ns1:Numeric1-5   |
|   |               | .../ns1:ProductionStation/ns1:Location/ns1:PrimaryLocationName<br>Type: ns1:FreeText [0..1]<br>Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet   |
|   |               | .../ns1:ProductionStation/ns1:Location/ns1:LocationSubsidiaryIdentification<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Code, Name and allocation company of Subsidiary Location  |
|   |               | .../ns1:AcceptancePoint/ns1:ProductionStation/ns1:RP_Code<br>Type: restriction of xs:string [0..1]<br>Annotation: Routing point code of the production station of the acceptance or delivery point.  |

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|  |               | <p>.../ns1:COM/ns1:AcceptancePoint/ns1:PreviousResponsibleRU<br/>                 Type: ns1:CompanyCode [0..1]<br/>                 Annotation: This element identifies the RU, who was responsible for the train operation on the journey section before an interchange point</p>  |
|  |               | <p>.../ns1:COM/ns1:AcceptancePoint/ns1:AcceptanceDate<br/>                 Type: restriction of xs:dateTime [0..1]<br/>                 Annotation: Date and time (month, day and hour) at which the goods were accepted.</p>   |
| <p><a href="#">.../NAD/C082/F3039</a><br/>                 Type: F3039<br/>                 Annotation: Party identifier</p>           | <p>direct</p> | <p>.../ns1:COM/ns1:AcceptancePoint/ns1:ResponsibleRU<br/>                 Type: ns1:CompanyCode<br/>                 Annotation: RU Responsible for the physical operation of the train or wagon</p>  |
| <p><a href="#">.../FTX/C108/F4440</a><br/>                 Type: F4440 [1..5]<br/>                 Annotation: FREE TEXT</p>           | <p>direct</p> | <p>.../ns1:COM/ns1:AcceptancePoint/ns1:COM_ConsignmentNumber<br/>                 Type: restriction of xs:string<br/>                 Annotation: Running number and check digit of the consignment between Lead RU and Responsible RU. Format: NNNNNC The number consists of NNNNN = running number C = check digit,</p> |
|  |               | <p>.../ns1:COM/ns1:AcceptancePoint/ns1:ForwardingTrainNumber<br/>                 Type: restriction of xs:string [0..1]<br/>                 Annotation: Train number at shipping</p>   |
|  |               | <p>.../ns1:COM/ns1:AcceptancePoint/ns1&gt;LoadingFacility<br/>                 Type: restriction of xs:anyType [0..1]<br/>                 Annotation: Identifies the loading facility (in case of message type = ORU)</p>  |
|  |               | <p>.../ns1:AcceptancePoint/ns1&gt;LoadingFacility/ns1:CustomerNumber<br/>                 Type: restriction of xs:string [0..1]<br/>                 Annotation: The customer number of the COM differs from the customer code used in TAF/TSI, its format may not accord to the TAF element</p>                          |
|  |               | <p>.../ns1:AcceptancePoint/ns1&gt;LoadingFacility/ns1:AdministrativeContactInformation<br/>                 Type: restriction of xs:anyType<br/>                 Annotation: Used to define administrative contact information</p>  |
|  |               | <p>.../ns1:COMS/ns1:COM/ns1:DeliveryPoint<br/>                 Type: restriction of xs:anyType<br/>                 Annotation: Description of location and time for the hand over of the consignment</p>   |
| <p><a href="#">.../SG8/SG10/LOC</a><br/>                 Type: LOC<br/>                 Annotation: PLACE/LOCATION IDENTIFICATION</p>  | <p>direct</p> | <p>.../ns1:COM/ns1:DeliveryPoint/ns1:Station<br/>                 Type: extension of ns1:LocationIdent<br/>                 Annotation: Details of station serving the point</p>  |
| <p><a href="#">core.constant("LV")</a></p>   | <p>direct</p> | <p>.../ns1:DeliveryPoint/ns1:Station/ns1:CountryCodeISO<br/>                 Type: extension of ns1:CountryIdentISO<br/>                 Annotation: Identifies a County or State by code (ISO 3166-1)</p>  |
| <p><a href="#">.../LOC/C517/F3225</a><br/>                 Type: F3225 [0..1]<br/>                 Annotation: Location identifier</p> | <p>direct</p> | <p>.../ns1:DeliveryPoint/ns1:Station/ns1:LocationPrimaryCode<br/>                 Type: ns1:Numeric1-5</p>  |
| <p><a href="#">.../LOC/C517/F3224</a><br/>                 Type: F3224 [0..1]<br/>                 Annotation: Location name</p>       | <p>direct</p> | <p>.../ns1:DeliveryPoint/ns1:Station/ns1:PrimaryLocationName<br/>                 Type: ns1:FreeText [0..1]<br/>                 Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet</p>  |
|  |               | <p>.../ns1:DeliveryPoint/ns1:Station/ns1:LocationSubsidiaryIdentification<br/>                 Type: restriction of xs:anyType [0..1]<br/>                 Annotation: Code, Name and allocation company of Subsidiary Location</p>   |
|  |               | <p>.../ns1:COM/ns1:DeliveryPoint/ns1:ProductionStation<br/>                 Type: restriction of xs:anyType [0..1]<br/>                 Annotation: Details of production station serving the point, this element is used if the productional station differs from the commercial station</p>                             |
| <p><a href="#">.../NAD/C082/F3039</a><br/>                 Type: F3039<br/>                 Annotation: Party identifier</p>           | <p>direct</p> | <p>.../ns1:COM/ns1:DeliveryPoint/ns1:NextResponsibleRU<br/>                 Type: ns1:CompanyCode [0..1]<br/>                 Annotation: The RU who is responsible for the train operation on the next journey section.</p>  |
|  |               | <p>.../ns1:COM/ns1:DeliveryPoint/ns1&gt;LoadingFacility<br/>                 Type: restriction of xs:anyType [0..1]<br/>                 Annotation: Identifies the loading facility (in case of message type = ORU)</p>  |
|  |               | <p>.../ns1:COMS/ns1:COM/ns1:Customers<br/>                 Type: restriction of xs:anyType [1..2]<br/>                 Annotation: Information about the consignor and consignee</p>  |
| <p><a href="#">core.constant("CR")</a></p>   | <p>direct</p> | <p>.../ns1:COM/ns1:Customers/ns1:CustomerType</p>   |

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|   |   | Type: restriction of xs:string<br>Annotation: Type of participation CR: Consignor CE: Consignee In the consignment order, the Lead RU acts as both types   |
| <a href="#">.../NAD/C082/F3039</a><br>Type: F3039<br>Annotation: Party identifier     | <i>direct</i>   | .../ns1:COM/ns1:Customers/ns1:CustomerNumber<br>Type: restriction of xs:string [0..1]<br>Annotation: The customer number of the COM differs from the customer code used in TAF/TSI, its format may not accord to the TAF element                 |
|   |   | .../ns1:COM/ns1:Customers/ns1:AdministrativeContactInformation<br>Type: restriction of xs:anyType<br>Annotation: Used to define administrative contact information   |
| <a href="#">.../NAD/C080/F3036</a><br>Type: F3036 [1..5]<br>Annotation: Party name    | <i>direct</i>   | .../ns1:Customers/ns1:AdministrativeContactInformation/ns1:Name<br>Type: ns1:FreeText<br>Annotation: Generic Name in Free Text   |
| <a href="#">.../SG12/NAD/F3164</a><br>Type: F3164 [0..1]<br>Annotation: CITY NAME     | <i>direct</i>   | .../ns1:Customers/ns1:AdministrativeContactInformation/ns1:Address<br>Type: ns1:FreeText [0..1]<br>Annotation: Generic postal address in clear text  |
|   |   | .../ns1:Customers/ns1:AdministrativeContactInformation/ns1:eMail<br>Type: ns1:CommunicationRefID [0..1]<br>Annotation: Generic eMail address in Free text  |
|   |   | .../ns1:Customers/ns1:AdministrativeContactInformation/ns1:PhoneNumber<br>Type: ns1:CommunicationRefID [0..1]<br>Annotation: Generic Phone number in Free text   |
|   |   | .../ns1:Customers/ns1:AdministrativeContactInformation/ns1:FaxNumber<br>Type: ns1:CommunicationRefID [0..1]<br>Annotation: Generic Fax number in Free text   |
|   |   | .../ns1:Customers/ns1:AdministrativeContactInformation/ns1:FreeTextField<br>Type: ns1:FreeText [0..1]<br>Annotation: Free Text   |
| <a href="#">core.constant(2126)</a>   | <i>direct</i><br>Annotation:<br>Must be checked how it fits to OSJD / SMGS !        | .../ns1:COM/ns1:Customers/ns1:LeadRU<br>Type: ns1:CompanyCode<br>Annotation: Lead Railway Undertaking  |
|   |   | .../ns1:COMS/ns1:COM/ns1:ConsignorDeclarations<br>Type: restriction of xs:anyType [0..10]<br>Annotation: Consignors declarations, this element contains either declarations of the original consignor or declarations of the LeadRU as consignor |
|   |   | .../ns1:COMS/ns1:COM/ns1:GeneralInformation<br>Type: restriction of xs:anyType [0..1]<br>Annotation: General information about the complete consignment  |
|   |   | .../ns1:COMS/ns1:COM/ns1:AttachedDocuments<br>Type: restriction of xs:anyType [0..10]<br>Annotation: Paper documents accompanying the transport  |
|   |   | .../ns1:COMS/ns1:COM/ns1:CommercialSpecifications<br>Type: restriction of xs:anyType [0..5]<br>Annotation: Commercial Specification  |
| <a href="#">.../DOC/C002/F1000</a><br>Type: F1000 [0..1]<br>Annotation: Document name | <i>direct</i><br>Annotation:<br>Should be normally in the RFF in GR 15. Not found ! | .../ns1:COMS/ns1:COM/ns1:ContractNumber<br>Type:<br>Annotation: Number of agreement between LeadRU and Responsible RU  |
|   |   | .../ns1:COMS/ns1:COM/ns1:Routing<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Sequential information about the complete routing of the consignment, the LeadRU decides whether to provide this information or not                    |
|   |   | .../ns1:COMS/ns1:COM/ns1:SpecialTreatments<br>Type: restriction of xs:anyType [0..30]<br>Annotation: Special treatment   |
|   |   | .../ns1:COMS/ns1:COM/ns1:CustomsProcedures<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Customs procedures   |
|   |   | .../ns1:COMS/ns1:COM/ns1:CustomsData<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Customs Data   |
|   |   | .../ns1:COMS/ns1:COM/ns1:RU_Declarations<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Carriers declaration   |

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| <p><a href="#">.../Message_IFTMIN/SG39/EQD</a><br/>                 Type: EQD<br/>                 Annotation: EQUIPMENT DETAILS</p>  | <p><i>direct</i></p>  | <p>.../ns1:COMS/ns1:COM/ns1:Wagons<br/>                 Type: restriction of xs:anyType [1..99]<br/>                 Annotation: Content of the wagon</p>   |   |                      |  |
| <p><a href="#">.../EQD/C237/F8260</a><br/>                 Type: F8260 [0..1]<br/>                 Annotation: Equipment identifier</p>   | <p><i>direct</i><br/> <i>see chapter 11</i></p>   | <p>.../ns1:COM/ns1:Wagons/ns1:WagonNumberFreight<br/>                 Type: ns1:WagonIdent<br/>                 Annotation: Identifies uniquely the freight wagon by its number</p>   |   |                      |  |
| <td> <p>.../ns1:COM/ns1:Wagons/ns1:WagonDetails<br/>                 Type: restriction of xs:anyType<br/>                 Annotation: Details for the specific wagon</p> </td>   | <p>.../ns1:COM/ns1:Wagons/ns1:WagonDetails<br/>                 Type: restriction of xs:anyType<br/>                 Annotation: Details for the specific wagon</p>   |   |   |                      |  |
| <p><a href="#">.../SG39/EQD/F8169</a><br/>                 Type: F8169 [0..1]<br/>                 Annotation: FULL OR EMPTY INDICATOR CODE</p>   | <p><a href="#">core.value-map =&gt; input   result =&gt;</a></p>  | <p>.../ns1:Wagons/ns1:WagonDetails/ns1:LoadingStatus<br/>                 Type: restriction of xs:integer<br/>                 Annotation: Loading status of the equipment. 0=Empty, 1=Loaded</p>   |   |                      |  |
| <td> <p>.../ns1:Wagons/ns1:WagonDetails/ns1:WagonInfo<br/>                 Type: restriction of xs:string [0..1]<br/>                 Annotation: Additional information, concerning the goods of the whole wagon.</p> </td>   | <p>.../ns1:Wagons/ns1:WagonDetails/ns1:WagonInfo<br/>                 Type: restriction of xs:string [0..1]<br/>                 Annotation: Additional information, concerning the goods of the whole wagon.</p>                                       |   |   |                      |  |
| <td> <p>.../ns1:Wagons/ns1:WagonDetails/ns1:WagonTypeDetails<br/>                 Type: restriction of xs:anyType [0..1]<br/>                 Annotation: These elements are only needed, if the wagon has to be treated as CUV (empty wagon).</p> </td>             | <p>.../ns1:Wagons/ns1:WagonDetails/ns1:WagonTypeDetails<br/>                 Type: restriction of xs:anyType [0..1]<br/>                 Annotation: These elements are only needed, if the wagon has to be treated as CUV (empty wagon).</p>           |   |   |                      |  |
| <p><a href="#">.../MEA/C174/F6314</a><br/>                 Type: F6314 [0..1]<br/>                 Annotation: Measure</p>  | <p><i>direct</i></p>  | <p>.../ns1:Wagons/ns1:WagonDetails/ns1:TotalWeight<br/>                 Type: ns1:WeightValueKilo [0..1]<br/>                 Annotation: Total weight of the loaded wagon [kg].</p>  |   |                      |  |
| <td> <p>.../ns1:Wagons/ns1:WagonDetails/ns1:LoadLimit<br/>                 Type: restriction of xs:decimal [0..1]<br/>                 Annotation: Load limit from table of load limits in [t].</p> </td>   | <p>.../ns1:Wagons/ns1:WagonDetails/ns1:LoadLimit<br/>                 Type: restriction of xs:decimal [0..1]<br/>                 Annotation: Load limit from table of load limits in [t].</p>  |   |   |                      |  |
| <p><a href="#">.../Message_IFTMIN/SG39/SEL</a><br/>                 Type: SEL [0..99]<br/>                 Annotation: SEAL NUMBER</p>  | <p><i>direct</i></p>  | <p>.../ns1:Wagons/ns1:WagonDetails/ns1:Seals<br/>                 Type: restriction of xs:anyType [0..1]<br/>                 Annotation: Describes the seals used for the consignment</p>  |   |                      |  |
| <p><a href="#">.../Message_IFTMIN/SG39/SEL</a><br/>                 Type: SEL [0..99]<br/>                 Annotation: SEAL NUMBER</p>  | <p><a href="#">core.count =&gt; parent-context   result =&gt;</a></p>   | <p>.../ns1:WagonDetails/ns1:Seals/ns1:NumberOfSeals<br/>                 Type: restriction of xs:int<br/>                 Annotation: Number of the seals attached by the original consignor.</p>   |   |                      |  |
| <p><a href="#">.../SG39/SEL/F9308</a><br/>                 Type: F9308 [0..1]<br/>                 Annotation: TRANSPORT UNIT SEAL IDENTIFIER</p>   | <p><a href="#">core.count =&gt; nodes/rows   result =&gt;</a></p>   | <td> <p><a href="#">.../SG39/SEL/F4525</a><br/>                 Type: F4525 [0..1]<br/>                 Annotation: SEAL TYPE CODE</p> </td> <td> <p><i>direct</i></p> </td> <td> <p>.../ns1:WagonDetails/ns1:Seals/ns1:SealsDescription<br/>                 Type: restriction of xs:string [0..10]<br/>                 Annotation: Additional information of the original consignor regarding the attached seals.</p> </td> | <p><a href="#">.../SG39/SEL/F4525</a><br/>                 Type: F4525 [0..1]<br/>                 Annotation: SEAL TYPE CODE</p> | <p><i>direct</i></p> | <p>.../ns1:WagonDetails/ns1:Seals/ns1:SealsDescription<br/>                 Type: restriction of xs:string [0..10]<br/>                 Annotation: Additional information of the original consignor regarding the attached seals.</p> |
| <td> <p>.../ns1:Wagons/ns1:WagonDetails/ns1:Ship<br/>                 Type: restriction of xs:anyType [0..1]<br/>                 Annotation: Additional information for transports, which shall be handed over to a ship</p> </td>                                | <p>.../ns1:Wagons/ns1:WagonDetails/ns1:Ship<br/>                 Type: restriction of xs:anyType [0..1]<br/>                 Annotation: Additional information for transports, which shall be handed over to a ship</p>                                |   |   |                      |  |
| <td> <p>.../ns1:Wagons/ns1:WagonDetails/ns1:DeliveryReference<br/>                 Type: restriction of xs:string [0..1]</p> </td>   | <p>.../ns1:Wagons/ns1:WagonDetails/ns1:DeliveryReference<br/>                 Type: restriction of xs:string [0..1]</p>   |   |   |                      |  |
| <td> <p>.../ns1:Wagons/ns1:WagonDetails/ns1:OriginCountry<br/>                 Type: restriction of ns1:CountryIdentISO [0..1]<br/>                 Annotation: Code of origin country of the UTI.CODE: ISO-3166-2</p> </td>                                       | <p>.../ns1:Wagons/ns1:WagonDetails/ns1:OriginCountry<br/>                 Type: restriction of ns1:CountryIdentISO [0..1]<br/>                 Annotation: Code of origin country of the UTI.CODE: ISO-3166-2</p>                                       |   |   |                      |  |
| <td> <p>.../ns1:Wagons/ns1:WagonDetails/ns1:ExceptionalConsignment<br/>                 Type: restriction of xs:anyType [0..10]<br/>                 Annotation: Exceptional Consignment</p> </td>   | <p>.../ns1:Wagons/ns1:WagonDetails/ns1:ExceptionalConsignment<br/>                 Type: restriction of xs:anyType [0..10]<br/>                 Annotation: Exceptional Consignment</p>   |   |   |                      |  |
| <td> <p>.../ns1:Wagons/ns1:WagonDetails/ns1:ShuntingModalLabel<br/>                 Type: restriction of xs:token [0..1]<br/>                 Annotation: Shunting modal label according to chapter 5.3.4 RID</p> </td>  | <p>.../ns1:Wagons/ns1:WagonDetails/ns1:ShuntingModalLabel<br/>                 Type: restriction of xs:token [0..1]<br/>                 Annotation: Shunting modal label according to chapter 5.3.4 RID</p>  |   |   |                      |  |
| <td> <p>.../ns1:Wagons/ns1:WagonDetails/ns1:ReferenceNumbers<br/>                 Type: restriction of xs:anyType [0..1]<br/>                 Annotation: This element contains references according to NCTS or EMCS law.This element MUST NOT be empty!</p> </td> | <p>.../ns1:Wagons/ns1:WagonDetails/ns1:ReferenceNumbers<br/>                 Type: restriction of xs:anyType [0..1]<br/>                 Annotation: This element contains references according to NCTS or EMCS law.This element MUST NOT be empty!</p> |   |   |                      |  |
| <td> <p>.../ns1:COM/ns1:Wagons/ns1:SummaryOFGoodsWithSameRID<br/>                 Type: restriction of xs:anyType [0..25]<br/>                 Annotation: This element is only in use if the consignment includes more than one</p> </td>                         | <p>.../ns1:COM/ns1:Wagons/ns1:SummaryOFGoodsWithSameRID<br/>                 Type: restriction of xs:anyType [0..25]<br/>                 Annotation: This element is only in use if the consignment includes more than one</p>                         |   |   |                      |  |

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|  |                      | good with the same UN-Number in , packing group and proper shipping name in the wagon. The added amount of the dangerous goods are to be stored here  |
|  |                      | <p>.../ns1:COM/ns1:Wagons/ns1:LoadingTackles</p> <p>Type: restriction of xs:anyType [0..99]</p> <p>Annotation: Describes the loading tackles used inside the wagon</p>  |
|  |                      | <p>.../ns1:COM/ns1:Wagons/ns1:Goods</p> <p>Type: restriction of xs:anyType [0..99]</p> <p>Annotation: Describes the goods inside the means of transport</p>   |
|  |                      | <p>.../ns1:Wagons/ns1:Goods/ns1:NoGoodsOfClassX</p> <p>Type: restriction of xs:string [0..1]</p> <p>Annotation: Element has to be filled with the class of the dangerous goods which are mentioned in Table 3.2 RID but are not dangerous according to chapter 2 (5.4.1.5 RID)</p>  |
|  |                      | <p>.../ns1:Wagons/ns1:Goods/ns1:RID</p> <p>Type: restriction of xs:anyType [0..1]</p> <p>Annotation: The requirement (optional/mandatory) of the RID detail tags depend on the dangerous good and the regarding RID regulations. In contrast to the element "DangerousGoodsIndication" which only provides information to be provided to the IM according to chapter 1.4 RID, "RID" contains all information demanded in chapter 5.4 RID in order to provide all information used for RUs</p> |
|  |                      | <p>.../ns1:Wagons/ns1:Goods/ns1:Packing</p> <p>Type: restriction of xs:anyType [0..1]</p> <p>Annotation: Packing information</p>  |
|  |                      | <p>.../ns1:Goods/ns1:Packing/ns1:NatureOfPacking</p> <p>Type: restriction of xs:string [0..1]</p> <p>Annotation: Nature of packing according to the UN/ECE Recommendation No 21 CODE: UN/ECE-Recommendation No. 21</p>  |
|  |                      | <p>.../ns1:Goods/ns1:Packing/ns1:NumberOfPackages</p> <p>Type: restriction of xs:int [0..1]</p> <p>Annotation: Number of packages.</p>  |
|  |                      | <p>.../ns1:Goods/ns1:Packing/ns1:PackageIdentification</p> <p>Type: restriction of xs:string [0..99]</p> <p>Annotation: Particular marks and numbers to identify less than wagon load assignments.</p>  |
| <p><a href="#">.../PIA/C212/F7140</a></p> <p>Type: F7140 [0..1]</p> <p>Annotation: ITEM IDENTIFIER</p> | <p><i>direct</i></p> | <p>.../ns1:Wagons/ns1:Goods/ns1:NHM_Code</p> <p>Type: ns1:NHMCodeType [0..1]</p> <p>Annotation: NHM code of the good</p>  |
|  |                      | <p>.../ns1:Wagons/ns1:Goods/ns1:PreviousLoadedGood</p> <p>Type: ns1:NHMCodeType [0..1]</p>  |
| <p><a href="#">.../FTX/C108/F4440</a></p> <p>Type: F4440 [1..5]</p> <p>Annotation: FREE TEXT</p>       | <p><i>direct</i></p> | <p>.../ns1:Wagons/ns1:Goods/ns1:GoodsDescription</p> <p>Type: ns1:FreeText [0..1]</p> <p>Annotation: This element describes the goods of the shipment as free text</p>  |
|  |                      | <p>.../ns1:Wagons/ns1:Goods/ns1:AdditionalGoodInformation</p> <p>Type: restriction of xs:string [0..1]</p> <p>Annotation: Additional information regarding the loaded good, given by the customer.</p>  |
|  |                      | <p>.../ns1:Wagons/ns1:Goods/ns1:GrossWeight</p> <p>Type: ns1:WeightValueKilo</p> <p>Annotation: Total weight of the goods either in a wagon or a transportation unit. It is the booked weight of the goods including packing</p>  |
|  |                      | <p>.../ns1:Wagons/ns1:Goods/ns1:HS_Code</p> <p>Type: restriction of xs:string [0..1]</p> <p>Annotation: HS-Code for sensible goods (appendix 44c of ccip) 10 digits are needed, if a good code was already assigned for 'Zollanmeldung'. In this case this good code has to be taken. These good codes may have more than 6 digits.</p>   |
|  |                      | <p>.../ns1:Wagons/ns1:Goods/ns1:EWC_Key</p> <p>Type: restriction of xs:string [0..1]</p> <p>Annotation: Numeric key according to the European Waste Catalogue CODE: European waste catalogue (EWC) 2000/532/EC</p>  |
|  |                      | <p>.../ns1:COM/ns1:Wagons/ns1:ITU</p> <p>Type: restriction of xs:anyType [0..25]</p> <p>Annotation: Describes the type and content of an IntermodalTransportUnit</p>  |
|  |                      | <p>.../ns1:COM/ns1:Wagons/ns1:RollingRoadUnit</p> <p>Type: restriction of xs:anyType [0..5]</p> <p>Annotation: Describes the type and content of a Rolling road unit</p>  |
|  |                      | <p>.../ns1:COMS/ns1:COM/ns1:WagonPreviousNumberFreight</p> <p>Type: restriction of xs:string [0..20]</p> <p>Annotation: Identifies the previous freight wagon if a shipment or Intermodal unit</p>  |

|  |   |
|--|---|
|  | has changed the wagon during its journey  |
|  | .../ns1:COMS/ns1:COM/ns1:ReferenceOriginalCN<br>Type: restriction of xs:string [0..1]<br>Annotation: Reference to the original consignment note between lead RU/contractual carrier and consignor |
|  | .../ns1:COMS/ns1:COM/ns1:AgreedTimeOfDelivery<br>Type: xs:dateTime [0..1]<br>Annotation: The requested Date and Time for the delivery of a wagon/Shipment or Intermodal units at customer sidings |

### Remaining components

|   |   |
|---|---|
| <b>core.value-map</b> (IFTMIN -> taf_cat_complete_baseline_2.1.xmd) |   |
| input ( <a href="#">IFTMIN.F0010</a> )                              | result ( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:Recipient</a> ,<br><a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:ReceivingRU</a> ) |
| <b>From</b>   | <b>To</b>   |
| EVREDI  | 2126  |
| ISC_LDZ   | 2125  |

|  |   |
|--|---|
| <b>edifact.to-datetime</b> (IFTMIN -> taf_cat_complete_baseline_2.1.xmd)         |   |
| F2380 ( <a href="#">IFTMIN.F2380</a> )<br>F2379 ( <a href="#">IFTMIN.F2379</a> ) | result ( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:MessageDateTime</a> ,<br><a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:COM_PreparationDatetime</a> ) |

|   |   |
|---|---|
| <b>core.value-map</b> (IFTMIN -> taf_cat_complete_baseline_2.1.xmd) |   |
| input ( <a href="#">IFTMIN.F8169</a> )                              | result ( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1&gt;LoadingStatus</a> ) |
| <b>From</b>   | <b>To</b>   |
| 5   | 1   |
| <b>otherwise</b>  | 0   |

|  |  |
|--|--|
| <b>core.count</b> (IFTMIN -> taf_cat_complete_baseline_2.1.xmd)                              |  |
| parent-context ( <a href="#">IFTMIN.SEL</a> )<br>nodes/rows ( <a href="#">IFTMIN.F9308</a> ) | result ( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:NumberOfSeals</a> ) |

### Constants

|   |      |
|---|------|
| <b>core.constant</b> (-> taf_cat_complete_baseline_2.1.xmd) |      |
| Value   | 9999 |

|   |    |
|---|----|
| <b>core.constant</b> (-> taf_cat_complete_baseline_2.1.xmd) |    |
| Value   | EE |

|   |    |
|---|----|
| <b>core.constant</b> (-> taf_cat_complete_baseline_2.1.xmd) |    |
| Value   | CR |

|   |  |
|---|--|
| <b>core.constant</b> (-> taf_cat_complete_baseline_2.1.xmd) |  |
|---|--|

|       |    |
|-------|----|
| Value | LV |
|-------|----|

|  |      |
|--|------|
| <b>core.constant</b> ( -> taf_cat_complete_baseline_2.1.xmd) |      |
| Value  | 2126 |

**User-defined function defines**

**user.DEstination Station**

Input (required) **core.input noderow**

| Nodes                   | Connections  |  |
|-------------------------|--|--|
| noderow<br>Type: string | <a href="#">core.filter =&gt; node/row   on-true =&gt;</a> | <a href="#">core.output =&gt; ns1LocationPrimaryCode</a><br>Type: string |

Input (required) **core.input b2**

| Nodes              | Connections   |  |
|--------------------|---|--|
| b2<br>Type: string | <a href="#">core.equal =&gt; b   result =&gt;</a><br><a href="#">core.logical-and =&gt; value1   result =&gt;</a><br><a href="#">core.filter =&gt; bool   on-true =&gt;</a> | <a href="#">core.output =&gt; ns1LocationPrimaryCode</a><br>Type: string |

Input (required) **core.input b**

| Nodes             | Connections   |  |
|-------------------|---|--|
| b<br>Type: string | <a href="#">core.equal =&gt; b   result =&gt;</a><br><a href="#">core.logical-and =&gt; value2   result =&gt;</a><br><a href="#">core.filter =&gt; bool   on-true =&gt;</a> | <a href="#">core.output =&gt; ns1LocationPrimaryCode</a><br>Type: string |

Output **core.output ns1LocationPrimaryCode**

| Connections  |   | Nodes                                  |
|--|---|--|
| <a href="#">core.input   noderow =&gt;</a><br>Type: string | <a href="#">core.filter =&gt; node/row   on-true =&gt;</a>  | ns1LocationPrimaryCode<br>Type: string |
| <a href="#">core.constant("8")</a>                         | <a href="#">core.equal =&gt; a   result =&gt;</a><br><a href="#">core.logical-and =&gt; value1   result =&gt;</a><br><a href="#">core.filter =&gt; bool   on-true =&gt;</a> |  |
| <a href="#">core.input   b2 =&gt;</a><br>Type: string      | <a href="#">core.equal =&gt; b   result =&gt;</a><br><a href="#">core.logical-and =&gt; value1   result =&gt;</a><br><a href="#">core.filter =&gt; bool   on-true =&gt;</a> |  |
| <a href="#">core.constant("37")</a>                        | <a href="#">core.equal =&gt; a   result =&gt;</a><br><a href="#">core.logical-and =&gt; value2   result =&gt;</a><br><a href="#">core.filter =&gt; bool   on-true =&gt;</a> |  |
| <a href="#">core.input   b =&gt;</a><br>Type: string       | <a href="#">core.equal =&gt; b   result =&gt;</a><br><a href="#">core.logical-and =&gt; value2   result =&gt;</a><br><a href="#">core.filter =&gt; bool   on-true =&gt;</a> |  |



### Remaining components

|  |  |
|--|--|
| <b>core.equal</b> (core.constant, core.input -> core.logical-and)              |  |
| a ( <a href="#">core.constant."8"</a> )<br>b ( <a href="#">core.input.b2</a> ) | result ( <a href="#">core.logical-and.value1</a> ) |

|   |  |
|---|--|
| <b>core.filter</b> (core.input, core.logical-and -> core.output)                                    |  |
| node/row ( <a href="#">core.input.noderow</a> )<br>bool ( <a href="#">core.logical-and.result</a> ) | on-true ( <a href="#">core.output.ns1LocationPrimaryCode</a> ) |

|  |  |
|--|--|
| <b>core.equal</b> (core.constant, core.input -> core.logical-and)              |  |
| a ( <a href="#">core.constant."37"</a> )<br>b ( <a href="#">core.input.b</a> ) | result ( <a href="#">core.logical-and.value2</a> ) |

|  |   |
|--|---|
| <b>core.logical-and</b> (core.equal, core.equal -> core.filter)                              |   |
| value1 ( <a href="#">core.equal.result</a> )<br>value2 ( <a href="#">core.equal.result</a> ) | result ( <a href="#">core.filter.bool</a> ) |

### Constants

|                                      |   |
|--------------------------------------|---|
| <b>core.constant</b> (-> core.equal) |   |
| Value                                | 8 |

|                                      |    |
|--------------------------------------|----|
| <b>core.constant</b> (-> core.equal) |    |
| Value                                | 37 |

### user.DestinationStationName

Input (required) **core.input b**

| Nodes             | Connections   |  |
|-------------------|---|--|
| b<br>Type: string | <a href="#">core.equal =&gt; b   result =&gt;</a><br><a href="#">core.logical-and =&gt; value1   result =&gt;</a><br><a href="#">core.filter =&gt; bool   on-true =&gt;</a> | <a href="#">core.output =&gt; ns1PrimaryLocationName</a><br>Type: string |

Input (required) **core.input noderow**

| Nodes                   | Connections  |  |
|-------------------------|--|--|
| noderow<br>Type: string | <a href="#">core.filter =&gt; node/row   on-true =&gt;</a> | <a href="#">core.output =&gt; ns1PrimaryLocationName</a><br>Type: string |

Input (required) **core.input b2**

| Nodes              | Connections   |  |
|--------------------|---|--|
| b2<br>Type: string | <a href="#">core.equal =&gt; b   result =&gt;</a><br><a href="#">core.logical-and =&gt; value2   result =&gt;</a><br><a href="#">core.filter =&gt; bool   on-true =&gt;</a> | <a href="#">core.output =&gt; ns1PrimaryLocationName</a><br>Type: string |

|  |  |  |
|--|--|--|
|  |  |  |
|--|--|--|

Output **core.output ns1PrimaryLocationName**

| Connections  |   | Nodes                                  |
|--|---|--|
| <a href="#">core.input   b =&gt;</a><br>Type: string       | <a href="#">core.equal =&gt; b   result =&gt;</a><br><a href="#">core.logical-and =&gt; value1   result =&gt;</a><br><a href="#">core.filter =&gt; bool   on-true =&gt;</a> | ns1PrimaryLocationName<br>Type: string |
| <a href="#">core.constant("8")</a>                         | <a href="#">core.equal =&gt; a   result =&gt;</a><br><a href="#">core.logical-and =&gt; value1   result =&gt;</a><br><a href="#">core.filter =&gt; bool   on-true =&gt;</a> |  |
| <a href="#">core.input   noderow =&gt;</a><br>Type: string | <a href="#">core.filter =&gt; node/row   on-true =&gt;</a>  |  |
| <a href="#">core.constant("37")</a>                        | <a href="#">core.equal =&gt; a   result =&gt;</a><br><a href="#">core.logical-and =&gt; value2   result =&gt;</a><br><a href="#">core.filter =&gt; bool   on-true =&gt;</a> |  |
| <a href="#">core.input   b2 =&gt;</a><br>Type: string      | <a href="#">core.equal =&gt; b   result =&gt;</a><br><a href="#">core.logical-and =&gt; value2   result =&gt;</a><br><a href="#">core.filter =&gt; bool   on-true =&gt;</a> |  |

Remaining components

|   |  |
|---|--|
| <b>core.equal</b> (core.constant, core.input -> core.logical-and)             |  |
| a ( <a href="#">core.constant."8"</a> )<br>b ( <a href="#">core.input.b</a> ) | result ( <a href="#">core.logical-and.value1</a> ) |

|   |  |
|---|--|
| <b>core.filter</b> (core.input, core.logical-and -> core.output)                                    |  |
| node/row ( <a href="#">core.input.noderow</a> )<br>bool ( <a href="#">core.logical-and.result</a> ) | on-true ( <a href="#">core.output.ns1PrimaryLocationName</a> ) |

|   |  |
|---|--|
| <b>core.equal</b> (core.constant, core.input -> core.logical-and)               |  |
| a ( <a href="#">core.constant."37"</a> )<br>b ( <a href="#">core.input.b2</a> ) | result ( <a href="#">core.logical-and.value2</a> ) |

|  |   |
|--|---|
| <b>core.logical-and</b> (core.equal, core.equal -> core.filter)                              |   |
| value1 ( <a href="#">core.equal.result</a> )<br>value2 ( <a href="#">core.equal.result</a> ) | result ( <a href="#">core.filter.bool</a> ) |

Constants

|                                      |   |
|--------------------------------------|---|
| <b>core.constant</b> (-> core.equal) |   |
| Value                                | 8 |

|                                      |    |
|--------------------------------------|----|
| <b>core.constant</b> (-> core.equal) |    |
| Value                                | 37 |

**user.PLC-FROM-OSDJ**

Input (required) **core.input noderow**

| Nodes                   | Connections   |   |
|-------------------------|---|---|
| noderow<br>Type: string | <a href="#">core.filter =&gt; node/row   on-true =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a>  | <a href="#">core.output =&gt; ns1CountryCodeISO</a><br>Type: string       |
|                         | <a href="#">core.filter =&gt; node/row   on-true =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a><br><a href="#">lang.right =&gt; string   result =&gt;</a><br><a href="#">core.if-else =&gt; value-true   result =&gt;</a> | <a href="#">core.output =&gt; ns1LocationPrimaryCode</a><br>Type: anyType |

Input (required) **core.input a**

| Nodes             | Connections   |   |
|-------------------|---|---|
| a<br>Type: string | <a href="#">core.equal =&gt; a   result =&gt;</a><br><a href="#">core.filter =&gt; bool   on-true =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a> | <a href="#">core.output =&gt; ns1CountryCodeISO</a><br>Type: string       |
|                   | <a href="#">core.equal =&gt; a   result =&gt;</a><br><a href="#">core.if-else =&gt; bool   result =&gt;</a>   | <a href="#">core.output =&gt; ns1LocationPrimaryCode</a><br>Type: anyType |

Input (required) **core.input b**

| Nodes             | Connections   |   |
|-------------------|---|---|
| b<br>Type: string | <a href="#">core.equal =&gt; b   result =&gt;</a><br><a href="#">core.filter =&gt; bool   on-true =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a> | <a href="#">core.output =&gt; ns1CountryCodeISO</a><br>Type: string       |
|                   | <a href="#">core.equal =&gt; b   result =&gt;</a><br><a href="#">core.if-else =&gt; bool   result =&gt;</a>   | <a href="#">core.output =&gt; ns1LocationPrimaryCode</a><br>Type: anyType |

Output **core.output ns1CountryCodeISO**

| Connections  |   | Nodes                             |
|--|---|-----------------------------------|
| <a href="#">core.input   noderow =&gt;</a><br>Type: string | <a href="#">core.filter =&gt; node/row   on-true =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a>  | ns1CountryCodeISO<br>Type: string |
| <a href="#">core.input   a =&gt;</a><br>Type: string       | <a href="#">core.equal =&gt; a   result =&gt;</a><br><a href="#">core.filter =&gt; bool   on-true =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a> |                                   |
| <a href="#">core.input   b =&gt;</a><br>Type: string       | <a href="#">core.equal =&gt; b   result =&gt;</a><br><a href="#">core.filter =&gt; bool   on-true =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a>  |                                   |

|                                    |  |  |
|------------------------------------|--|--|
|                                    | <a href="#">lang.left =&gt; string   result =&gt;</a>  |  |
| <a href="#">core.constant(7)</a>   | <a href="#">lang.left =&gt; number   result =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a> |  |
| <a href="#">core.constant("2")</a> | <a href="#">lang.left =&gt; number   result =&gt;</a>  |  |

Output **core.output ns1LocationPrimaryCode**

| Connections  |   | Nodes                                   |
|--|---|---|
| <a href="#">core.input   noderow =&gt;</a><br>Type: string | <a href="#">core.filter =&gt; node/row   on-true =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a><br><a href="#">lang.right =&gt; string   result =&gt;</a><br><a href="#">core.if-else =&gt; value-true   result =&gt;</a> | ns1LocationPrimaryCode<br>Type: anyType |
| <a href="#">core.input   a =&gt;</a><br>Type: string       | <a href="#">core.equal =&gt; a   result =&gt;</a><br><a href="#">core.if-else =&gt; bool   result =&gt;</a>   |   |
| <a href="#">core.input   b =&gt;</a><br>Type: string       | <a href="#">core.equal =&gt; b   result =&gt;</a><br><a href="#">core.if-else =&gt; bool   result =&gt;</a>   |   |
| <a href="#">core.constant(7)</a>                           | <a href="#">lang.left =&gt; number   result =&gt;</a><br><a href="#">lang.right =&gt; string   result =&gt;</a><br><a href="#">core.if-else =&gt; value-true   result =&gt;</a>   |   |
| <a href="#">core.constant("5")</a>                         | <a href="#">lang.right =&gt; number   result =&gt;</a><br><a href="#">core.if-else =&gt; value-true   result =&gt;</a>  |   |

Remaining components

|  |   |
|--|---|
| <b>core.equal</b> (core.input, core.input -> core.if-else, core.filter)  |   |
| a ( <a href="#">core.input.a</a> )<br>b ( <a href="#">core.input.b</a> ) | result ( <a href="#">core.if-else.bool</a> , <a href="#">core.filter.bool</a> ) |

|   |   |
|---|---|
| <b>core.filter</b> (core.input, core.equal -> lang.left, core.if-else)                        |   |
| node/row ( <a href="#">core.input.noderow</a> )<br>bool ( <a href="#">core.equal.result</a> ) | on-true ( <a href="#">lang.left.string</a> )<br>on-false ( <a href="#">core.if-else.value-false</a> ) |

|  |   |
|--|---|
| <b>lang.left</b> (core.filter, core.constant -> lang.right, lang.left)                       |   |
| string ( <a href="#">core.filter.on-true</a> )<br>number ( <a href="#">core.constant.7</a> ) | result ( <a href="#">lang.right.string</a> , <a href="#">lang.left.string</a> ) |

|   |  |
|---|--|
| <b>lang.left</b> (lang.left, core.constant -> core.output)                                  |  |
| string ( <a href="#">lang.left.result</a> )<br>number ( <a href="#">core.constant."2"</a> ) | result ( <a href="#">core.output.ns1CountryCodeISO</a> ) |

|   |  |
|---|--|
| <b>lang.right</b> (lang.left, core.constant -> core.if-else)                                |  |
| string ( <a href="#">lang.left.result</a> )<br>number ( <a href="#">core.constant."5"</a> ) | result ( <a href="#">core.if-else.value-true</a> ) |

|  |   |
|--|---|
| <b>core.if-else</b> (core.equal, lang.right, core.filter -> core.output)   |   |
| bool ( <a href="#">core.equal.result</a> )<br>value-true ( <a href="#">lang.right.result</a> )<br>value-false ( <a href="#">core.filter.on-false</a> ) | result ( <a href="#">core.output.ns1LocationPrimaryCode</a> ) |

**Constants**

|                                     |   |
|-------------------------------------|---|
| <b>core.constant</b> (-> lang.left) |   |
| Value                               | 7 |

|                                     |   |
|-------------------------------------|---|
| <b>core.constant</b> (-> lang.left) |   |
| Value                               | 2 |

|                                      |   |
|--------------------------------------|---|
| <b>core.constant</b> (-> lang.right) |   |
| Value                                | 5 |

**user.PLCfromOSJD**

Input (required) **core.input noderow**

| Nodes                   | Connections   |   |
|-------------------------|---|---|
| noderow<br>Type: string | <a href="#">core.filter =&gt; node/row   on-true =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a>  | <a href="#">core.output =&gt; ns1CountryCodeISO</a><br>Type: string       |
|                         | <a href="#">core.filter =&gt; node/row   on-true =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a><br><a href="#">lang.right =&gt; string   result =&gt;</a><br><a href="#">core.if-else =&gt; value-true   result =&gt;</a> | <a href="#">core.output =&gt; ns1LocationPrimaryCode</a><br>Type: anyType |

Input (required) **core.input b**

| Nodes             | Connections  |   |
|-------------------|--|---|
| b<br>Type: string | <a href="#">core.equal =&gt; b   result =&gt;</a><br><a href="#">core.filter =&gt; bool   on-true =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a>  | <a href="#">core.output =&gt; ns1CountryCodeISO</a><br>Type: string       |
|                   | <a href="#">core.equal =&gt; b   result =&gt;</a><br><a href="#">core.filter =&gt; bool   on-true =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a><br><a href="#">lang.right =&gt; string   result =&gt;</a><br><a href="#">core.if-else =&gt; value-true   result =&gt;</a> | <a href="#">core.output =&gt; ns1LocationPrimaryCode</a><br>Type: anyType |

Output **core.output ns1CountryCodeISO**

| Connections  | Nodes  |
|--|--|
| <a href="#">core.input   noderow =&gt;</a><br>Type: string | <a href="#">core.filter =&gt; node/row   on-true =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a> |

|  |   |  |
|--|---|--|
| <a href="#">core.constant("OSJD")</a>                | <a href="#">core.equal =&gt; a   result =&gt;</a><br><a href="#">core.filter =&gt; bool   on-true =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a> |  |
| <a href="#">core.constant(7)</a>                     | <a href="#">lang.left =&gt; number   result =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a>  |  |
| <a href="#">core.input   b =&gt;</a><br>Type: string | <a href="#">core.equal =&gt; b   result =&gt;</a><br><a href="#">core.filter =&gt; bool   on-true =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a> |  |
| <a href="#">core.constant("2")</a>                   | <a href="#">lang.left =&gt; number   result =&gt;</a>   |  |

Output **core.output ns1LocationPrimaryCode**

| Connections  |   | Nodes                                   |
|--|---|---|
| <a href="#">core.input   noderow =&gt;</a><br>Type: string | <a href="#">core.filter =&gt; node/row   on-true =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a><br><a href="#">lang.right =&gt; string   result =&gt;</a><br><a href="#">core.if-else =&gt; value-true   result =&gt;</a> | ns1LocationPrimaryCode<br>Type: anyType |
| <a href="#">core.constant("OSJD")</a>                      | <a href="#">core.equal =&gt; a   result =&gt;</a><br><a href="#">core.if-else =&gt; bool   result =&gt;</a>   |   |
| <a href="#">core.constant(7)</a>                           | <a href="#">lang.left =&gt; number   result =&gt;</a><br><a href="#">lang.right =&gt; string   result =&gt;</a><br><a href="#">core.if-else =&gt; value-true   result =&gt;</a>   |   |
| <a href="#">core.input   b =&gt;</a><br>Type: string       | <a href="#">core.equal =&gt; b   result =&gt;</a><br><a href="#">core.if-else =&gt; bool   result =&gt;</a>   |   |
| <a href="#">core.constant("5")</a>                         | <a href="#">lang.right =&gt; number   result =&gt;</a><br><a href="#">core.if-else =&gt; value-true   result =&gt;</a>  |   |

Remaining components

|  |   |
|--|---|
| <b>core.filter</b> (core.input, core.equal -> lang.left, core.if-else) |   |
| node/row ( <a href="#">core.input.noderow</a> )                        | on-true ( <a href="#">lang.left.string</a> )          |
| bool ( <a href="#">core.equal.result</a> )                             | on-false ( <a href="#">core.if-else.value-false</a> ) |

|  |   |
|--|---|
| <b>core.equal</b> (core.constant, core.input -> core.filter, core.if-else) |   |
| a ( <a href="#">core.constant."OSJD"</a> )                                 | result ( <a href="#">core.filter.bool</a> , <a href="#">core.if-else.bool</a> ) |
| b ( <a href="#">core.input.b</a> )   |   |

|  |   |
|--|---|
| <b>lang.left</b> (core.filter, core.constant -> lang.right, lang.left) |   |
| string ( <a href="#">core.filter.on-true</a> )                         | result ( <a href="#">lang.right.string</a> , <a href="#">lang.left.string</a> ) |
| number ( <a href="#">core.constant.7</a> )                             |   |

|  |  |
|--|--|
| <b>lang.left</b> (lang.left, core.constant -> core.output) |  |
| string ( <a href="#">lang.left.result</a> )                | result ( <a href="#">core.output.ns1CountryCodeISO</a> ) |
| number ( <a href="#">core.constant."2"</a> )               |  |

|  |  |
|--|--|
| <b>lang.right</b> (lang.left, core.constant -> core.if-else) |  |
| string ( <a href="#">lang.left.result</a> )                  | result ( <a href="#">core.if-else.value-true</a> ) |

|  |  |
|--|--|
| number ( <a href="#">core.constant."5"</a> ) |  |
|--|--|

|  |   |
|--|---|
| <b>core.if-else</b> ( <a href="#">core.equal</a> , <a href="#">lang.right</a> , <a href="#">core.filter</a> -> <a href="#">core.output</a> )           |   |
| bool ( <a href="#">core.equal.result</a> )<br>value-true ( <a href="#">lang.right.result</a> )<br>value-false ( <a href="#">core.filter.on-false</a> ) | result ( <a href="#">core.output.ns1LocationPrimaryCode</a> ) |

### Constants

|   |      |
|---|------|
| <b>core.constant</b> (-> <a href="#">core.equal</a> ) |      |
| Value   | OSJD |

|  |   |
|--|---|
| <b>core.constant</b> (-> <a href="#">lang.left</a> ) |   |
| Value  | 7 |

|  |   |
|--|---|
| <b>core.constant</b> (-> <a href="#">lang.left</a> ) |   |
| Value  | 2 |

|   |   |
|---|---|
| <b>core.constant</b> (-> <a href="#">lang.right</a> ) |   |
| Value   | 5 |

## 2. Трансформация из сообщений ОСЖД МЕСПЛАН XML о планировании транспорта в сообщение о заказе на перевозку ТАФ ТСИ XML / Mapping from the OSJD messages MESPLAN XML on transport planning to the TAF TSI XML “ConsignmentOrderMessage”

Ссылки / References :

|   |   |
|---|---|
| Внутренняя ссылка ЕЖДА файла сопоставления / Internal ERA reference of the mapping file | <b>MESPLAN to COM.mfd</b>   |
| Дата окончательного сопоставления / Date of the final mapping                           | 27/03/2020  |
| Описание данных   | <p>Структура сообщений, которые используются в системе АС Месплан (Теги и атрибуты данных операции формирования заказа на перевозку грузов, которые используются в АСК ВП УЗ-Е)</p> <p>АС МЕСПЛАН. ВВОД заявки на перевозку грузов.</p> <p>АС МЕСПЛАН. ПЕРЕЧЕНЬ согласованных планов.</p>                             |
| Data descriptions   | <p>The structure of messages that are used in the AS Mesplan system (tags and data attributes of the operation of the formation of an order for the carriage of goods, which are used in ASK VP UZ-E)</p> <p>AS MESPLAN. ENTRY OF THE APPLICATION FOR CARRIAGE OF CARGO.</p> <p>AS MESPLAN. LIST OF AGREED PLANS.</p> |

Output [taf\\_cat\\_complete\\_baseline\\_2.1.xmd](#) ([taf\\_cat\\_complete\\_baseline\\_2.1.xmd.xsd](#))

| Connections                         |  | Nodes  |
|-------------------------------------|--|--|
|                                     |  | File: taf_cat_complete_baseline_2.1.xmd.xml<br>Type: string  |
|                                     |  | ns1:ConsignmentOrderMessage<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Consignment Order Message from Lead RU to RU  |
|                                     |  | ns1:ConsignmentOrderMessage/ns1:MessageHeader<br>Type: restriction of xs:anyType<br>Annotation: Used for all messages  |
|                                     |  | ns1:ConsignmentOrderMessage/ns1:MessageHeader/ns1:MessageReference<br>Type: restriction of xs:anyType<br>Annotation: This element identifies the message   |
| <a href="#">core.constant(9999)</a> | <p><i>direct</i></p> <p>Annotation:<br/><b>! New code for COM must be created in CCM !</b></p> | <p>../ns1:MessageHeader/ns1:MessageReference/ns1:MessageType<br/>Type: restriction of xs:integer<br/>Annotation: To indicate the message type transmitted or referred to. The following list was agreed within the sector:</p> <p>2001 PathCanceledMessage<br/>2002 PathConfirmedMessage</p> |



|  |   |
|--|---|
|  | <p>2003 PathDetailsMessage<br/>                 2004 PathDetailsRefusedMessage<br/>                 2005 PathNotAvailableMessage<br/>                 2006 PathRequestMessage<br/>                 2007 ReceiptConfirmationMessage<br/>                 3001 TrainAcceptedMessage<br/>                 3002 TrainAtStartMessage<br/>                 3003 TrainCompositionMessage<br/>                 3004 TrainNotSuitableMessage<br/>                 3005 TrainPositionMessage<br/>                 3006 TrainReadyMessage<br/>                 4001 TrainDelayCauseMessage<br/>                 4002 TrainDelayPerformanceMessage<br/>                 4003 TrainForecastAtReportingLocationMessage<br/>                 4004 TrainRunningForecastMessage<br/>                 4005 TrainRunningInformationMessage<br/>                 4006 TrainRunningInterruptionMessage<br/>                 5001 AlertMessage<br/>                 5002 WagonArrivalNoticeMessage<br/>                 5003 WagonDeliveryNoticeMessage<br/>                 5004 WagonDepartureNoticeMessage<br/>                 5005 WagonDeviationMessage<br/>                 5006 WagonETI_ETA_Message<br/>                 5007 WagonExceptionMessage<br/>                 5008 WagonExceptionReasonMessage<br/>                 5009 WagonInterchangeNoticeMessage<br/>                 5010 WagonInterchangeSubNoticeMessage<br/>                 5011 WagonOrderMessage<br/>                 5012 WagonReceivedAtInterchangeMessage<br/>                 5013 WagonRefusedAtInterchangeMessage<br/>                 5014 WagonReleaseNoticeMessage<br/>                 5015 WagonYardArrivalMessage<br/>                 5016 WagonYardDepartureMessage<br/>                 6001 IRN_DatasetMessage<br/>                 6002 LocationFileDatasetMessage<br/>                 6003 RollingStockDatasetMessage</p> |
| <p><a href="#">UZ-XDOC/@doc_version</a><br/>                 Type: restriction of xs:decimal</p> | <p><i>direct</i><br/>                 ../ns1:MessageHeader/ns1:MessageReference/ns1:MessageTypeVersion<br/>                 Type: restriction of xs:string<br/>                 Annotation: Version of the Message Type</p>   |
| <p><a href="#">UZ-XDOC/HEAD/@messcode</a><br/>                 Type: restriction of xs:short</p> | <p><i>direct</i><br/>                 ../ns1:MessageHeader/ns1:MessageReference/ns1:MessageIdentifier<br/>                 Type: ns1:FreeText<br/>                 Annotation: Identification of the Message</p>  |
| <p><a href="#">UZ-XDOC/BODY/@month_plan</a><br/>                 Type: restriction of xs:int</p> | <p>Annotation:<br/>                 ! Only year and month could be converted.<br/>                 Rest added manually !<br/>                 Да, верно/ yes, correct<br/> <a href="#">core.substring =&gt; string   result =&gt;</a><br/> <a href="#">core.concat =&gt; value3   result =&gt;</a><br/>                 Annotation:<br/>                 ! Only year and month could be converted.<br/>                 Rest added manually !<br/> <a href="#">lang.left =&gt; string   result =&gt;</a><br/> <a href="#">core.concat =&gt; value1   result =&gt;</a><br/>                 Annotation:<br/>                 ! Only year and month could be converted.<br/>                 Rest added manually !</p>  |
| <p><a href="#">core.constant(2)</a></p>  | <p>Annotation:<br/>                 ! Only year and month could be converted.<br/>                 Rest added manually !<br/> <a href="#">core.substring =&gt;</a></p>  |

|  |  |   |
|--|--|---|
|  | <p><a href="#">length   result =&gt;</a><br/> <a href="#">core.concat =&gt; value3</a><br/> <a href="#">  result =&gt;</a><br/>                     Annotation:<br/>                     ! Only year and month could be converted.<br/>                     Rest added manually !</p>  |   |
| <a href="#">core.constant(5)</a>   | <p>Annotation:<br/>                     ! Only year and month could be converted.<br/>                     Rest added manually !<br/> <a href="#">core.substring =&gt; start</a><br/> <a href="#">  result =&gt;</a><br/> <a href="#">core.concat =&gt; value3</a><br/> <a href="#">  result =&gt;</a><br/>                     Annotation:<br/>                     ! Only year and month could be converted.<br/>                     Rest added manually !</p>  |   |
| <a href="#">core.constant(4)</a>   | <p>Annotation:<br/>                     ! Only year and month could be converted.<br/>                     Rest added manually !<br/> <a href="#">lang.left =&gt; number  </a><br/> <a href="#">result =&gt;</a><br/> <a href="#">core.concat =&gt; value1</a><br/> <a href="#">  result =&gt;</a><br/>                     Annotation:<br/>                     ! Only year and month could be converted.<br/>                     Rest added manually !</p>  |   |
| <a href="#">core.constant("-")</a>   | <p>Annotation:<br/>                     ! Only year and month could be converted.<br/>                     Rest added manually !<br/> <a href="#">core.concat =&gt; value4</a><br/> <a href="#">  result =&gt;</a><br/>                     Annotation:<br/>                     ! Only year and month could be converted.<br/>                     Rest added manually !<br/> <a href="#">core.concat =&gt; value2</a><br/> <a href="#">  result =&gt;</a><br/>                     Annotation:<br/>                     ! Only year and month could be converted.<br/>                     Rest added manually !</p> |   |
| <a href="#">core.constant("01T10:00:00")</a>   | <p>Annotation:<br/>                     ! Only year and month could be converted.<br/>                     Rest added manually !<br/> <a href="#">core.concat =&gt; value5</a><br/> <a href="#">  result =&gt;</a><br/>                     Annotation:<br/>                     ! Only year and month could be converted.<br/>                     Rest added manually !</p>  |   |
|  |  | <p>ns1:ConsignmentOrderMessage/ns1:MessageHeader/ns1:MessageRoutingID<br/>                     Type: ns1:Numeric2-2 [0..1]<br/>                     Annotation: Additional information used to route the message to the correct receiving application (if needed)</p> |
|  |  | <p>ns1:ConsignmentOrderMessage/ns1:MessageHeader/ns1:SenderReference<br/>                     Type: ns1:FreeText [0..1]<br/>                     Annotation: reference used by the sender (e.g. FTP file name)</p>  |
| <p><a href="#">UZ-XDOC</a><br/>                     Type: restriction of xs:anyType [0..1]</p> | <p>Annotation:<br/>                     ! 4N deducted from Schema name only !</p>  | <p>ns1:ConsignmentOrderMessage/ns1:MessageHeader/ns1:Sender<br/>                     Type: extension of ns1:CompanyCode<br/>                     Annotation: The sender of the message</p>  |

|  |   |  |
|--|---|--|
|  | <p>Служебный атрибут автоматизированных систем УЗ / Service attribute of automated UZ systems</p> <p><a href="#">core.node-name =&gt; node   name =&gt;</a></p> <p><a href="#">lang.left =&gt; string   result =&gt;</a></p> <p><a href="#">core.value-map =&gt; input   result =&gt;</a></p> <p>Annotation:<br/>! 4N deducted from Schema name only !</p>  |  |
| <p><a href="#">core.constant(2)</a></p>  | <p>Annotation:<br/>! 4N deducted from Schema name only !</p> <p><a href="#">lang.left =&gt; number   result =&gt;</a></p> <p><a href="#">core.value-map =&gt; input   result =&gt;</a></p> <p>Annotation:<br/>! 4N deducted from Schema name only !</p>   |  |
|  |   | <p>../ns1:MessageHeader/ns1:Sender/@ns1:CI_InstanceNumber<br/>Type: ns1:Numeric2-2 [0..1]<br/>Annotation: Number of a Common Interface Instance for the same Company</p>   |
| <p><a href="#">UZ-XDOC/BODY/@name_abonent</a><br/>Type: restriction of xs:string</p> | <p>Annotation:<br/>! Conversion from AN name to 4N needed !<br/>Sender = Recipient was set as it is within УЗ МЕСПЛАН !</p> <p>Наименование предприятия-отправителя информации о плане погрузки / The name of the company that sent the information about the loading plan</p> <p><a href="#">core.value-map =&gt; input   result =&gt;</a></p> <p>Annotation:<br/>! Conversion from AN name to 4N needed !<br/>Sender = Recipient was set as it is within УЗ МЕСПЛАН !</p> | <p>ns1:ConsignmentOrderMessage/ns1:MessageHeader/ns1:Recipient<br/>Type: extension of ns1:CompanyCode<br/>Annotation: Receiver of the message</p>  |
|  |   | <p>../ns1:MessageHeader/ns1:Recipient/@ns1:CI_InstanceNumber<br/>Type: ns1:Numeric2-2 [0..1]<br/>Annotation: Number of a Common Interface Instance for the same Company</p>  |
|  |   | <p>ns1:ConsignmentOrderMessage/ns1:COMS<br/>Type: restriction of xs:anyType [1..50]<br/>Annotation: Message</p>  |
|  |   | <p>ns1:ConsignmentOrderMessage/ns1:COMS/ns1:COM_Header<br/>Type: restriction of xs:anyType<br/>Annotation: Additional Header containing consignment related key data such as dossier number, version number and a change log for modifications</p> |
| <p><a href="#">UZ-XDOC</a><br/>Type: restriction of xs:anyType [0..1]</p>            | <p>Annotation:<br/>! 4N deducted from Schema name only !</p> <p><a href="#">core.node-name =&gt; node   name =&gt;</a></p> <p><a href="#">lang.left =&gt; string   result =&gt;</a></p> <p><a href="#">core.value-map =&gt; input   result =&gt;</a></p>  | <p>../ns1:COMS/ns1:COM_Header/ns1:SendingRU<br/>Type: ns1:CompanyCode<br/>Annotation: Use here the 4 digit code according to UIC leaflet 920-1 of the railway, which created/amended the message (like 2185).</p>                                  |

|  |  |  |
|--|--|--|
|  | <p>Annotation:<br/>! 4N deducted from Schema name only !</p>   |  |
| <p><a href="#">core.constant(2)</a></p>  | <p>Annotation:<br/>! 4N deducted from Schema name only !<br/><a href="#">lang.left =&gt; number   result =&gt;</a><br/><a href="#">core.value-map =&gt; input   result =&gt;</a></p> <p>Annotation:<br/>! 4N deducted from Schema name only !</p>  |  |
| <p><a href="#">UZ-XDOC/BODY/@name_abonent</a><br/>Type: restriction of xs:string</p>   | <p>Annotation:<br/>! Conversion from AN name to 4N needed !<br/><a href="#">core.value-map =&gt; input   result =&gt;</a></p> <p>Annotation:<br/>! Conversion from AN name to 4N needed !<br/>Наименование предприятия отправителя информации о плане погрузки / The name of the company that sent the information about the loading plan</p>  | <p>../ns1:COMS/ns1:COM_Header/ns1:ReceivingRU<br/>Type: ns1:CompanyCode<br/>Annotation: Use here the 4 digit code according to UIC leaflet 920-1 of the railway, which is the receipt of the message (like 2185).</p>  |
|  |  | <p>../ns1:COMS/ns1:COM_Header/ns1:MessageReferenceNumber<br/>Type: restriction of xs:string [0..1]<br/>Annotation: Message Reference Number This identification is being generated during creation of the message. This allows the tracing of the message.</p>   |
|  |  | <p>../ns1:COMS/ns1:COM_Header/ns1:ShipmentType<br/>Type: restriction of xs:token [0..1]<br/>Annotation: Classification of the wagon order as 'CUV' or 'CIM'.</p>   |
| <p><a href="#">../BODY/PLAN/@vid_plan</a><br/>Type: restriction of xs:byte<br/>Annotation: код вида плана (основной, дополнительный)</p> | <p><a href="#">core.value-map =&gt; input   result =&gt;</a></p>   | <p>../ns1:COMS/ns1:COM_Header/ns1:ConsignmentOrderType<br/>Type:<br/>Annotation: Preliminary list of messages, by now restricted on different types of consignment orders. CIM: none.<br/>ORU: original consignment order message from origin location<br/>ORX: update for consignment order from origin location<br/>ORD: deletion for consignment order from origin location<br/>TRU: original transit consignment order<br/>TRX: update for transit consignment order<br/>TRD: deletion of transit consignment order<br/>DRU: original consignment order to destination location<br/>DRX: update for consignment order to destination location<br/>DRD: deletion of consignment order to destination location</p> |
| <p><a href="#">../BODY/PLAN/@month_plan</a><br/>Type: restriction of xs:int<br/>Annotation: номер планового месяца</p>                   | <p>Annotation:<br/>! Only year and month could be converted. Rest added manually !<br/><a href="#">core.substring =&gt; string   result =&gt;</a><br/><a href="#">core.concat =&gt; value3   result =&gt;</a></p> <p>Annotation:<br/>! Only year and month could be converted. Rest added manually !<br/><a href="#">lang.left =&gt; string   result =&gt;</a><br/><a href="#">core.concat =&gt;</a></p> | <p>../ns1:COMS/ns1:COM_Header/ns1:COM_PreparationDatetime<br/>Type: restriction of xs:dateTime<br/>Annotation: Date and Time of preparation of the COM</p>   |

|  |  |   |
|--|--|---|
|  | <p><a href="#">value1   result =&gt;</a><br/> Annotation:<br/> ! Only year and month could be converted.<br/> Rest added manually !</p>  |   |
| <a href="#">core.constant(5)</a>   | <p>Annotation:<br/> ! Only year and month could be converted.<br/> Rest added manually !<br/> <a href="#">core.substring =&gt;</a><br/> <a href="#">start   result =&gt;</a><br/> <a href="#">core.concat =&gt;</a><br/> <a href="#">value3   result =&gt;</a><br/> Annotation:<br/> ! Only year and month could be converted.<br/> Rest added manually !</p>  |   |
| <a href="#">core.constant(4)</a>   | <p>Annotation:<br/> ! Only year and month could be converted.<br/> Rest added manually !<br/> <a href="#">lang.left =&gt; number   result =&gt;</a><br/> <a href="#">core.concat =&gt;</a><br/> <a href="#">value1   result =&gt;</a><br/> Annotation:<br/> ! Only year and month could be converted.<br/> Rest added manually !</p>   |   |
| <a href="#">core.constant("-")</a>   | <p>Annotation:<br/> ! Only year and month could be converted.<br/> Rest added manually !<br/> <a href="#">core.concat =&gt;</a><br/> <a href="#">value4   result =&gt;</a><br/> Annotation:<br/> ! Only year and month could be converted.<br/> Rest added manually !<br/> <a href="#">core.concat =&gt;</a><br/> <a href="#">value2   result =&gt;</a><br/> Annotation:<br/> ! Only year and month could be converted.<br/> Rest added manually !</p> |   |
| <a href="#">core.constant("01T10:00:00")</a>   | <p>Annotation:<br/> ! Only year and month could be converted.<br/> Rest added manually !<br/> <a href="#">core.concat =&gt;</a><br/> <a href="#">value5   result =&gt;</a><br/> Annotation:<br/> ! Only year and month could be converted.<br/> Rest added manually !</p>  |   |
| <p><a href="#">../BODY/PLAN/@UID</a><br/> Type: restriction of xs:long<br/> Annotation:<br/> идентификатор плана</p> | <p><i>direct</i></p>   | <p><a href="#">../ns1:COMS/ns1:COM_Header/ns1:DossierNumber</a><br/> Type: restriction of xs:string [0..1]<br/> Annotation: Internal identification number of the Wo. This information is important to be able to identify the COM even after modifications. Format: RRRRYYYYMMDDNNNNNNN Where RRRR = railway code, YYYY = year, MM = month, DD = day and NNNNNNN = running number.</p> |
| <p><a href="#">../BODY/PLAN/@vid_string</a><br/> Type: restriction of xs:byte</p>                                    | <p><i>direct</i><br/> Annotation:<br/> ! To check whether this is the right connection !<br/> Служебный атрибут автоматизированных систем УЗ / Service</p>   | <p><a href="#">../ns1:COMS/ns1:COM_Header/ns1:VersionNumber</a><br/> Type: restriction of xs:int<br/> Annotation: Message version number. This number has to be incremented after each modification. On creation this value has to be set to 0.</p>   |

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|  | attribute of automated UZ systems  |  |
|  |  | <p>../ns1:COMS/ns1:COM_Header/ns1:ChangeLog<br/>                 Type: restriction of xs:anyType [0..100]<br/>                 Annotation: Log of changes made by the LeadRU / contractual carrier during the transport.</p>   |
|  |  | <p>ns1:ConsignmentOrderMessage/ns1:COMS/ns1:COM<br/>                 Type: restriction of xs:anyType<br/>                 Annotation: Consignment order message</p>  |
|  |  | <p>../ns1:COMS/ns1:COM/ns1:AcceptancePoint<br/>                 Type: restriction of xs:anyType<br/>                 Annotation: Description of location and time for the take over of the consignment</p>   |
|  |  | <p>../ns1:COM/ns1:AcceptancePoint/ns1:Station<br/>                 Type: extension of ns1:LocationIdent<br/>                 Annotation: Details of station serving the point</p>  |
| <p>../BODY/PLAN/@stran_otpr<br/>                 Type: restriction of xs:short<br/>                 Annotation: код страны отправления</p>   | <p>core.value-map =&gt; input   result =&gt;</p>   | <p>../ns1:AcceptancePoint/ns1:Station/ns1:CountryCodeISO<br/>                 Type: extension of ns1:CountryIdentISO<br/>                 Annotation: Identifies a County or State by code (ISO 3166-1)</p>  |
| <p>../BODY/PLAN/@esr_otpr<br/>                 Type: restriction of xs:int<br/>                 Annotation: код станции отправления</p>      | <p>lang.left =&gt; string   result =&gt;</p>   | <p>../ns1:AcceptancePoint/ns1:Station/ns1:LocationPrimaryCode<br/>                 Type: ns1:Numeric1-5</p>  |
| <p>core.constant(5)</p>  | <p>lang.left =&gt; number   result =&gt;</p>   |  |
|  |  | <p>../ns1:AcceptancePoint/ns1:Station/ns1:PrimaryLocationName<br/>                 Type: ns1:FreeText [0..1]<br/>                 Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet</p>  |
|  |  | <p>../ns1:AcceptancePoint/ns1:Station/ns1:LocationSubsidiaryIdentification<br/>                 Type: restriction of xs:anyType [0..1]<br/>                 Annotation: Code, Name and allocation company of Subsidiary Location</p>   |
|  |  | <p>../ns1:COM/ns1:AcceptancePoint/ns1:ProductionStation<br/>                 Type: restriction of xs:anyType [0..1]<br/>                 Annotation: Details of production station serving the point, this element is used if the productional station differs from the commercial station</p>                           |
|  |  | <p>../ns1:COM/ns1:AcceptancePoint/ns1:PreviousResponsibleRU<br/>                 Type: ns1:CompanyCode [0..1]<br/>                 Annotation: This element identifies the RU, who was responsible for the train operation on the journey section before an interchange point</p>  |
|  |  | <p>../ns1:COM/ns1:AcceptancePoint/ns1:AcceptanceDate<br/>                 Type: restriction of xs:dateTime [0..1]<br/>                 Annotation: Date and time (month, day and hour) at which the goods were accepted.</p>   |
| <p>../BODY/PLAN/@dor_otpr<br/>                 Type: restriction of xs:byte<br/>                 Annotation: железная дорога отправления</p> | <p>direct<br/>                 Annotation:<br/>                 ! To check whether RU code 35 should be 22!<br/>                 Внутренний код отделения УЗ, не код администрации / Internal code of the UZ department, not the administration code</p> | <p>../ns1:COM/ns1:AcceptancePoint/ns1:ResponsibleRU<br/>                 Type: ns1:CompanyCode<br/>                 Annotation: RU Responsible for the physical operation of the train or wagon</p>  |
| <p>../BODY/PLAN/@number_plan<br/>                 Type: restriction of xs:int<br/>                 Annotation: номер плана УЗ</p>            | <p>direct</p>  | <p>../ns1:COM/ns1:AcceptancePoint/ns1:COM_ConsignmentNumber<br/>                 Type: restriction of xs:string<br/>                 Annotation: Running number and check digit of the consignment between Lead RU and Responsible RU. Format: NNNNNC The number consists of NNNNN = running number C = check digit,</p> |
|  |  | <p>../ns1:COM/ns1:AcceptancePoint/ns1:ForwardingTrainNumber<br/>                 Type: restriction of xs:string [0..1]<br/>                 Annotation: Train number at shipping</p>   |
|  |  | <p>../ns1:COM/ns1:AcceptancePoint/ns1&gt;LoadingFacility<br/>                 Type: restriction of xs:anyType [0..1]<br/>                 Annotation: Identifies the loading facility (in case of message type = ORU)</p>  |
|  |  | <p>../ns1:COMS/ns1:COM/ns1:DeliveryPoint<br/>                 Type: restriction of xs:anyType</p>  |

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|  |  | Annotation: Description of location and time for the hand over of the consignment  |
|  |  | .../ns1:COM/ns1:DeliveryPoint/ns1:Station<br>Type: extension of ns1:LocationIdent<br>Annotation: Details of station serving the point  |
| .../PLAN/PEREVEZ/@stran_prib<br>Type: restriction of xs:byte<br>Annotation: код страны назначения              | <a href="#">core.value-map =&gt; input   result =&gt;</a>                                    | .../ns1:DeliveryPoint/ns1:Station/ns1:CountryCodeISO<br>Type: extension of ns1:CountryIdentISO<br>Annotation: Identifies a County or State by code (ISO 3166-1)  |
| .../PLAN/PEREVEZ/@esr_prib<br>Type: restriction of xs:int<br>Annotation: код станции назначения                | direct   | .../ns1:DeliveryPoint/ns1:Station/ns1:LocationPrimaryCode<br>Type: ns1:Numeric1-5  |
|  |  | .../ns1:DeliveryPoint/ns1:Station/ns1:PrimaryLocationName<br>Type: ns1:FreeText [0..1]<br>Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet  |
|  |  | .../ns1:DeliveryPoint/ns1:Station/ns1:LocationSubsidiaryIdentification<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Code, Name and allocation company of Subsidiary Location   |
|  |  | .../ns1:COM/ns1:DeliveryPoint/ns1:ProductionStation<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Details of production station serving the point, this element is used if the productional station differs from the commercial station |
|  |  | .../ns1:COM/ns1:DeliveryPoint/ns1:NextResponsibleRU<br>Type: ns1:CompanyCode [0..1]<br>Annotation: The RU who is responsible for the train operation on the next journey section.  |
|  |  | .../ns1:COM/ns1:DeliveryPoint/ns1>LoadingFacility<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Identifies the loading facility (in case of message type = ORU)   |
|  |  | .../ns1:COMS/ns1:COM/ns1:Customers<br>Type: restriction of xs:anyType [1..2]<br>Annotation: Information about the consignor and consignee  |
| <a href="#">core.constant("CE")</a>  | direct<br>Annotation:<br>! To check if assumed CE is correct (as it is not an RU)!           | .../ns1:COM/ns1:Customers/ns1:CustomerType<br>Type: restriction of xs:string<br>Annotation: Type of participation CR: Consignor CE: Consignee In the consignment order,the Lead RU acts as both types  |
| .../BODY/PLAN/@klient<br>Type: restriction of xs:int<br>Annotation:<br>идентификатор грузоотправителя по ЕЕКК  | direct<br>Annotation:<br>! In МЕСПЛАН only consignee was found !<br>Да, верно / yes, correct | .../ns1:COM/ns1:Customers/ns1:CustomerNumber<br>Type: restriction of xs:string [0..1]<br>Annotation: The customer number of the COM differs from the customer code used in TAF/TSI, its format may not accord to the TAF element                   |
|  |  | .../ns1:COM/ns1:Customers/ns1:AdministrativeContactInformation<br>Type: restriction of xs:anyType<br>Annotation: Used to define administrative contact information   |
| .../PLAN/PEREVEZ/@poluch_vnesh<br>Type: restriction of xs:string<br>Annotation: название получателя за рубежом | direct   | .../ns1:Customers/ns1:AdministrativeContactInformation/ns1:Name<br>Type: ns1:FreeText<br>Annotation: Generic Name in Free Text   |
| .../PLAN/PEREVEZ/@stran_prib<br>Type: restriction of xs:byte<br>Annotation: код страны назначения              | direct   | .../ns1:Customers/ns1:AdministrativeContactInformation/ns1:Address<br>Type: ns1:FreeText [0..1]<br>Annotation: Generic postal address in clear text  |
|  |  | .../ns1:Customers/ns1:AdministrativeContactInformation/ns1:eMail<br>Type: ns1:CommunicationRefID [0..1]<br>Annotation: Generic eMail address in Free text  |
|  |  | .../ns1:Customers/ns1:AdministrativeContactInformation/ns1:PhoneNumber<br>Type: ns1:CommunicationRefID [0..1]<br>Annotation: Generic Phone number in Free text   |
|  |  | .../ns1:Customers/ns1:AdministrativeContactInformation/ns1:FaxNumber<br>Type: ns1:CommunicationRefID [0..1]<br>Annotation: Generic Fax number in Free text   |
|  |  | .../ns1:Customers/ns1:AdministrativeContactInformation/ns1:FreeTextField   |

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|  |  | Type: ns1:FreeText [0..1]<br>Annotation: Free Text  |
| <a href="#">UZ-XDOC</a><br>Type: restriction of xs:anyType [0..1]  | <a href="#">core.node-name =&gt; node   name =&gt;</a><br><a href="#">lang.left =&gt; string   result =&gt;</a><br><a href="#">core.value-map =&gt; input   result =&gt;</a> | ../ns1:COM/ns1:Customers/ns1:LeadRU<br>Type: ns1:CompanyCode<br>Annotation: Lead Railway Undertaking  |
| <a href="#">core.constant(2)</a>   | <a href="#">lang.left =&gt; number   result =&gt;</a><br><a href="#">core.value-map =&gt; input   result =&gt;</a>   |   |
|  |  | ../ns1:COMS/ns1:COM/ns1:ConsignorDeclarations<br>Type: restriction of xs:anyType [0..10]<br>Annotation: Consignors declarations, this element contains either declarations of the original consignor or declarations of the LeadRU as consignor |
|  |  | ../ns1:COM/ns1:ConsignorDeclarations/ns1:ConsignorDeclarationsCode<br>Type: xs:string<br>Annotation: Coded consignor declaration  |
|  |  | ../ns1:COM/ns1:ConsignorDeclarations/ns1:DeclarationText<br>Type: [0..1]<br>Annotation: Additional Text for codes with free text  |
|  |  | ../ns1:COMS/ns1:COM/ns1:GeneralInformation<br>Type: restriction of xs:anyType [0..1]<br>Annotation: General information about the complete consignment  |
|  |  | ../ns1:COM/ns1:GeneralInformation/ns1:ConsignorReference<br>Type: restriction of xs:string [0..1]<br>Annotation: Consignor's reference concerning the complete consignment  |
|  |  | ../ns1:COM/ns1:GeneralInformation/ns1:WagonGroupInfo<br>Type: restriction of xs:string [0..1]<br>Annotation: Consignor information regarding the whole consignment. Comparable with the element WagonInfo, but for all wagons.                  |
|  |  | ../ns1:COMS/ns1:COM/ns1:AttachedDocuments<br>Type: restriction of xs:anyType [0..10]<br>Annotation: Paper documents accompanying the transport  |
|  |  | ../ns1:COMS/ns1:COM/ns1:CommercialSpecifications<br>Type: restriction of xs:anyType [0..5]<br>Annotation: Commercial Specification  |
| <a href="#">../PEREVEZ/FORMIR/@soglas_code</a><br>Type: restriction of xs:byte<br>Annotation: код согласования администрации | <i>direct</i><br>Annotation:<br>! To check if "soglas_code" is correct !<br>Признак согласования плана перевозки / Value for agreement of the transportation plan            | ../ns1:COMS/ns1:COM/ns1:ContractNumber<br>Type:<br>Annotation: Number of agreement between LeadRU and Responsible RU  |
|  |  | ../ns1:COMS/ns1:COM/ns1:Routing<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Sequential information about the complete routing of the consignment, the LeadRu decides wether to provide this information or not                     |
|  |  | ../ns1:COMS/ns1:COM/ns1:SpecialTreatments<br>Type: restriction of xs:anyType [0..30]<br>Annotation: Special treatment   |
|  |  | ../ns1:COMS/ns1:COM/ns1:CustomsProcedures<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Customs procedures   |
|  |  | ../ns1:COMS/ns1:COM/ns1:CustomsData<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Customs Data   |
|  |  | ../ns1:COMS/ns1:COM/ns1:RU_Declarations<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Carriers declaration   |



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|  |  | <p>../ns1:COM/ns1:RU_Declarations/ns1:RU_Declaration<br/>                 Type: restriction of xs:anyType [0..30]<br/>                 Annotation: Details of the carriers declaration.</p>  |
|  |  | <p>../ns1:RU_Declarations/ns1:RU_Declaration/ns1:DeclaringRU<br/>                 Type: ns1:CompanyCode<br/>                 Annotation: Code of carrier, who added the declaration.</p>   |
|  |  | <p>../ns1:RU_Declarations/ns1:RU_Declaration/ns1:RU_DeclarationCode<br/>                 Type: restriction of xs:string<br/>                 Annotation: Carrier declaration code.</p>   |
|  |  | <p>../ns1:RU_Declarations/ns1:RU_Declaration/ns1:DeclarationText<br/>                 Type: [0..1]<br/>                 Annotation: Additional Text for codes with free text</p>   |
|  |  | <p>../ns1:COM/ns1:RU_Declarations/ns1:DifferentAcceptance<br/>                 Type: restriction of xs:anyType [0..1]<br/>                 Annotation: Details of the changes of the acceptance point given by the consignor.</p>            |
|  |  | <p>../ns1:RU_Declarations/ns1:DifferentAcceptance/ns1:DifferentAcceptancePoint<br/>                 Type: ns1:LocationIdent [0..1]<br/>                 Annotation: Variance of acceptance point given in structure AcceptancePoint.</p>     |
|  |  | <p>../ns1:RU_Declarations/ns1:DifferentAcceptance/ns1:DifferentAcceptanceDate<br/>                 Type: restriction of xs:dateTime [0..1]<br/>                 Annotation: Variance of acceptance date given structure AcceptancePoint.</p> |
|  |  | <p>../ns1:COMS/ns1:COM/ns1:Wagons<br/>                 Type: restriction of xs:anyType [1..99]<br/>                 Annotation: Content of the wagon</p>   |
| <p><a href="#">core.constant("112298765432")</a></p> | <p><i>direct</i><br/>                 Annotation:<br/>                 ! Wagon detail information is not available in MESPLAN as it is only planning !</p> | <p>../ns1:COM/ns1:Wagons/ns1:WagonNumberFreight<br/>                 Type: ns1:WagonIdent<br/>                 Annotation: Identifies uniquely the freight wagon by its number</p>   |
|  |  | <p>../ns1:COM/ns1:Wagons/ns1:WagonDetails<br/>                 Type: restriction of xs:anyType<br/>                 Annotation: Details for the specific wagon</p>   |
| <p><a href="#">core.constant("1")</a></p>            | <p><i>direct</i><br/>                 Annotation:<br/>                 ! Wagon detail information is not available in MESPLAN as it is only planning !</p> | <p>../ns1:Wagons/ns1:WagonDetails/ns1:LoadingStatus<br/>                 Type: restriction of xs:integer<br/>                 Annotation: Loading status of the equipment. 0=Empty, 1=Loaded</p>   |
|  |  | <p>../ns1:Wagons/ns1:WagonDetails/ns1:WagonInfo<br/>                 Type: restriction of xs:string [0..1]<br/>                 Annotation: Additional information, concerning the goods of the whole wagon.</p>                             |
|  |  | <p>../ns1:Wagons/ns1:WagonDetails/ns1:WagonTypeDetails<br/>                 Type: restriction of xs:anyType [0..1]<br/>                 Annotation: These elements are only needed, if the wagon has to be treated as CUV (empty wagon).</p> |
|  |  | <p>../ns1:Wagons/ns1:WagonDetails/ns1:TotalWeight<br/>                 Type: ns1:WeightValueKilo [0..1]<br/>                 Annotation: Total weight of the loaded wagon [kg].</p>  |
|  |  | <p>../ns1:Wagons/ns1:WagonDetails/ns1:LoadLimit<br/>                 Type: restriction of xs:decimal [0..1]<br/>                 Annotation: Load limit from table of load limits in [t].</p>  |
|  |  | <p>../ns1:Wagons/ns1:WagonDetails/ns1:Seals<br/>                 Type: restriction of xs:anyType [0..1]<br/>                 Annotation: Describes the seals used for the consignment</p>  |
|  |  | <p>../ns1:Wagons/ns1:WagonDetails/ns1:Ship<br/>                 Type: restriction of xs:anyType [0..1]<br/>                 Annotation: Additional information for transports, which shall be handed over to a ship</p>                      |
|  |  | <p>../ns1:Wagons/ns1:WagonDetails/ns1:DeliveryReference<br/>                 Type: restriction of xs:string [0..1]</p>   |
|  |  | <p>../ns1:Wagons/ns1:WagonDetails/ns1:OriginCountry<br/>                 Type: restriction of ns1:CountryIdentISO [0..1]<br/>                 Annotation: Code of origin country of the UTI.CODE: ISO-3166-2</p>                             |
|  |  | <p>../ns1:Wagons/ns1:WagonDetails/ns1:ExceptionalConsignment<br/>                 Type: restriction of xs:anyType [0..10]</p>  |

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|  |   | Annotation: Exceptional Consignment   |
|  |   | ../ns1:Wagons/ns1:WagonDetails/ns1:ShuntingModalLabel<br>Type: restriction of xs:token [0..1]<br>Annotation: Shunting modal label according to chapter 5.3.4 RID  |
|  |   | ../ns1:Wagons/ns1:WagonDetails/ns1:ReferenceNumbers<br>Type: restriction of xs:anyType [0..1]<br>Annotation: This element contains references according to NCTS or EMCS law.This element MUST NOT be empty!   |
|  |   | ../ns1:COM/ns1:Wagons/ns1:SummaryOFGoodsWithSameRID<br>Type: restriction of xs:anyType [0..25]<br>Annotation: This element is only in use if the consignment includes more than one good with the same UN-Number in , packing group and proper shipping name in the wagon. The added amount of the dangerous goods are to be stored here  |
|  |   | ../ns1:COM/ns1:Wagons/ns1>LoadingTackles<br>Type: restriction of xs:anyType [0..99]<br>Annotation: Describes the loading tackles used inside the wagon  |
|  |   | ../ns1:COM/ns1:Wagons/ns1:Goods<br>Type: restriction of xs:anyType [0..99]<br>Annotation: Describes the goods inside the means of transport   |
|  |   | ../ns1:Wagons/ns1:Goods/ns1>NoGoodsOfClassX<br>Type: restriction of xs:string [0..1]<br>Annotation: Element has to be filled with the class of the dangerous goods which are mentioned in Table 3.2 RID but are not dangerous according to chapter 2 (5.4.1.5 RID)  |
|  |   | ../ns1:Wagons/ns1:Goods/ns1:RID<br>Type: restriction of xs:anyType [0..1]<br>Annotation: The requirement (optional/mandatory) of the RID detail tags depend on the dangerous good and the regarding RID regulations.In contrast to the element "DangerousGoodsIndication" which only provides information to be provided to the IM according to chapter 1.4 RID, "RID" contains all information demanded in chapter 5.4 RID in order tpo provide all information used for RUs |
|  |   | ../ns1:Wagons/ns1:Goods/ns1:Packing<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Packing information  |
| ../PLAN/PEREVEZ/@etsng<br>Type: restriction of xs:int<br>Annotation: код груза по EТCHB  | direct<br>Annotation:<br>! Mapping table between EТCHГ and NHM must be elaborated ! | ../ns1:Wagons/ns1:Goods/ns1:NHM_Code<br>Type: ns1:NHMCodeType [0..1]<br>Annotation: NHM code of the good  |
|  |   | ../ns1:Wagons/ns1:Goods/ns1:PreviousLoadedGood<br>Type: ns1:NHMCodeType [0..1]  |
|  |   | ../ns1:Wagons/ns1:Goods/ns1:GoodsDescription<br>Type: ns1:FreeText [0..1]<br>Annotation: This element describes the goods of the shipment as free text  |
|  |   | ../ns1:Wagons/ns1:Goods/ns1:AdditionalGoodInformation<br>Type: restriction of xs:string [0..1]<br>Annotation: Additional information regarding the loaded good, given by the customer.  |
| ../PLAN/PEREVEZ/@so ves<br>Type: restriction of xs:byte<br>Annotation: согласованный вес | direct  | ../ns1:Wagons/ns1:Goods/ns1:GrossWeight<br>Type: ns1:WeightValueKilo<br>Annotation: Total weight of the goods either in a wagon or a transportation unit. It is the booked weight of the goods including packing  |
|  |   | ../ns1:Wagons/ns1:Goods/ns1:HS_Code<br>Type: restriction of xs:string [0..1]<br>Annotation: HS-Code for sensible goods (appendix 44c of ccip) 10 digits are needed, if a good code was already assigned for 'Zollanmeldung'. In this case this good code has to be taken. These good codes may have more than 6 digits.   |
|  |   | ../ns1:Wagons/ns1:Goods/ns1:EWC_Key<br>Type: restriction of xs:string [0..1]<br>Annotation: Numeric key according to the European Waste CatalogueCODE: European waste catalogue (EWC) 2000/532/EC   |
|  |   | ../ns1:COM/ns1:Wagons/ns1:ITU<br>Type: restriction of xs:anyType [0..25]<br>Annotation: Describes the type and content of an IntermodalTransportUnit  |
|  |   | ../ns1:COM/ns1:Wagons/ns1:RollingRoadUnit<br>Type: restriction of xs:anyType [0..5]   |

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|--|---|
|  | Annotation: Describes the type and content of a Rolling road unit   |
|  | ../ns1:COMS/ns1:COM/ns1:WagonPreviousNumberFreight<br>Type: restriction of xs:string [0..20]<br>Annotation: Identifies the previous freight wagon if a shipment or Intermodal unit has changed the wagon during its journey |
|  | ../ns1:COMS/ns1:COM/ns1:ReferenceOriginalCN<br>Type: restriction of xs:string [0..1]<br>Annotation: Reference to the original consignment note between lead RU/contractual carrier and consignor                            |
|  | ../ns1:COMS/ns1:COM/ns1:AgreedTimeOfDelivery<br>Type: xs:dateTime [0..1]<br>Annotation: The requested Date and Time for the delivery of a wagon/shipment or Intermodal units at customer sidings                            |

### Remaining components

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| <b>core.node-name</b> (MESPLAN UZ 01 -> lang.left) |   |
| node ( <a href="#">MESPLAN UZ 01.UZ-XDOC</a> )     | name ( <a href="#">lang.left.string</a> ) |

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|--|---|
| <b>lang.left</b> (core.node-name, core.constant -> core.value-map)                           |   |
| string ( <a href="#">core.node-name.name</a> )<br>number ( <a href="#">core.constant.2</a> ) | result ( <a href="#">core.value-map.input</a> ) |

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|--|--|
| <b>core.value-map</b> (lang.left -> taf_cat_complete_baseline_2.1.xmd) |  |
| input ( <a href="#">lang.left.result</a> )                             | result ( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:Sender</a> ,<br><a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:SendingRU</a> ,<br><a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:LeadRU</a> ) |
| <b>From</b>  | <b>To</b>  |
| UZ   | 0022   |

|   |   |
|---|---|
| <b>lang.left</b> (MESPLAN UZ 01, core.constant -> core.concat)                                    |   |
| string ( <a href="#">MESPLAN UZ 01.month_plan</a> )<br>number ( <a href="#">core.constant.4</a> ) | result ( <a href="#">core.concat.value1</a> ) |

|  |   |
|--|---|
| <b>core.substring</b> (MESPLAN UZ 01, core.constant, core.constant -> core.concat)   |   |
| string ( <a href="#">MESPLAN UZ 01.month_plan</a> )<br>start ( <a href="#">core.constant.5</a> )<br>length ( <a href="#">core.constant.2</a> ) | result ( <a href="#">core.concat.value3</a> ) |

|  |   |
|--|---|
| <b>core.value-map</b> (MESPLAN UZ 01 -> taf_cat_complete_baseline_2.1.xmd) |   |
| input ( <a href="#">MESPLAN UZ 01.name_abonent</a> )                       | result ( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:Recipient</a> ,<br><a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:ReceivingRU</a> ) |
| <b>From</b>  | <b>To</b>   |
| ACK ВП УЗ-Э (зав.ЧД)   | 0022  |

|   |  |
|---|--|
| <b>core.concat</b> (lang.left, core.constant, core.substring, core.constant -> taf_cat_complete_baseline_2.1.xmd) |  |
| value1 ( <a href="#">lang.left.result</a> )<br>value2 ( <a href="#">core.constant."-"</a> )                       | result ( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:MessageDateTime</a> ) |

|  |  |
|--|--|
| value3 ( <a href="#">core.substring.result</a> )       |  |
| value4 ( <a href="#">core.constant."-"</a> )           |  |
| value5 ( <a href="#">core.constant."01T10:00:00"</a> ) |  |

|  |   |
|--|---|
| <b>core.value-map</b> (MESPLAN UZ 01 -> taf_cat_complete_baseline_2.1.xmd) |   |
| input ( <a href="#">MESPLAN UZ 01.stran_otpr</a> )                         | result ( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:CountryCodeISO</a> ) |
| <b>From</b>  | <b>To</b>   |
| 804  | 0022  |
| 112  | 0021  |

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|--|--|
| <b>lang.left</b> (MESPLAN UZ 01, core.constant -> taf_cat_complete_baseline_2.1.xmd) |  |
| string ( <a href="#">MESPLAN UZ 01.esr_otpr</a> )                                    | result ( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:LocationPrimaryCode</a> ) |
| number ( <a href="#">core.constant.5</a> )   |  |

|  |   |
|--|---|
| <b>core.value-map</b> (MESPLAN UZ 01 -> taf_cat_complete_baseline_2.1.xmd) |   |
| input ( <a href="#">MESPLAN UZ 01.vid_plan</a> )                           | result ( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:ConsignmentOrderType</a> ) |
| <b>From</b>  | <b>To</b>   |
| 1  | ORU   |
| 2  | ORX   |

|  |   |
|--|---|
| <b>lang.left</b> (MESPLAN UZ 01, core.constant -> core.concat) |   |
| string ( <a href="#">MESPLAN UZ 01.month_plan</a> )            | result ( <a href="#">core.concat.value1</a> ) |
| number ( <a href="#">core.constant.4</a> )                     |   |

|   |   |
|---|---|
| <b>core.substring</b> (MESPLAN UZ 01, core.constant -> core.concat) |   |
| string ( <a href="#">MESPLAN UZ 01.month_plan</a> )                 | result ( <a href="#">core.concat.value3</a> ) |
| start ( <a href="#">core.constant.5</a> )                           |   |

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|--|---|
| <b>core.value-map</b> (MESPLAN UZ 01 -> taf_cat_complete_baseline_2.1.xmd) |   |
| input ( <a href="#">MESPLAN UZ 01.stran_prib</a> )                         | result ( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:CountryCodeISO</a> ) |
| <b>From</b>  | <b>To</b>   |
| 804  | 0022  |
| 112  | 0021  |

|   |  |
|---|--|
| <b>core.concat</b> (lang.left, core.constant, core.substring, core.constant -> taf_cat_complete_baseline_2.1.xmd) |  |
| value1 ( <a href="#">lang.left.result</a> )   | result ( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:COM_PreparationDatetime</a> ) |
| value2 ( <a href="#">core.constant."-"</a> )  |  |
| value3 ( <a href="#">core.substring.result</a> )  |  |
| value4 ( <a href="#">core.constant."-"</a> )  |  |
| value5 ( <a href="#">core.constant."01T10:00:00"</a> )  |  |

**Constants**

|   |      |
|---|------|
| <b>core.constant</b> (-> taf_cat_complete_baseline_2.1.xmd) |      |
| Value   | 9999 |

|   |   |
|---|---|
| <b>core.constant</b> (-> lang.left, core.substring) |   |
| Value   | 2 |

|  |   |
|--|---|
| <b>core.constant</b> (-> core.substring) |   |
| Value                                    | 5 |

|                                     |   |
|-------------------------------------|---|
| <b>core.constant</b> (-> lang.left) |   |
| Value                               | 4 |

|                                       |   |
|---------------------------------------|---|
| <b>core.constant</b> (-> core.concat) |   |
| Value                                 | - |

|                                       |             |
|---------------------------------------|-------------|
| <b>core.constant</b> (-> core.concat) |             |
| Value                                 | 01T10:00:00 |

|  |   |
|--|---|
| <b>core.constant</b> (-> core.substring) |   |
| Value                                    | 5 |

|                                     |   |
|-------------------------------------|---|
| <b>core.constant</b> (-> lang.left) |   |
| Value                               | 5 |

|   |    |
|---|----|
| <b>core.constant</b> (-> taf_cat_complete_baseline_2.1.xmd) |    |
| Value   | CE |

|                                     |   |
|-------------------------------------|---|
| <b>core.constant</b> (-> lang.left) |   |
| Value                               | 4 |

|   |   |
|---|---|
| <b>core.constant</b> (-> taf_cat_complete_baseline_2.1.xmd) |   |
| Value   | 1 |

|                                       |   |
|---------------------------------------|---|
| <b>core.constant</b> (-> core.concat) |   |
| Value                                 | - |

|                                       |             |
|---------------------------------------|-------------|
| <b>core.constant</b> (-> core.concat) |             |
| Value                                 | 01T10:00:00 |

|   |              |
|---|--------------|
| <b>core.constant</b> (-> taf_cat_complete_baseline_2.1.xmd) |              |
| Value   | 112298765432 |

Mapping documentation generated by [Mapforce](http://www.altova.com/mapforce) Graphical data mapping tool <http://www.altova.com/mapforce>

### 3. Трансформация из сообщения ОСЖД УЗ 616 XML о данных накладных в сообщение ТАФ ТСИ XML о заказе на перевозку / Mapping from the OSJD IFTMIN UZ 616 XML message on consignment data to the TAF TSI XML “ConsignmentOrderMessage”

Ссылки / References :

|   |  |
|---|--|
| Внутренняя ссылка ЕЖДА файла сопоставления / Internal ERA reference of the mapping file | 2019_05_06-616 XML-UZ-ПКР Cargo prikklad transformed.mfd |
| Дата окончательного сопоставления / Date of the final mapping                           | 17/02/2020   |
| Описания данных   | 2019_05_06-616 XM-УЗ-ЧФР Марфа опис.docx                 |
| Data descriptions   | 2019_05_06-616 XM-УЗ-ЧФР Марфа опис.docx                 |

Output **taf\_cat\_complete** ([taf\\_cat\\_complete.xsd](#))

| Connections   |   | Nodes  |
|---|---|--|
|   |   | File: taf_cat_complete.xml<br>Type: string   |
| <a href="#">UZ-XDOC</a><br>Type: restriction of xs:anyType [0..1] | <i>direct</i>   | TrainCompositionMessage<br>Type: restriction of xs:anyType [0..1]<br>Annotation: This message is sent from an RU to an IM defining the composition of the proposed train.  |
|   |   | TrainCompositionMessage/MessageHeader<br>Type: restriction of xs:anyType<br>Annotation: Used for all messages  |
|   |   | TrainCompositionMessage/MessageHeader/MessageReference<br>Type: restriction of xs:anyType<br>Annotation: This element identifies the message   |
| <a href="#">UZ-XDOC/HEAD/@messcode</a><br>Type: xs:short          | <a href="#">core.value-map =&gt; input   result =&gt;</a> | ../MessageHeader/MessageReference/MessageType<br>Type: restriction of xs:integer<br>Annotation: To indicate the message type transmitted or referred to. The following list was agreed within the sector:<br>2001 PathCanceledMessage<br>2002 PathConfirmedMessage<br>2003 PathDetailsMessage<br>2004 PathDetailsRefusedMessage<br>2005 PathNotAvailableMessage<br>2006 PathRequestMessage<br>2007 ReceiptConfirmationMessage<br>3001 TrainAcceptedMessage<br>3002 TrainAtStartMessage<br>3003 TrainCompositionMessage<br>3004 TrainNotSuitableMessage<br>3005 TrainPositionMessage<br>3006 TrainReadyMessage<br>4001 TrainDelayCauseMessage<br>4002 TrainDelayPerformanceMessage<br>4003 TrainForecastAtReportingLocationMessage<br>4004 TrainRunningForecastMessage<br>4005 TrainRunningInformationMessage<br>4006 TrainRunningInterruptionMessage<br>5001 AlertMessage<br>5002 WagonArrivalNoticeMessage<br>5003 WagonDeliveryNoticeMessage<br>5004 WagonDepartureNoticeMessage<br>5005 WagonDeviationMessage |

|  |  |   |
|--|--|---|
|  |  | <p>5006 WagonETI_ETA_Message<br/>                     5007 WagonExceptionMessage<br/>                     5008 WagonExceptionReasonMessage<br/>                     5009 WagonInterchangeNoticeMessage<br/>                     5010 WagonInterchangeSubNoticeMessage<br/>                     5011 WagonOrderMessage<br/>                     5012 WagonReceivedAtInterchangeMessage<br/>                     5013 WagonRefusedAtInterchangeMessage<br/>                     5014 WagonReleaseNoticeMessage<br/>                     5015 WagonYardArrivalMessage<br/>                     5016 WagonYardDepartureMessage<br/>                     6001 IRN_DatasetMessage<br/>                     6002 LocationFileDatasetMessage<br/>                     6003 RollingStockDatasetMessage</p> |
| <a href="#">UZ-XDOC/BODY/@version</a><br>Type: xs:byte | direct   | <p>.../MessageHeader/MessageReference/MessageTypeVersion<br/>                     Type: restriction of xs:string<br/>                     Annotation: Version of the Message Type</p>   |
| <a href="#">UZ-XDOC/HEAD/@uniqkey</a><br>Type: xs:byte | direct   | <p>.../MessageHeader/MessageReference/MessageIdentifier<br/>                     Type: FreeText<br/>                     Annotation: Identification of the Message</p>  |
| <a href="#">UZ-XDOC/BODY/@dt</a><br>Type: xs:dateTime  | direct   | <p>.../MessageHeader/MessageReference/MessageDateTime<br/>                     Type: xs:dateTime<br/>                     Annotation: Generated by the common Interface</p>   |
|  |  | <p>TrainCompositionMessage/MessageHeader/MessageRoutingID<br/>                     Type: Numeric2-2 [0..1]<br/>                     Annotation: Additional information used to route the message to the correct receiving application (if needed)</p>   |
|  |  | <p>TrainCompositionMessage/MessageHeader/SenderReference<br/>                     Type: FreeText [0..1]<br/>                     Annotation: reference used by the sender (e.g. FTP file name)</p>  |
| <a href="#">core.constant(1151)</a>                    | <p>direct<br/>                     Annotation:<br/>                     ! In 616 XML it is called "CHANGE"<br/>                     Служебный атрибут автоматизированных систем УЗ / Service attribute of automated UZ systems</p> | <p><a href="#">TrainCompositionMessage/MessageHeader/Sender</a><br/>                     Type: extension of CompanyCode<br/>                     Annotation: The sender of the message</p>  |
|  |  | <p>.../MessageHeader/Sender/@CI_InstanceNumber<br/>                     Type: Numeric2-2 [0..1]<br/>                     Annotation: Number of a Common Interface Instance for the same Company</p>   |
| <a href="#">core.constant(0022)</a>                    | <p>direct<br/>                     Annotation:<br/>                     ! In 616 XML it is called "TIGER"<br/>                     Служебный атрибут автоматизированных систем УЗ / Service attribute of automated UZ systems</p>  | <p><a href="#">TrainCompositionMessage/MessageHeader/Recipient</a><br/>                     Type: extension of CompanyCode<br/>                     Annotation: Receiver of the message</p>   |
|  |  | <p>.../MessageHeader/Recipient/@CI_InstanceNumber<br/>                     Type: Numeric2-2 [0..1]<br/>                     Annotation: Number of a Common Interface Instance for the same Company</p>  |
| <a href="#">core.constant(1)</a>                       | <p>direct<br/>                     Annotation:<br/>                     ! This information is not in 616 XML</p>   | <p><a href="#">TrainCompositionMessage/MessageStatus</a><br/>                     Type:<br/>                     Annotation: Assigned by the Sender 1=creation, 2=modification, 3=deletion</p>  |
|  |  | <p>TrainCompositionMessage/TransportOperationalIdentifiers<br/>                     Type: extension of CompositIdentifierOperationalType [0..∞]</p>   |
|  |  | <p>TrainCompositionMessage/TransportOperationalIdentifiers/ObjectType<br/>                     Type: restriction of xs:string<br/>                     Annotation: Provides a possibility for differentiation between the objects: Train, Path, Case Reference and Path Request</p>   |
|  |  | <p>TrainCompositionMessage/TransportOperationalIdentifiers/Company<br/>                     Type: CompanyCode<br/>                     Annotation: Identifies a railway company (RU or IM)</p>  |



|   |   |  |
|---|---|--|
|   |   | TrainCompositionMessage/TransportOperationalIdentifiers/Core<br>Type: restriction of xs:string<br>Annotation: It is the main part of identifier and is determined by the company that creates it.  |
|   |   | TrainCompositionMessage/TransportOperationalIdentifiers/Variant<br>Type: restriction of xs:string<br>Annotation: The variant shows a relationship between two identifiers referring to the same business case  |
|   |   | TrainCompositionMessage/TransportOperationalIdentifiers/TimetableYear<br>Type: restriction of xs:integer<br>Annotation: Refers to the timetable period in which the business will be carried out   |
|   |   | TrainCompositionMessage/TransportOperationalIdentifiers/StartDate<br>Type: xs:date<br>Annotation: The start of the date/time in effect   |
|   |   | TrainCompositionMessage/OperationalTrainNumberIdentifier<br>Type: restriction of xs:anyType  |
| <a href="#">../BODY/TRAIN/@train_number</a><br>Type: xs:short               | direct  | TrainCompositionMessage/OperationalTrainNumberIdentifier/OperationalTrainNumber<br>Type: String1-8<br>Annotation: Identifies the train for traffic management purposes by the Dispatcher, GSMR services, etc.  |
|   |   | TrainCompositionMessage/OperationalTrainNumberIdentifier/ScheduledTimeAtHandover<br>Type: xs:dateTime [0..1]<br>Annotation: The scheduled departure date and time or the scheduled handover date and time at the border between two different IMs.                           |
| <a href="#">../BODY/TRAIN/@planned_border_crossing</a><br>Type: xs:dateTime | direct  | TrainCompositionMessage/OperationalTrainNumberIdentifier/ScheduledDateTimeAtTransfer<br>Type: xs:dateTime [0..1]<br>Annotation: The scheduled arrival at destination date and time or the scheduled outgoing transfer date and time at the border between two different IMs. |
| <a href="#">../BODY/TRAIN/@train_number</a><br>Type: xs:short               | direct  | TrainCompositionMessage/OperationalTrainNumber<br>Type: String1-8<br>Annotation: Identifies the train for traffic management purposes by the Dispatcher, GSMR services, etc.   |
|   |   | TrainCompositionMessage/ReferenceOTN<br>Type: restriction of xs:anyType [0..1]   |
|   |   | TrainCompositionMessage/ReferenceOTN/OperationalTrainNumberIdentifier<br>Type: restriction of xs:anyType   |
|   |   | TrainCompositionMessage/TransferPoint<br>Type: LocationIdent [0..1]<br>Annotation: Transfer point or station of destination in the considered network  |
|   |   | TrainCompositionMessage/TransfereeIM<br>Type: CompanyCode [0..1]<br>Annotation: Next IM  |
|   |   | TrainCompositionMessage/TrainCompositionJourneySection<br>Type: restriction of xs:anyType [1..99]<br>Annotation: Defines the make up of a train for each section of its journey  |
|   |   | TrainCompositionMessage/TrainCompositionJourneySection/JourneySection<br>Type: restriction of xs:anyType<br>Annotation: Defines the data provided by the IM for a journey section  |
|   |   | ../TrainCompositionJourneySection/JourneySection/JourneySectionOrigin<br>Type: LocationIdent<br>Annotation: Indication of the Railway or Customer Location   |
| <a href="#">../BODY/TRAIN/@forwarding_company</a><br>Type: xs:byte          | <a href="#">core.value =&gt; input   result =&gt;</a> | ../JourneySection/JourneySectionOrigin/CountryCodeISO<br>Type: extension of CountryIdentISO<br>Annotation: Identifies a Country or State by code (ISO 3166-1)  |
| <a href="#">../BODY/TRAIN/@forwarding_station</a><br>Type: xs:int           | <a href="#">lang.left =&gt; string   result =&gt;</a> | ../JourneySection/JourneySectionOrigin/LocationPrimaryCode<br>Type: Numeric1-5   |
| <a href="#">core.constant(5)</a>  | <a href="#">lang.left =&gt; number   result =&gt;</a> |  |
|   |   | ../JourneySection/JourneySectionOrigin/PrimaryLocationName<br>Type: FreeText [0..1]<br>Annotation: Location Name in an official language of the Country using the ISO Unicode alphabet   |

|  |   |  |
|--|---|--|
|  |   | <p>.../JourneySection/JourneySectionOrigin/LocationSubsidiaryIdentification<br/>                 Type: restriction of xs:anyType [0..1]<br/>                 Annotation: Code, Name and allocation company of Subsidiary Location</p>  |
|  |   | <p>.../TrainCompositionJourneySection/JourneySection/JourneySectionDestination<br/>                 Type: LocationIdent<br/>                 Annotation: Indication of the Railway or Customer Location</p>  |
| <p>.../BODY/TRAIN/@destination_comp<br/>                 any<br/>                 Type: xs:short</p> | <p>core.valu<br/>                 e-map =&gt;<br/>                 input  <br/>                 result =&gt;</p>  | <p>.../JourneySection/JourneySectionDestination/CountryCodeISO<br/>                 Type: extension of CountryIdentISO<br/>                 Annotation: Identifies a County or State by code (ISO 3166-1)</p>  |
| <p>.../BODY/TRAIN/@destination_station<br/>                 Type: xs:int</p>                         | <p>lang.left<br/>                 =&gt; string<br/>                   result<br/>                 =&gt;</p>   | <p>.../JourneySection/JourneySectionDestination/LocationPrimaryCode<br/>                 Type: Numeric1-5</p>  |
| <p>core.constant(5)</p>  | <p>lang.left<br/>                 =&gt;<br/>                 number  <br/>                 result =&gt;</p>   |  |
|  |   | <p>.../JourneySection/JourneySectionDestination/PrimaryLocationName<br/>                 Type: FreeText [0..1]<br/>                 Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet</p>  |
|  |   | <p>.../JourneySection/JourneySectionDestination/LocationSubsidiaryIdentification<br/>                 Type: restriction of xs:anyType [0..1]<br/>                 Annotation: Code, Name and allocation company of Subsidiary Location</p>   |
|  |   | <p>.../TrainCompositionJourneySection/JourneySection/ResponsibilityActualSection<br/>                 Type: restriction of xs:anyType<br/>                 Annotation: This element identifies the responsible RU or IM for the actual path section</p>  |
| <p>.../BODY/TRAIN/@forwarding_comp<br/>                 any<br/>                 Type: xs:byte</p>   | <p>direct<br/>                 Annotation:<br/>                 n:<br/>                 ! To check<br/>                 if this<br/>                 mapping<br/>                 is correct<br/>                 Да, верно<br/>                 / Yes<br/>                 correct</p> | <p>.../JourneySection/ResponsibilityActualSection/ResponsibleRU<br/>                 Type: CompanyCode<br/>                 Annotation: RU Responsible for the physical operation of the train or wagon</p>  |
| <p>.../BODY/TRAIN/@forwarding_comp<br/>                 any<br/>                 Type: xs:byte</p>   | <p>direct<br/>                 Annotation:<br/>                 n:<br/>                 ! To check<br/>                 if this<br/>                 mapping<br/>                 is correct</p>  | <p>.../JourneySection/ResponsibilityActualSection/ResponsibleIM<br/>                 Type: CompanyCode<br/>                 Annotation: IM Responsible for Reporting.<br/>                 For Path Requests, this element has to be used<br/>                 - in the first journey location (origin of train)<br/>                 - in journey locations (could even be a network border without stopping of the train)<br/>                 in case where the IM on the oncoming section changes from the legal point of view.<br/>                 This means, the new IM has the legal responsibility for the oncoming section.</p> |
|  |   | <p>.../TrainCompositionJourneySection/JourneySection/ResponsibilityNextSection<br/>                 Type: restriction of xs:anyType<br/>                 Annotation: This element identifies the responsible RU and IM for the following path section</p>  |
| <p>.../BODY/TRAIN/@destination_comp<br/>                 any<br/>                 Type: xs:short</p> | <p>direct<br/>                 Annotation:<br/>                 n:<br/>                 ! To check<br/>                 if this<br/>                 mapping<br/>                 is correct<br/>                 Да, верно<br/>                 / Yes<br/>                 correct</p> | <p>.../JourneySection/ResponsibilityNextSection/ResponsibleRU<br/>                 Type: CompanyCode<br/>                 Annotation: RU Responsible for the physical operation of the train or wagon</p>  |
| <p>.../BODY/TRAIN/@destination_comp<br/>                 any<br/>                 Type: xs:short</p> | <p>direct<br/>                 Annotation:<br/>                 n:<br/>                 ! No<br/>                 distinction<br/>                 between<br/>                 RU and</p>  | <p>.../JourneySection/ResponsibilityNextSection/ResponsibleIM<br/>                 Type: CompanyCode<br/>                 Annotation: IM Responsible for Reporting.<br/>                 For Path Requests, this element has to be used<br/>                 - in the first journey location (origin of train)<br/>                 - in journey locations (could even be a network border without stopping of the train)<br/>                 in case where the IM on the oncoming section changes from the legal point of view.<br/>                 This means, the new IM has the legal responsibility for the oncoming section.</p>   |

|   |  |  |
|---|--|--|
|   | <b>IM</b>  |  |
|   |  | TrainCompositionMessage/TrainCompositionJourneySection/TrainRunningData<br>Type: restriction of xs:anyType<br>Annotation: Train relevant data for a running train  |
|   |  | .../TrainCompositionJourneySection/TrainRunningData/TrainRunningTechData<br>Type: restriction of xs:anyType<br>Annotation: Shows the relevant technical data for a running train   |
| <a href="#">core.constant(2)</a>                                      | <i>direct</i>  | .../TrainRunningData/TrainRunningTechData/TrainType<br>Type:<br>Annotation:<br>1 Passenger train Commercial train with passenger coaches or trainsets<br>Empty run of Train with passenger coaches or trainsets<br>Including Crew train (for Train Crew Members)<br>2 Freight train Train with freight wagons<br>3 Light engine (locomotive train) One or more engines without any carriages<br>4 Engineering train Train for measurement, maintenance, instructions, homologation, etc<br>0 Other Train types that are not covered with the four codes given above can be codified as "other" in the messages<br>Passenger with Freight - military trains, the Overnight Express; Royalty, Head of States |
| <a href="#">UZ-XDOC/BODY/TRAIN</a><br>Type: restriction of xs:anyType | <a href="#">core.sum =&gt; parent-context   result =&gt;</a>   | .../TrainRunningData/TrainRunningTechData/TrainWeight<br>Type:<br>Annotation: The sum of all weights of wagons and traction units  |
| <a href="#">.../TRAIN/WAGON/@tare</a><br>Type: xs:short               | <a href="#">core.add =&gt; value1   result =&gt;</a><br><a href="#">core.sum =&gt; values   result =&gt;</a>       |  |
| <a href="#">.../TRAIN/WAGON/@weight_of_load</a><br>Type: xs:byte      | <a href="#">core.add =&gt; value2   result =&gt;</a><br><a href="#">core.sum =&gt; values   result =&gt;</a>       |  |
| <a href="#">core.constant(675)</a>                                    | <i>direct</i><br>Annotation:<br>! This information is not in 616 XML<br>Да, отсутствует / Yes, it is missing there | <a href="#">.../TrainRunningData/TrainRunningTechData/TrainLength</a><br>Type: Numeric4-4<br>Annotation: The calculated Length of a train (sum of all length over buffer of the wagons and traction units). Expressed in Metres  |
|   |  | .../TrainRunningData/TrainRunningTechData/TrainCC_System<br>Type: xs:token [0..9]<br>Annotation: Type of Train Control System. The following types are used:<br>CCS TSI Class A:<br><br>ETCS Level 0<br>ETCS Level NSC<br>ETCS Level 1<br>ETCS Level 2<br>ETCS Level 3<br><br>ERA/TD/2011-11, Class B:<br>PZB<br>LZB<br>Crocodile<br>TBL 1<br>TBL 2<br>TVM 430TBL1+<br>EBICAB 700<br>LS<br>ZUB 123<br>ALSN<br>ATP-VR/RHK<br>KVB<br>TVM 300<br>TVM 430  |

|    |  |    |         |    |         |    |     |   |     |    |     |    |     |    |     |    |     |    |       |
|----|--|----|---------|----|---------|----|-----|---|-----|----|-----|----|-----|----|-----|----|-----|----|-------|
|    | <p>KVBP<br/>KCVP<br/>KCVB<br/>NEXTEO<br/>DAAT<br/>EVM<br/>CAWS<br/>ATP<br/>BACC<br/>RSDD/SCMT<br/>SSC<br/>MEMOR II+<br/>SHP<br/>PKP<br/>ASFA<br/>EBICAB 900<br/>SELCAB<br/>SIGNUM<br/>ZUB<br/>ATB 1st Gen<br/>ATB Next Gen<br/>GW ATP<br/>RETB<br/>TPWS</p> <p>UIC Leaflet 407-1 Codes (legacy) are covered in the ERA/TD/2011-11:</p> <table border="0"> <tr><td>91</td><td>ETCS L1</td></tr> <tr><td>92</td><td>ETCS L2</td></tr> <tr><td>51</td><td>PZB</td></tr> <tr><td>3</td><td>LZB</td></tr> <tr><td>22</td><td>KVB</td></tr> <tr><td>52</td><td>EVM</td></tr> <tr><td>11</td><td>ZUB</td></tr> <tr><td>31</td><td>ATB</td></tr> <tr><td>32</td><td>ATBNG</td></tr> </table> | 91 | ETCS L1 | 92 | ETCS L2 | 51 | PZB | 3 | LZB | 22 | KVB | 52 | EVM | 11 | ZUB | 31 | ATB | 32 | ATBNG |
| 91 | ETCS L1  |    |         |    |         |    |     |   |     |    |     |    |     |    |     |    |     |    |       |
| 92 | ETCS L2  |    |         |    |         |    |     |   |     |    |     |    |     |    |     |    |     |    |       |
| 51 | PZB  |    |         |    |         |    |     |   |     |    |     |    |     |    |     |    |     |    |       |
| 3  | LZB  |    |         |    |         |    |     |   |     |    |     |    |     |    |     |    |     |    |       |
| 22 | KVB  |    |         |    |         |    |     |   |     |    |     |    |     |    |     |    |     |    |       |
| 52 | EVM  |    |         |    |         |    |     |   |     |    |     |    |     |    |     |    |     |    |       |
| 11 | ZUB  |    |         |    |         |    |     |   |     |    |     |    |     |    |     |    |     |    |       |
| 31 | ATB  |    |         |    |         |    |     |   |     |    |     |    |     |    |     |    |     |    |       |
| 32 | ATBNG  |    |         |    |         |    |     |   |     |    |     |    |     |    |     |    |     |    |       |
|    | <p>.../TrainRunningData/TrainRunningTechData/TrainRadioSystem<br/>Type: restriction of xs:token [0..9]<br/>Annotation: The on board radio system of the train in coded format</p>  |    |         |    |         |    |     |   |     |    |     |    |     |    |     |    |     |    |       |
|    | <p>.../TrainRunningData/TrainRunningTechData/TrainMaxSpeed<br/>Type: Speed [0..1]<br/>Annotation: The max. possible speed of a train in km/h</p>   |    |         |    |         |    |     |   |     |    |     |    |     |    |     |    |     |    |       |
|    | <p>.../TrainRunningData/TrainRunningTechData/MaxAxleWeight<br/>Type: restriction of xs:decimal [0..1]<br/>Annotation: Indicates the maximum design axle weight (to).</p>   |    |         |    |         |    |     |   |     |    |     |    |     |    |     |    |     |    |       |
|    | <p>.../TrainRunningData/TrainRunningTechData/BrakeType<br/>Type: restriction of xs:token [0..1]<br/>Annotation: Type of braking system.<br/>additional:<br/>X For indication: brake system of the freight wagon out of order (actually / current)</p>  |    |         |    |         |    |     |   |     |    |     |    |     |    |     |    |     |    |       |
|    | <p>.../TrainRunningData/TrainRunningTechData/BrakeWeight<br/>Type: restriction of xs:int [0..1]<br/>Annotation: Shows the Braked mass of the wagon according to the type of the braking system, in Tonnes</p>  |    |         |    |         |    |     |   |     |    |     |    |     |    |     |    |     |    |       |
|    | <p>.../TrainRunningData/TrainRunningTechData/NumberOfVehicles<br/>Type: restriction of xs:integer [0..1]<br/>Annotation: The sum of number of wagons and number of traction units</p>  |    |         |    |         |    |     |   |     |    |     |    |     |    |     |    |     |    |       |
|    | <p>.../TrainRunningData/TrainRunningTechData/NumberOfAxles<br/>Type: restriction of xs:integer [0..1]<br/>Annotation: The sum of number of axles of all wagons and all traction units</p>  |    |         |    |         |    |     |   |     |    |     |    |     |    |     |    |     |    |       |
|    | <p>.../TrainCompositionJourneySection/TrainRunningData/ExceptionalGaugingInd<br/>Type: xs:boolean [0..1]<br/>Annotation: Indicates that an exceptional gauging is in the train or for the wagon - (true/false)</p>   |    |         |    |         |    |     |   |     |    |     |    |     |    |     |    |     |    |       |
|    | <p>.../TrainCompositionJourneySection/TrainRunningData/DangerousGoodsIndicator<br/>Type: xs:boolean [0..1]<br/>Annotation: Indicates whether Dangerous Goods are allowed (Yes/No Indicator) If "0", then no dangerous goods are allowed. If "1", then the restricted goods are described in DangerousGoodsIndication</p>   |    |         |    |         |    |     |   |     |    |     |    |     |    |     |    |     |    |       |

|      |  |       |   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
|------|--|-------|---|----|--|------|--|--|--|------|------------------|----|--|------|--------------|-------|---|------|-------------|-------|--|------|----------------|-------|---|------|--|----|---|------|---|----|---|------|---|-------|--|------|--------------|-------|---|------|--------------------|----|--------------------------------|------|--------------------|----|---------------------------|------|---------------|----|--|------|--------------------|----|--|------|--------------------|----|--|------|-------------------------------|----|--|------|--------------|----|--------------------------------|------|-------------|----|--------------------------------|------|--------------------|----|--|------|----------------------|----|--|------|----------|----|-----------------------------|------|------------------|----|--|------|---|----|--|------|--------------------|----|--|------|-------------------|----|--|------|-------------|----|---|------|--------------------------------|----|--|------|-----------------------------------|-------|--|------|---------------|----|--|------|-------------------|----|--|------|-----------------|----|--|------|----------------------------------|----|---|------|------------------------------|----|--|------|---------------------------|----|--|------|----------|----|---|------|---------|----|--|------|-------------------------|----|--|------|--------------------------------------|----|--|------|-------------------------------|----|---|------|---------------------------|----|--|------|----------------------------|----|--|------|---------------------------|----|--|------|---------------|----|----------------------------------|------|----------------------------------|----|--|------|-----------------------------------|----|-------------------|
|      | <p>.../TrainCompositionJourneySection/TrainRunningData/Activities<br/>                 Type: restriction of xs:anyType [0..99]</p>   |       |   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
|      | <p>.../TrainRunningData/Activities/TrainActivityType<br/>                 Type: restriction of xs:string<br/>                 Annotation: Indicates certain treatments or operations required for a train. If national codes are used, the first 2 position will be the ISO country code, followed by 00-99.</p> <table border="0"> <tr> <td>0001</td> <td>Commercial stop</td> <td>RU</td> <td></td> </tr> <tr> <td>0002</td> <td>Board/disembark passenger train, load/unload freight train</td> <td></td> <td></td> </tr> <tr> <td>0002</td> <td>Operational stop</td> <td>IM</td> <td>Stops needed by the IM (e.g. overpassing by another train)</td> </tr> <tr> <td>0003</td> <td>Service stop</td> <td>RU/IM</td> <td>Stops which are used for non-commercial activities (e.g. boarding of staff)</td> </tr> <tr> <td>0004</td> <td>System stop</td> <td>RU/IM</td> <td>allowing the RU to change a system (e.g. signalling system, safety system)</td> </tr> <tr> <td>0005</td> <td>Reversing stop</td> <td>RU/IM</td> <td>stop to enable train unit to run in the opposite direction (without change of engine)</td> </tr> <tr> <td>0006</td> <td>Stops for reversing move or driver change ends</td> <td>RU</td> <td>stop to enable train unit to run in the opposite direction (with using another engine at the other end of the train and change of driver)</td> </tr> <tr> <td>0007</td> <td>Stops for locomotive to run round train</td> <td>RU</td> <td>stop to enable train unit to run in the opposite direction (with using the same engine at the other end of the train)</td> </tr> <tr> <td>0008</td> <td>Technical check/inspection coaches/wagons</td> <td>RU/IM</td> <td>e.g. at origin or intermediate station:<br/>brake test, checking load</td> </tr> <tr> <td>0009</td> <td>Change gauge</td> <td>RU/IM</td> <td>continuation on a network with a different gauge with change of bogies or adaptation of the axles (F-&gt;E, SVE-&gt;FI)</td> </tr> <tr> <td>0010</td> <td>attach engine/unit</td> <td>RU</td> <td>Unit not previously in service</td> </tr> <tr> <td>0011</td> <td>detach engine/unit</td> <td>RU</td> <td>Unit no longer in service</td> </tr> <tr> <td>0012</td> <td>change engine</td> <td>RU</td> <td></td> </tr> <tr> <td>0013</td> <td>attach coach/wagon</td> <td>RU</td> <td></td> </tr> <tr> <td>0014</td> <td>detach coach/wagon</td> <td>RU</td> <td></td> </tr> <tr> <td>0015</td> <td>attach and detach coach/wagon</td> <td>RU</td> <td></td> </tr> <tr> <td>0016</td> <td>attach train</td> <td>RU</td> <td>Operational Train (in service)</td> </tr> <tr> <td>0017</td> <td>split train</td> <td>RU</td> <td>Operational Train (in service)</td> </tr> <tr> <td>0018</td> <td>Parking of vehicle</td> <td>RU</td> <td>e.g. need to park the train/composition midway for several hours</td> </tr> <tr> <td>0019</td> <td>Mail/parcel services</td> <td>RU</td> <td></td> </tr> <tr> <td>0020</td> <td>shunting</td> <td>RU</td> <td>actual activity of shunting</td> </tr> <tr> <td>0021</td> <td>shunting service</td> <td>RU</td> <td>Request for shunting service (if offered by the IM or a third party)</td> </tr> <tr> <td>0022</td> <td>Terminal service (terminal in the meaning of final destination)</td> <td>RU</td> <td>Request for services at the end of a train run (if offered by the IM or a third party)</td> </tr> <tr> <td>0023</td> <td>Loco driver change</td> <td>RU</td> <td></td> </tr> <tr> <td>0024</td> <td>Loco driver break</td> <td>RU</td> <td>legal issue, e.g. to respect working law</td> </tr> <tr> <td>0025</td> <td>Crew change</td> <td>RU</td> <td>different to loco driver change as for the change of the crew a platform will be needed</td> </tr> <tr> <td>0026</td> <td>Custom and passport facilities</td> <td>RU</td> <td></td> </tr> <tr> <td>0027</td> <td>Other stop reason (miscellaneous)</td> <td>RU/IM</td> <td></td> </tr> <tr> <td>0028</td> <td>Boarding only</td> <td>RU</td> <td></td> </tr> <tr> <td>0029</td> <td>Disembarking only</td> <td>RU</td> <td></td> </tr> <tr> <td>0030</td> <td>Stop on request</td> <td>RU</td> <td></td> </tr> <tr> <td>0031</td> <td>Departure equals to arrival time</td> <td>RU</td> <td>If in some stations only arrival times are published, this activity code may used to indicate that the train cannot continue before the published arrival time in case of an early arrival.</td> </tr> <tr> <td>0032</td> <td>Departure after disembarking</td> <td>RU</td> <td>mainly used at the end of train run, train may continue as soon as all passengers have disembarked</td> </tr> <tr> <td>0033</td> <td>No waiting for connection</td> <td>RU</td> <td></td> </tr> <tr> <td>0034</td> <td>Watering</td> <td>RU</td> <td>Indicates the IM that a track with water access will be needed.</td> </tr> <tr> <td>0035</td> <td>Heating</td> <td>RU</td> <td>Indicates the IM that a track with heating equipment will be needed.</td> </tr> <tr> <td>0036</td> <td>Cleaning / disinfecting</td> <td>RU</td> <td></td> </tr> <tr> <td>0037</td> <td>Treatment on plants and live animals</td> <td>RU</td> <td>Watering, Foddering, Milking, Spraying, Closing ventilation flaps, Opening ventilation flaps</td> </tr> <tr> <td>0038</td> <td>Treatment of perishable goods</td> <td>RU</td> <td>Checking the temperature, Re-icing, Heating, Checking the proper functioning of the mechanical refrigeration equipment, Refuelling machinery, Switching machinery on or off</td> </tr> <tr> <td>0039</td> <td>Administrative operations</td> <td>RU</td> <td>Weighing, Re-forwarding, Submission to phytosanitary inspections</td> </tr> <tr> <td>0040</td> <td>Run Through (Passing Time)</td> <td>IM</td> <td></td> </tr> <tr> <td>0041</td> <td>Photo run-by / Photo-stop</td> <td>RU</td> <td></td> </tr> <tr> <td>0042</td> <td>Train Waiting</td> <td>RU</td> <td>Waiting according to local rules</td> </tr> <tr> <td>0043</td> <td>Train running with another train</td> <td>RU</td> <td>Where trains have been attached at a previous location on the schedule</td> </tr> <tr> <td>0044</td> <td>Connecting service to other train</td> <td>RU</td> <td>Association where</td> </tr> </table> | 0001  | Commercial stop   | RU |  | 0002 | Board/disembark passenger train, load/unload freight train |  |  | 0002 | Operational stop | IM | Stops needed by the IM (e.g. overpassing by another train) | 0003 | Service stop | RU/IM | Stops which are used for non-commercial activities (e.g. boarding of staff) | 0004 | System stop | RU/IM | allowing the RU to change a system (e.g. signalling system, safety system) | 0005 | Reversing stop | RU/IM | stop to enable train unit to run in the opposite direction (without change of engine) | 0006 | Stops for reversing move or driver change ends | RU | stop to enable train unit to run in the opposite direction (with using another engine at the other end of the train and change of driver) | 0007 | Stops for locomotive to run round train | RU | stop to enable train unit to run in the opposite direction (with using the same engine at the other end of the train) | 0008 | Technical check/inspection coaches/wagons | RU/IM | e.g. at origin or intermediate station:<br>brake test, checking load | 0009 | Change gauge | RU/IM | continuation on a network with a different gauge with change of bogies or adaptation of the axles (F->E, SVE->FI) | 0010 | attach engine/unit | RU | Unit not previously in service | 0011 | detach engine/unit | RU | Unit no longer in service | 0012 | change engine | RU |  | 0013 | attach coach/wagon | RU |  | 0014 | detach coach/wagon | RU |  | 0015 | attach and detach coach/wagon | RU |  | 0016 | attach train | RU | Operational Train (in service) | 0017 | split train | RU | Operational Train (in service) | 0018 | Parking of vehicle | RU | e.g. need to park the train/composition midway for several hours | 0019 | Mail/parcel services | RU |  | 0020 | shunting | RU | actual activity of shunting | 0021 | shunting service | RU | Request for shunting service (if offered by the IM or a third party) | 0022 | Terminal service (terminal in the meaning of final destination) | RU | Request for services at the end of a train run (if offered by the IM or a third party) | 0023 | Loco driver change | RU |  | 0024 | Loco driver break | RU | legal issue, e.g. to respect working law | 0025 | Crew change | RU | different to loco driver change as for the change of the crew a platform will be needed | 0026 | Custom and passport facilities | RU |  | 0027 | Other stop reason (miscellaneous) | RU/IM |  | 0028 | Boarding only | RU |  | 0029 | Disembarking only | RU |  | 0030 | Stop on request | RU |  | 0031 | Departure equals to arrival time | RU | If in some stations only arrival times are published, this activity code may used to indicate that the train cannot continue before the published arrival time in case of an early arrival. | 0032 | Departure after disembarking | RU | mainly used at the end of train run, train may continue as soon as all passengers have disembarked | 0033 | No waiting for connection | RU |  | 0034 | Watering | RU | Indicates the IM that a track with water access will be needed. | 0035 | Heating | RU | Indicates the IM that a track with heating equipment will be needed. | 0036 | Cleaning / disinfecting | RU |  | 0037 | Treatment on plants and live animals | RU | Watering, Foddering, Milking, Spraying, Closing ventilation flaps, Opening ventilation flaps | 0038 | Treatment of perishable goods | RU | Checking the temperature, Re-icing, Heating, Checking the proper functioning of the mechanical refrigeration equipment, Refuelling machinery, Switching machinery on or off | 0039 | Administrative operations | RU | Weighing, Re-forwarding, Submission to phytosanitary inspections | 0040 | Run Through (Passing Time) | IM |  | 0041 | Photo run-by / Photo-stop | RU |  | 0042 | Train Waiting | RU | Waiting according to local rules | 0043 | Train running with another train | RU | Where trains have been attached at a previous location on the schedule | 0044 | Connecting service to other train | RU | Association where |
| 0001 | Commercial stop  | RU    |   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0002 | Board/disembark passenger train, load/unload freight train   |       |   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0002 | Operational stop   | IM    | Stops needed by the IM (e.g. overpassing by another train)  |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0003 | Service stop   | RU/IM | Stops which are used for non-commercial activities (e.g. boarding of staff)   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0004 | System stop  | RU/IM | allowing the RU to change a system (e.g. signalling system, safety system)  |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0005 | Reversing stop   | RU/IM | stop to enable train unit to run in the opposite direction (without change of engine)   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0006 | Stops for reversing move or driver change ends   | RU    | stop to enable train unit to run in the opposite direction (with using another engine at the other end of the train and change of driver)   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0007 | Stops for locomotive to run round train  | RU    | stop to enable train unit to run in the opposite direction (with using the same engine at the other end of the train)   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0008 | Technical check/inspection coaches/wagons  | RU/IM | e.g. at origin or intermediate station:<br>brake test, checking load  |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0009 | Change gauge   | RU/IM | continuation on a network with a different gauge with change of bogies or adaptation of the axles (F->E, SVE->FI)   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0010 | attach engine/unit   | RU    | Unit not previously in service  |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0011 | detach engine/unit   | RU    | Unit no longer in service   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0012 | change engine  | RU    |   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0013 | attach coach/wagon   | RU    |   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0014 | detach coach/wagon   | RU    |   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0015 | attach and detach coach/wagon  | RU    |   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0016 | attach train   | RU    | Operational Train (in service)  |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0017 | split train  | RU    | Operational Train (in service)  |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0018 | Parking of vehicle   | RU    | e.g. need to park the train/composition midway for several hours  |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0019 | Mail/parcel services   | RU    |   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0020 | shunting   | RU    | actual activity of shunting   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0021 | shunting service   | RU    | Request for shunting service (if offered by the IM or a third party)  |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0022 | Terminal service (terminal in the meaning of final destination)  | RU    | Request for services at the end of a train run (if offered by the IM or a third party)  |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0023 | Loco driver change   | RU    |   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0024 | Loco driver break  | RU    | legal issue, e.g. to respect working law  |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0025 | Crew change  | RU    | different to loco driver change as for the change of the crew a platform will be needed   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0026 | Custom and passport facilities   | RU    |   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0027 | Other stop reason (miscellaneous)  | RU/IM |   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0028 | Boarding only  | RU    |   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0029 | Disembarking only  | RU    |   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0030 | Stop on request  | RU    |   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0031 | Departure equals to arrival time   | RU    | If in some stations only arrival times are published, this activity code may used to indicate that the train cannot continue before the published arrival time in case of an early arrival. |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0032 | Departure after disembarking   | RU    | mainly used at the end of train run, train may continue as soon as all passengers have disembarked  |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0033 | No waiting for connection  | RU    |   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0034 | Watering   | RU    | Indicates the IM that a track with water access will be needed.   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0035 | Heating  | RU    | Indicates the IM that a track with heating equipment will be needed.  |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0036 | Cleaning / disinfecting  | RU    |   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0037 | Treatment on plants and live animals   | RU    | Watering, Foddering, Milking, Spraying, Closing ventilation flaps, Opening ventilation flaps  |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0038 | Treatment of perishable goods  | RU    | Checking the temperature, Re-icing, Heating, Checking the proper functioning of the mechanical refrigeration equipment, Refuelling machinery, Switching machinery on or off                 |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0039 | Administrative operations  | RU    | Weighing, Re-forwarding, Submission to phytosanitary inspections  |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0040 | Run Through (Passing Time)   | IM    |   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0041 | Photo run-by / Photo-stop  | RU    |   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0042 | Train Waiting  | RU    | Waiting according to local rules  |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0043 | Train running with another train   | RU    | Where trains have been attached at a previous location on the schedule  |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |
| 0044 | Connecting service to other train  | RU    | Association where   |    |  |      |  |  |  |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |      |   |    |   |      |   |       |  |      |              |       |   |      |                    |    |                                |      |                    |    |                           |      |               |    |  |      |                    |    |  |      |                    |    |  |      |                               |    |  |      |              |    |                                |      |             |    |                                |      |                    |    |  |      |                      |    |  |      |          |    |                             |      |                  |    |  |      |   |    |  |      |                    |    |  |      |                   |    |  |      |             |    |   |      |                                |    |  |      |                                   |       |  |      |               |    |  |      |                   |    |  |      |                 |    |  |      |                                  |    |   |      |                              |    |  |      |                           |    |  |      |          |    |   |      |         |    |  |      |                         |    |  |      |                                      |    |  |      |                               |    |   |      |                           |    |  |      |                            |    |  |      |                           |    |  |      |               |    |                                  |      |                                  |    |  |      |                                   |    |                   |

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|  |  | <p>there is a need to define a relationship between a train and its next service. The same vehicle is used for the next train service. Also called "train-set turnover"</p> <p>0045 Connecting service from other train RU Association where there is a need to define a relationship between a train and its previous service. The same vehicle is reused from the previous train service.</p> <p>National / company codes:<br/>                 Examples: Numbers 00 to 99 may be used by an IM for Network national purposes, just adding ISO country code<br/>                 CZ01 Stops from new stop opening day<br/>                 UK55 Stop shorter than 1/2 min<br/>                 IT72 Train report stop cancelled</p> |
|  |  | <p>.../TrainRunningData/Activities/ActivityLocationIdent<br/>                 Type: LocationIdent<br/>                 Annotation: Indication of the Railway or Customer Location</p>   |
|  |  | <p>TrainCompositionMessage/TrainCompositionJourneySection/LocIdent<br/>                 Type: restriction of xs:anyType [0..∞]<br/>                 Annotation: Defines the actual Type, the number and the mode of deployment of a traction unit of the freight train</p>  |
| <p><a href="#">core.constant(0)</a></p>  | <p><i>direct</i><br/>                 Annotation:<br/>                 ! This information is not in 616 XML<br/>                 Да, отсутствует / Yes, it is missing there</p>          | <p>TrainCompositionMessage/TrainCompositionJourneySection/LivestockOrPeopleIndicator<br/>                 Type: restriction of xs:integer<br/>                 Annotation: Indicates that livestock and people (other than train crew) will be carried. Coding: if live animals or people are transported = 1, in opposite case = 0. If code = 1, then at the wagon level for at least one wagon Info- Goods Shape, Type and Danger has to include the code '98' or Restrictions due to Load or Damage has to include code '09.'</p>  |
| <p><a href="#">.../BODY/TRAINWAGON</a><br/>                 Type: restriction of xs:anyType [1..∞]</p> | <p><i>direct</i><br/>                 Annotation:<br/>                 ! Owner and country can be detected from OWNER field in 616 XML<br/>                 Да, верно / Yes, correct</p> | <p>TrainCompositionMessage/TrainCompositionJourneySection/WagonData<br/>                 Type: restriction of xs:anyType [0..∞]<br/>                 Annotation: Wagon relevant data for the wagons within a running train</p>  |
| <p><a href="#">.../TRAINWAGON/@number_of_wagon</a><br/>                 Type: xs:int</p>               | <p><i>direct</i><br/>                 see ch<br/>                 Ошибка!<br/>                 Источник ссылки не найден.</p>  | <p>.../TrainCompositionJourneySection/WagonData/WagonNumberFreight<br/>                 Type: WagonIdent<br/>                 Annotation: Identifies uniquely the freight wagon by its number</p>   |
| <p><a href="#">.../TRAINWAGON/@sequence_number</a><br/>                 Type: xs:byte</p>              | <p><i>direct</i></p>   | <p>.../TrainCompositionJourneySection/WagonData/WagonTrainPosition<br/>                 Type: restriction of xs:int<br/>                 Annotation: Identifies the position of a wagon within a train. Sequential number starting with the first wagon at the front of train as N°1.</p>   |
| <p><a href="#">core.constant("X")</a></p>  | <p><i>direct</i><br/>                 Annotation:<br/>                 ! This information is not in 616 XML<br/>                 Да, отсутствует / Yes, it is missing there</p>          | <p>.../TrainCompositionJourneySection/WagonData/WagonOperationalData<br/>                 Type: restriction of xs:anyType<br/>                 Annotation: Actual wagon parameters, dependent on load or damage. This group and its elements are optional (contract defines what IM requires). But if there is dangerous goods in the train, then this group is mandatory.</p>  |
|  |  | <p>.../WagonData/WagonOperationalData/BrakeType<br/>                 Type: restriction of xs:token [0..1]<br/>                 Annotation: Type of braking system.<br/>                 additional:<br/>                 X For indication: brake system of the freight wagon out of order (actually / current)</p>  |
|  |  | <p>.../WagonData/WagonOperationalData/BrakeWeight<br/>                 Type: restriction of xs:int [0..1]<br/>                 Annotation: Shows the Braked mass of the wagon according to the type of the braking system, in Tonnes</p>  |
|  |  | <p>.../WagonData/WagonOperationalData/WagonMaxSpeed<br/>                 Type: restriction of xs:int [0..1]<br/>                 Annotation: Maximum allowed speed of the wagon according to the load and entry in the Rolling Stock Databases. In kmh</p>  |

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|  | <p>.../WagonData/WagonOperationalData/ExceptionalGaugingProfile<br/>                 Type: restriction of xs:string [0..1]<br/>                 Annotation: Identification of special load. Coding found in 404-2 chapter 4.9.1 (4AN + 3N)</p>  |
|  | <p>.../WagonData/WagonOperationalData/ExceptionalGaugingIdent<br/>                 Type: restriction of xs:anyType [0..1]<br/>                 Annotation: Indicates that an exceptional Gauging is in the train or for the wagon</p>   |
|  | <p>.../WagonOperationalData/ExceptionalGaugingIdent/IM_Partner<br/>                 Type: CompanyCode<br/>                 Annotation: Infrastructure Manager</p>   |
|  | <p>.../WagonOperationalData/ExceptionalGaugingIdent/ExceptionalGaugingCode<br/>                 Type: restriction of xs:string<br/>                 Annotation: Acceptance agreement number, coded in UIC 404-2 chapter 4.9.2</p>   |
|  | <p>.../WagonData/WagonOperationalData/DangerousGoodsDetails<br/>                 Type: restriction of xs:anyType [0..99]</p>  |
|  | <p>.../WagonOperationalData/DangerousGoodsDetails/DangerousGoodsIndication<br/>                 Type: DanGoodsType [0..1]<br/>                 Annotation: Identifies dangerous goods</p>   |
|  | <p>.../DangerousGoodsDetails/DangerousGoodsIndication/HazardIdentificationNumber<br/>                 Type: restriction of xs:string [0..1]</p>   |
|  | <p>.../DangerousGoodsDetails/DangerousGoodsIndication/UN_Number<br/>                 Type: restriction of xs:string [0..1]<br/>                 Annotation: The UNNumber of the dangerous good according to the RID chapter 3.2, table A, column 1. Mandatory, except it concerns a declaration of an empty packaging of the type "EMPTY PACKAGING", "EMPTY RECEPTACLE &lt;=1000L", "EMPTY IBC" or "EMPTY LARGE PACKAGING".</p>   |
|  | <p>.../DangerousGoodsDetails/DangerousGoodsIndication/DangerLabel<br/>                 Type: restriction of xs:token [0..5]<br/>                 Annotation: All Danger Label of this dangerous good according to the RID chapter 3.2, table A, column 5, excepting the shunting labels Model 13 and 15 (CODE: OTIF RID-Specification).<br/>                 1 Explosive materials, divisions 1.1, 1.2 and 1.3<br/>                 1.4 Explosive materials, division 1.4<br/>                 1.5 Explosive materials, division 1.5<br/>                 1.6 Explosive materials, division 1.6<br/>                 2.1 Flammable gases<br/>                 2.2 Non-flammable, non-toxic gases<br/>                 2.3 Toxic gases<br/>                 3 Flammable liquids<br/>                 4.1 Flammable solids , self-reactive substances and solid desensitized explosives<br/>                 4.2 Substances liable to spontaneous combustion<br/>                 4.3 Substances which, in contact with water, emit flammable gases<br/>                 5.1 Oxidizing substances<br/>                 5.2 Organic peroxides<br/>                 6.1 Toxic substances<br/>                 6.2 Infectious substances<br/>                 7A Radioactive material, category I<br/>                 7B Radioactive material, category II<br/>                 7C Radioactive material, category III<br/>                 7D (obsolete) should be used for general information about class 7<br/>                 7E Fissile radioactive material<br/>                 8 Corrosive substances<br/>                 9 Miscellaneous dangerous substances and articles</p> |
|  | <p>.../DangerousGoodsDetails/DangerousGoodsIndication/RID_Class<br/>                 Type: restriction of xs:string [0..1]<br/>                 Annotation: The Class of the dangerous good according to the RID chapter 3.2, table A, column 3a.</p>   |
|  | <p>.../DangerousGoodsDetails/DangerousGoodsIndication/PackingGroup<br/>                 Type: restriction of xs:token [0..1]<br/>                 Annotation: The Packing Group according to the RID chapter 3.2, table A, column 4. Possible values are "I", "II" or "III", otherwise the Packing Group have to be omitted. Mandatory, if it's foreseen in column 4, except it concerns a declaration of an empty packaging of the type "EMPTY PACKAGING", "EMPTY RECEPTACLE &lt;=1000L", "EMPTY IBC" or "EMPTY LARGE PACKAGING".<br/>                 I High danger The description of the codes is taken from:<br/>                 RID chapter 3.2, table A, column 4<br/>                 II Medium danger<br/>                 III Low danger</p>   |

|  |  |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
|--|--|---|----|---|----|---|---|-----------|---|--------------------------|---|-------------------|---|------------------------|----|--|----|--|----|--|----|--|----|-------------------------|----|---------------------------------------|----|-------------------|----|---------------------------------------|----|--|----|---------------------------------|----|---|----|-----------------------------|----|------------------------|----|-----------------------|----|----------------------------|----|--|----|--|----|---|----|---|----|-------------------------|----|-------------------------|----|--|----|-----------|----|-------------|
|  |  |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
|  |  | <p>.../DangerousGoodsDetails/DangerousGoodsIndication/DangerousGoodsWeight<br/>                 Type: WeightValueKilo [0..1]<br/>                 Annotation: The weight of dangerous goods in kilograms</p>  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
|  |  | <p>.../DangerousGoodsDetails/DangerousGoodsIndication/DangerousGoodsVolume<br/>                 Type: VolumeValue [0..1]<br/>                 Annotation: The volume of the dangerous goods in cubic meters</p>   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
|  |  | <p>.../DangerousGoodsDetails/DangerousGoodsIndication/LimitedQuantityIndicator<br/>                 Type: xs:boolean<br/>                 Annotation: Indicator for labelled dangerous goods in limited quantity according to chapter 3.-4 RID</p>  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
|  |  | <p>.../WagonOperationalData/DangerousGoodsDetails/WeightOfDangerousGoods<br/>                 Type: restriction of xs:decimal [0..1]<br/>                 Annotation: Requested by RID specification, weight in kilograms</p>   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
|  |  | <p>.../WagonData/WagonOperationalData/InfoOnGoodsShapeTypeDanger<br/>                 Type: restriction of xs:token [0..9]<br/>                 Annotation: Additional codified information on the load. Coding Structures as defined in 404-2 chapter 4.1</p> <p style="text-align: center;">Codes to add are given in the table below:</p> <table border="0"> <tr> <td style="padding-right: 20px;">96</td> <td>Environmentally hazardous substance (RID 5.2.1.8)</td> </tr> <tr> <td>97</td> <td>More than 8 tons of dangerous goods packaged in limited quantities (LQ)</td> </tr> </table> <p>The following documentation serves for the existing codes:</p> <table border="0"> <tr><td>1</td><td>Container</td></tr> <tr><td>2</td><td>Other intermodal traffic</td></tr> <tr><td>3</td><td>Rolling road (RR)</td></tr> <tr><td>6</td><td>Semi-Trailer on bogies</td></tr> <tr><td>10</td><td>1 - danger of explosion (subclass 1.1, 1.2, 1.3)</td></tr> <tr><td>14</td><td>1.4 - danger of explosion (subclass 1.4)</td></tr> <tr><td>15</td><td>1.5 - danger of explosion (subclass 1.5)</td></tr> <tr><td>16</td><td>1.6 - danger of explosion (subclass 1.6)</td></tr> <tr><td>21</td><td>2.1 - inflammable gases</td></tr> <tr><td>22</td><td>2.2 - non inflammable,non-toxic gases</td></tr> <tr><td>23</td><td>2.3 - toxic gases</td></tr> <tr><td>30</td><td>3 - fire hazard (inflammable liquids)</td></tr> <tr><td>41</td><td>4.1 - fire hazard (inflammable solids)</td></tr> <tr><td>42</td><td>4.2 - spontaneously inflammable</td></tr> <tr><td>43</td><td>4.3 - gives off inflammable gas on contact with water</td></tr> <tr><td>51</td><td>5.1 - combustible substance</td></tr> <tr><td>52</td><td>5.2 - organic peroxide</td></tr> <tr><td>61</td><td>6.1 - toxic substance</td></tr> <tr><td>62</td><td>6.2 - infectious substance</td></tr> <tr><td>71</td><td>7A - radioactive substance in category I packing WHITE</td></tr> <tr><td>72</td><td>7B - radioactive substance in category II packing YELLOW</td></tr> <tr><td>73</td><td>7C - radioactive substance in category III packing YELLOW</td></tr> <tr><td>74</td><td>7D - Common label for radioactive substances included under 7A, 7B + 7C</td></tr> <tr><td>75</td><td>7E - fissible substance</td></tr> <tr><td>80</td><td>8 - corrosive substance</td></tr> <tr><td>90</td><td>Various dangerous substance and objects not covered by the other classes</td></tr> <tr><td>98</td><td>Livestock</td></tr> <tr><td>99</td><td>Perishables</td></tr> </table> | 96 | Environmentally hazardous substance (RID 5.2.1.8) | 97 | More than 8 tons of dangerous goods packaged in limited quantities (LQ) | 1 | Container | 2 | Other intermodal traffic | 3 | Rolling road (RR) | 6 | Semi-Trailer on bogies | 10 | 1 - danger of explosion (subclass 1.1, 1.2, 1.3) | 14 | 1.4 - danger of explosion (subclass 1.4) | 15 | 1.5 - danger of explosion (subclass 1.5) | 16 | 1.6 - danger of explosion (subclass 1.6) | 21 | 2.1 - inflammable gases | 22 | 2.2 - non inflammable,non-toxic gases | 23 | 2.3 - toxic gases | 30 | 3 - fire hazard (inflammable liquids) | 41 | 4.1 - fire hazard (inflammable solids) | 42 | 4.2 - spontaneously inflammable | 43 | 4.3 - gives off inflammable gas on contact with water | 51 | 5.1 - combustible substance | 52 | 5.2 - organic peroxide | 61 | 6.1 - toxic substance | 62 | 6.2 - infectious substance | 71 | 7A - radioactive substance in category I packing WHITE | 72 | 7B - radioactive substance in category II packing YELLOW | 73 | 7C - radioactive substance in category III packing YELLOW | 74 | 7D - Common label for radioactive substances included under 7A, 7B + 7C | 75 | 7E - fissible substance | 80 | 8 - corrosive substance | 90 | Various dangerous substance and objects not covered by the other classes | 98 | Livestock | 99 | Perishables |
| 96                                       | Environmentally hazardous substance (RID 5.2.1.8)  |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 97                                       | More than 8 tons of dangerous goods packaged in limited quantities (LQ)                              |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 1  | Container  |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 2  | Other intermodal traffic   |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 3  | Rolling road (RR)  |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 6  | Semi-Trailer on bogies   |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 10                                       | 1 - danger of explosion (subclass 1.1, 1.2, 1.3)   |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 14                                       | 1.4 - danger of explosion (subclass 1.4)   |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 15                                       | 1.5 - danger of explosion (subclass 1.5)   |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 16                                       | 1.6 - danger of explosion (subclass 1.6)   |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 21                                       | 2.1 - inflammable gases  |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 22                                       | 2.2 - non inflammable,non-toxic gases  |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 23                                       | 2.3 - toxic gases  |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 30                                       | 3 - fire hazard (inflammable liquids)  |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 41                                       | 4.1 - fire hazard (inflammable solids)   |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 42                                       | 4.2 - spontaneously inflammable  |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 43                                       | 4.3 - gives off inflammable gas on contact with water  |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 51                                       | 5.1 - combustible substance  |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 52                                       | 5.2 - organic peroxide   |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 61                                       | 6.1 - toxic substance  |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 62                                       | 6.2 - infectious substance   |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 71                                       | 7A - radioactive substance in category I packing WHITE   |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 72                                       | 7B - radioactive substance in category II packing YELLOW   |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 73                                       | 7C - radioactive substance in category III packing YELLOW  |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 74                                       | 7D - Common label for radioactive substances included under 7A, 7B + 7C                              |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 75                                       | 7E - fissible substance  |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 80                                       | 8 - corrosive substance  |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 90                                       | Various dangerous substance and objects not covered by the other classes                             |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 98                                       | Livestock  |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 99                                       | Perishables  |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
|  |  | <p>.../WagonData/WagonOperationalData/RestrictionsDueToLoadOrDamage<br/>                 Type: RestrictionCodes [0..9]<br/>                 Annotation: These are possible restrictions applicable in the originating country to shunting operations in stations and to main-line movements on account of the nature of the load. Coding in Restriction Codes (according to UIC Leaflet 920-13)</p>   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
|  |  | <p>.../WagonData/WagonOperationalData/TotalLoadWeight<br/>                 Type: WeightValueKilo [0..1]<br/>                 Annotation: The total weight of the transportation unit on the freight wagon. This is the booked or actual weight of goods including packing and carrier's equipment</p>   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
|  |  | <p>.../TrainCompositionJourneySection/WagonData/WagonTechData<br/>                 Type: restriction of xs:anyType<br/>                 Annotation: This element shows the wagon relevant technical data for the wagons within a running train</p>  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| <p><a href="#">core.constant(25)</a></p> | <p><i>direct</i><br/>                 Annotation:<br/>                 ! This information is not</p> | <p>.../WagonData/WagonTechData/LengthOverBuffers<br/>                 Type: restriction of xs:integer<br/>                 Annotation: Length over buffers is expressed in cm.</p>  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |



|   |  |   |
|---|--|---|
|   | in 616 XML<br>Да, отсутствует / Yes, it is missing there |   |
| <a href="#">.../TRAIN/WAGON/@number_of_axles</a><br>Type: xs:byte | direct   | .../WagonData/WagonTechData/WagonNumberOfAxles<br>Type:<br>Annotation: Number of Axels for a wagon  |
|   |  | .../WagonData/WagonTechData/AirBrakeType<br>Type: [0..1]<br>Annotation: Classification of air brake.<br>additional code:<br>8 No air brake or brake pipe The code is defined in UIC Leaflet 920-13.   |
|   |  | .../WagonData/WagonTechData/BrakingPowerVariationDevice<br>Type: [0..1]<br>Annotation: Coding in 404-2, chapter 1.8   |
|   |  | .../WagonData/WagonTechData/AirBrakeSpecialCharacteristic<br>Type: restriction of xs:integer [0..1]<br>Annotation: Coding in 404-2, chapter 1.8   |
|   |  | .../WagonData/WagonTechData/HandBrakeType<br>Type: [0..1]<br>Annotation: Classification of hand brake:<br><br>0 No hand brake<br>1 Ground-operated hand brake<br>2 Platform-operated hand brake   |
|   |  | .../WagonData/WagonTechData/HandBrakeBrakedWeight<br>Type: restriction of xs:integer [0..1]<br>Annotation: Coding in 404-2, chapter 1.7   |
|   |  | .../WagonData/WagonTechData/NormalLoadingGauge<br>Type: restriction of xs:token [0..1]<br>Annotation: Wagon or load gauge code used in UK, coded in UIC 505-1 and 503:<br>All codes are defined in the UIC Leaflet 505-1 and 503, as well as in the EN 15273-2. For details please refer to EN 15273-2:2013 (Railway applications - Gauges - Part 2: Rolling stock gauge). For the existing gauges in the list, the Annex B.3 should be used. For the new ones, use the table below.<br>Candidate:<br>G1, G2, GA, GB, GC, CM, CE, M2, M3, M4, GB1, GB2, GB-M6, GHE16, W6-A.<br>Lately added:<br>G1 Annex A.3<br>G2 Annex E.1.2<br>GB2 Annex C.1.2<br>GB-M6 Annex N.4 (annex currently in preparation)<br>GHE16 Annex P.3<br>W6-A W6a is designed for non- bogied wagons with axle spacings of 12.8m (42'), and 18.3m length (60') |
| <a href="#">.../TRAIN/WAGON/@tare</a><br>Type: xs:short           | direct   | .../WagonData/WagonTechData/WagonWeightEmpty<br>Type: WeightValueKilo<br>Annotation: The weight of an empty wagon according to the entry in the rolling stock database  |
|   |  | .../WagonData/WagonTechData/TechnicalRestrictions<br>Type: Numeric2-2 [0..6]  |

**Remaining components**

|  |   |
|--|---|
| <b>core.value-map</b> (2019_05_06-616 XML-UZ-PKP Cargo prikklad -> taf_cat_complete) |   |
| input ( <a href="#">2019_05_06-616 XML-UZ-PKP Cargo prikklad.messcode</a> )          | result ( <a href="#">taf_cat_complete.MessageType</a> ) |
| <b>From</b>  | <b>To</b>   |
| 616  | 3003  |

|   |   |
|---|---|
| <b>lang.left</b> (2019_05_06-616 XML-UZ-PKP Cargo priklad, core.constant -> taf_cat_complete)   |   |
| string (2019_05_06-616 XML-UZ-PKP Cargo priklad.forwarding_station)<br>number (core.constant.5) | result (taf_cat_complete.LocationPrimaryCode) |

|   |  |
|---|--|
| <b>core.value-map</b> (2019_05_06-616 XML-UZ-PKP Cargo priklad -> taf_cat_complete) |  |
| input (2019_05_06-616 XML-UZ-PKP Cargo priklad.forwarding_company)                  | result (taf_cat_complete.CountryCodeISO) |
| <b>From</b>   | <b>To</b>                                |
| 22  | UA                                       |
| 20  | RU                                       |
| 51  | PL                                       |

|  |   |
|--|---|
| <b>lang.left</b> (2019_05_06-616 XML-UZ-PKP Cargo priklad, core.constant -> taf_cat_complete)    |   |
| string (2019_05_06-616 XML-UZ-PKP Cargo priklad.destination_station)<br>number (core.constant.5) | result (taf_cat_complete.LocationPrimaryCode) |

|   |  |
|---|--|
| <b>core.value-map</b> (2019_05_06-616 XML-UZ-PKP Cargo priklad -> taf_cat_complete) |  |
| input (2019_05_06-616 XML-UZ-PKP Cargo priklad.destination_company)                 | result (taf_cat_complete.CountryCodeISO) |
| <b>From</b>   | <b>To</b>                                |
| 22  | UA                                       |
| 20  | RU                                       |
| 51  | PL                                       |
| 2153  | RO                                       |

|  |                                       |
|--|---------------------------------------|
| <b>core.sum</b> (2019_05_06-616 XML-UZ-PKP Cargo priklad, core.add -> taf_cat_complete)    |                                       |
| parent-context (2019_05_06-616 XML-UZ-PKP Cargo priklad.TRAIN)<br>values (core.add.result) | result (taf_cat_complete.TrainWeight) |

|  |                          |
|--|--------------------------|
| <b>core.add</b> (2019_05_06-616 XML-UZ-PKP Cargo priklad -> core.sum)  |                          |
| value1 (2019_05_06-616 XML-UZ-PKP Cargo priklad.tare)<br>value2 (2019_05_06-616 XML-UZ-PKP Cargo priklad.weight_of_load) | result (core.sum.values) |

**Constants**

|  |   |
|--|---|
| <b>core.constant</b> (-> taf_cat_complete) |   |
| Value                                      | 1 |

|  |      |
|--|------|
| <b>core.constant</b> (-> taf_cat_complete) |      |
| Value                                      | 1151 |

|  |      |
|--|------|
| <b>core.constant</b> (-> taf_cat_complete) |      |
| Value                                      | 0022 |

|  |  |
|--|--|
| <b>core.constant</b> (-> taf_cat_complete) |  |
| Value                                      |  |

|                                     |   |
|-------------------------------------|---|
| <b>core.constant</b> (-> lang.left) |   |
| Value                               | 5 |

|                                     |   |
|-------------------------------------|---|
| <b>core.constant</b> (-> lang.left) |   |
| Value                               | 5 |

|  |   |
|--|---|
| <b>core.constant</b> (-> taf_cat_complete) |   |
| Value                                      | 0 |

|  |   |
|--|---|
| <b>core.constant</b> (-> taf_cat_complete) |   |
| Value                                      | 2 |

|  |    |
|--|----|
| <b>core.constant</b> (-> taf_cat_complete) |    |
| Value                                      | 25 |

|  |     |
|--|-----|
| <b>core.constant</b> (-> taf_cat_complete) |     |
| Value                                      | 675 |

Mapping documentation generated by [Mapforce](http://www.altova.com/mapforce) Graphical data mapping tool <http://www.altova.com/mapforce>

#### 4. Трансформация из набора данных ОСЖД IFCSUM EDI о составе поезда в сообщение о составе поезда ТАФ ТСИ XML / Mapping from the OSJD IFCSUM EDI dataset on train composition to the TAF TSI XML “TrainCompositionMessage”

Ссылки / References :

|   |  |
|---|--|
| Внутренняя ссылка ЕЖДА файла сопоставления / Internal ERA reference of the mapping file | <b>IFCSUM_TCM.mfd</b>  |
| Дата окончательного сопоставления / Date of the final mapping                           | 16/01/2020   |
| Описания данных   | Памятка ОСЖД О+Р 943 “Библиотека стандартных электронных сообщений для грузовых перевозок в международном сообщении на условиях СМГС в стандарте UN/EDIFACT” |
| Data descriptions   | OSJD Leaflet O+P 943 “Standard electronic message library for international freight transport on SMGS conditions in the UN / EDIFACT standard”               |

Output [taf\\_cat\\_complete\\_baseline\\_2.1.xmd](#) ([taf\\_cat\\_complete\\_baseline\\_2.1.xmd.xsd](#))

| Connections  |               | Nodes  |
|--|---------------|--|
|  |               | File: TAF_Mapped_IFCSUM<br>Type: string  |
|  |               | ns1:TrainCompositionMessage<br>Type: restriction of xs:anyType [0..1]<br>Annotation: This message is sent from an RU to an IM defining the composition of the proposed train.  |
| <a href="#">../Group/Message_IFCSUM/UNH</a><br>Type: UNH<br>Annotation: MESSAGE HEADER | <i>direct</i> | ns1:TrainCompositionMessage/ns1:MessageHeader<br>Type: restriction of xs:anyType<br>Annotation: Used for all messages  |
|  |               | ns1:TrainCompositionMessage/ns1:MessageHeader/ns1:MessageReference<br>Type: restriction of xs:anyType<br>Annotation: This element identifies the message   |
| <a href="#">core.constant("3003")</a>  | <i>direct</i> | ../ns1:MessageHeader/ns1:MessageReference/ns1:MessageType<br>Type: restriction of xs:integer<br>Annotation: To indicate the message type transmitted or referred to. The following list was agreed within the sector:<br>2001 PathCanceledMessage<br>2002 PathConfirmedMessage<br>2003 PathDetailsMessage<br>2004 PathDetailsRefusedMessage<br>2005 PathNotAvailableMessage<br>2006 PathRequestMessage<br>2007 ReceiptConfirmationMessage<br>3001 TrainAcceptedMessage<br>3002 TrainAtStartMessage<br>3003 TrainCompositionMessage<br>3004 TrainNotSuitableMessage<br>3005 TrainPositionMessage<br>3006 TrainReadyMessage<br>4001 TrainDelayCauseMessage |

|   |   |  |
|---|---|--|
|   | <p>4002 TrainDelayPerformanceMessage<br/>                 4003 TrainForecastAtReportingLocationMessage<br/>                 4004 TrainRunningForecastMessage<br/>                 4005 TrainRunningInformationMessage<br/>                 4006 TrainRunningInterruptionMessage<br/>                 5001 AlertMessage<br/>                 5002 WagonArrivalNoticeMessage<br/>                 5003 WagonDeliveryNoticeMessage<br/>                 5004 WagonDepartureNoticeMessage<br/>                 5005 WagonDeviationMessage<br/>                 5006 WagonETI_ETA_Message<br/>                 5007 WagonExceptionMessage<br/>                 5008 WagonExceptionReasonMessage<br/>                 5009 WagonInterchangeNoticeMessage<br/>                 5010 WagonInterchangeSubNoticeMessage<br/>                 5011 WagonOrderMessage<br/>                 5012 WagonReceivedAtInterchangeMessage<br/>                 5013 WagonRefusedAtInterchangeMessage<br/>                 5014 WagonReleaseNoticeMessage<br/>                 5015 WagonYardArrivalMessage<br/>                 5016 WagonYardDepartureMessage<br/>                 6001 IRN_DatasetMessage<br/>                 6002 LocationFileDatasetMessage<br/>                 6003 RollingStockDatasetMessage</p> |  |
| <p><a href="#">../UNH/S009/F0065</a><br/>                 Type: F0065<br/>                 Annotation:<br/>                 Message type</p>              | <p><a href="#">core.concat =&gt; value1   result =&gt;</a></p>  | <p>../ns1:MessageHeader/ns1:MessageReference/ns1:MessageTypeVersion<br/>                 Type: restriction of xs:string<br/>                 Annotation: Version of the Message Type</p> |
| <p><a href="#">../UNH/S009/F0052</a><br/>                 Type: F0052<br/>                 Annotation:<br/>                 Message version number</p>    | <p><a href="#">core.concat =&gt; value3   result =&gt;</a></p>  |  |
| <p><a href="#">../UNH/S009/F0054</a><br/>                 Type: F0054<br/>                 Annotation:<br/>                 Message release number</p>    | <p><a href="#">core.concat =&gt; value5   result =&gt;</a></p>  |  |
| <p><a href="#">../UNH/S009/F0051</a><br/>                 Type: F0051<br/>                 Annotation:<br/>                 Controlling agency, coded</p> | <p><a href="#">core.concat =&gt; value7   result =&gt;</a></p>  |  |
| <p><a href="#">core.constant("..")</a></p>  | <p><a href="#">core.concat =&gt; value6   result =&gt;</a><br/> <a href="#">core.concat =&gt; value4   result =&gt;</a><br/> <a href="#">core.concat =&gt; value2   result =&gt;</a></p>  |  |
| <p><a href="#">../Message_IFCSUM/UNH/F0062</a><br/>                 Type: F0062<br/>                 Annotation: MESSAGE REFERENCE NUMBER</p>             | <p><i>direct</i></p>  | <p>../ns1:MessageHeader/ns1:MessageReference/ns1:MessageIdentifier<br/>                 Type: ns1:FreeText<br/>                 Annotation: Identification of the Message</p>            |
| <p><a href="#">../DTM/C507/F2380</a><br/>                 Type: F2380 [0..1]<br/>                 Annotation: Date or time or period text</p>             | <p><a href="#">edifact.to-datetime =&gt; F2380   result =&gt;</a></p>   | <p>../ns1:MessageHeader/ns1:MessageReference/ns1:MessageDateTime<br/>                 Type: xs:dateTime<br/>                 Annotation: Generated by the common Interface</p>           |
| <p><a href="#">../DTM/C507/F2379</a><br/>                 Type: F2379 [0..1]<br/>                 Annotation: Date or time or period format code</p>      | <p><a href="#">edifact.to-datetime =&gt; F2379   result =&gt;</a></p>   |  |
|   | <p>ns1:TrainCompositionMessage/ns1:MessageHeader/ns1:MessageRoutingID<br/>                 Type: ns1:Numeric2-2 [0..1]<br/>                 Annotation: Additional information used to route the message to the correct receiving application (if needed)</p>   |  |

|  |  |  |
|--|--|--|
|  |  | ns1:TrainCompositionMessage/ns1:MessageHeader/ns1:SenderReference<br>Type: ns1:FreeText [0..1]<br>Annotation: reference used by the sender (e.g. FTP file name)  |
| <a href="#">../UNB/S002/F0004</a><br>Type: F0004<br>Annotation: Interchange sender identification      | <a href="#">core.value-map =&gt; input   result =&gt;</a>      | ns1:TrainCompositionMessage/ns1:MessageHeader/ns1:Sender<br>Type: extension of ns1:CompanyCode<br>Annotation: The sender of the message  |
| <a href="#">../UNB/S002/F0007</a><br>Type: F0007 [0..1]<br>Annotation: Identification code qualifier   | <i>direct</i><br>Annotation: Conversion AN 2 N needed !        | ../ns1:MessageHeader/ns1:Sender/@ns1:CI_InstanceNumber<br>Type: ns1:Numeric2-2 [0..1]<br>Annotation: Number of a Common Interface Instance for the same Company  |
| <a href="#">../UNB/S003/F0010</a><br>Type: F0010<br>Annotation: Interchange recipient identification   | <a href="#">core.value-map =&gt; input   result =&gt;</a>      | ns1:TrainCompositionMessage/ns1:MessageHeader/ns1:Recipient<br>Type: extension of ns1:CompanyCode<br>Annotation: Receiver of the message   |
| <a href="#">../UNB/S003/F0007</a><br>Type: F0007 [0..1]<br>Annotation: Identification code qualifier   | <i>direct</i><br>Annotation: Conversion AN 2 N needed !        | ../ns1:MessageHeader/ns1:Recipient/@ns1:CI_InstanceNumber<br>Type: ns1:Numeric2-2 [0..1]<br>Annotation: Number of a Common Interface Instance for the same Company   |
| <a href="#">../Message_IFCSUM/BGM/F1225</a><br>Type: F1225 [0..1]<br>Annotation: MESSAGE FUNCTION CODE | <a href="#">core.value-map =&gt; input   result =&gt;</a>      | ns1:TrainCompositionMessage/ns1:MessageStatus<br>Type:<br>Annotation: Assigned by the Sender 1=creation, 2=modification, 3=deletion  |
| <a href="#">../SG1/RFF/C506</a><br>Type: C506<br>Annotation: REFERENCE                                 | <i>direct</i>  | ns1:TrainCompositionMessage/ns1:TransportOperationalIdentifiers<br>Type: extension of ns1:CompositIdentifierOperationalType [0..∞]   |
| <a href="#">../RFF/C506/F1153</a><br>Type: F1153<br>Annotation: Reference code qualifier               | <a href="#">core.value-map =&gt; input   result =&gt;</a>      | ns1:TrainCompositionMessage/ns1:TransportOperationalIdentifiers/ns1:ObjectType<br>Type: restriction of xs:string<br>Annotation: Provides a possibility for differentiation between the objects: Train, Path, Case Reference and Path Request |
|  |  | ns1:TrainCompositionMessage/ns1:TransportOperationalIdentifiers/ns1:Company<br>Type: ns1:CompanyCode<br>Annotation: Identifies a railway company (RU or IM)  |
| <a href="#">../RFF/C506/F1154</a><br>Type: F1154 [0..1]<br>Annotation: Reference identifier            | <i>direct</i>  | ns1:TrainCompositionMessage/ns1:TransportOperationalIdentifiers/ns1:Core<br>Type: restriction of xs:string<br>Annotation: It is the main part of identifier and is determined by the company that creates it.                                |
| <a href="#">../RFF/C506/F1060</a><br>Type: F1060 [0..1]<br>Annotation: Revision identifier             | <i>direct</i>  | ns1:TrainCompositionMessage/ns1:TransportOperationalIdentifiers/ns1:Variant<br>Type: restriction of xs:string<br>Annotation: The variant shows a relationship between two identifiers referring to the same business case                    |
| <a href="#">../DTM/C507/F2380</a><br>Type: F2380 [0..1]<br>Annotation: Date or time or period text     | <a href="#">core.substring =&gt; string   result =&gt;</a>     | ns1:TrainCompositionMessage/ns1:TransportOperationalIdentifiers/ns1:TimetableYear<br>Type: restriction of xs:integer<br>Annotation: Refers to the timetable period in which the business will be carried out                                 |
| <a href="#">core.constant("1")</a>   | <a href="#">core.substring =&gt; start   result =&gt;</a>      |  |
| <a href="#">core.constant("4")</a>   | <a href="#">core.substring =&gt; length   result =&gt;</a>     |  |
| <a href="#">../DTM/C507/F2380</a><br>Type: F2380 [0..1]<br>Annotation: Date or time or period text     | <a href="#">edifact.to-datetime =&gt; F2380   result =&gt;</a> | ns1:TrainCompositionMessage/ns1:TransportOperationalIdentifiers/ns1:StartDate<br>Type: restriction of xs:date<br>Annotation: The start of the date/time in effect  |
| <a href="#">../DTM/C507/F2379</a><br>Type: F2379 [0..1]  | <a href="#">edifact.to-datetime =&gt; F2379   result =&gt;</a> |  |

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| Annotation: Date or time or period format code  |   |  |
|   |   | ns1:TrainCompositionMessage/ns1:OperationalTrainNumberIdentifier<br>Type: restriction of xs:anyType  |
| <a href="#">../RFF/C506/F1154</a><br>Type: F1154 [0..1]<br>Annotation: Reference identifier                 | direct  | ns1:TrainCompositionMessage/ns1:OperationalTrainNumberIdentifier/ns1:OperationalTrainNumber<br>Type: ns1:String1-8<br>Annotation: Identifies the train for traffic management purposes by the Dispatcher, GSMR services, etc.  |
|   |   | ns1:TrainCompositionMessage/ns1:OperationalTrainNumberIdentifier/ns1:ScheduledTimeAtHandover<br>Type: xs:dateTime [0..1]<br>Annotation: The scheduled departure date and time or the scheduled handover date and time at the border between two different IMs.                           |
|   |   | ns1:TrainCompositionMessage/ns1:OperationalTrainNumberIdentifier/ns1:ScheduledDateTimeAtTransfer<br>Type: xs:dateTime [0..1]<br>Annotation: The scheduled arrival at destination date and time or the scheduled outgoing transfer date and time at the border between two different IMs. |
|   |   | ns1:TrainCompositionMessage/ns1:OperationalTrainNumber<br>Type: ns1:String1-8<br>Annotation: Identifies the train for traffic management purposes by the Dispatcher, GSMR services, etc.   |
|   |   | ns1:TrainCompositionMessage/ns1:ReferenceOTN<br>Type: restriction of xs:anyType [0..1]   |
|   |   | ns1:TrainCompositionMessage/ns1:ReferenceOTN/ns1:OperationalTrainNumberIdentifier<br>Type: restriction of xs:anyType   |
| <a href="#">../RFF/C506/F1154</a><br>Type: F1154 [0..1]<br>Annotation: Reference identifier                 | direct  | ../ns1:ReferenceOTN/ns1:OperationalTrainNumberIdentifier/ns1:OperationalTrainNumber<br>Type: ns1:String1-8<br>Annotation: Identifies the train for traffic management purposes by the Dispatcher, GSMR services, etc.  |
|   |   | ../ns1:ReferenceOTN/ns1:OperationalTrainNumberIdentifier/ns1:ScheduledTimeAtHandover<br>Type: xs:dateTime [0..1]<br>Annotation: The scheduled departure date and time or the scheduled handover date and time at the border between two different IMs.                                   |
|   |   | ../ns1:ReferenceOTN/ns1:OperationalTrainNumberIdentifier/ns1:ScheduledDateTimeAtTransfer<br>Type: xs:dateTime [0..1]<br>Annotation: The scheduled arrival at destination date and time or the scheduled outgoing transfer date and time at the border between two different IMs.         |
|   |   | ns1:TrainCompositionMessage/ns1:TransferPoint<br>Type: ns1:LocationIdent [0..1]<br>Annotation: Transfer point or station of destination in the considered network  |
|   |   | ns1:TrainCompositionMessage/ns1:TransferPoint/ns1:CountryCodeISO<br>Type: extension of ns1:CountryIdentISO<br>Annotation: Identifies a County or State by code (ISO 3166-1)  |
|   |   | ns1:TrainCompositionMessage/ns1:TransferPoint/ns1:LocationPrimaryCode<br>Type: ns1:Numeric1-5  |
|   |   | ns1:TrainCompositionMessage/ns1:TransferPoint/ns1:PrimaryLocationName<br>Type: ns1:FreeText [0..1]<br>Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet  |
|   |   | ns1:TrainCompositionMessage/ns1:TransferPoint/ns1:LocationSubsidiaryIdentification<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Code, Name and allocation company of Subsidiary Location   |
| <a href="#">../UNB/S003/F0010</a><br>Type: F0010<br>Annotation: Interchange recipient identification        | Annotation: To be checked<br><a href="#">core.value-map =&gt; input   result =&gt;</a><br>Annotation: To be checked | ns1:TrainCompositionMessage/ns1:TransfereeIM<br>Type: ns1:CompanyCode [0..1]<br>Annotation: Next IM  |
| <a href="#">../Group/Message_IFCSUM/SG23</a><br>Type: SG23 [0..9999]<br>Annotation: EQD - Equipment details | direct  | ns1:TrainCompositionMessage/ns1:TrainCompositionJourneySection<br>Type: restriction of xs:anyType [1..99]<br>Annotation: Defines the make up of a train for each section of its journey  |
| <a href="#">../Group/Message_IFCSUM/SG2</a>   | direct  | ns1:TrainCompositionMessage/ns1:TrainCompositionJourneySection/ns1:JourneySection<br>Type: restriction of xs:anyType   |

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| Type: SG2 [0..9]<br>Annotation: GOR - Governmental requirements  |  | Annotation: Defines the data provided by the IM for a journey section   |
| <a href="#">../Message_IFCSUM/SG2/LOC</a><br>Type: LOC [0..9]<br>Annotation: PLACE/LOCATION IDENTIFICATION | <a href="#">core.filter =&gt; node/row   on-true =&gt;</a>   | ../ns1:TrainCompositionJourneySection/ns1:JourneySection/ns1:JourneySectionOrigin<br>Type: ns1:LocationIdent<br>Annotation: Indication of the Railway or Customer Location  |
| <a href="#">../SG2/LOC/F3227</a><br>Type: F3227<br>Annotation: LOCATION FUNCTION CODE QUALIFIER            | <a href="#">core.equivalence =&gt; a   result =&gt;</a><br><a href="#">core.filter =&gt; bool   on-true =&gt;</a>  |   |
| <a href="#">core.constant("5")</a>   | <a href="#">core.equivalence =&gt; b   result =&gt;</a><br><a href="#">core.filter =&gt; bool   on-true =&gt;</a>  |   |
| <a href="#">../LOC/C517/F3225</a><br>Type: F3225 [0..1]<br>Annotation: Location identifier                 | Annotation: Mapping TAF vs UIC country code needed<br><a href="#">lang.left =&gt; string   result =&gt;</a><br><a href="#">core.value-map =&gt; input   result =&gt;</a><br>Annotation: Mapping TAF vs UIC country code needed | ../ns1:JourneySection/ns1:JourneySectionOrigin/ns1:CountryCodeISO<br>Type: extension of ns1:CountryIdentISO<br>Annotation: Identifies a County or State by code (ISO 3166-1)  |
| <a href="#">core.constant(2)</a>   | Annotation: Mapping TAF vs UIC country code needed<br><a href="#">lang.left =&gt; number   result =&gt;</a><br><a href="#">core.value-map =&gt; input   result =&gt;</a><br>Annotation: Mapping TAF vs UIC country code needed |   |
| <a href="#">../LOC/C517/F3225</a><br>Type: F3225 [0..1]<br>Annotation: Location identifier                 | <a href="#">lang.right =&gt; string   result =&gt;</a>   | ../ns1:JourneySection/ns1:JourneySectionOrigin/ns1:LocationPrimaryCode<br>Type: ns1:Numeric1-5  |
| <a href="#">core.constant("6")</a>   | <a href="#">lang.right =&gt; number   result =&gt;</a>   |   |
| <a href="#">../LOC/C517/F3224</a><br>Type: F3224 [0..1]<br>Annotation: Location name                       | <i>direct</i>  | ../ns1:JourneySection/ns1:JourneySectionOrigin/ns1:PrimaryLocationName<br>Type: ns1:FreeText [0..1]<br>Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet  |
|  |  | ../ns1:JourneySection/ns1:JourneySectionOrigin/ns1:LocationSubsidiaryIdentification<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Code, Name and allocation company of Subsidiary Location   |
| <a href="#">../LOC/C517/F3225</a><br>Type: F3225 [0..1]<br>Annotation: Location identifier                 | <i>direct</i>  | ../ns1:JourneySectionOrigin/ns1:LocationSubsidiaryIdentification/ns1:LocationSubsidiaryCode<br>Type: extension of ns1:String1-10<br>Annotation: this element identifies a location as a part of primary location e.g. a junction, a signal, a passing loop etc., It is unique when used in combination with a "LocationPrimaryCode" |
|  |  | ../ns1:LocationSubsidiaryIdentification/ns1:LocationSubsidiaryCode/@ns1:LocationSubsidiaryTypeCode<br>Type: restriction of xs:token   |



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|  | <p>Annotation:<br/>New codes added:<br/>42 DIUM stations - Places of acceptance/delivery Station open into international traffic of goods (tariff point included in DIUM) – consignment acceptance/delivery station (loading points are excluded and covered by TypeCode 37).<br/>43 Passengers cars public loading Is a type of physical location on the open access network where passengers can put their car on a carrying train<br/>44 Passengers cars private loading Is a type of physical location outside the open access network where passengers can put their car on a carrying train<br/>45 Sewage dump Place for cleaning purposes - disposal of the waste<br/>46 Refuelling Point Location where refuelling takes place<br/>47 Mains Supply Location where energy supply can be provided for the rolling stock e.g. preheating<br/>48 Water Supply Location where water supply can be provided for the rolling stock<br/>49 Compressed plant Train on a track with motion stabled with external air supply for braking systems<br/>50 Indoor cleaning platform Cleaning point -interior<br/>51 Car-wash plant Cleaning point -outdoor<br/>52 Short dry-cleaning track Cleaning point<br/>53 Pollution protective plate Track where floor that avoids pollution of the earth below<br/>54 Sand-filling station Location where sand is filled<br/>55 Repair track Location where a train/wagon/engine can be repaired<br/>56 Signal box The location of a building containing signalling equipment</p> |
|  | <p>.../ns1:JourneySectionOrigin/ns1:LocationSubsidiaryIdentification/ns1:AllocationCompany<br/>Type: ns1:CompanyCode<br/>Annotation: Name of company who is responsible for allocation and maintenance of codes</p>   |
| <p><a href="#">.../LOC/C517/F3224</a><br/>Type: F3224 [0..1]<br/>Annotation:<br/>Location name</p>                       | <p><i>direct</i><br/>.../ns1:JourneySectionOrigin/ns1:LocationSubsidiaryIdentification/ns1:LocationSubsidiaryName<br/>Type: ns1:FreeText [0..1]<br/>Annotation: To be completed in an official language of the Country using the ISO Unicode alphabet</p>   |
| <p><a href="#">.../Message_IFCSUM/SG2/LOC</a><br/>Type: LOC [0..9]<br/>Annotation:<br/>PLACE/LOCATION IDENTIFICATION</p> | <p><a href="#">core.filter =&gt; node/row   on-true =&gt;</a><br/>.../ns1:TrainCompositionJourneySection/ns1:JourneySection/ns1:JourneySectionDestination<br/>Type: ns1:LocationIdent<br/>Annotation: Indication of the Railway or Customer Location</p>  |
| <p><a href="#">.../SG2/LOC/F3227</a><br/>Type: F3227<br/>Annotation: LOCATION FUNCTION CODE QUALIFIER</p>                | <p><a href="#">core.equal =&gt; a   result =&gt;</a><br/><a href="#">core.filter =&gt; bool   on-true =&gt;</a></p>   |
| <p><a href="#">core.constant("8")</a></p>  | <p><a href="#">core.equal =&gt; b   result =&gt;</a><br/><a href="#">core.filter =&gt; bool   on-true =&gt;</a></p>   |
| <p><a href="#">.../LOC/C517/F3225</a><br/>Type: F3225 [0..1]<br/>Annotation:<br/>Location identifier</p>                 | <p>Annotation:<br/>Mapping TAF vs UIC country code needed<br/><a href="#">lang.left =&gt; string   result =&gt;</a><br/><a href="#">core.value-map =&gt; input   result =&gt;</a><br/>Annotation:<br/>Mapping TAF vs UIC country code needed</p>  |
| <p><a href="#">core.constant(2)</a></p>  | <p>Annotation:<br/>Mapping TAF vs UIC country code needed<br/><a href="#">lang.left =&gt; number   result =&gt;</a></p>   |

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|  | <a href="#">core.value-map =&gt; input   result =&gt;</a><br>Annotation:<br>Mapping TAF vs UIC country code needed |   |
| <a href="#">.../LOC/C517/F3225</a><br>Type: F3225 [0..1]<br>Annotation:<br>Location identifier               | <a href="#">lang.right =&gt; string   result =&gt;</a>   | .../ns1:JourneySection/ns1:JourneySectionDestination/ns1:LocationPrimaryCode<br>Type: ns1:Numeric1-5  |
| <a href="#">core.constant("6")</a>   | <a href="#">lang.right =&gt; number   result =&gt;</a>   |   |
| <a href="#">.../LOC/C517/F3224</a><br>Type: F3224 [0..1]<br>Annotation:<br>Location name                     | <i>direct</i>  | .../ns1:JourneySection/ns1:JourneySectionDestination/ns1:PrimaryLocationName<br>Type: ns1:FreeText [0..1]<br>Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet  |
|  |  | .../ns1:JourneySection/ns1:JourneySectionDestination/ns1:LocationSubsidiaryIdentification<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Code, Name and allocation company of Subsidiary Location   |
|  |  | .../ns1:TrainCompositionJourneySection/ns1:JourneySection/ns1:ResponsibilityActualSection<br>Type: restriction of xs:anyType<br>Annotation: This element identifies the responsible RU or IM for the actual path section  |
|  |  | .../ns1:TrainCompositionJourneySection/ns1:JourneySection/ns1:ResponsibilityNextSection<br>Type: restriction of xs:anyType<br>Annotation: This element identifies the responsible RU and IM for the following path section  |
|  |  | ns1:TrainCompositionMessage/ns1:TrainCompositionJourneySection/ns1:TrainRunningData<br>Type: restriction of xs:anyType<br>Annotation: Train relevant data for a running train   |
|  |  | .../ns1:TrainCompositionJourneySection/ns1:TrainRunningData/ns1:TrainRunningTechData<br>Type: restriction of xs:anyType<br>Annotation: Shows the relevant techical data for a running train   |
|  |  | .../ns1:TrainCompositionJourneySection/ns1:TrainRunningData/ns1:ExceptionalGaugingInd<br>Type: ns1:InfoIndex [0..1]<br>Annotation: Indicates that an exceptional Gauging is in the train or for the wagon   |
|  |  | .../ns1:TrainCompositionJourneySection/ns1:TrainRunningData/ns1:DangerousGoodsIndicati<br>on<br>Type: ns1:DanGoodsType [0..1]<br>Annotation: Identifies the Dangerous Goods by code   |
|  |  | .../ns1:TrainCompositionJourneySection/ns1:TrainRunningData/ns1:Activities<br>Type: restriction of xs:anyType [0..99]   |
|  |  | ns1:TrainCompositionMessage/ns1:TrainCompositionJourneySection/ns1:Locoldent<br>Type: restriction of xs:anyType [0..∞]<br>Annotation: Defines the actual Type, the number and the mode of deployment of a traction unit of the freight train  |
|  |  | ns1:TrainCompositionMessage/ns1:TrainCompositionJourneySection/ns1:LivestockOrPeople<br>Indicator<br>Type: restriction of xs:integer<br>Annotation: Indicates that livestock and people (other than train crew) will be carried. Coding: if live animals or people are transported = 1, in opposite case = 0. If code = 1, then at the wagon level for at least one wagon Info- Goods Shape, Type and Danger has to include the code '98' or Restrictions due to Load or Damage has to include code '09.' |
| <a href="#">.../Group/Message_IFCSUM/SG23</a><br>Type: SG23 [0..9999]<br>Annotation: EQD - Equipment details | <i>direct</i>  | ns1:TrainCompositionMessage/ns1:TrainCompositionJourneySection/ns1:WagonData<br>Type: restriction of xs:anyType [1..∞]<br>Annotation: Wagon relevant data for the wagons within a running train   |
| <a href="#">.../EQD/C237/F8260</a><br>Type: F8260 [0..1]<br>Annotation:<br>Equipment identifier              | <i>Direct see chapter 11</i>   | .../ns1:TrainCompositionJourneySection/ns1:WagonData/ns1:WagonNumberFreight<br>Type: ns1:WagonIdent<br>Annotation: Identifies uniquely the freight wagon by its number  |
| <a href="#">.../EQN/C523/F6350</a><br>Type: F6350 [0..1]<br>Annotation: Units quantity                       | <i>direct</i>  | .../ns1:TrainCompositionJourneySection/ns1:WagonData/ns1:WagonTrainPosition<br>Type: restriction of xs:int<br>Annotation: Identifies the position of a wagon within a train. Sequential number starting with the first wagon at the front of train as N°1.  |
| <a href="#">core.constant("")</a>  | <i>direct</i>  | .../ns1:TrainCompositionJourneySection/ns1:WagonData/ns1:WagonOperationalData<br>Type: restriction of xs:anyType<br>Annotation: Actual wagon parameters, dependent on load or damage. This group and its  |

|    |  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
|----|--|----|---|----|---|---|-----------|---|--------------------------|---|-------------------|---|------------------------|----|--|----|--|----|--|----|--|----|-------------------------|----|---------------------------------------|----|-------------------|----|---------------------------------------|----|--|----|---------------------------------|----|---|----|-----------------------------|----|------------------------|----|-----------------------|----|----------------------------|----|--|----|--|----|---|----|---|----|-------------------------|----|-------------------------|----|--|----|-----------|----|-------------|
|    | <p>elements are optional (contract defines what IM requires). But if there is dangerous goods in the train, then this group is mandatory.</p>  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
|    | <p>.../ns1:WagonData/ns1:WagonOperationalData/ns1:BrakeType<br/>                 Type: restriction of xs:token [0..1]<br/>                 Annotation: Type of braking system.<br/>                 additional:<br/>                 X For indication: brake system of the freight wagon out of order (actually / current)</p>   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
|    | <p>.../ns1:WagonData/ns1:WagonOperationalData/ns1:BrakeWeight<br/>                 Type: restriction of xs:int [0..1]<br/>                 Annotation: Shows the Braked mass of the wagon according to the type of the braking system, in Tonnes</p>   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
|    | <p>.../ns1:WagonData/ns1:WagonOperationalData/ns1:WagonMaxSpeed<br/>                 Type: restriction of xs:int [0..1]<br/>                 Annotation: Maximum allowed speed of the wagon according to the load and entry in the Rolling Stock Databases. In kmh</p>   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
|    | <p>.../ns1:WagonData/ns1:WagonOperationalData/ns1:ExceptionalGaugingProfile<br/>                 Type: restriction of xs:string [0..1]<br/>                 Annotation: Identification of special load. Coding found in 404-2 chapter 4.9.1 (4AN + 3N)</p>   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
|    | <p>.../ns1:WagonData/ns1:WagonOperationalData/ns1:ExceptionalGaugingIdent<br/>                 Type: restriction of xs:anyType [0..1]<br/>                 Annotation: Indicates that an exceptional Gauging is in the train or for the wagon</p>  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
|    | <p>.../ns1:WagonData/ns1:WagonOperationalData/ns1:DangerousGoodsDetails<br/>                 Type: restriction of xs:anyType [0..99]</p>   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
|    | <p>.../ns1:WagonData/ns1:WagonOperationalData/ns1:InfoOnGoodsShapeTypeDanger<br/>                 Type: restriction of xs:token [0..9]<br/>                 Annotation: Additional codified information on the load. Coding Structures as defined in 404-2 chapter 4.1</p> <p style="text-align: center;">Codes to add are given in the table below:</p> <table border="0"> <tr> <td>96</td> <td>Environmentally hazardous substance (RID 5.2.1.8)</td> </tr> <tr> <td>97</td> <td>More than 8 tons of dangerous goods packaged in limited quantities (LQ)</td> </tr> </table> <p>The following documentation serves for the existing codes:</p> <table border="0"> <tr><td>1</td><td>Container</td></tr> <tr><td>2</td><td>Other intermodal traffic</td></tr> <tr><td>3</td><td>Rolling road (RR)</td></tr> <tr><td>6</td><td>Semi-Trailer on bogies</td></tr> <tr><td>10</td><td>1 - danger of explosion (subclass 1.1, 1.2, 1.3)</td></tr> <tr><td>14</td><td>1.4 - danger of explosion (subclass 1.4)</td></tr> <tr><td>15</td><td>1.5 - danger of explosion (subclass 1.5)</td></tr> <tr><td>16</td><td>1.6 - danger of explosion (subclass 1.6)</td></tr> <tr><td>21</td><td>2.1 - inflammable gases</td></tr> <tr><td>22</td><td>2.2 - non inflammable,non-toxic gases</td></tr> <tr><td>23</td><td>2.3 - toxic gases</td></tr> <tr><td>30</td><td>3 - fire hazard (inflammable liquids)</td></tr> <tr><td>41</td><td>4.1 - fire hazard (inflammable solids)</td></tr> <tr><td>42</td><td>4.2 - spontaneously inflammable</td></tr> <tr><td>43</td><td>4.3 - gives off inflammable gas on contact with water</td></tr> <tr><td>51</td><td>5.1 - combustible substance</td></tr> <tr><td>52</td><td>5.2 - organic peroxide</td></tr> <tr><td>61</td><td>6.1 - toxic substance</td></tr> <tr><td>62</td><td>6.2 - infectious substance</td></tr> <tr><td>71</td><td>7A - radioactive substance in category I packing WHITE</td></tr> <tr><td>72</td><td>7B - radioactive substance in category II packing YELLOW</td></tr> <tr><td>73</td><td>7C - radioactive substance in category III packing YELLOW</td></tr> <tr><td>74</td><td>7D - Common label for radioactive substances included under 7A, 7B + 7C</td></tr> <tr><td>75</td><td>7E - fissible substance</td></tr> <tr><td>80</td><td>8 - corrosive substance</td></tr> <tr><td>90</td><td>Various dangerous substance and objects not covered by the other classes</td></tr> <tr><td>98</td><td>Livestock</td></tr> <tr><td>99</td><td>Perishables</td></tr> </table> | 96 | Environmentally hazardous substance (RID 5.2.1.8) | 97 | More than 8 tons of dangerous goods packaged in limited quantities (LQ) | 1 | Container | 2 | Other intermodal traffic | 3 | Rolling road (RR) | 6 | Semi-Trailer on bogies | 10 | 1 - danger of explosion (subclass 1.1, 1.2, 1.3) | 14 | 1.4 - danger of explosion (subclass 1.4) | 15 | 1.5 - danger of explosion (subclass 1.5) | 16 | 1.6 - danger of explosion (subclass 1.6) | 21 | 2.1 - inflammable gases | 22 | 2.2 - non inflammable,non-toxic gases | 23 | 2.3 - toxic gases | 30 | 3 - fire hazard (inflammable liquids) | 41 | 4.1 - fire hazard (inflammable solids) | 42 | 4.2 - spontaneously inflammable | 43 | 4.3 - gives off inflammable gas on contact with water | 51 | 5.1 - combustible substance | 52 | 5.2 - organic peroxide | 61 | 6.1 - toxic substance | 62 | 6.2 - infectious substance | 71 | 7A - radioactive substance in category I packing WHITE | 72 | 7B - radioactive substance in category II packing YELLOW | 73 | 7C - radioactive substance in category III packing YELLOW | 74 | 7D - Common label for radioactive substances included under 7A, 7B + 7C | 75 | 7E - fissible substance | 80 | 8 - corrosive substance | 90 | Various dangerous substance and objects not covered by the other classes | 98 | Livestock | 99 | Perishables |
| 96 | Environmentally hazardous substance (RID 5.2.1.8)  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 97 | More than 8 tons of dangerous goods packaged in limited quantities (LQ)  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 1  | Container  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 2  | Other intermodal traffic   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 3  | Rolling road (RR)  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 6  | Semi-Trailer on bogies   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 10 | 1 - danger of explosion (subclass 1.1, 1.2, 1.3)   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 14 | 1.4 - danger of explosion (subclass 1.4)   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 15 | 1.5 - danger of explosion (subclass 1.5)   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 16 | 1.6 - danger of explosion (subclass 1.6)   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 21 | 2.1 - inflammable gases  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 22 | 2.2 - non inflammable,non-toxic gases  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 23 | 2.3 - toxic gases  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 30 | 3 - fire hazard (inflammable liquids)  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 41 | 4.1 - fire hazard (inflammable solids)   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 42 | 4.2 - spontaneously inflammable  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 43 | 4.3 - gives off inflammable gas on contact with water  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 51 | 5.1 - combustible substance  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 52 | 5.2 - organic peroxide   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 61 | 6.1 - toxic substance  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 62 | 6.2 - infectious substance   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 71 | 7A - radioactive substance in category I packing WHITE   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 72 | 7B - radioactive substance in category II packing YELLOW   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 73 | 7C - radioactive substance in category III packing YELLOW  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 74 | 7D - Common label for radioactive substances included under 7A, 7B + 7C  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 75 | 7E - fissible substance  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 80 | 8 - corrosive substance  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 90 | Various dangerous substance and objects not covered by the other classes   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 98 | Livestock  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
| 99 | Perishables  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |
|    | <p>.../ns1:WagonData/ns1:WagonOperationalData/ns1:RestrictionsDueToLoadOrDamage<br/>                 Type: ns1:RestrictionCodes [0..9]<br/>                 Annotation: These are possible restrictions applicable in the originating country to shunting operations in stations and to main-line movements on account of the nature of the load. Coding in Restriction Codes (according to UIC Leaflet 920-13)</p>  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |    |  |    |                         |    |                                       |    |                   |    |                                       |    |  |    |                                 |    |   |    |                             |    |                        |    |                       |    |                            |    |  |    |  |    |   |    |   |    |                         |    |                         |    |  |    |           |    |             |

|  |   |   |
|--|---|---|
|  |   | <p>.../ns1:WagonData/ns1:WagonOperationalData/ns1:TotalLoadWeight<br/>                 Type: ns1:WeightValueKilo [0..1]<br/>                 Annotation: The total weight of the transportation unit on the freight wagon. This is the booked or actual weight of goods including packing and carrier's equipment</p> |
| <p><a href="#">.../SG23/EQD/C237</a><br/>                 Type: C237 [0..1]<br/>                 Annotation:<br/>                 EQUIPMENT IDENTIFICATION</p> | <p><i>direct</i></p>  | <p>.../ns1:TrainCompositionJourneySection/ns1:WagonData/ns1:WagonTechData<br/>                 Type: restriction of xs:anyType<br/>                 Annotation: This element shows the wagon relevant technical data for the wagons within a running train</p>  |
| <p><a href="#">.../MEA/C174/F6411</a><br/>                 Type: F6411 [0..1]<br/>                 Annotation:<br/>                 Measurement unit code</p>  | <p><a href="#">core.equal =&gt; a   result =&gt;</a><br/> <a href="#">core.filter =&gt; bool   on-true =&gt;</a><br/> <a href="#">core.multiply =&gt; value1   result =&gt;</a></p> | <p>.../ns1:WagonData/ns1:WagonTechData/ns1:WagonLength<br/>                 Type: restriction of xs:int<br/>                 Annotation: Length over buffers in cms</p>   |
| <p><a href="#">.../MEA/C174/F6314</a><br/>                 Type: F6314 [0..1]<br/>                 Annotation: Measure</p>                                     | <p><a href="#">core.filter =&gt; node/row   on-true =&gt;</a><br/> <a href="#">core.multiply =&gt; value1   result =&gt;</a></p>  |   |
| <p><a href="#">core.constant("DTM")</a></p>  | <p><a href="#">core.equal =&gt; b   result =&gt;</a><br/> <a href="#">core.filter =&gt; bool   on-true =&gt;</a><br/> <a href="#">core.multiply =&gt; value1   result =&gt;</a></p> |   |
| <p><a href="#">core.constant("10")</a></p>   | <p><a href="#">core.multiply =&gt; value2   result =&gt;</a></p>  |   |
| <p><a href="#">.../MEA/C174/F6411</a><br/>                 Type: F6411 [0..1]<br/>                 Annotation:<br/>                 Measurement unit code</p>  | <p><a href="#">core.equal =&gt; a   result =&gt;</a><br/> <a href="#">core.filter =&gt; bool   on-true =&gt;</a></p>  | <p>.../ns1:WagonData/ns1:WagonTechData/ns1:WagonNumberOfAxles<br/>                 Type:<br/>                 Annotation: Number of Axels for a wagon</p>   |
| <p><a href="#">.../MEA/C174/F6314</a><br/>                 Type: F6314 [0..1]<br/>                 Annotation: Measure</p>                                     | <p><a href="#">core.filter =&gt; node/row   on-true =&gt;</a></p>   |   |
| <p><a href="#">core.constant("PCE")</a></p>  | <p><a href="#">core.equal =&gt; b   result =&gt;</a><br/> <a href="#">core.filter =&gt; bool   on-true =&gt;</a></p>  |   |
|  |   | <p>.../ns1:WagonData/ns1:WagonTechData/ns1:AirBrakeType<br/>                 Type: [0..1]<br/>                 Annotation: Classification of air brake.<br/>                 additional code:<br/>                 8      No air brake or brake pipe      The code is defined in UIC Leaflet 920-13.</p>              |
|  |   | <p>.../ns1:WagonData/ns1:WagonTechData/ns1:BrakingPowerVariationDevice<br/>                 Type: [0..1]<br/>                 Annotation: Coding in 404-2, chapter 1.8</p>  |
|  |   | <p>.../ns1:WagonData/ns1:WagonTechData/ns1:AirBrakeSpecialCharacteristic<br/>                 Type: restriction of xs:integer [0..1]<br/>                 Annotation: Coding in 404-2, chapter 1.8</p>  |
|  |   | <p>.../ns1:WagonData/ns1:WagonTechData/ns1:HandBrakeType<br/>                 Type: [0..1]<br/>                 Annotation: Classification of hand brake:</p> <p>0      No hand brake<br/>                 1      Ground-operated hand brake<br/>                 2      Platform-operated hand brake</p>             |
|  |   | <p>.../ns1:WagonData/ns1:WagonTechData/ns1:HandBrakeBrakedWeight<br/>                 Type: ns1:Numeric3-3 [0..1]<br/>                 Annotation: Coding in 404-2, chapter 1.7</p>   |
|  |   | <p>.../ns1:WagonData/ns1:WagonTechData/ns1:NormalLoadingGauge</p>   |

|  |  |   |
|--|--|---|
|  |  | <p>Type: restriction of xs:token [0..1]<br/>                 Annotation: Wagon or load gauge code used in UK, coded in UIC 505-1 and 503:<br/>                 All codes are defined in the UIC Leaflet 505-1 and 503, as well as in the EN 15273-2. For details please refer to EN 15273-2:2013 (Railway applications - Gauges - Part 2: Rolling stock gauge). For the existing gauges in the list, the Annex B.3 should be used. For the new ones, use the table below.<br/>                 Candidate:<br/>                 G1, G2, GA, GB, GC, CM, CE, M2, M3, M4, GB1, GB2, GB-M6, GHE16, W6-A.<br/>                 Lately added:<br/>                 G1                      Annex A.3<br/>                 G2                      Annex E.1.2<br/>                 GB2                     Annex C.1.2<br/>                 GB-M6                 Annex N.4 (annex currently in preparation)<br/>                 GHE16                 Annex P.3<br/>                 W6-A                  W6a is designed for non- bogied wagons with axle spacings of 12.8m (42'), and 18.3m length (60')</p> |
| <p><a href="#">../MEA/C174/F6411</a><br/>                 Type: F6411 [0..1]<br/>                 Annotation:<br/>                 Measurement unit code</p> | <p><a href="#">core.equal =&gt; a   result =&gt;</a><br/> <a href="#">core.filter =&gt; bool   on-true =&gt;</a></p> | <p>../ns1:WagonData/ns1:WagonTechData/ns1:WagonWeightEmpty<br/>                 Type: ns1:WeightValueKilo<br/>                 Annotation: The weight of an empty wagon according to the entry in the rolling stock database</p>  |
| <p><a href="#">../MEA/C174/F6314</a><br/>                 Type: F6314 [0..1]<br/>                 Annotation: Measure</p>                                    | <p><a href="#">core.filter =&gt; node/row   on-true =&gt;</a></p>  |   |
| <p><a href="#">core.constant("KGM")</a></p>  | <p><a href="#">core.equal =&gt; b   result =&gt;</a><br/> <a href="#">core.filter =&gt; bool   on-true =&gt;</a></p> |   |
|  |  | <p>../ns1:WagonData/ns1:WagonTechData/ns1:TechnicalRestrictions<br/>                 Type: ns1:Numeric2-2 [0..6]</p>  |

**Remaining components**

|   |   |
|---|---|
| <b>core.value-map</b> (IFCSUM -> taf_cat_complete_baseline_2.1.xmd) |   |
| input ( <a href="#">IFCSUM.F0004</a> )                              | result ( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:Sender</a> ) |
| <b>From</b>   | <b>To</b>   |
| ISC_LDZ   | 25  |

|   |  |
|---|--|
| <b>core.concat</b> (IFCSUM, core.constant -> taf_cat_complete_baseline_2.1.xmd)   |  |
| value1 ( <a href="#">IFCSUM.F0065</a> )<br>value2 ( <a href="#">core.constant(":")</a> )<br>value3 ( <a href="#">IFCSUM.F0052</a> )<br>value4 ( <a href="#">core.constant(":")</a> )<br>value5 ( <a href="#">IFCSUM.F0054</a> )<br>value6 ( <a href="#">core.constant(":")</a> )<br>value7 ( <a href="#">IFCSUM.F0051</a> ) | result<br>( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:MessageTypeVersion</a> ) |

|   |  |
|---|--|
| <b>core.value-map</b> (IFCSUM -> taf_cat_complete_baseline_2.1.xmd) |  |
| input ( <a href="#">IFCSUM.F0010</a> )                              | result ( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:Recipient</a> ,<br><a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:TransfereeIM</a> ) |
| <b>From</b>   | <b>To</b>  |
| GVCMPSRU  | 20   |

|   |  |
|---|--|
| <b>core.value-map</b> (IFCSUM -> taf_cat_complete_baseline_2.1.xmd) |  |
| input ( <a href="#">IFCSUM.F1225</a> )                              | result ( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:MessageStatus</a> ) |
| <b>From</b>   | <b>To</b>  |
| 9   | 1  |

|  |   |
|--|---|
| <b>edifact.to-datetime</b> (IFCSUM -> taf_cat_complete_baseline_2.1.xmd)         |   |
| F2380 ( <a href="#">IFCSUM.F2380</a> )<br>F2379 ( <a href="#">IFCSUM.F2379</a> ) | result ( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:MessageDateTime</a> ,<br><a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:StartDate</a> ) |

|   |   |
|---|---|
| <b>core.value-map</b> (IFCSUM -> taf_cat_complete_baseline_2.1.xmd) |   |
| input ( <a href="#">IFCSUM.F1153</a> )                              | result ( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:ObjectType</a> ) |
| <b>From</b>   | <b>To</b>   |
| ON  | TR  |

|  |  |
|--|--|
| <b>core.substring</b> (IFCSUM, core.constant, core.constant -> taf_cat_complete_baseline_2.1.xmd)                                      |  |
| string ( <a href="#">IFCSUM.F2380</a> )<br>start ( <a href="#">core.constant."1"</a> )<br>length ( <a href="#">core.constant."4"</a> ) | result ( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:TimetableYear</a> ) |

|   |   |
|---|---|
| <b>core.equal</b> (IFCSUM, core.constant -> core.filter)                        |   |
| a ( <a href="#">IFCSUM.F6411</a> )<br>b ( <a href="#">core.constant."DTM"</a> ) | result ( <a href="#">core.filter.bool</a> ) |

|   |  |
|---|--|
| <b>core.filter</b> (IFCSUM, core.equal -> core.multiply)                                |  |
| node/row ( <a href="#">IFCSUM.F6314</a> )<br>bool ( <a href="#">core.equal.result</a> ) | on-true ( <a href="#">core.multiply.value1</a> ) |

|   |  |
|---|--|
| <b>core.multiply</b> (core.filter, core.constant -> taf_cat_complete_baseline_2.1.xmd)          |  |
| value1 ( <a href="#">core.filter.on-true</a> )<br>value2 ( <a href="#">core.constant."10"</a> ) | result ( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:WagonLength</a> ) |

|   |   |
|---|---|
| <b>lang.left</b> (IFCSUM, core.constant -> core.value-map)                            |   |
| string ( <a href="#">IFCSUM.F3225</a> )<br>number ( <a href="#">core.constant.2</a> ) | result ( <a href="#">core.value-map.input</a> ) |

|  |   |
|--|---|
| <b>core.value-map</b> (lang.left -> taf_cat_complete_baseline_2.1.xmd) |   |
| input ( <a href="#">lang.left.result</a> )                             | result ( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:CountryCodeISO</a> ,<br><a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:CountryCodeISO</a> ) |
| <b>From</b>  | <b>To</b>   |
| 20   | RU  |
| 25   | LV  |

|   |   |
|---|---|
| <b>core.filter</b> (IFCSUM, core.equal -> taf_cat_complete_baseline_2.1.xmd)          |   |
| node/row ( <a href="#">IFCSUM.LOC</a> )<br>bool ( <a href="#">core.equal.result</a> ) | on-true<br>( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:JourneySectionOrigin</a> ) |

|   |   |
|---|---|
| <b>core.equal</b> (IFCSUM, core.constant -> core.filter)                      |   |
| a ( <a href="#">IFCSUM.F3227</a> )<br>b ( <a href="#">core.constant."5"</a> ) | result ( <a href="#">core.filter.bool</a> ) |

|   |  |
|---|--|
| <b>lang.right</b> (IFCSUM, core.constant -> taf_cat_complete_baseline_2.1.xmd)          |  |
| string ( <a href="#">IFCSUM.F3225</a> )<br>number ( <a href="#">core.constant."6"</a> ) | result<br>( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:LocationPrimaryCode</a> ,<br><a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:LocationPrimaryCode</a> ) |

|   |  |
|---|--|
| <b>core.filter</b> (IFCSUM, core.equal -> taf_cat_complete_baseline_2.1.xmd)          |  |
| node/row ( <a href="#">IFCSUM.LOC</a> )<br>bool ( <a href="#">core.equal.result</a> ) | on-true<br>( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:JourneySectionDestination</a> ) |

|   |   |
|---|---|
| <b>core.equal</b> (IFCSUM, core.constant -> core.filter)                        |   |
| a ( <a href="#">IFCSUM.F6411</a> )<br>b ( <a href="#">core.constant."PCE"</a> ) | result ( <a href="#">core.filter.bool</a> ) |

|   |   |
|---|---|
| <b>core.filter</b> (IFCSUM, core.equal -> taf_cat_complete_baseline_2.1.xmd)            |   |
| node/row ( <a href="#">IFCSUM.F6314</a> )<br>bool ( <a href="#">core.equal.result</a> ) | on-true<br>( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:WagonNumberOfAxles</a> ) |

|   |   |
|---|---|
| <b>core.equal</b> (IFCSUM, core.constant -> core.filter)                      |   |
| a ( <a href="#">IFCSUM.F3227</a> )<br>b ( <a href="#">core.constant."8"</a> ) | result ( <a href="#">core.filter.bool</a> ) |

|   |   |
|---|---|
| <b>core.equal</b> (IFCSUM, core.constant -> core.filter)                        |   |
| a ( <a href="#">IFCSUM.F6411</a> )<br>b ( <a href="#">core.constant."KGM"</a> ) | result ( <a href="#">core.filter.bool</a> ) |

|   |   |
|---|---|
| <b>core.filter</b> (IFCSUM, core.equal -> taf_cat_complete_baseline_2.1.xmd)            |   |
| node/row ( <a href="#">IFCSUM.F6314</a> )<br>bool ( <a href="#">core.equal.result</a> ) | on-true<br>( <a href="#">taf_cat_complete_baseline_2.1.xmd.ns1:WagonWeightEmpty</a> ) |

### Constants

|   |
|---|
| <b>core.constant</b> (-> taf_cat_complete_baseline_2.1.xmd) |
|---|

|       |      |
|-------|------|
| Value | 3003 |
|-------|------|

|                                       |   |
|---------------------------------------|---|
| <b>core.constant</b> (-> core.concat) |   |
| Value                                 | : |

|   |  |
|---|--|
| <b>core.constant</b> (-> taf_cat_complete_baseline_2.1.xmd) |  |
| Value   |  |

|  |   |
|--|---|
| <b>core.constant</b> (-> core.substring) |   |
| Value                                    | 1 |

|                                      |     |
|--------------------------------------|-----|
| <b>core.constant</b> (-> core.equal) |     |
| Value                                | DTM |

|  |   |
|--|---|
| <b>core.constant</b> (-> core.substring) |   |
| Value                                    | 4 |

|   |    |
|---|----|
| <b>core.constant</b> (-> core.multiply) |    |
| Value                                   | 10 |

|                                     |   |
|-------------------------------------|---|
| <b>core.constant</b> (-> lang.left) |   |
| Value                               | 2 |

|                                      |   |
|--------------------------------------|---|
| <b>core.constant</b> (-> lang.right) |   |
| Value                                | 6 |

|                                      |   |
|--------------------------------------|---|
| <b>core.constant</b> (-> core.equal) |   |
| Value                                | 5 |

|                                      |     |
|--------------------------------------|-----|
| <b>core.constant</b> (-> core.equal) |     |
| Value                                | PCE |

|                                      |   |
|--------------------------------------|---|
| <b>core.constant</b> (-> core.equal) |   |
| Value                                | 8 |

|                                      |     |
|--------------------------------------|-----|
| <b>core.constant</b> (-> core.equal) |     |
| Value                                | KGM |





## 5. Трансформация из сообщения ОСЖД H30 XML (V2.0) “Поезд, предварительное уведомление (состав поезда)” в сообщение о составе поезда ТАФ ТСИ XML / Mapping from the OSJD message H30 XML (V2.0) “Train pre-advise (composition)” to the TAF TSI XML “TrainCompositionMessage”

Ссылки / References :

|   |                                       |
|---|---------------------------------------|
| Внутренняя ссылка ЕЖДА файла сопоставления / Internal ERA reference of the mapping file | <b>Transform H30 to TAF XSD.mfd</b>   |
| Дата окончательного сопоставления / Date of the final mapping                           | 13/09/2019                            |
| Описания данных   | 2019_05_06-H30-УЗ-ЗССК КАРГО опис.xls |
| Data descriptions   | 2019_05_06-H30-УЗ-ЗССК КАРГО опис.xls |

Output [taf\\_cat\\_complete\\_baseline\\_2.1.xmd](#) ([taf\\_cat\\_complete\\_baseline\\_2.1.xmd.xsd](#))

| Connections  |   | Nodes  |
|--|---|--|
|  |   | File: X30_2_5995_201806111054 in TAF format.xml<br>Type: string  |
| <a href="#">HE30XML_2.0_2016</a><br>Type: restriction of xs:anyType [0..1]<br>Annotation:<br><a href="http://www.uic.org/leaflet-404-2-appendices">http://www.uic.org/leaflet-404-2-appendices</a> | <i>direct</i>   | ns1:TrainCompositionMessage<br>Type: restriction of xs:anyType [0..1]<br>Annotation: This message is sent from an RU to an IM defining the composition of the proposed train.  |
|  |   | ns1:TrainCompositionMessage/ns1:MessageHeader<br>Type: restriction of xs:anyType<br>Annotation: Used for all messages  |
|  |   | ns1:TrainCompositionMessage/ns1:MessageHeader/ns1:MessageReference<br>Type: restriction of xs:anyType<br>Annotation: This element identifies the message   |
| <a href="#">core.constant(3003)</a>  | <i>direct</i><br>Annotation:<br>Not available in H30 XSD but can be added at train composition creation application level.<br>>> not blocking | .../ns1:MessageHeader/ns1:MessageReference/ns1:MessageType<br>Type: restriction of xs:integer<br>Annotation: To indicate the message type transmitted or referred to. The following list was agreed within the sector:<br>2001 PathCanceledMessage<br>2002 PathConfirmedMessage<br>2003 PathDetailsMessage<br>2004 PathDetailsRefusedMessage<br>2005 PathNotAvailableMessage<br>2006 PathRequestMessage<br>2007 ReceiptConfirmationMessage<br>3001 TrainAcceptedMessage<br>3002 TrainAtStartMessage<br>3003 TrainCompositionMessage<br>3004 TrainNotSuitableMessage<br>3005 TrainPositionMessage<br>3006 TrainReadyMessage<br>4001 TrainDelayCauseMessage<br>4002 TrainDelayPerformanceMessage<br>4003 TrainForecastAtReportingLocationMessage |

|  |  |  |
|--|--|--|
|  |  | <p>4004 TrainRunningForecastMessage<br/>                 4005 TrainRunningInformationMessage<br/>                 4006 TrainRunningInterruptionMessage<br/>                 5001 AlertMessage<br/>                 5002 WagonArrivalNoticeMessage<br/>                 5003 WagonDeliveryNoticeMessage<br/>                 5004 WagonDepartureNoticeMessage<br/>                 5005 WagonDeviationMessage<br/>                 5006 WagonETI_ETA_Message<br/>                 5007 WagonExceptionMessage<br/>                 5008 WagonExceptionReasonMessage<br/>                 5009 WagonInterchangeNoticeMessage<br/>                 5010 WagonInterchangeSubNoticeMessage<br/>                 5011 WagonOrderMessage<br/>                 5012 WagonReceivedAtInterchangeMessage<br/>                 5013 WagonRefusedAtInterchangeMessage<br/>                 5014 WagonReleaseNoticeMessage<br/>                 5015 WagonYardArrivalMessage<br/>                 5016 WagonYardDepartureMessage<br/>                 6001 IRN_DatasetMessage<br/>                 6002 LocationFileDatasetMessage<br/>                 6003 RollingStockDatasetMessage</p> |
| <a href="#">core.constant("2.0")</a>   | <p><i>direct</i><br/>                 Annotation:<br/>                 Not available in H30 XSD but can be added at train composition creation application level.<br/>                 &gt;&gt; not blocking</p> | <p>.../ns1:MessageHeader/ns1:MessageReference/ns1:MessageTypeVersion<br/>                 Type: restriction of xs:string<br/>                 Annotation: Version of the Message Type</p>  |
| <a href="#">HE30XML 2.0 2016/G1/H5</a><br>Type: restriction of xs:short [0..1]<br>Annotation: Zähler der Vormeldung je Zug / Counter of Preadvice per train/Compteur de préannonce par train                           | <i>direct</i>  | <p>.../ns1:MessageHeader/ns1:MessageReference/ns1:MessageIdentifier<br/>                 Type: ns1:FreeText<br/>                 Annotation: Identification of the Message</p>   |
| <a href="#">HE30XML 2.0 2016/G1/H3</a><br>Type: restriction of xs:dateTime<br>Annotation: Erstellungszeitpunkt der Meldung / Message Creation Date Time / Date/Heure de creation du message= YYYY-MM-DDThh:mm:ss+0h:00 | <i>direct</i>  | <p>.../ns1:MessageHeader/ns1:MessageReference/ns1:MessageDateTime<br/>                 Type: xs:dateTime<br/>                 Annotation: Generated by the common Interface</p>  |
|  |  | <p>ns1:TrainCompositionMessage/ns1:MessageHeader/ns1:MessageRoutingID<br/>                 Type: ns1:Numeric2-2 [0..1]<br/>                 Annotation: Additional information used to route the message to the correct receiving application (if needed)</p>  |
|  |  | <p>ns1:TrainCompositionMessage/ns1:MessageHeader/ns1:SenderReference<br/>                 Type: ns1:FreeText [0..1]<br/>                 Annotation: reference used by the sender (e.g. FTP file name)</p>   |
| <a href="#">HE30XML 2.0 2016/G1/H1</a><br>Type: restriction of xs:string<br>Annotation: Sendendes Eisenbahnunternehmen / Sending Railway Company / EF envoyante  | <i>direct</i>  | <p>ns1:TrainCompositionMessage/ns1:MessageHeader/ns1:Sender<br/>                 Type: extension of ns1:CompanyCode<br/>                 Annotation: The sender of the message</p>   |
|  |  | <p>.../ns1:MessageHeader/ns1:Sender/@ns1:CI_InstanceNumber<br/>                 Type: ns1:Numeric2-2 [0..1]<br/>                 Annotation: Number of a Common Interface Instance for the same Company</p>  |
| <a href="#">HE30XML 2.0 2016/G1/H2</a><br>Type: restriction of xs:string<br>Annotation: Empfangendes   | <i>direct</i>  | <p>ns1:TrainCompositionMessage/ns1:MessageHeader/ns1:Recipient<br/>                 Type: extension of ns1:CompanyCode<br/>                 Annotation: Receiver of the message</p>  |

|  |  |   |
|--|--|---|
| Eisenbahnunternehmen /<br>Receiving Railway<br>Company / EF recevante  |  |   |
|  |  | .../ns1:MessageHeader/ns1:Recipient/@ns1:CI_InstanceNumber<br>Type: ns1:Numeric2-2 [0..1]<br>Annotation: Number of a Common Interface Instance for the same Company   |
| <a href="#">core.constant(1)</a>   | <i>direct</i><br>Annotation:<br>In H30 XSD<br>available in the<br>tag H5. If the<br>counter is 1 then<br>this is a<br>CREATION. IF >1<br>then it is<br>MODIFICATION. | ns1:TrainCompositionMessage/ns1:MessageStatus<br>Type:<br>Annotation: Assigned by the Sender 1=creation, 2=modification, 3=deletion   |
|  |  | ns1:TrainCompositionMessage/ns1:TransportOperationalIdentifiers<br>Type: extension of ns1:CompositIdentifierOperationalType [0..∞]  |
|  |  | ns1:TrainCompositionMessage/ns1:TransportOperationalIdentifiers/ns1:ObjectType<br>Type: restriction of xs:string<br>Annotation: Provides a possibility for differentiation between the objects: Train, Path, Case<br>Reference and Path Request   |
|  |  | ns1:TrainCompositionMessage/ns1:TransportOperationalIdentifiers/ns1:Company<br>Type: ns1:CompanyCode<br>Annotation: Identifies a railway company (RU or IM)   |
|  |  | ns1:TrainCompositionMessage/ns1:TransportOperationalIdentifiers/ns1:Core<br>Type: restriction of xs:string<br>Annotation: It is the main part of identifier and is determent by the company that creates it.  |
|  |  | ns1:TrainCompositionMessage/ns1:TransportOperationalIdentifiers/ns1:Variant<br>Type: restriction of xs:string<br>Annotation: The variant shows a relationship between two identifiers referring to the same<br>business case  |
|  |  | ns1:TrainCompositionMessage/ns1:TransportOperationalIdentifiers/ns1:TimetableYear<br>Type: restriction of xs:integer<br>Annotation: Refers to the timetable period in which the business will be carried out  |
|  |  | ns1:TrainCompositionMessage/ns1:TransportOperationalIdentifiers/ns1:StartDate<br>Type: restriction of xs:date<br>Annotation: The start of the date/time in effect   |
|  |  | ns1:TrainCompositionMessage/ns1:OperationalTrainNumberIdentifier<br>Type: restriction of xs:anyType   |
| <a href="#">HE30XML 2.0 2016/GT1/T1 1_1</a><br>Type: restriction of xs:string<br>Annotation: Nummer / Number /<br>numéro   | <i>direct</i>  | ns1:TrainCompositionMessage/ns1:OperationalTrainNumberIdentifier/ns1:OperationalTrainNum<br>ber<br>Type: ns1:String1-8<br>Annotation: Identifies the train for traffic management purposes by the Dispatcher, GSMR<br>services, etc.  |
| <a href="#">HE30XML 2.0 2016/GT1/T1 1_3</a><br>Type: restriction of xs:dateTime<br>Annotation: Fahrplanmässiger<br>Übergangzeitpunkt Grenze<br>oder Bahnhof / Planned Border<br>Crossing Date Time or arrival<br>datetime at the next<br>interchange station / Heure<br>théorique de passage à la<br>frontière = YYYY-MM-<br>DDThh:mm:ss+0h:00 | <i>direct</i>  | ns1:TrainCompositionMessage/ns1:OperationalTrainNumberIdentifier/ns1:ScheduledTimeAtHan<br>dover<br>Type: xs:dateTime [0..1]<br>Annotation: The scheduled departure date and time or the scheduled handover date and time at<br>the border between two different IMs.                           |
| <a href="#">HE30XML 2.0 2016/GT1/T1 1_2</a><br>Type: restriction of xs:dateTime<br>Annotation: Voraussichtlicher<br>tatsächlicher<br>Übergabezeitpunkt Grenze<br>oder Bahnhof/ Planned date<br>time at border crossing or at<br>arrival at the next interchange<br>station/ Date et heure réelle<br>prévue du passage frontière =<br>YYYY-MM-  | <i>direct</i>  | ns1:TrainCompositionMessage/ns1:OperationalTrainNumberIdentifier/ns1:ScheduledDateTImeAt<br>Transfer<br>Type: xs:dateTime [0..1]<br>Annotation: The scheduled arrival at destination date and time or the scheduled outgoing transfer<br>date and time at the border between two different IMs. |

|  |                  |   |
|--|------------------|---|
| DDThh:mm:ss+0h:00  |                  |   |
| <a href="#">HE30XML 2.0 2016/GT1/T1 1_1</a><br>Type: restriction of xs:string<br>Annotation: Nummer / Number / numéro  | <i>direction</i> | ns1:TrainCompositionMessage/ns1:OperationalTrainNumber<br>Type: ns1:String1-8<br>Annotation: Identifies the train for traffic management purposes by the Dispatcher, GSMR services, etc.  |
|  |                  | ns1:TrainCompositionMessage/ns1:ReferenceOTN<br>Type: restriction of xs:anyType [0..1]  |
|  |                  | ns1:TrainCompositionMessage/ns1:ReferenceOTN/ns1:OperationalTrainNumberIdentifier<br>Type: restriction of xs:anyType  |
|  |                  | .../ns1:ReferenceOTN/ns1:OperationalTrainNumberIdentifier/ns1:OperationalTrainNumber<br>Type: ns1:String1-8<br>Annotation: Identifies the train for traffic management purposes by the Dispatcher, GSMR services, etc.  |
|  |                  | .../ns1:ReferenceOTN/ns1:OperationalTrainNumberIdentifier/ns1:ScheduledTimeAtHandover<br>Type: xs:dateTime [0..1]<br>Annotation: The scheduled departure date and time or the scheduled handover date and time at the border between two different IMs.                           |
|  |                  | .../ns1:ReferenceOTN/ns1:OperationalTrainNumberIdentifier/ns1:ScheduledDateTimeAtTransfer<br>Type: xs:dateTime [0..1]<br>Annotation: The scheduled arrival at destination date and time or the scheduled outgoing transfer date and time at the border between two different IMs. |
|  |                  | ns1:TrainCompositionMessage/ns1:TransferPoint<br>Type: ns1:LocationIdent [0..1]<br>Annotation: Transfer point or station of destination in the considered network   |
| <a href="#">HE30XML 2.0 2016/GT1/T1 4_1</a><br>Type: restriction of xs:string [0..1]<br>Annotation: Ländercode des Bestimmungslandes/ Train destination country code / pays de destination | <i>direction</i> | ns1:TrainCompositionMessage/ns1:TransferPoint/ns1:CountryCodeISO<br>Type: extension of ns1:CountryIdentISO<br>Annotation: Identifies a County or State by code (ISO 3166-1)   |
| <a href="#">HE30XML 2.0 2016/GT1/T1 4_2</a><br>Type: restriction of xs:string [0..1]<br>Annotation: Bestimmungsbahnhof Code / Train destination station code / destination en code         | <i>direction</i> | ns1:TrainCompositionMessage/ns1:TransferPoint/ns1:LocationPrimaryCode<br>Type: ns1:Numeric1-5   |
| <a href="#">HE30XML 2.0 2016/GT1/T1 4_3</a><br>Type: restriction of xs:string [0..1]<br>Annotation: Bestimmungsbahnhof Name Train destination station name/ destinationen claire           | <i>direction</i> | ns1:TrainCompositionMessage/ns1:TransferPoint/ns1:PrimaryLocationName<br>Type: ns1:FreeText [0..1]<br>Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet   |
|  |                  | ns1:TrainCompositionMessage/ns1:TransferPoint/ns1:LocationSubsidiaryIdentification<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Code, Name and allocation company of Subsidiary Location  |
|  |                  | ns1:TrainCompositionMessage/ns1:TransfereeIM<br>Type: ns1:CompanyCode [0..1]<br>Annotation: Next IM   |
| <a href="#">HE30XML 2.0 2016/GT2</a><br>Type: restriction of xs:anyType [1..6]<br>Annotation: Übergabepunkte / Interchange Points / Point de transit                                       | <i>direct</i>    | ns1:TrainCompositionMessage/ns1:TrainCompositionJourneySection<br>Type: restriction of xs:anyType [1..99]<br>Annotation: Defines the make up of a train for each section of its journey   |
|  |                  | ns1:TrainCompositionMessage/ns1:TrainCompositionJourneySection/ns1:JourneySection<br>Type: restriction of xs:anyType<br>Annotation: Defines the data provided by the IM for a journey section   |
| <a href="#">HE30XML 2.0 2016/GT2/GT2_4</a><br>Type: restriction of xs:anyType  | <i>direction</i> | .../ns1:TrainCompositionJourneySection/ns1:JourneySection/ns1:JourneySectionOrigin<br>Type: ns1:LocationIdent<br>Annotation: Indication of the Railway or Customer Location   |

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| <p>[0..1]<br/>Annotation:<br/>TCM_Journey_START and/or<br/>Destination PLC</p>   |                      |  |
| <p><a href="#">../GT2/GT2_4/T2_4_1</a><br/>Type: restriction of<br/>xs:string [0..1]<br/>Annotation:<br/>Start_CountryCodeISO<br/>Identifies a County or<br/>State by code (ISO<br/>3166-1)</p>  | <p><i>direct</i></p> | <p>.../ns1:JourneySection/ns1:JourneySectionOrigin/ns1:CountryCodeISO<br/>Type: extension of ns1:CountryIdentISO<br/>Annotation: Identifies a County or State by code (ISO 3166-1)</p>   |
| <p><a href="#">../GT2/GT2_4/T2_4_2</a><br/>Type: restriction of<br/>xs:integer [0..1]<br/>Annotation:<br/>Start_LocationPrimaryCode</p>  | <p><i>direct</i></p> | <p>.../ns1:JourneySection/ns1:JourneySectionOrigin/ns1:LocationPrimaryCode<br/>Type: ns1:Numeric1-5</p>  |
| <p><a href="#">../GT2/GT2_4/T2_4_3</a><br/>Type: restriction of xs:string<br/>[0..1]<br/>Annotation:<br/>Start_PrimaryLocationName<br/>Location Name in an<br/>offication language of the<br/>Country using the ISO<br/>Unicode alphabet</p>       | <p><i>direct</i></p> | <p>.../ns1:JourneySection/ns1:JourneySectionOrigin/ns1:PrimaryLocationName<br/>Type: ns1:FreeText [0..1]<br/>Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet</p>   |
|  |                      | <p>.../ns1:JourneySection/ns1:JourneySectionOrigin/ns1:LocationSubsidiaryIdentification<br/>Type: restriction of xs:anyType [0..1]<br/>Annotation: Code, Name and allocation company of Subsidiary Location</p>  |
| <p><a href="#">HE30XML_2.0_2016/GT2/GT2_4</a><br/>Type: restriction of xs:anyType<br/>[0..1]<br/>Annotation:<br/>TCM_Journey_START and/or<br/>Destination PLC</p>  | <p><i>direct</i></p> | <p>.../ns1:TrainCompositionJourneySection/ns1:JourneySection/ns1:JourneySectionDestination<br/>Type: ns1:LocationIdent<br/>Annotation: Indication of the Railway or Customer Location</p>  |
| <p><a href="#">../GT2/GT2_4/T2_4_4</a><br/>Type: restriction of xs:string<br/>Annotation:<br/>Destination_CountryCodeISO<br/>Identifies a County or State<br/>by code (ISO 3166-1)</p>   | <p><i>direct</i></p> | <p>.../ns1:JourneySection/ns1:JourneySectionDestination/ns1:CountryCodeISO<br/>Type: extension of ns1:CountryIdentISO<br/>Annotation: Identifies a County or State by code (ISO 3166-1)</p>  |
| <p><a href="#">../GT2/GT2_4/T2_4_5</a><br/>Type: restriction of xs:integer<br/>Annotation:<br/>Destination_LocationPrimaryCode</p>   | <p><i>direct</i></p> | <p>.../ns1:JourneySection/ns1:JourneySectionDestination/ns1:LocationPrimaryCode<br/>Type: ns1:Numeric1-5</p>   |
| <p><a href="#">../GT2/GT2_4/T2_4_6</a><br/>Type: restriction of xs:string<br/>[0..1]<br/>Annotation:<br/>Destination_PrimaryLocationName<br/>Location Name in an<br/>offication language of the<br/>Country using the ISO Unicode<br/>alphabet</p> | <p><i>direct</i></p> | <p>.../ns1:JourneySection/ns1:JourneySectionDestination/ns1:PrimaryLocationName<br/>Type: ns1:FreeText [0..1]<br/>Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet</p>  |
|  |                      | <p>.../ns1:JourneySection/ns1:JourneySectionDestination/ns1:LocationSubsidiaryIdentification<br/>Type: restriction of xs:anyType [0..1]<br/>Annotation: Code, Name and allocation company of Subsidiary Location</p>   |
|  |                      | <p>.../ns1:JourneySectionDestination/ns1:LocationSubsidiaryIdentification/ns1:LocationSubsidiaryCode<br/>Type: extension of ns1:String1-10<br/>Annotation: this element identifies a location as a part of primary location e.g. a junction, a signal, a passing loop etc., It is unique when used in combination with a "LocationPrimaryCode"</p> |
|  |                      | <p>.../ns1:JourneySectionDestination/ns1:LocationSubsidiaryIdentification/ns1:AllocationCompany<br/>Type: ns1:CompanyCode<br/>Annotation: Name of company who is responsible for allocation and maintenance of codes</p>   |

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|   |   | <p>.../ns1:JourneySectionDestination/ns1:LocationSubsidiaryIdentification/ns1:LocationSubsidiaryName</p> <p>Type: ns1:FreeText [0..1]</p> <p>Annotation: To be completed in an official language of the Country using the ISO Unicode alphabet</p>  |
|   |   | <p>.../ns1:TrainCompositionJourneySection/ns1:JourneySection/ns1:ResponsibilityActualSection</p> <p>Type: restriction of xs:anyType</p> <p>Annotation: This element identifies the responsible RU or IM for the actual path section</p>   |
| <p><a href="#">.../GT2/GT2_5/T2_5_1</a></p> <p>Type: restriction of xs:positiveInteger [0..1]</p> <p>Annotation: ResponsibleRU_Actual</p> | <p>direct</p>   | <p>.../ns1:JourneySection/ns1:ResponsibilityActualSection/ns1:ResponsibleRU</p> <p>Type: ns1:CompanyCode</p> <p>Annotation: RU Responsible for the physical operation of the train or wagon</p>   |
| <p><a href="#">.../GT2/GT2_5/T2_5_2</a></p> <p>Type: restriction of xs:positiveInteger [0..1]</p> <p>Annotation: ResponsibleIM_Actual</p> | <p>direct</p>   | <p>.../ns1:JourneySection/ns1:ResponsibilityActualSection/ns1:ResponsibleIM</p> <p>Type: ns1:CompanyCode</p> <p>Annotation: IM Responsible for Reporting.</p> <p>For Path Requests, this element has to be used</p> <ul style="list-style-type: none"> <li>- in the first journey location (origin of train)</li> <li>- in journey locations (could even be a network border without stopping of the train) in case where the IM on the oncoming section changes from the legal point of view. This means, the new IM has the legal responsibility for the oncoming section.</li> </ul>   |
|   |   | <p>.../ns1:TrainCompositionJourneySection/ns1:JourneySection/ns1:ResponsibilityNextSection</p> <p>Type: restriction of xs:anyType</p> <p>Annotation: This element identifies the responsible RU and IM for the following path section</p>   |
| <p><a href="#">.../GT2/GT2_5/T2_5_3</a></p> <p>Type: restriction of xs:positiveInteger [0..1]</p> <p>Annotation: ResponsibleRU_Next</p>   | <p>direct</p>   | <p>.../ns1:JourneySection/ns1:ResponsibilityNextSection/ns1:ResponsibleRU</p> <p>Type: ns1:CompanyCode</p> <p>Annotation: RU Responsible for the physical operation of the train or wagon</p>   |
| <p><a href="#">.../GT2/GT2_5/T2_5_4</a></p> <p>Type: restriction of xs:positiveInteger [0..1]</p> <p>Annotation: ResponsibleIM_Next</p>   | <p>direct</p>   | <p>.../ns1:JourneySection/ns1:ResponsibilityNextSection/ns1:ResponsibleIM</p> <p>Type: ns1:CompanyCode</p> <p>Annotation: IM Responsible for Reporting.</p> <p>For Path Requests, this element has to be used</p> <ul style="list-style-type: none"> <li>- in the first journey location (origin of train)</li> <li>- in journey locations (could even be a network border without stopping of the train) in case where the IM on the oncoming section changes from the legal point of view. This means, the new IM has the legal responsibility for the oncoming section.</li> </ul>   |
|   |   | <p>ns1:TrainCompositionMessage/ns1:TrainCompositionJourneySection/ns1:TrainRunningData</p> <p>Type: restriction of xs:anyType</p> <p>Annotation: Train relevant data for a running train</p>  |
| <p><a href="#">core.constant("")</a></p>  | <p>direct</p> <p>Annotation: Not available in H30 XSD but can be compiled from the tags from GW1 to GWA4 (which contain similar data but at wagon level). &gt;&gt; not blocking</p> | <p>.../ns1:TrainCompositionJourneySection/ns1:TrainRunningData/ns1:TrainRunningTechData</p> <p>Type: restriction of xs:anyType</p> <p>Annotation: Shows the relevant technical data for a running train</p>   |
|   |   | <p>.../ns1:TrainRunningData/ns1:TrainRunningTechData/ns1:TrainType</p> <p>Type:</p> <p>Annotation:</p> <p>1 Passenger train Commercial train with passenger coaches or trainsets</p> <p>Empty run of Train with passenger coaches or trainsets</p> <p>Including Crew train (for Train Crew Members)</p> <p>2 Freight train Train with freight wagons</p> <p>3 Light engine (locomotive train) One or more engines without any carriages</p> <p>4 Engineering train Train for measurement, maintenance, instructions, homologation, etc</p> <p>0 Other Train types that are not covered with the four codes given above can be codified as "other" in the messages</p> <p>Passenger with Freight - military trains, the Overnight Express; Royalty, Head of States</p> |

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|  |                              | .../ns1:TrainRunningData/ns1:TrainRunningTechData/ns1:TrainWeight<br>Type:<br>Annotation: The sum of all weights of wagons and traction units   |
|  |                              | .../ns1:TrainRunningData/ns1:TrainRunningTechData/ns1:TrainLength<br>Type: ns1:Numeric4-4<br>Annotation: The calculated Length of a train (sum of all length over buffer of the wagons and traction units). Expressed in Metres   |
|  |                              | .../ns1:TrainRunningData/ns1:TrainRunningTechData/ns1:TrainCC_System<br>Type: ns1:TrainCC_Syst [0..9]<br>Annotation: Type of Train Control System by code (UIC 407-1)   |
|  |                              | .../ns1:TrainRunningData/ns1:TrainRunningTechData/ns1:TrainRadioSystem<br>Type: restriction of xs:token [0..9]<br>Annotation: The on board radio system of the train in coded format  |
|  |                              | .../ns1:TrainRunningData/ns1:TrainRunningTechData/ns1:TrainMaxSpeed<br>Type: ns1:Speed [0..1]<br>Annotation: The max. possible speed of a train in km/h   |
|  |                              | .../ns1:TrainRunningData/ns1:TrainRunningTechData/ns1:MaxAxleWeight<br>Type: restriction of xs:int [0..1]<br>Annotation: Maximum allowed axle weight for a wagon within a train. Unit in tonnes per axle  |
|  |                              | .../ns1:TrainRunningData/ns1:TrainRunningTechData/ns1:BrakeType<br>Type: restriction of xs:token [0..1]<br>Annotation: Type of braking system.<br>additional:<br>X For indication: brake system of the freight wagon out of order (actually / current)  |
|  |                              | .../ns1:TrainRunningData/ns1:TrainRunningTechData/ns1:BrakeWeight<br>Type: restriction of xs:int [0..1]<br>Annotation: Shows the Braked mass of the wagon according to the type of the braking system, in Tonnes  |
|  |                              | .../ns1:TrainRunningData/ns1:TrainRunningTechData/ns1:NumberOfVehicles<br>Type: restriction of xs:integer [0..1]<br>Annotation: The sum of number of wagons and number of traction units  |
|  |                              | .../ns1:TrainRunningData/ns1:TrainRunningTechData/ns1:NumberOfAxles<br>Type: restriction of xs:integer [0..1]<br>Annotation: The sum of number of axles of all wagons and all traction units  |
|  |                              | .../ns1:TrainCompositionJourneySection/ns1:TrainRunningData/ns1:ExceptionalGaugingInd<br>Type: ns1:InfoIndex [0..1]<br>Annotation: Indicates that an exceptional Gauging is in the train or for the wagon   |
|  |                              | .../ns1:TrainCompositionJourneySection/ns1:TrainRunningData/ns1:DangerousGoodsIndication<br>Type: ns1:DanGoodsType [0..1]<br>Annotation: Identifies the Dangerous Goods by code   |
|  |                              | .../ns1:TrainCompositionJourneySection/ns1:TrainRunningData/ns1:Activities<br>Type: restriction of xs:anyType [0..99]   |
|  |                              | ns1:TrainCompositionMessage/ns1:TrainCompositionJourneySection/ns1:Locodent<br>Type: restriction of xs:anyType [0..∞]<br>Annotation: Defines the actual Type, the number and the mode of deployment of a traction unit of the freight train   |
| <a href="#">.../GWLS/GWLS 6/WLS 6</a><br>Type: restriction of xs:short<br>Annotation: Merkmal / Characteristic / caractéristique                                     | <i>direct</i>                | ns1:TrainCompositionMessage/ns1:TrainCompositionJourneySection/ns1:LivestockOrPeopleIndicator<br>Type: restriction of xs:integer<br>Annotation: Indicates that livestock and people (other than train crew) will be carried. Coding: if live animals or people are transported = 1, in opposite case = 0. If code = 1, then at the wagon level for at least one wagon Info- Goods Shape, Type and Danger has to include the code '98' or Restrictions due to Load or Damage has to include code '09.' |
| <a href="#">HE30XML 2.0 2016/GW</a><br>Type: restriction of xs:anyType [0..99]<br>Annotation: Angaben zum Wagenzug (A-Z) / Wagon list (A-Z) / Liste des wagons (A-Z) | <i>direct</i>                | ns1:TrainCompositionMessage/ns1:TrainCompositionJourneySection/ns1:WagonData<br>Type: restriction of xs:anyType [1..∞]<br>Annotation: Wagon relevant data for the wagons within a running train   |
| <a href="#">.../GW/GW1/I1 0</a><br>Type: restriction of xs:string<br>Annotation: 1.0 - Wagennummer / WagonNumber / numéro de wagon                                   | <i>Direct see chapter 11</i> | .../ns1:TrainCompositionJourneySection/ns1:WagonData/ns1:WagonNumberFreight<br>Type: ns1:WagonIdent<br>Annotation: Identifies uniquely the freight wagon by its number  |



|   |   |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |
|---|---|---|----|---|----|---|---|-----------|---|--------------------------|---|-------------------|---|------------------------|----|--|----|--|----|--|
| <p><a href="#">core.constant(99)</a></p>  | <p><i>direct</i><br/>Annotation:<br/>In H30 XSD available in the tag GW (shows the sorting start from loco or from end of train) and wagon position can be derived from the position individual wagon data in the XML message</p> | <p>.../ns1:TrainCompositionJourneySection/ns1:WagonData/ns1:WagonTrainPosition<br/>Type: restriction of xs:int<br/>Annotation: Identifies the position of a wagon within a train. Sequential number starting with the first wagon at the front of train as N°1.</p>   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |
|   |   | <p>.../ns1:TrainCompositionJourneySection/ns1:WagonData/ns1:WagonOperationalData<br/>Type: restriction of xs:anyType<br/>Annotation: Actual wagon parameters, dependent on load or damage. This group and its elements are optional (contract defines what IM requires). But if there is dangerous goods in the train, then this group is mandatory.</p>  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |
| <p><a href="#">.../GW/GWAWA_2</a><br/>Type: restriction of xs:string<br/>Annotation:<br/>Bremsart aktuell / Braking system actual / régime de freinage</p>  | <p><i>direct</i></p>  | <p>.../ns1:WagonData/ns1:WagonOperationalData/ns1:BrakeType<br/>Type: restriction of xs:token [0..1]<br/>Annotation: Type of braking system.<br/>additional:<br/>X For indication: brake system of the freight wagon out of order (actually / current)</p>  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |
| <p><a href="#">.../GW/GWAWA_1</a><br/>Type: restriction of xs:short<br/>Annotation:<br/>Bremsgewicht aktuell / BrakeWeight actual/ masse</p>  | <p><i>direct</i></p>  | <p>.../ns1:WagonData/ns1:WagonOperationalData/ns1:BrakeWeight<br/>Type: restriction of xs:int [0..1]<br/>Annotation: Shows the Braked mass of the wagon according to the type of the braking system, in Tonnes</p>  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |
| <p><a href="#">.../GW/GW1/I1_2</a><br/>Type: restriction of xs:short<br/>Annotation: 1.2 - Bauartbedingte Höchstgeschwindigkeit / Maximum speed, depending on design characteristics / Régime de vitesse, lié à la construction</p> | <p><i>direct</i></p>  | <p>.../ns1:WagonData/ns1:WagonOperationalData/ns1:WagonMaxSpeed<br/>Type: restriction of xs:int [0..1]<br/>Annotation: Maximum allowed speed of the wagon according to the load and entry in the Rolling Stock Databases. In kmh</p>  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |
|   |   | <p>.../ns1:WagonData/ns1:WagonOperationalData/ns1:ExceptionalGaugingProfile<br/>Type: restriction of xs:string [0..1]<br/>Annotation: Identification of special load. Coding found in 404-2 chapter 4.9.1 (4AN + 3N)</p>  |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |
|   |   | <p>.../ns1:WagonData/ns1:WagonOperationalData/ns1:ExceptionalGaugingIdent<br/>Type: restriction of xs:anyType [0..1]<br/>Annotation: Indicates that an exceptional Gauging is in the train or for the wagon</p>   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |
|   |   | <p>.../ns1:WagonData/ns1:WagonOperationalData/ns1:DangerousGoodsDetails<br/>Type: restriction of xs:anyType [0..99]</p>   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |
|   |   | <p>.../ns1:WagonData/ns1:WagonOperationalData/ns1:InfoOnGoodsShapeTypeDanger<br/>Type: restriction of xs:token [0..9]<br/>Annotation: Additional codified information on the load. Coding Structures as defined in 404-2 chapter 4.1</p> <p style="text-align: center;">Codes to add are given in the table below:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50px;">96</td> <td>Environmentally hazardous substance (RID 5.2.1.8)</td> </tr> <tr> <td>97</td> <td>More than 8 tons of dangerous goods packaged in limited quantities (LQ)</td> </tr> </table> <p>The following documentation serves for the existing codes:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50px;">1</td> <td>Container</td> </tr> <tr> <td>2</td> <td>Other intermodal traffic</td> </tr> <tr> <td>3</td> <td>Rolling road (RR)</td> </tr> <tr> <td>6</td> <td>Semi-Trailer on bogies</td> </tr> <tr> <td>10</td> <td>1 - danger of explosion (subclass 1.1, 1.2, 1.3)</td> </tr> <tr> <td>14</td> <td>1.4 - danger of explosion (subclass 1.4)</td> </tr> <tr> <td>15</td> <td>1.5 - danger of explosion (subclass 1.5)</td> </tr> </table> | 96 | Environmentally hazardous substance (RID 5.2.1.8) | 97 | More than 8 tons of dangerous goods packaged in limited quantities (LQ) | 1 | Container | 2 | Other intermodal traffic | 3 | Rolling road (RR) | 6 | Semi-Trailer on bogies | 10 | 1 - danger of explosion (subclass 1.1, 1.2, 1.3) | 14 | 1.4 - danger of explosion (subclass 1.4) | 15 | 1.5 - danger of explosion (subclass 1.5) |
| 96  | Environmentally hazardous substance (RID 5.2.1.8)   |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |
| 97  | More than 8 tons of dangerous goods packaged in limited quantities (LQ)   |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |
| 1   | Container   |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |
| 2   | Other intermodal traffic  |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |
| 3   | Rolling road (RR)   |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |
| 6   | Semi-Trailer on bogies  |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |
| 10  | 1 - danger of explosion (subclass 1.1, 1.2, 1.3)  |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |
| 14  | 1.4 - danger of explosion (subclass 1.4)  |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |
| 15  | 1.5 - danger of explosion (subclass 1.5)  |   |    |   |    |   |   |           |   |                          |   |                   |   |                        |    |  |    |  |    |  |

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|  |               | <p>16 1.6 - danger of explosion (subclass 1.6)<br/>                 21 2.1 - inflammable gases<br/>                 22 2.2 - non inflammable,non-toxic gases<br/>                 23 2.3 - toxic gases<br/>                 30 3 - fire hazard (inflammable liquids)<br/>                 41 4.1 - fire hazard (inflammable solids)<br/>                 42 4.2 - spontaneously inflammable<br/>                 43 4.3 - gives off inflammable gas on contact with water<br/>                 51 5.1 - combustible substance<br/>                 52 5.2 - organic peroxide<br/>                 61 6.1 - toxic substance<br/>                 62 6.2 - infectious substance<br/>                 71 7A - radioactive substance in category I packing WHITE<br/>                 72 7B - radioactive substance in category II packing YELLOW<br/>                 73 7C - radioactive substance in category III packing YELLOW<br/>                 74 7D - Common label for radioactive substances included under 7A, 7B + 7C<br/>                 75 7E - fissible substance<br/>                 80 8 - corrosive substance<br/>                 90 Various dangerous substance and objects not covered by the other classes<br/>                 98 Livestock<br/>                 99 Perishables</p> |
| <p><a href="#">.../GW/GW2/I2_4</a><br/>                 Type: restriction of xs:string [0..7]<br/>                 Annotation: Schadensbedingte Beschränkung / Restriction due to irregularity / Restriction due aux avaries</p> | <p>direct</p> | <p>.../ns1:WagonData/ns1:WagonOperationalData/ns1:RestrictionsDueToLoadOrDamage<br/>                 Type: ns1:RestrictionCodes [0..9]<br/>                 Annotation: These are possible restrictions applicable in the originating country to shunting operations in stations and to main-line movements on account of the nature of the load. Coding in Restriction Codes (according to UIC Leaflet 920-13)</p>  |
| <p><a href="#">.../GW/GWL/WL1</a><br/>                 Type: restriction of xs:int<br/>                 Annotation: Gesamtgewicht der Ladungen / WeightOfLoads / Masse du chargements</p>  | <p>direct</p> | <p>.../ns1:WagonData/ns1:WagonOperationalData/ns1:TotalLoadWeight<br/>                 Type: ns1:WeightValueKilo [0..1]<br/>                 Annotation: The total weight of the transportation unit on the freight wagon. This is the booked or actual weight of goods including packing and carrier's equipment</p>  |
|  |               | <p>.../ns1:TrainCompositionJourneySection/ns1:WagonData/ns1:WagonTechData<br/>                 Type: restriction of xs:anyType<br/>                 Annotation: This element shows the wagon relevant technical data for the wagons within a running train</p>   |
| <p><a href="#">.../GW/GW1/I1_3</a><br/>                 Type: restriction of xs:int<br/>                 Annotation: 1.3 - Länge über Puffer / LengthOverBuffers / Longueur hors tampons</p>                                     | <p>direct</p> | <p>.../ns1:WagonData/ns1:WagonTechData/ns1:WagonLength<br/>                 Type: restriction of xs:int<br/>                 Annotation: Length over buffers in cms</p>  |
| <p><a href="#">.../GW/GW1/I1_1</a><br/>                 Type: restriction of xs:byte<br/>                 Annotation: 1.1 - Anzahl der Achsen / NumberOfAxles / Nombre d'essieux</p>   | <p>direct</p> | <p>.../ns1:WagonData/ns1:WagonTechData/ns1:WagonNumberOfAxles<br/>                 Type:<br/>                 Annotation: Number of Axels for a wagon</p>  |
| <p><a href="#">.../GW1/G1_8/I1_8_1</a><br/>                 Type: restriction of xs:string<br/>                 Annotation: Bremsart (Code) / Braking system code / régime de freinage</p>                                       | <p>direct</p> | <p>.../ns1:WagonData/ns1:WagonTechData/ns1:AirBrakeType<br/>                 Type: [0..1]<br/>                 Annotation: Classification of air brake.<br/>                 additional code:<br/>                 8 No air brake or brake pipe The code is defined in UIC Leaflet 920-13.</p>   |

|   |               |  |
|---|---------------|--|
| <p><a href="#">.../GW1/G1_8/11_8_2</a><br/>                 Type: restriction of xs:string [0..1]<br/>                 Annotation: Umstellhebel für die lastabhängige Bremsung / BrakingPowerVariationDevice / dispositif de variation de la puissance de freinage en fonction de la charge</p> | <p>direct</p> | <p>.../ns1:WagonData/ns1:WagonTechData/ns1:BrakingPowerVariationDevice<br/>                 Type: [0..1]<br/>                 Annotation: Coding in 404-2, chapter 1.8</p>   |
| <p><a href="#">.../GW1/G1_8/11_8_4</a><br/>                 Type: restriction of xs:short [0..7]<br/>                 Annotation: Wert des charakteristischen Gewichts / ValueOfCharacteristicMass / valeur de la masse caractéristique</p>   | <p>direct</p> | <p>.../ns1:WagonData/ns1:WagonTechData/ns1:AirBrakeSpecialCharacteristic<br/>                 Type: restriction of xs:integer [0..1]<br/>                 Annotation: Coding in 404-2, chapter 1.8</p>   |
| <p><a href="#">.../GW1/G1_7/11_7_1</a><br/>                 Type: restriction of xs:string<br/>                 Annotation: Art der Handbremse / TypeOfHandbrake / type de frein à main</p>   | <p>direct</p> | <p>.../ns1:WagonData/ns1:WagonTechData/ns1:HandBrakeType<br/>                 Type: [0..1]<br/>                 Annotation: Classification of hand brake:<br/>                 0 No hand brake<br/>                 1 Ground-operated hand brake<br/>                 2 Platform-operated hand brake</p>   |
| <p><a href="#">.../GW1/G1_7/11_7_2</a><br/>                 Type: restriction of xs:byte [0..1]<br/>                 Annotation: Handbremsgewicht to / BrakedWeight to / masse freinée to</p>   | <p>direct</p> | <p>.../ns1:WagonData/ns1:WagonTechData/ns1:HandBrakeBrakedWeight<br/>                 Type: ns1:Numeric3-3 [0..1]<br/>                 Annotation: Coding in 404-2, chapter 1.7</p>  |
| <p><a href="#">.../GW/GW1/11_11</a><br/>                 Type: restriction of xs:short [0..1]<br/>                 Annotation: 1.11 - Höhe der Ladeebene des unbeladenen Wagens / Height of loading plane in unladen state / Hauteur du plan de chargement à l'état non chargé</p>              | <p>direct</p> | <p>.../ns1:WagonData/ns1:WagonTechData/ns1:NormalLoadingGauge<br/>                 Type: restriction of xs:token [0..1]<br/>                 Annotation: Wagon or load gauge code used in UK, coded in UIC 505-1 and 503:<br/>                 All codes are defined in the UIC Leaflet 505-1 and 503, as well as in the EN 15273-2. For details please refer to EN 15273-2:2013 (Railway applications - Gauges - Part 2: Rolling stock gauge). For the existing gauges in the list, the Annex B.3 should be used. For the new ones, use the table below.<br/>                 Candidate:<br/>                 G1, G2, GA, GB, GC, CM, CE, M2, M3, M4, GB1, GB2, GB-M6, GHE16, W6-A.<br/>                 Lately added:<br/>                 G1 Annex A.3<br/>                 G2 Annex E.1.2<br/>                 GB2 Annex C.1.2<br/>                 GB-M6 Annex N.4 (annex currently in preparation)<br/>                 GHE16 Annex P.3<br/>                 W6-A W6a is designed for non- bogied wagons with axle spacings of 12.8m (42'), and 18.3m length (60')</p> |
| <p><a href="#">.../GW/GW1/11_4</a><br/>                 Type: restriction of xs:int<br/>                 Annotation: 1.4 - Eigengewicht / Tara / Tare</p>   | <p>direct</p> | <p>.../ns1:WagonData/ns1:WagonTechData/ns1:WagonWeightEmpty<br/>                 Type: ns1:WeightValueKilo<br/>                 Annotation: The weight of an empty wagon according to the entry in the rolling stock database</p>  |
|   |               | <p>.../ns1:WagonData/ns1:WagonTechData/ns1:TechnicalRestrictions<br/>                 Type: ns1:Numeric2-2 [0..6]</p>  |

**Constants**

|   |             |
|---|-------------|
| <p><b>core.constant</b> (-&gt; taf_cat_complete_baseline_2.1.xmd)</p> |             |
| <p>Value</p>  | <p>3003</p> |

|  |     |
|--|-----|
| <b>core.constant</b> ( -> taf_cat_complete_baseline_2.1.xmd) |     |
| Value  | 2.0 |

|  |   |
|--|---|
| <b>core.constant</b> ( -> taf_cat_complete_baseline_2.1.xmd) |   |
| Value  | 1 |

|  |  |
|--|--|
| <b>core.constant</b> ( -> taf_cat_complete_baseline_2.1.xmd) |  |
| Value  |  |

|  |    |
|--|----|
| <b>core.constant</b> ( -> taf_cat_complete_baseline_2.1.xmd) |    |
| Value  | 99 |

**User-defined function defines**

**user.AddWagonPosition**

**Variable components**

|  |   |
|--|---|
| <b>core.variable (integer)</b> (core.constant -> core.add) |   |
| value ( <a href="#">core.constant.1</a> )                  | value ( <a href="#">core.add.value1</a> ) |

|   |   |
|---|---|
| <b>core.variable (integer)</b> (core.add -> core.add) |   |
| value ( <a href="#">core.add.result</a> )             | value ( <a href="#">core.add.value1</a> ) |

**Remaining components**

|   |  |
|---|--|
| <b>core.add</b> (core.variable (integer), core.constant -> core.variable (integer)) |  |
| value1 ( <a href="#">core.variable (integer).value</a> )                            | result ( <a href="#">core.variable (integer).value</a> ) |
| value2 ( <a href="#">core.constant.1</a> )  |  |

|  |  |
|--|--|
| <b>core.add</b> (core.variable (integer), core.constant -> ) |  |
| value1 ( <a href="#">core.variable (integer).value</a> )     |  |
| value2 ( <a href="#">core.constant.1</a> )                   |  |

**Constants**

|  |   |
|--|---|
| <b>core.constant</b> ( -> core.variable (integer), core.add, core.add) |   |
| Value  | 1 |

## 6. Трансформация из сообщения ОСЖД UZ XML 616 “о составе поезда в сообщении о составе поезда ТАФ ТСИ XML / Mapping from the OSJD message UZ XML 616 on train composition to the TAF TSI XML “TrainCompositionMessage”

Ссылки / References :

|   |  |
|---|--|
| Внутренняя ссылка ЕЖДА файла сопоставления / Internal ERA reference of the mapping file | <b>2019_05_06-616 XML-UZ-ПКР Cargo priklad transformed.mfd</b>   |
| Дата окончательного сопоставления / Date of the final mapping                           | 17/02/2020   |
| Описания данных   | Информационное сообщение 616 XML - “Сведения о поезде, транспортных средствах и грузах”. Структура сообщения 616 (Версия 3). |
| Data descriptions   | Info message 616 XML - “Train, vehicle and cargo information”. Structure of message 616 (Version 3).                         |

Output **taf\_cat\_complete** ([taf\\_cat\\_complete.xsd](#))

| Connections   |   | Nodes   |
|---|---|---|
|   |   | File: taf_cat_complete.xml<br>Type: string  |
| <a href="#">UZ-XDOC</a><br>Type: restriction of xs:anyType [0..1] | <i>direct</i>   | TrainCompositionMessage<br>Type: restriction of xs:anyType [0..1]<br>Annotation: This message is sent from an RU to an IM defining the composition of the proposed train.   |
|   |   | TrainCompositionMessage/MessageHeader<br>Type: restriction of xs:anyType<br>Annotation: Used for all messages   |
|   |   | TrainCompositionMessage/MessageHeader/MessageReference<br>Type: restriction of xs:anyType<br>Annotation: This element identifies the message  |
| <a href="#">UZ-XDOC/HEAD/@messcode</a><br>Type: xs:short          | <a href="#">core.value-map =&gt; input   result =&gt;</a> | .../MessageHeader/MessageReference/MessageType<br>Type: restriction of xs:integer<br>Annotation: To indicate the message type transmitted or referred to. The following list was agreed within the sector:<br>2001 PathCanceledMessage<br>2002 PathConfirmedMessage<br>2003 PathDetailsMessage<br>2004 PathDetailsRefusedMessage<br>2005 PathNotAvailableMessage<br>2006 PathRequestMessage<br>2007 ReceiptConfirmationMessage<br>3001 TrainAcceptedMessage<br>3002 TrainAtStartMessage<br>3003 TrainCompositionMessage<br>3004 TrainNotSuitableMessage<br>3005 TrainPositionMessage<br>3006 TrainReadyMessage<br>4001 TrainDelayCauseMessage<br>4002 TrainDelayPerformanceMessage<br>4003 TrainForecastAtReportingLocationMessage<br>4004 TrainRunningForecastMessage<br>4005 TrainRunningInformationMessage<br>4006 TrainRunningInterruptionMessage |

|   |  |   |
|---|--|---|
|   |  | <p>5001 AlertMessage<br/>                     5002 WagonArrivalNoticeMessage<br/>                     5003 WagonDeliveryNoticeMessage<br/>                     5004 WagonDepartureNoticeMessage<br/>                     5005 WagonDeviationMessage<br/>                     5006 WagonETI_ETA_Message<br/>                     5007 WagonExceptionMessage<br/>                     5008 WagonExceptionReasonMessage<br/>                     5009 WagonInterchangeNoticeMessage<br/>                     5010 WagonInterchangeSubNoticeMessage<br/>                     5011 WagonOrderMessage<br/>                     5012 WagonReceivedAtInterchangeMessage<br/>                     5013 WagonRefusedAtInterchangeMessage<br/>                     5014 WagonReleaseNoticeMessage<br/>                     5015 WagonYardArrivalMessage<br/>                     5016 WagonYardDepartureMessage<br/>                     6001 IRN_DatasetMessage<br/>                     6002 LocationFileDatasetMessage<br/>                     6003 RollingStockDatasetMessage</p> |
| <p><a href="#">UZ-XDOC/BODY/@version</a><br/>                     Type: xs:byte</p> | <p>direct</p>  | <p>.../MessageHeader/MessageReference/MessageTypeVersion<br/>                     Type: restriction of xs:string<br/>                     Annotation: Version of the Message Type</p>   |
| <p><a href="#">UZ-XDOC/HEAD/@uniqkey</a><br/>                     Type: xs:byte</p> | <p>direct</p>  | <p>.../MessageHeader/MessageReference/MessageIdentifier<br/>                     Type: FreeText<br/>                     Annotation: Identification of the Message</p>  |
| <p><a href="#">UZ-XDOC/BODY/@dt</a><br/>                     Type: xs:dateTime</p>  | <p>direct</p>  | <p>.../MessageHeader/MessageReference/MessageDateTime<br/>                     Type: xs:dateTime<br/>                     Annotation: Generated by the common Interface</p>   |
|   |  | <p>TrainCompositionMessage/MessageHeader/MessageRoutingID<br/>                     Type: Numeric2-2 [0..1]<br/>                     Annotation: Additional information used to route the message to the correct receiving application (if needed)</p>   |
|   |  | <p>TrainCompositionMessage/MessageHeader/SenderReference<br/>                     Type: FreeText [0..1]<br/>                     Annotation: reference used by the sender (e.g. FTP file name)</p>  |
| <p><a href="#">core.constant(1151)</a></p>  | <p>direct<br/>                     Annotation:<br/>                     ! In 616 XML it is called "CHANGE"<br/>                     Служебный атрибут автоматизированных систем УЗ / Service attribute of automated UZ systems</p> | <p>TrainCompositionMessage/MessageHeader/Sender<br/>                     Type: extension of CompanyCode<br/>                     Annotation: The sender of the message</p>  |
|   |  | <p>.../MessageHeader/Sender/@CI_InstanceNumber<br/>                     Type: Numeric2-2 [0..1]<br/>                     Annotation: Number of a Common Interface Instance for the same Company</p>   |
| <p><a href="#">core.constant(0022)</a></p>  | <p>direct<br/>                     Annotation:<br/>                     ! In 616 XML it is called "TIGER"<br/>                     Служебный атрибут автоматизированных систем УЗ / Service attribute of automated UZ systems</p>  | <p>TrainCompositionMessage/MessageHeader/Recipient<br/>                     Type: extension of CompanyCode<br/>                     Annotation: Receiver of the message</p>   |
|   |  | <p>.../MessageHeader/Recipient/@CI_InstanceNumber<br/>                     Type: Numeric2-2 [0..1]<br/>                     Annotation: Number of a Common Interface Instance for the same Company</p>  |
| <p><a href="#">core.constant(1)</a></p>   | <p>direct<br/>                     Annotation:<br/>                     ! This information is not in 616 XML<br/>                     Да, верно / Yes, correct</p>   | <p>TrainCompositionMessage/MessageStatus<br/>                     Type:<br/>                     Annotation: Assigned by the Sender 1=creation, 2=modification, 3=deletion</p>  |
|   |  | <p>TrainCompositionMessage/TransportOperationalIdentifiers<br/>                     Type: extension of CompositeIdentifierOperationalType [0..∞]</p>  |

|   |   |  |
|---|---|--|
|   |   | TrainCompositionMessage/OperationalTrainNumberIdentifier<br>Type: restriction of xs:anyType  |
| <a href="#">../BODY/TRAIN/@train_number</a><br>Type: xs:short               | <i>direct</i>   | TrainCompositionMessage/OperationalTrainNumberIdentifier/OperationalTrainNumber<br>Type: String1-8<br>Annotation: Identifies the train for traffic management purposes by the Dispatcher, GSMR services, etc.  |
|   |   | TrainCompositionMessage/OperationalTrainNumberIdentifier/ScheduledTimeAtHandover<br>Type: xs:dateTime [0..1]<br>Annotation: The scheduled departure date and time or the scheduled handover date and time at the border between two different IMs.                           |
| <a href="#">../BODY/TRAIN/@planned_border_crossing</a><br>Type: xs:dateTime | <i>direct</i>   | TrainCompositionMessage/OperationalTrainNumberIdentifier/ScheduledDateTimeAtTransfer<br>Type: xs:dateTime [0..1]<br>Annotation: The scheduled arrival at destination date and time or the scheduled outgoing transfer date and time at the border between two different IMs. |
| <a href="#">../BODY/TRAIN/@train_number</a><br>Type: xs:short               | <i>direct</i>   | TrainCompositionMessage/OperationalTrainNumber<br>Type: String1-8<br>Annotation: Identifies the train for traffic management purposes by the Dispatcher, GSMR services, etc.   |
|   |   | TrainCompositionMessage/ReferenceOTN<br>Type: restriction of xs:anyType [0..1]   |
|   |   | TrainCompositionMessage/TransferPoint<br>Type: LocationIdent [0..1]<br>Annotation: Transfer point or station of destination in the considered network  |
|   |   | TrainCompositionMessage/TransfereelM<br>Type: CompanyCode [0..1]<br>Annotation: Next IM  |
|   |   | TrainCompositionMessage/TrainCompositionJourneySection<br>Type: restriction of xs:anyType [1..99]<br>Annotation: Defines the make up of a train for each section of its journey  |
|   |   | TrainCompositionMessage/TrainCompositionJourneySection/JourneySection<br>Type: restriction of xs:anyType<br>Annotation: Defines the data provided by the IM for a journey section  |
|   |   | .../TrainCompositionJourneySection/JourneySection/JourneySectionOrigin<br>Type: LocationIdent<br>Annotation: Indication of the Railway or Customer Location  |
| <a href="#">../BODY/TRAIN/@forwarding_comp_any</a><br>Type: xs:byte         | <a href="#">core.value-map =&gt; input   result =&gt;</a> | .../JourneySection/JourneySectionOrigin/CountryCodeISO<br>Type: extension of CountryIdentISO<br>Annotation: Identifies a County or State by code (ISO 3166-1)  |
| <a href="#">../BODY/TRAIN/@forwarding_station</a><br>Type: xs:int           | <a href="#">lang.left =&gt; string   result =&gt;</a>     | .../JourneySection/JourneySectionOrigin/LocationPrimaryCode<br>Type: Numeric1-5  |
| <a href="#">core.constant(5)</a>  | <a href="#">lang.left =&gt; number   result =&gt;</a>     |  |
|   |   | .../JourneySection/JourneySectionOrigin/PrimaryLocationName<br>Type: FreeText [0..1]<br>Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet  |
|   |   | .../JourneySection/JourneySectionOrigin/LocationSubsidiaryIdentification<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Code, Name and allocation company of Subsidiary Location   |
|   |   | .../TrainCompositionJourneySection/JourneySection/JourneySectionDestination<br>Type: LocationIdent<br>Annotation: Indication of the Railway or Customer Location   |
| <a href="#">../BODY/TRAIN/@destination_comp_any</a><br>Type: xs:short       | <a href="#">core.value-map =&gt; input   result =&gt;</a> | .../JourneySection/JourneySectionDestination/CountryCodeISO<br>Type: extension of CountryIdentISO<br>Annotation: Identifies a County or State by code (ISO 3166-1)   |
| <a href="#">../BODY/TRAIN/@destination_station</a><br>Type: xs:int          | <a href="#">lang.left =&gt; string   result =&gt;</a>     | .../JourneySection/JourneySectionDestination/LocationPrimaryCode<br>Type: Numeric1-5   |
| <a href="#">core.constant(5)</a>  | <a href="#">lang.left =&gt; number   result =&gt;</a>     |  |

|  |  |   |
|--|--|---|
|  |  | <p>.../JourneySection/JourneySectionDestination/PrimaryLocationName<br/>                 Type: FreeText [0..1]<br/>                 Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet</p>   |
|  |  | <p>.../JourneySection/JourneySectionDestination/LocationSubsidiaryIdentification<br/>                 Type: restriction of xs:anyType [0..1]<br/>                 Annotation: Code, Name and allocation company of Subsidiary Location</p>  |
|  |  | <p>.../TrainCompositionJourneySection/JourneySection/ResponsibilityActualSection<br/>                 Type: restriction of xs:anyType<br/>                 Annotation: This element identifies the responsible RU or IM for the actual path section</p>   |
| <p><a href="#">.../BODY/TRAIN/@forwarding_company</a><br/>                 Type: xs:byte</p>   | <p><i>direct</i><br/>                 Annotation:<br/>                 ! To check if this mapping is correct<br/>                 Да, верно / Yes, correct</p> | <p>.../JourneySection/ResponsibilityActualSection/ResponsibleRU<br/>                 Type: CompanyCode<br/>                 Annotation: RU Responsible for the physical operation of the train or wagon</p>   |
| <p><a href="#">.../BODY/TRAIN/@forwarding_company</a><br/>                 Type: xs:byte</p>   | <p><i>direct</i><br/>                 Annotation:<br/>                 ! To check if this mapping is correct</p>   | <p>.../JourneySection/ResponsibilityActualSection/ResponsibleIM<br/>                 Type: CompanyCode<br/>                 Annotation: IM Responsible for Reporting.<br/>                 For Path Requests, this element has to be used<br/>                 - in the first journey location (origin of train)<br/>                 - in journey locations (could even be a network border without stopping of the train) in case where the IM on the oncoming section changes from the legal point of view. This means, the new IM has the legal responsibility for the oncoming section.</p>                          |
|  |  | <p>.../TrainCompositionJourneySection/JourneySection/ResponsibilityNextSection<br/>                 Type: restriction of xs:anyType<br/>                 Annotation: This element identifies the responsible RU and IM for the following path section</p>   |
| <p><a href="#">.../BODY/TRAIN/@destination_company</a><br/>                 Type: xs:short</p> | <p><i>direct</i><br/>                 Annotation:<br/>                 ! To check if this mapping is correct<br/>                 Да, верно / Yes, correct</p> | <p>.../JourneySection/ResponsibilityNextSection/ResponsibleRU<br/>                 Type: CompanyCode<br/>                 Annotation: RU Responsible for the physical operation of the train or wagon</p>   |
| <p><a href="#">.../BODY/TRAIN/@destination_company</a><br/>                 Type: xs:short</p> | <p><i>direct</i><br/>                 Annotation:<br/>                 ! No distinction between RU and IM</p>  | <p>.../JourneySection/ResponsibilityNextSection/ResponsibleIM<br/>                 Type: CompanyCode<br/>                 Annotation: IM Responsible for Reporting.<br/>                 For Path Requests, this element has to be used<br/>                 - in the first journey location (origin of train)<br/>                 - in journey locations (could even be a network border without stopping of the train) in case where the IM on the oncoming section changes from the legal point of view. This means, the new IM has the legal responsibility for the oncoming section.</p>                            |
|  |  | <p>TrainCompositionMessage/TrainCompositionJourneySection/TrainRunningData<br/>                 Type: restriction of xs:anyType<br/>                 Annotation: Train relevant data for a running train</p>  |
|  |  | <p>.../TrainCompositionJourneySection/TrainRunningData/TrainRunningTechData<br/>                 Type: restriction of xs:anyType<br/>                 Annotation: Shows the relevant technical data for a running train</p>   |
| <p><a href="#">core.constant(2)</a></p>  | <p><i>direct</i></p>   | <p>.../TrainRunningData/TrainRunningTechData/TrainType<br/>                 Type:<br/>                 Annotation:<br/>                 1 Passenger train Commercial train with passenger coaches or trainsets<br/>                 Empty run of Train with passenger coaches or trainsets Including Crew train (for Train Crew Members)<br/>                 2 Freight train Train with freight wagons<br/>                 3 Light engine (locomotive train) One or more engines without any carriages<br/>                 4 Engineering train Train for measurement, maintenance, instructions, homologation, etc</p> |



|  |   |
|--|---|
|  | <p>0 Other Train types that are not covered with the four codes given above can be codified as "other" in the messages<br/>                 Passenger with Freight - military trains, the Overnight Express; Royalty, Head of States</p>  |
| <p><a href="#">UZ-XDOC/BODY/TRAIN</a><br/>                 Type: restriction of xs:anyType</p> | <p><a href="#">core.sum =&gt; parent-context   result =&gt;</a></p> <p>.../TrainRunningData/TrainRunningTechData/TrainWeight<br/>                 Type:<br/>                 Annotation: The sum of all weights of wagons and traction units</p>  |
| <p><a href="#">.../TRAIN/WAGON/@tare</a><br/>                 Type: xs:short</p>               | <p><a href="#">core.add =&gt; value1   result =&gt;</a><br/> <a href="#">core.sum =&gt; values   result =&gt;</a></p>   |
| <p><a href="#">.../TRAIN/WAGON/@weight_of_load</a><br/>                 Type: xs:byte</p>      | <p><a href="#">core.add =&gt; value2   result =&gt;</a><br/> <a href="#">core.sum =&gt; values   result =&gt;</a></p>   |
| <p><a href="#">core.constant(675)</a></p>  | <p><i>direct</i><br/>                 Annotation:<br/>                 ! This information is not in 616 XML<br/>                 Да, отсутствует / Yes, it is missing there</p> <p>.../TrainRunningData/TrainRunningTechData/TrainLength<br/>                 Type: Numeric4-4<br/>                 Annotation: The calculated Length of a train (sum of all length over buffer of the wagons and traction units). Expressed in Metres</p>  |
|  | <p>.../TrainRunningData/TrainRunningTechData/TrainCC_System<br/>                 Type: xs:token [0..9]<br/>                 Annotation: Type of Train Control System. The following types are used:<br/>                 CCS TSI Class A:</p> <p>ETCS Level 0<br/>                 ETCS Level NSC<br/>                 ETCS Level 1<br/>                 ETCS Level 2<br/>                 ETCS Level 3</p> <p>ERA/TD/2011-11, Class B:</p> <p>PZB<br/>                 LZB<br/>                 Crocodile<br/>                 TBL 1<br/>                 TBL 2<br/>                 TVM 430TBL1+<br/>                 EBICAB 700<br/>                 LS<br/>                 ZUB 123<br/>                 ALSN<br/>                 ATP-VR/RHK<br/>                 KVB<br/>                 TVM 300<br/>                 TVM 430<br/>                 KVBP<br/>                 KCVP<br/>                 KCVB<br/>                 NEXTEO<br/>                 DAAT<br/>                 EVM<br/>                 CAWS<br/>                 ATP<br/>                 BACC<br/>                 RSDD/SCMT<br/>                 SSC<br/>                 MEMOR II+<br/>                 SHP<br/>                 PKP<br/>                 ASFA<br/>                 EBICAB 900<br/>                 SELCAB<br/>                 SIGNUM<br/>                 ZUB<br/>                 ATB 1st Gen</p> |

|      |   |       |   |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
|------|---|-------|---|----|---------|----|--|---|-----|------|------------------|----|--|------|--------------|-------|---|------|-------------|-------|--|------|----------------|-------|---|------|--|----|---|
|      | <p>ATB Next Gen<br/>                 GW ATP<br/>                 RETB<br/>                 TPWS</p> <p>UIC Leaflet 407-1 Codes (legacy) are covered in the ERA/TD/2011-11:</p> <table border="0"> <tr><td>91</td><td>ETCS L1</td></tr> <tr><td>92</td><td>ETCS L2</td></tr> <tr><td>51</td><td>PZB</td></tr> <tr><td>3</td><td>LZB</td></tr> <tr><td>22</td><td>KVB</td></tr> <tr><td>52</td><td>EVM</td></tr> <tr><td>11</td><td>ZUB</td></tr> <tr><td>31</td><td>ATB</td></tr> <tr><td>32</td><td>ATBNG</td></tr> </table>  | 91    | ETCS L1   | 92 | ETCS L2 | 51 | PZB  | 3 | LZB | 22   | KVB              | 52 | EVM  | 11   | ZUB          | 31    | ATB   | 32   | ATBNG       |       |  |      |                |       |   |      |  |    |   |
| 91   | ETCS L1   |       |   |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
| 92   | ETCS L2   |       |   |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
| 51   | PZB   |       |   |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
| 3    | LZB   |       |   |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
| 22   | KVB   |       |   |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
| 52   | EVM   |       |   |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
| 11   | ZUB   |       |   |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
| 31   | ATB   |       |   |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
| 32   | ATBNG   |       |   |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
|      | <p>.../TrainRunningData/TrainRunningTechData/TrainRadioSystem<br/>                 Type: restriction of xs:token [0..9]<br/>                 Annotation: The on board radio system of the train in coded format</p>   |       |   |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
|      | <p>.../TrainRunningData/TrainRunningTechData/TrainMaxSpeed<br/>                 Type: Speed [0..1]<br/>                 Annotation: The max. possible speed of a train in km/h</p>  |       |   |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
|      | <p>.../TrainRunningData/TrainRunningTechData/MaxAxleWeight<br/>                 Type: restriction of xs:decimal [0..1]<br/>                 Annotation: Indicates the maximum design axle weight (to).</p>  |       |   |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
|      | <p>.../TrainRunningData/TrainRunningTechData/BrakeType<br/>                 Type: restriction of xs:token [0..1]<br/>                 Annotation: Type of braking system.<br/>                 additional:<br/>                 X For indication: brake system of the freight wagon out of order (actually / current)</p>   |       |   |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
|      | <p>.../TrainRunningData/TrainRunningTechData/BrakeWeight<br/>                 Type: restriction of xs:int [0..1]<br/>                 Annotation: Shows the Braked mass of the wagon according to the type of the braking system, in Tonnes</p>   |       |   |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
|      | <p>.../TrainRunningData/TrainRunningTechData/NumberOfVehicles<br/>                 Type: restriction of xs:integer [0..1]<br/>                 Annotation: The sum of number of wagons and number of traction units</p>   |       |   |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
|      | <p>.../TrainRunningData/TrainRunningTechData/NumberOfAxles<br/>                 Type: restriction of xs:integer [0..1]<br/>                 Annotation: The sum of number of axles of all wagons and all traction units</p>   |       |   |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
|      | <p>.../TrainCompositionJourneySection/TrainRunningData/ExceptionalGaugingInd<br/>                 Type: xs:boolean [0..1]<br/>                 Annotation: Indicates that an exceptional gauging is in the train or for the wagon - (true/false)</p>  |       |   |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
|      | <p>.../TrainCompositionJourneySection/TrainRunningData/DangerousGoodsIndicator<br/>                 Type: xs:boolean [0..1]<br/>                 Annotation: Indicates whether Dangerous Goods are allowed (Yes/No Indicator) If "0", then no dangerous goods are allowed. If "1", then the restricted goods are described in DangerousGoodsIndication</p>  |       |   |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
|      | <p>.../TrainCompositionJourneySection/TrainRunningData/Activities<br/>                 Type: restriction of xs:anyType [0..99]</p>  |       |   |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
|      | <p>.../TrainRunningData/Activities/TrainActivityType<br/>                 Type: restriction of xs:string<br/>                 Annotation: Indicates certain treatments or operations required for a train. If national codes are used, the first 2 position will be the ISO country code, followed by 00-99.</p> <table border="0"> <tr> <td>0001</td> <td>Commercial stop</td> <td>RU</td> <td></td> </tr> <tr> <td></td> <td>Board/disembark passenger train, load/unload freight train</td> <td></td> <td></td> </tr> <tr> <td>0002</td> <td>Operational stop</td> <td>IM</td> <td>Stops needed by the IM (e.g. overpassing by another train)</td> </tr> <tr> <td>0003</td> <td>Service stop</td> <td>RU/IM</td> <td>Stops which are used for non-commercial activities (e.g. boarding of staff)</td> </tr> <tr> <td>0004</td> <td>System stop</td> <td>RU/IM</td> <td>allowing the RU to change a system (e.g. signalling system, safety system)</td> </tr> <tr> <td>0005</td> <td>Reversing stop</td> <td>RU/IM</td> <td>stop to enable train unit to run in the opposite direction (without change of engine)</td> </tr> <tr> <td>0006</td> <td>Stops for reversing move or driver change ends</td> <td>RU</td> <td>stop to enable train unit to run in the opposite direction (with using another engine at the other end of the train and change of driver)</td> </tr> </table> | 0001  | Commercial stop   | RU |         |    | Board/disembark passenger train, load/unload freight train |   |     | 0002 | Operational stop | IM | Stops needed by the IM (e.g. overpassing by another train) | 0003 | Service stop | RU/IM | Stops which are used for non-commercial activities (e.g. boarding of staff) | 0004 | System stop | RU/IM | allowing the RU to change a system (e.g. signalling system, safety system) | 0005 | Reversing stop | RU/IM | stop to enable train unit to run in the opposite direction (without change of engine) | 0006 | Stops for reversing move or driver change ends | RU | stop to enable train unit to run in the opposite direction (with using another engine at the other end of the train and change of driver) |
| 0001 | Commercial stop   | RU    |   |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
|      | Board/disembark passenger train, load/unload freight train  |       |   |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
| 0002 | Operational stop  | IM    | Stops needed by the IM (e.g. overpassing by another train)  |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
| 0003 | Service stop  | RU/IM | Stops which are used for non-commercial activities (e.g. boarding of staff)   |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
| 0004 | System stop   | RU/IM | allowing the RU to change a system (e.g. signalling system, safety system)  |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
| 0005 | Reversing stop  | RU/IM | stop to enable train unit to run in the opposite direction (without change of engine)   |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |
| 0006 | Stops for reversing move or driver change ends  | RU    | stop to enable train unit to run in the opposite direction (with using another engine at the other end of the train and change of driver) |    |         |    |  |   |     |      |                  |    |  |      |              |       |   |      |             |       |  |      |                |       |   |      |  |    |   |

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|  | <p>0007 Stops for locomotive to run round train RU stop to enable train unit to run in the opposite direction (with using the same engine at the other end of the train)</p> <p>0008 Technical check/inspection coaches/wagons RU/IM e.g. at origin or intermediate station:<br/>brake test, checking load</p> <p>0009 Change gauge RU/IM continuation on a network with a different gauge with change of bogies or adaptation of the axles (F-&gt;E, SVE-&gt;FI)</p> <p>0010 attach engine/unit RU Unit not previously in service</p> <p>0011 detach engine/unit RU Unit no longer in service</p> <p>0012 change engine RU</p> <p>0013 attach coach/wagon RU</p> <p>0014 detach coach/wagon RU</p> <p>0015 attach and detach coach/wagon RU</p> <p>0016 attach train Operational Train (in service)</p> <p>0017 split train Operational Train (in service)</p> <p>0018 Parking of vehicle RU e.g. need to park the train/composition midway for several hours</p> <p>0019 Mail/parcel services RU</p> <p>0020 shunting RU actual activity of shunting</p> <p>0021 shunting service RU Request for shunting service (if offered by the IM or a third party)</p> <p>0022 Terminal service (terminal in the meaning of final destination) RU<br/>Request for services at the end of a train run (if offered by the IM or a third party)</p> <p>0023 Loco driver change RU</p> <p>0024 Loco driver break RU legal issue, e.g. to respect working law</p> <p>0025 Crew change RU different to loco driver change as for the change of the crew a platform will be needed</p> <p>0026 Custom and passport facilities RU</p> <p>0027 Other stop reason (miscellaneous) RU/IM</p> <p>0028 Boarding only RU</p> <p>0029 Disembarking only RU</p> <p>0030 Stop on request RU</p> <p>0031 Departure equals to arrival time RU If in some stations only arrival times are published, this activity code may used to indicate that the train cannot continue before the published arrival time in case of an early arrival.</p> <p>0032 Departure after disembarking RU mainly used at the end of train run, train may continue as soon as all passengers have disembarked</p> <p>0033 No waiting for connection RU</p> <p>0034 Watering RU Indicates the IM that a track with water access will be needed.</p> <p>0035 Heating Indicates the IM that a track with heating equipment will be needed.</p> <p>0036 Cleaning / disinfecting RU</p> <p>0037 Treatment on plants and live animals RU Watering, Foddering, Milking, Spraying, Closing ventilation flaps, Opening ventilation flaps</p> <p>0038 Treatment of perishable goods RU Checking the temperature, Re-icing, Heating, Checking the proper functioning of the mechanical refrigeration equipment, Refuelling machinery, Switching machinery on or off</p> <p>0039 Administrative operations RU Weighing, Re-forwarding, Submission to phytosanitary inspections</p> <p>0040 Run Through (Passing Time) IM</p> <p>0041 Photo run-by / Photo-stop</p> <p>0042 Train Waiting Waiting according to local rules</p> <p>0043 Train running with another train RU Where trains have been attached at a previous location on the schedule</p> <p>0044 Connecting service to other train RU Association where there is a need to define a relationship between a train and its next service. The same vehicle is used for the next train service. Also called "train-set turnover"</p> <p>0045 Connecting service from other train RU Association where there is a need to define a relationship between a train and its previous service. The same vehicle is reused from the previous train service.</p> <p>National / company codes:<br/>Examples: Numbers 00 to 99 may be used by an IM for Network national purposes, just adding ISO country code</p> <p>CZ01 Stops from new stop opening day</p> <p>UK55 Stop shorter than 1/2 min</p> <p>IT72 Train report stop cancelled</p> |
|  | <p>.../TrainRunningData/Activities/ActivityLocationIdent<br/>Type: LocationIdent<br/>Annotation: Indication of the Railway or Customer Location</p>  |

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|   |   |  | TrainCompositionMessage/TrainCompositionJourneySection/LocIdent<br>Type: restriction of xs:anyType [0..∞]<br>Annotation: Defines the actual Type, the number and the mode of deployment of a traction unit of the freight train   |
| <a href="#">core.constant(0)</a>  | <i>direct</i><br>Annotation:<br>! This information is not in 616 XML<br>Да, отсутствует / Yes, it is missing there          |  | TrainCompositionMessage/TrainCompositionJourneySection/LivestockOrPeopleIndicator<br>Type: restriction of xs:integer<br>Annotation: Indicates that livestock and people (other than train crew) will be carried. Coding: if live animals or people are transported = 1, in opposite case = 0. If code = 1, then at the wagon level for at least one wagon Info- Goods Shape, Type and Danger has to include the code '98' or Restrictions due to Load or Damage has to include code '09.' |
| <a href="#">.../BODY/TRAINWAGON</a><br>Type: restriction of xs:anyType [1..∞] | <i>direct</i><br>Annotation:<br>! Owner and country can be detected from OWNER field in 616 XML<br>Да, верно / Yes, correct |  | TrainCompositionMessage/TrainCompositionJourneySection/WagonData<br>Type: restriction of xs:anyType [0..∞]<br>Annotation: Wagon relevant data for the wagons within a running train   |
| <a href="#">.../TRAIN/WAGON/@number_of_wagon</a><br>Type: xs:int              | <i>Direct see chapt 11</i>  |  | <a href="#">.../TrainCompositionJourneySection/WagonData/WagonNumberFreight</a><br>Type: WagonIdent<br>Annotation: Identifies uniquely the freight wagon by its number  |
| <a href="#">.../TRAIN/WAGON/@sequence_number</a><br>Type: xs:byte             | <i>direct</i>   |  | <a href="#">.../TrainCompositionJourneySection/WagonData/WagonTrainPosition</a><br>Type: restriction of xs:int<br>Annotation: Identifies the position of a wagon within a train. Sequential number starting with the first wagon at the front of train as N°1.  |
| <a href="#">core.constant("")</a>   | <i>direct</i><br>Annotation:<br>! This information is not in 616 XML<br>Да, отсутствует / Yes, it is missing there          |  | <a href="#">.../TrainCompositionJourneySection/WagonData/WagonOperationalData</a><br>Type: restriction of xs:anyType<br>Annotation: Actual wagon parameters, dependent on load or damage. This group and its elements are optional (contract defines what IM requires). But if there is dangerous goods in the train, then this group is mandatory.   |
|   |   |  | <a href="#">.../WagonData/WagonOperationalData/BrakeType</a><br>Type: restriction of xs:token [0..1]<br>Annotation: Type of braking system.<br>additional:<br>X For indication: brake system of the freight wagon out of order (actually / current)   |
|   |   |  | <a href="#">.../WagonData/WagonOperationalData/BrakeWeight</a><br>Type: restriction of xs:int [0..1]<br>Annotation: Shows the Braked mass of the wagon according to the type of the braking system, in Tonnes   |
|   |   |  | <a href="#">.../WagonData/WagonOperationalData/WagonMaxSpeed</a><br>Type: restriction of xs:int [0..1]<br>Annotation: Maximum allowed speed of the wagon according to the load and entry in the Rolling Stock Databases. In kmh   |
|   |   |  | <a href="#">.../WagonData/WagonOperationalData/ExceptionalGaugingProfile</a><br>Type: restriction of xs:string [0..1]<br>Annotation: Identification of special load. Coding found in 404-2 chapter 4.9.1 (4AN + 3N)   |
|   |   |  | <a href="#">.../WagonData/WagonOperationalData/ExceptionalGaugingIdent</a><br>Type: restriction of xs:anyType [0..1]<br>Annotation: Indicates that an exceptional Gauging is in the train or for the wagon  |
|   |   |  | <a href="#">.../WagonOperationalData/ExceptionalGaugingIdent/IM_Partner</a><br>Type: CompanyCode<br>Annotation: Infrastructure Manager  |
|   |   |  | <a href="#">.../WagonOperationalData/ExceptionalGaugingIdent/ExceptionalGaugingCode</a><br>Type: restriction of xs:string<br>Annotation: Acceptance agreement number, coded in UIC 404-2 chapter 4.9.2  |
|   |   |  | <a href="#">.../WagonData/WagonOperationalData/DangerousGoodsDetails</a><br>Type: restriction of xs:anyType [0..99]   |
|   |   |  | <a href="#">.../WagonOperationalData/DangerousGoodsDetails/DangerousGoodsIndication</a><br>Type: DanGoodsType [0..1]<br>Annotation: Identifies dangerous goods  |

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|  | <p>.../DangerousGoodsDetails/DangerousGoodsIndication/HazardIdentificationNumber<br/>Type: restriction of xs:string [0..1]</p>   |
|  | <p>.../DangerousGoodsDetails/DangerousGoodsIndication/UN_Number<br/>Type: restriction of xs:string [0..1]<br/>Annotation: The UNNumber of the dangerous good according to the RID chapter 3.2, table A, column 1. Mandatory, except it concerns a declaration of an empty packaging of the type "EMPTY PACKAGING", "EMPTY RECEPTACLE &lt;=1000L", "EMPTY IBC" or "EMPTY LARGE PACKAGING" .</p>   |
|  | <p>.../DangerousGoodsDetails/DangerousGoodsIndication/DangerLabel<br/>Type: restriction of xs:token [0..5]<br/>Annotation: All Danger Label of this dangerous good according to the RID chapter 3.2, table A, column 5, excepting the shunting labels Model 13 and 15 (CODE: OTIF RID-Specification).</p> <ul style="list-style-type: none"> <li>1 Explosive materials, divisions 1.1, 1.2 and 1.3</li> <li>1.4 Explosive materials, division 1.4</li> <li>1.5 Explosive materials, division 1.5</li> <li>1.6 Explosive materials, division 1.6</li> <li>2.1 Flammable gases</li> <li>2.2 Non-flammable, non-toxic gases</li> <li>2.3 Toxic gases</li> <li>3 Flammable liquids</li> <li>4.1 Flammable solids , self-reactive substances and solid desensitized explosives</li> <li>4.2 Substances liable to spontaneous combustion</li> <li>4.3 Substances which, in contact with water, emit flammable gases</li> <li>5.1 Oxidizing substances</li> <li>5.2 Organic peroxides</li> <li>6.1 Toxic substances</li> <li>6.2 Infectious substances</li> <li>7A Radioactive material, category I</li> <li>7B Radioactive material, category II</li> <li>7C Radioactive material, category III</li> <li>7D (obsolete) should be used for general information about class 7</li> <li>7E Fissile radioactive material</li> <li>8 Corrosive substances</li> <li>9 Miscellaneous dangerous substances and articles</li> </ul> |
|  | <p>.../DangerousGoodsDetails/DangerousGoodsIndication/RID_Class<br/>Type: restriction of xs:string [0..1]<br/>Annotation: The Class of the dangerous good according to the RID chapter 3.2, table A, column 3a.</p>  |
|  | <p>.../DangerousGoodsDetails/DangerousGoodsIndication/PackingGroup<br/>Type: restriction of xs:token [0..1]<br/>Annotation: The Packing Group according to the RID chapter 3.2, table A, column 4. Possible values are "I", "II" or "III", otherwise the Packing Group have to be omitted. Mandatory, if it's foreseen in column 4, except it concerns a declaration of an empty packaging of the type "EMPTY PACKAGING", "EMPTY RECEPTACLE &lt;=1000L", "EMPTY IBC" or "EMPTY LARGE PACKAGING".</p> <ul style="list-style-type: none"> <li>I High danger The description of the codes is taken from:<br/>RID chapter 3.2, table A, column 4</li> <li>II Medium danger</li> <li>III Low danger</li> </ul>  |
|  | <p>.../DangerousGoodsDetails/DangerousGoodsIndication/DangerousGoodsWeight<br/>Type: WeightValueKilo [0..1]<br/>Annotation: The weight of dangerous goods in kilograms</p>   |
|  | <p>.../DangerousGoodsDetails/DangerousGoodsIndication/DangerousGoodsVolume<br/>Type: VolumeValue [0..1]<br/>Annotation: The volume of the dangerous goods in cubic meters</p>  |
|  | <p>.../DangerousGoodsDetails/DangerousGoodsIndication/LimitedQuantityIndicator<br/>Type: xs:boolean<br/>Annotation: Indicator for labelled dangerous goods in limited quantity according to chapter 3.-4 RID</p>   |
|  | <p>.../WagonOperationalData/DangerousGoodsDetails/WeightOfDangerousGoods<br/>Type: restriction of xs:decimal [0..1]<br/>Annotation: Requested by RID specification, weight in kilograms</p>  |
|  | <p>.../WagonData/WagonOperationalData/InfoOnGoodsShapeTypeDanger<br/>Type: restriction of xs:token [0..9]<br/>Annotation: Additional codified information on the load. Coding Structures as defined in 404-2 chapter 4.1</p>   |

Codes to add are given in the table below:

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|  | <p>96 Environmentally hazardous substance (RID 5.2.1.8)<br/>                 97 More than 8 tons of dangerous goods packaged in limited quantities (LQ)</p> <p>The following documentation serves for the existing codes:</p> <p>1 Container<br/>                 2 Other intermodal traffic<br/>                 3 Rolling road (RR)<br/>                 6 Semi-Trailer on bogies<br/>                 10 1 - danger of explosion (subclass 1.1, 1.2, 1.3)<br/>                 14 1.4 - danger of explosion (subclass 1.4)<br/>                 15 1.5 - danger of explosion (subclass 1.5)<br/>                 16 1.6 - danger of explosion (subclass 1.6)<br/>                 21 2.1 - inflammable gases<br/>                 22 2.2 - non inflammable,non-toxic gases<br/>                 23 2.3 - toxic gases<br/>                 30 3 - fire hazard (inflammable liquids)<br/>                 41 4.1 - fire hazard (inflammable solids)<br/>                 42 4.2 - spontaneously inflammable<br/>                 43 4.3 - gives off inflammable gas on contact with water<br/>                 51 5.1 - combustible substance<br/>                 52 5.2 - organic peroxide<br/>                 61 6.1 - toxic substance<br/>                 62 6.2 - infectious substance<br/>                 71 7A - radioactive substance in category I packing WHITE<br/>                 72 7B - radioactive substance in category II packing YELLOW<br/>                 73 7C - radioactive substance in category III packing YELLOW<br/>                 74 7D - Common label for radioactive substances included under 7A, 7B + 7C<br/>                 75 7E - fissile substance<br/>                 80 8 - corrosive substance<br/>                 90 Various dangerous substance and objects not covered by the other classes<br/>                 98 Livestock<br/>                 99 Perishables</p> |
|  | <p>.../WagonData/WagonOperationalData/RestrictionsDueToLoadOrDamage<br/>                 Type: RestrictionCodes [0..9]<br/>                 Annotation: These are possible restrictions applicable in the originating country to shunting operations in stations and to main-line movements on account of the nature of the load. Coding in Restriction Codes (according to UIC Leaflet 920-13)</p>  |
|  | <p>.../WagonData/WagonOperationalData/TotalLoadWeight<br/>                 Type: WeightValueKilo [0..1]<br/>                 Annotation: The total weight of the transportation unit on the freight wagon. This is the booked or actual weight of goods including packing and carrier's equipment</p>  |
|  | <p>.../TrainCompositionJourneySection/WagonData/WagonTechData<br/>                 Type: restriction of xs:anyType<br/>                 Annotation: This element shows the wagon relevant technical data for the wagons within a running train</p>   |
| <p><a href="#">core.constant(25)</a></p>                                   | <p><i>direct</i><br/>                 Annotation:<br/>                 ! This information is not in 616 XML<br/>                 Да, отсутствует / Yes, it is missing there</p> <p>.../WagonData/WagonTechData/LengthOverBuffers<br/>                 Type: restriction of xs:integer<br/>                 Annotation: Length over buffers is expressed in cm.</p>   |
| <p>.../TRAIN/WAGON/@number_of_axles<br/>                 Type: xs:byte</p> | <p><i>direct</i><br/>                 .../WagonData/WagonTechData/WagonNumberOfAxes<br/>                 Type:<br/>                 Annotation: Number of Axels for a wagon</p>  |
|  | <p>.../WagonData/WagonTechData/AirBrakeType<br/>                 Type: [0..1]<br/>                 Annotation: Classification of air brake.<br/>                 additional code:<br/>                 8 No air brake or brake pipe The code is defined in UIC Leaflet 920-13.</p>   |
|  | <p>.../WagonData/WagonTechData/BrakingPowerVariationDevice<br/>                 Type: [0..1]<br/>                 Annotation: Coding in 404-2, chapter 1.8</p>   |
|  | <p>.../WagonData/WagonTechData/AirBrakeSpecialCharacteristic<br/>                 Type: restriction of xs:integer [0..1]<br/>                 Annotation: Coding in 404-2, chapter 1.8</p>   |

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|--|--|--|----|-----------|----|-------------|-----|-------------|-------|--|-------|-----------|------|--|
|  |  | <p>.../WagonData/WagonTechData/HandBrakeType<br/>                 Type: [0..1]<br/>                 Annotation: Classification of hand brake:</p> <p>0 No hand brake<br/>                 1 Ground-operated hand brake<br/>                 2 Platform-operated hand brake</p>   |    |           |    |             |     |             |       |  |       |           |      |  |
|  |  | <p>.../WagonData/WagonTechData/HandBrakeBrakedWeight<br/>                 Type: restriction of xs:integer [0..1]<br/>                 Annotation: Coding in 404-2, chapter 1.7</p>   |    |           |    |             |     |             |       |  |       |           |      |  |
|  |  | <p>.../WagonData/WagonTechData/NormalLoadingGauge<br/>                 Type: restriction of xs:token [0..1]<br/>                 Annotation: Wagon or load gauge code used in UK, coded in UIC 505-1 and 503:<br/>                 All codes are defined in the UIC Leaflet 505-1 and 503, as well as in the EN 15273-2. For details please refer to EN 15273-2:2013 (Railway applications - Gauges - Part 2: Rolling stock gauge). For the existing gauges in the list, the Annex B.3 should be used. For the new ones, use the table below.<br/>                 Candidate:<br/>                 G1, G2, GA, GB, GC, CM, CE, M2, M3, M4, GB1, GB2, GB-M6, GHE16, W6-A.<br/>                 Lately added:</p> <table border="0"> <tr> <td>G1</td> <td>Annex A.3</td> </tr> <tr> <td>G2</td> <td>Annex E.1.2</td> </tr> <tr> <td>GB2</td> <td>Annex C.1.2</td> </tr> <tr> <td>GB-M6</td> <td>Annex N.4 (annex currently in preparation)</td> </tr> <tr> <td>GHE16</td> <td>Annex P.3</td> </tr> <tr> <td>W6-A</td> <td>W6a is designed for non- bogied wagons with axle spacings of 12.8m (42'), and 18.3m length (60')</td> </tr> </table> | G1 | Annex A.3 | G2 | Annex E.1.2 | GB2 | Annex C.1.2 | GB-M6 | Annex N.4 (annex currently in preparation) | GHE16 | Annex P.3 | W6-A | W6a is designed for non- bogied wagons with axle spacings of 12.8m (42'), and 18.3m length (60') |
| G1   | Annex A.3  |  |    |           |    |             |     |             |       |  |       |           |      |  |
| G2   | Annex E.1.2  |  |    |           |    |             |     |             |       |  |       |           |      |  |
| GB2  | Annex C.1.2  |  |    |           |    |             |     |             |       |  |       |           |      |  |
| GB-M6  | Annex N.4 (annex currently in preparation)   |  |    |           |    |             |     |             |       |  |       |           |      |  |
| GHE16  | Annex P.3  |  |    |           |    |             |     |             |       |  |       |           |      |  |
| W6-A   | W6a is designed for non- bogied wagons with axle spacings of 12.8m (42'), and 18.3m length (60') |  |    |           |    |             |     |             |       |  |       |           |      |  |
| <p>.../TRAIN/WAGON/@tare<br/>                 Type: xs:short</p> | <p><i>direct</i></p>   | <p>.../WagonData/WagonTechData/WagonWeightEmpty<br/>                 Type: WeightValueKilo<br/>                 Annotation: The weight of an empty wagon according to the entry in the rolling stock database</p>  |    |           |    |             |     |             |       |  |       |           |      |  |
|  |  | <p>.../WagonData/WagonTechData/TechnicalRestrictions<br/>                 Type: Numeric2-2 [0..6]</p>  |    |           |    |             |     |             |       |  |       |           |      |  |

### Remaining components

|   |                                       |
|---|---------------------------------------|
| <b>core.value-map</b> (2019_05_06-616 XML-UZ-PKP Cargo priklad -> taf_cat_complete) |                                       |
| input (2019_05_06-616 XML-UZ-PKP Cargo priklad.messcode)                            | result (taf_cat_complete.MessageType) |
| <b>From</b>   | <b>To</b>                             |
| 616   | 3003                                  |

|   |   |
|---|---|
| <b>lang.left</b> (2019_05_06-616 XML-UZ-PKP Cargo priklad, core.constant -> taf_cat_complete) |   |
| string (2019_05_06-616 XML-UZ-PKP Cargo priklad.forwarding_station)                           | result (taf_cat_complete.LocationPrimaryCode) |
| number (core.constant.5)  |   |

|   |  |
|---|--|
| <b>core.value-map</b> (2019_05_06-616 XML-UZ-PKP Cargo priklad -> taf_cat_complete) |  |
| input (2019_05_06-616 XML-UZ-PKP Cargo priklad.forwarding_company)                  | result (taf_cat_complete.CountryCodeISO) |
| <b>From</b>   | <b>To</b>                                |
| 22  | UA                                       |
| 20  | RU                                       |
| 51  | PL                                       |

|   |   |
|---|---|
| <b>lang.left</b> (2019_05_06-616 XML-UZ-PAK Cargo prikklad, core.constant -> taf_cat_complete)    |   |
| string (2019_05_06-616 XML-UZ-PAK Cargo prikklad.destination_station)<br>number (core.constant.5) | result (taf_cat_complete.LocationPrimaryCode) |

|  |  |
|--|--|
| <b>core.value-map</b> (2019_05_06-616 XML-UZ-PAK Cargo prikklad -> taf_cat_complete) |  |
| input (2019_05_06-616 XML-UZ-PAK Cargo prikklad.destination_company)                 | result (taf_cat_complete.CountryCodeISO) |
| <b>From</b>  | <b>To</b>                                |
| 22   | UA                                       |
| 20   | RU                                       |
| 51   | PL                                       |
| 2153   | RO                                       |

|   |                                       |
|---|---------------------------------------|
| <b>core.sum</b> (2019_05_06-616 XML-UZ-PAK Cargo prikklad, core.add -> taf_cat_complete)    |                                       |
| parent-context (2019_05_06-616 XML-UZ-PAK Cargo prikklad.TRAIN)<br>values (core.add.result) | result (taf_cat_complete.TrainWeight) |

|  |                          |
|--|--------------------------|
| <b>core.add</b> (2019_05_06-616 XML-UZ-PAK Cargo prikklad -> core.sum)   |                          |
| value1 (2019_05_06-616 XML-UZ-PAK Cargo prikklad.tare)<br>value2 (2019_05_06-616 XML-UZ-PAK Cargo prikklad.weight_of_load) | result (core.sum.values) |

**Constants**

|  |   |
|--|---|
| <b>core.constant</b> (-> taf_cat_complete) |   |
| Value                                      | 1 |

|  |      |
|--|------|
| <b>core.constant</b> (-> taf_cat_complete) |      |
| Value                                      | 1151 |

|  |      |
|--|------|
| <b>core.constant</b> (-> taf_cat_complete) |      |
| Value                                      | 0022 |

|  |  |
|--|--|
| <b>core.constant</b> (-> taf_cat_complete) |  |
| Value                                      |  |

|                                     |   |
|-------------------------------------|---|
| <b>core.constant</b> (-> lang.left) |   |
| Value                               | 5 |

|                                     |   |
|-------------------------------------|---|
| <b>core.constant</b> (-> lang.left) |   |
| Value                               | 5 |



|  |   |
|--|---|
| <b>core.constant</b> (-> taf_cat_complete) |   |
| Value                                      | 0 |

|  |   |
|--|---|
| <b>core.constant</b> (-> taf_cat_complete) |   |
| Value                                      | 2 |

|  |    |
|--|----|
| <b>core.constant</b> (-> taf_cat_complete) |    |
| Value                                      | 25 |

|  |     |
|--|-----|
| <b>core.constant</b> (-> taf_cat_complete) |     |
| Value                                      | 675 |

Mapping documentation generated by [Mapforce](http://www.altova.com/mapforce) Graphical data mapping tool <http://www.altova.com/mapforce>

## 7. Трансформация из сообщений ОСЖД АСОУП 205 о готовности поезда в сообщение о готовности поезда ТАФ ТСИ XML / Mapping from the OSJD message ASOUP 205 on train ready to the TAF TSI XML “TrainReadyMessage”

Ссылки / References :

|   |  |
|---|--|
| Внутренняя ссылка ЕЖДА файла сопоставления / Internal ERA reference of the mapping file | <b>ASOUP 205 to TAF TrainReadyMessage.mfd</b>                                  |
| Дата окончательного сопоставления / Date of the final mapping                           | 23/03/2021   |
| Описание данных   | Информационные Технологии на железнодорожном транспорте АСОУП 1_1382097675.pdf |
| Data descriptions   | Информационные Технологии на железнодорожном транспорте АСОУП 1_1382097675.pdf |

Output **taf\_cat\_complete** ([../taf\\_cat\\_complete.xsd](#))

| Connections   |   | Nodes   |
|---|---|---|
|   |   | File: taf_cat_complete.xml<br>Type: string  |
|   |   | TrainReadyMessage<br>Type: restriction of xs:anyType [0..1]<br>Annotation: This message is sent from an RU to an IM indicating that the train is ready for access to the network.   |
|   |   | TrainReadyMessage/MessageHeader<br>Type: restriction of xs:anyType<br>Annotation: Used for all messages   |
|   |   | TrainReadyMessage/MessageHeader/MessageReference<br>Type: restriction of xs:anyType<br>Annotation: This element identifies the message  |
| <a href="#">../205 - готовность поезда/Rows 1(h).n=2/B</a><br>Type: string<br>Annotation: Код сообщения | <a href="#">core.value-map =&gt; input   result =&gt;</a> | .../MessageHeader/MessageReference/MessageType<br>Type: restriction of xs:integer<br>Annotation: To indicate the message type transmitted or referred to. The following list was agreed within the sector:<br>2001 PathCanceledMessage<br>2002 PathConfirmedMessage<br>2003 PathDetailsMessage<br>2004 PathDetailsRefusedMessage<br>2005 PathNotAvailableMessage<br>2006 PathRequestMessage<br>2007 ReceiptConfirmationMessage<br>3001 TrainAcceptedMessage<br>3002 TrainAtStartMessage<br>3003 TrainCompositionMessage<br>3004 TrainNotSuitableMessage<br>3005 TrainPositionMessage<br>3006 TrainReadyMessage<br>4001 TrainDelayCauseMessage<br>4002 TrainDelayPerformanceMessage<br>4003 TrainForecastAtReportingLocationMessage<br>4004 TrainRunningForecastMessage<br>4005 TrainRunningInformationMessage<br>4006 TrainRunningInterruptionMessage |

|  |  |   |
|--|--|---|
|  |  | <p>5001 AlertMessage<br/>                     5002 WagonArrivalNoticeMessage<br/>                     5003 WagonDeliveryNoticeMessage<br/>                     5004 WagonDepartureNoticeMessage<br/>                     5005 WagonDeviationMessage<br/>                     5006 WagonETI_ETA_Message<br/>                     5007 WagonExceptionMessage<br/>                     5008 WagonExceptionReasonMessage<br/>                     5009 WagonInterchangeNoticeMessage<br/>                     5010 WagonInterchangeSubNoticeMessage<br/>                     5011 WagonOrderMessage<br/>                     5012 WagonReceivedAtInterchangeMessage<br/>                     5013 WagonRefusedAtInterchangeMessage<br/>                     5014 WagonReleaseNoticeMessage<br/>                     5015 WagonYardArrivalMessage<br/>                     5016 WagonYardDepartureMessage<br/>                     6001 IRN_DatasetMessage<br/>                     6002 LocationFileDatasetMessage<br/>                     6003 RollingStockDatasetMessage</p> |
| <a href="#">core.constant("01")</a>  | <p><i>direct</i><br/>                     Annotation:<br/>                     ! Was generated automatically !</p> | <p>.../MessageHeader/MessageReference/MessageTypeVersion<br/>                     Type: restriction of xs:string<br/>                     Annotation: Version of the Message Type</p>   |
| <a href="#">core.constant("12345")</a>   | <p><i>direct</i><br/>                     Annotation:<br/>                     ! Was generated automatically !</p> | <p>.../MessageHeader/MessageReference/MessageIdentifier<br/>                     Type: FreeText<br/>                     Annotation: Identification of the Message</p>  |
| <a href="#">lang.now   result =&gt;</a>  | <p><i>direct</i><br/>                     Annotation:<br/>                     ! Was generated automatically !</p> | <p>.../MessageHeader/MessageReference/MessageDateTime<br/>                     Type: xs:dateTime<br/>                     Annotation: Generated by the common Interface</p>   |
|  |  | <p>TrainReadyMessage/MessageHeader/MessageRoutingID<br/>                     Type: Numeric2-2 [0..1]<br/>                     Annotation: Additional information used to route the message to the correct receiving application (if needed)</p>   |
|  |  | <p>TrainReadyMessage/MessageHeader/SenderReference<br/>                     Type: FreeText [0..1]<br/>                     Annotation: reference used by the sender (e.g. FTP file name)</p>  |
| <a href="#">core.constant("1020")</a>  | <p><i>direct</i></p>   | <p>TrainReadyMessage/MessageHeader/Sender<br/>                     Type: extension of CompanyCode<br/>                     Annotation: The sender of the message</p>  |
|  |  | <p>.../MessageHeader/Sender/@CI_InstanceNumber<br/>                     Type: Numeric2-2 [0..1]<br/>                     Annotation: Number of a Common Interface Instance for the same Company</p>   |
| <a href="#">core.constant("20")</a>  | <p><i>direct</i></p>   | <p>TrainReadyMessage/MessageHeader/Recipient<br/>                     Type: extension of CompanyCode<br/>                     Annotation: Receiver of the message</p>   |
|  |  | <p>.../MessageHeader/Recipient/@CI_InstanceNumber<br/>                     Type: Numeric2-2 [0..1]<br/>                     Annotation: Number of a Common Interface Instance for the same Company</p>  |
| <p><a href="#">.../205 - готовность поезда/Rows 1(h), n=2/B</a><br/>                     Type: string<br/>                     Annotation: Код сообщения</p> | <p><a href="#">core.value-map =&gt; input   result =&gt;</a></p>   | <p>TrainReadyMessage/MessageStatus<br/>                     Type:<br/>                     Annotation: Assigned by the Sender 1=creation, 2=modification, 3=deletion</p>  |
|  |  | <p>TrainReadyMessage/TransportOperationalIdentifiers<br/>                     Type: extension of CompositeIdentifierOperationalType [0..∞]</p>  |
|  |  | <p>TrainReadyMessage/OperationalTrainNumberIdentifier<br/>                     Type: restriction of xs:anyType</p>  |
| <p><a href="#">.../205 - готовность поезда/Rows 1(h), n=2/D</a><br/>                     Type: string<br/>                     Annotation: Номер поезда</p>  | <p><i>direct</i></p>   | <p>TrainReadyMessage/OperationalTrainNumberIdentifier/OperationalTrainNumber<br/>                     Type: String1-8<br/>                     Annotation: Identifies the train for traffic management purposes by the Dispatcher, GSMR services, etc.</p>  |

|  |   |   |
|--|---|---|
|  |   | TrainReadyMessage/OperationalTrainNumberIdentifier/ScheduledTimeAtHandover<br>Type: xs:dateTime [0..1]<br>Annotation: The scheduled departure date and time or the scheduled handover date and time at the border between two different IMs.  |
|  |   | TrainReadyMessage/OperationalTrainNumberIdentifier/ScheduledDateTimeAtTransfer<br>Type: xs:dateTime [0..1]<br>Annotation: The scheduled arrival at destination date and time or the scheduled outgoing transfer date and time at the border between two different IMs.  |
|  |   | TrainReadyMessage/ReferenceOTN<br>Type: restriction of xs:anyType [0..1]  |
|  |   | TrainReadyMessage/ResponsibleRU<br>Type: CompanyCode [0..1]<br>Annotation: RU Responsible for the physical operation of the train or wagon  |
| <a href="#">../205 - готовность поезда/Rows 1(h), n=2/S</a><br>Type: string<br>Annotation: Фамилия машиниста   | direct  | TrainReadyMessage/TrainContactDetails<br>Type: CommunicationRefID [0..1]<br>Annotation: Contact to driver of leading traction unit. This contact can be mobile phone number, GSM-R call number or e.g. details for an analogue radio call.  |
|  |   | TrainReadyMessage/TrainLocation<br>Type: LocationIdent [0..1]<br>Annotation: Handover, Interchange, Handling and Reporting point: if needed, track could be identify directly via subsidiar code  |
| <a href="#">core.constant("RU")</a>  | direct<br>Annotation: <b>! Update from CSZT database needed !</b> | TrainReadyMessage/TrainLocation/CountryCodeISO<br>Type: extension of CountryIdentISO<br>Annotation: Identifies a County or State by code (ISO 3166-1)   |
| <a href="#">../205 - готовность поезда/Rows 1(h), n=2/C</a><br>Type: string<br>Annotation: Код пункта передачи | direct  | TrainReadyMessage/TrainLocation/LocationPrimaryCode<br>Type: Numeric1-5   |
| <a href="#">core.constant("Хабаровск")</a>   | direct<br>Annotation: <b>! Update from CSZT database needed !</b> | TrainReadyMessage/TrainLocation/PrimaryLocationName<br>Type: FreeText [0..1]<br>Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet   |
|  |   | TrainReadyMessage/TrainLocation/LocationSubsidiaryIdentification<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Code, Name and allocation company of Subsidiary Location  |
|  |   | .../TrainLocation/LocationSubsidiaryIdentification/LocationSubsidiaryCode<br>Type: extension of String1-10<br>Annotation: this element identifies a location as a part of primary location e.g. a junction, a signal, a passing loop etc., It is unique when used in combination with a "LocationPrimaryCode" |
|  |   | .../TrainLocation/LocationSubsidiaryIdentification/AllocationCompany<br>Type: CompanyCode<br>Annotation: Name of company who is responsible for allocation and maintenance of codes   |
|  |   | .../TrainLocation/LocationSubsidiaryIdentification/LocationSubsidiaryName<br>Type: FreeText [0..1]<br>Annotation: To be completed in an official language of the Country using the ISO Unicode alphabet   |
|  |   | TrainReadyMessage/TrainReadyStatus<br>Type: restriction of xs:anyType [0..1]  |
|  |   | TrainReadyMessage/TrainReadyStatus/TrainReady<br>Type: restriction of xs:integer<br>Annotation: 0=Not Ready 1=Ready   |
|  |   | TrainReadyMessage/TrainReadyStatus/TrainDelay<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Identifies the Delta delay time of a train against the booked schedule as well as against the referenced time  |
|  |   | .../TrainReadyStatus/TrainDelay/AgainstBooked<br>Type: DeltaTime [0..1]<br>Annotation: Identifies the Delta delay time against the booked schedule in minutes   |
|  |   | .../TrainReadyStatus/TrainDelay/AgainstReferenced<br>Type: DeltaTime [0..1]   |

|   |   |  |
|---|---|--|
|   |   | Annotation: Delay compared to the referenced Date/Time   |
|   |   | TrainReadyMessage/TrainReadyStatus/DelayCause<br>Type: DelayCode [0..1]<br>Annotation: This element identifies the reason for a delay (modified DelayReason)   |
|   |   | TrainReadyMessage/TransferPoint<br>Type: LocationIdent [0..1]<br>Annotation: Transfer point or station of destination in the considered network  |
| <a href="#">core.constant("RU")</a>   | <i>direct</i><br>Annotation:<br><b>! Update from CSZT database needed !</b> | TrainReadyMessage/TransferPoint/CountryCodeISO<br>Type: extension of CountryIdentISO<br>Annotation: Identifies a County or State by code (ISO 3166-1)  |
| <a href="#">.../205 - готовность поезда/Rows 1(h). n=2/H</a><br>Type: string<br>Annotation: Ст. Назначения - (Маха-лино ) | <i>direct</i>   | TrainReadyMessage/TransferPoint/LocationPrimaryCode<br>Type: Numeric1-5  |
| <a href="#">core.constant("Октябрьская")</a>  | <i>direct</i><br>Annotation:<br><b>! Update from CSZT database needed !</b> | TrainReadyMessage/TransferPoint/PrimaryLocationName<br>Type: FreeText [0..1]<br>Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet  |
|   |   | TrainReadyMessage/TransferPoint/LocationSubsidiaryIdentification<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Code, Name and allocation company of Subsidiary Location   |
|   |   | .../TransferPoint/LocationSubsidiaryIdentification/LocationSubsidiaryCode<br>Type: extension of String1-10<br>Annotation: this element identifies a location as a part of primary location e.g. a junction, a signal, a passing loop etc., It is unique when used in combination with a "LocationPrimaryCode"        |
|   |   | .../TransferPoint/LocationSubsidiaryIdentification/AllocationCompany<br>Type: CompanyCode<br>Annotation: Name of company who is responsible for allocation and maintenance of codes  |
|   |   | .../TransferPoint/LocationSubsidiaryIdentification/LocationSubsidiaryName<br>Type: FreeText [0..1]<br>Annotation: To be completed in an official language of the Country using the ISO Unicode alphabet  |
|   |   | TrainReadyMessage/TransfereelM<br>Type: CompanyCode [0..1]<br>Annotation: Next IM  |
|   |   | TrainReadyMessage/TrainStartTime<br>Type: xs:dateTime [0..1]<br>Annotation: The Date and Time at which the tain actually started the journey   |
| <a href="#">.../205 - готовность поезда/Rows 1(h). n=2/I</a><br>Type: string<br>Annotation: число                         | <a href="#">core.concat =&gt; value5   result =&gt;</a>                     | TrainReadyMessage/TrainReadyTime<br>Type: xs:dateTime [0..1]<br>Annotation: It indicates date/time when the train will be ready for departure. IM contract will define if this element can be used. Only to be used if this time is in future (sent in advance). Purpose of this element is to short the train stay. |
| <a href="#">.../205 - готовность поезда/Rows 1(h). n=2/J</a><br>Type: string<br>Annotation: месяц                         | <a href="#">core.concat =&gt; value3   result =&gt;</a>                     |  |
| <a href="#">.../205 - готовность поезда/Rows 1(h). n=2/K</a><br>Type: string<br>Annotation: час                           | <a href="#">core.concat =&gt; value7   result =&gt;</a>                     |  |
| <a href="#">.../205 - готовность поезда/Rows 1(h). n=2/L</a><br>Type: string<br>Annotation: мин.                          | <a href="#">core.concat =&gt; value9   result =&gt;</a>                     |  |
| <a href="#">core.constant("2020")</a>   | <a href="#">core.concat =&gt;</a>   |  |

|                                       |  |  |
|---------------------------------------|--|--|
|                                       | <a href="#">value1   result =&gt;</a>  |  |
| <a href="#">core.constant("-")</a>    | <a href="#">core.concat =&gt;</a><br><a href="#">value4   result =&gt;</a><br><a href="#">core.concat =&gt;</a><br><a href="#">value2   result =&gt;</a> |  |
| <a href="#">core.constant("T")</a>    | <a href="#">core.concat =&gt;</a><br><a href="#">value6   result =&gt;</a>   |  |
| <a href="#">core.constant(":".)</a>   | <a href="#">core.concat =&gt;</a><br><a href="#">value8   result =&gt;</a>   |  |
| <a href="#">core.constant(":.00")</a> | <a href="#">core.concat =&gt;</a><br><a href="#">value10   result =&gt;</a>  |  |

## 8. Трансформация из сообщений ОСЖД АСОУП 4770 о передвижении поезда в сообщение о передвижении поезда ТАФ ТСИ XML / Mapping from the OSJD message ASOUP 4470 on train movement to the TAF TSI XML “TrainRunningMessage”

Ссылки / References :

|   |   |
|---|---|
| Внутренняя ссылка ЕЖДА файла сопоставления / Internal ERA reference of the mapping file | <b>ASOUP 4470 to TAF TrainRunningInformation.mfd</b>  |
| Дата окончательного сопоставления / Date of the final mapping                           | 26/02/2021  |
| Описание данных   | ИНСТРУКЦИЯ по оформлению передаточной поездной ведомости и сообщения 4770 «Сведения о транспортных средствах и грузах в составе поезда». Версия 01 (08.2009) .<br><br>Порядок заполнения сообщения 5311 |
| Data descriptions   | INSTRUCTION for registration of transfer trains and messages 4770 “Information on vehicles and goods in trains”. Version 01 (08.2009).<br><br>Filling order – message 5311                              |

Output **taf\_cat\_complete** (..\taf\_cat\_complete.xsd)

| Connections   | Nodes  |
|---|--|
|   | File: taf_cat_complete.xml<br>Type: string   |
|   | TrainRunningInformationMessage<br>Type: restriction of xs:anyType [0..1]<br>Annotation: This message is issued upon 1) Arrival, departure or run-through in agreed reporting points and/or 2) Attainment of the agreed initial running time and/or 3) A new divergence between nominal and actual being achieved in excess of the agreed threshold value 4) as a response to the EnquiryTrainsAtReportingLocationMessage. There will only be one train reported per message and will include one response per train at a location. |
|   | TrainRunningInformationMessage/MessageHeader<br>Type: restriction of xs:anyType<br>Annotation: Used for all messages   |
|   | TrainRunningInformationMessage/MessageHeader/MessageReference<br>Type: restriction of xs:anyType<br>Annotation: This element identifies the message  |
| <a href="#">Header/MessageType</a><br>Type: xs:short [2..2] | .../MessageHeader/MessageReference/MessageType<br>Type: restriction of xs:integer<br>Annotation: To indicate the message type transmitted or referred to. The following list was agreed within the sector:<br>2001 PathCanceledMessage<br>2002 PathConfirmedMessage<br>2003 PathDetailsMessage<br>2004 PathDetailsRefusedMessage<br>2005 PathNotAvailableMessage<br>2006 PathRequestMessage<br>2007 ReceiptConfirmationMessage<br>3001 TrainAcceptedMessage<br>3002 TrainAtStartMessage  |
| <a href="#">core.constant("4")</a>                          | <a href="#">lang.right =&gt; string   result =&gt;</a><br><a href="#">core.value-map =&gt; input   result =&gt;</a><br><a href="#">lang.right =&gt; number   result =&gt;</a><br><a href="#">core.value-map =&gt; input   result =&gt;</a>   |

|  |   |
|--|---|
|  | <p>3003 TrainCompositionMessage<br/>                 3004 TrainNotSuitableMessage<br/>                 3005 TrainPositionMessage<br/>                 3006 TrainReadyMessage<br/>                 4001 TrainDelayCauseMessage<br/>                 4002 TrainDelayPerformanceMessage<br/>                 4003 TrainForecastAtReportingLocationMessage<br/>                 4004 TrainRunningForecastMessage<br/>                 4005 TrainRunningInformationMessage<br/>                 4006 TrainRunningInterruptionMessage<br/>                 5001 AlertMessage<br/>                 5002 WagonArrivalNoticeMessage<br/>                 5003 WagonDeliveryNoticeMessage<br/>                 5004 WagonDepartureNoticeMessage<br/>                 5005 WagonDeviationMessage<br/>                 5006 WagonETI_ETA_Message<br/>                 5007 WagonExceptionMessage<br/>                 5008 WagonExceptionReasonMessage<br/>                 5009 WagonInterchangeNoticeMessage<br/>                 5010 WagonInterchangeSubNoticeMessage<br/>                 5011 WagonOrderMessage<br/>                 5012 WagonReceivedAtInterchangeMessage<br/>                 5013 WagonRefusedAtInterchangeMessage<br/>                 5014 WagonReleaseNoticeMessage<br/>                 5015 WagonYardArrivalMessage<br/>                 5016 WagonYardDepartureMessage<br/>                 6001 IRN_DatasetMessage<br/>                 6002 LocationFileDatasetMessage<br/>                 6003 RollingStockDatasetMessage</p> |
| <p><a href="#">Header/Version</a><br/>                 Type: xs:string</p>               | <p><i>direct</i><br/>                 .../MessageHeader/MessageReference/MessageTypeVersion<br/>                 Type: restriction of xs:string<br/>                 Annotation: Version of the Message Type</p>  |
| <p><a href="#">Header/Counter</a><br/>                 Type: xs:short</p>                | <p><i>direct</i><br/>                 .../MessageHeader/MessageReference/MessageIdentifier<br/>                 Type: FreeText<br/>                 Annotation: Identification of the Message</p>   |
| <p><a href="#">Header/TrainListAgreementDay</a><br/>                 Type: xs:byte</p>   | <p>Annotation:<br/>                 ! message year cannot be retrieved from ASOUP<br/> <a href="#">core.conc at =&gt; value5   result =&gt;</a><br/>                 Annotation:<br/>                 ! message year cannot be retrieved from ASOUP<br/>                 .../MessageHeader/MessageReference/MessageDateTime<br/>                 Type: xs:dateTime<br/>                 Annotation: Generated by the common Interface</p>   |
| <p><a href="#">Header/TrainListAgreementMonth</a><br/>                 Type: xs:byte</p> | <p>Annotation:<br/>                 ! message year cannot be retrieved from ASOUP<br/> <a href="#">core.conc at =&gt; value3   result =&gt;</a><br/>                 Annotation:<br/>                 ! message year cannot be retrieved from ASOUP</p>   |



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| <p><a href="#">Header/TrainListAgreementHour</a><br/>Type: xs:byte</p>   | <p>Annotation:<br/>! message year cannot be retrieved from ASOUP<br/><a href="#">core.conc</a><br/><a href="#">at =&gt;</a><br/><a href="#">value7  </a><br/><a href="#">result =&gt;</a><br/>Annotation:<br/>! message year cannot be retrieved from ASOUP</p> |  |
| <p><a href="#">Header/TrainListAgreementMinute</a><br/>Type: xs:byte</p> | <p>Annotation:<br/>! message year cannot be retrieved from ASOUP<br/><a href="#">core.conc</a><br/><a href="#">at =&gt;</a><br/><a href="#">value9  </a><br/><a href="#">result =&gt;</a><br/>Annotation:<br/>! message year cannot be retrieved from ASOUP</p> |  |
| <p><a href="#">core.constant("2020")</a></p>                             | <p>Annotation:<br/>! message year cannot be retrieved from ASOUP<br/><a href="#">core.conc</a><br/><a href="#">at =&gt;</a><br/><a href="#">value1  </a><br/><a href="#">result =&gt;</a><br/>Annotation:<br/>! message year cannot be retrieved from ASOUP</p> |  |
| <p><a href="#">core.constant("-0")</a></p>                               | <p>Annotation:<br/>! message year cannot be retrieved from ASOUP<br/><a href="#">core.conc</a><br/><a href="#">at =&gt;</a><br/><a href="#">value4  </a><br/><a href="#">result =&gt;</a><br/>Annotation:<br/>! message year cannot be retrieved from</p>       |  |

|  |   |  |
|--|---|--|
|  | <p>ASOUP<br/> <a href="#">core.constant("T0")</a><br/> <a href="#">at =&gt;</a><br/> <a href="#">value2  </a><br/> <a href="#">result =&gt;</a><br/> Annotation:<br/> ! message<br/> year<br/> cannot be<br/> retrieved<br/> from<br/> ASOUP</p>  |  |
| <p><a href="#">core.constant("T0")</a></p>   | <p>Annotation:<br/> ! message<br/> year<br/> cannot be<br/> retrieved<br/> from<br/> ASOUP<br/> <a href="#">core.constant("T0")</a><br/> <a href="#">at =&gt;</a><br/> <a href="#">value6  </a><br/> <a href="#">result =&gt;</a><br/> Annotation:<br/> ! message<br/> year<br/> cannot be<br/> retrieved<br/> from<br/> ASOUP</p>    |  |
| <p><a href="#">core.constant("T")</a></p>    | <p>Annotation:<br/> ! message<br/> year<br/> cannot be<br/> retrieved<br/> from<br/> ASOUP<br/> <a href="#">core.constant("T")</a><br/> <a href="#">at =&gt;</a><br/> <a href="#">value8  </a><br/> <a href="#">result =&gt;</a><br/> Annotation:<br/> ! message<br/> year<br/> cannot be<br/> retrieved<br/> from<br/> ASOUP</p>     |  |
| <p><a href="#">core.constant("T:00")</a></p> | <p>Annotation:<br/> ! message<br/> year<br/> cannot be<br/> retrieved<br/> from<br/> ASOUP<br/> <a href="#">core.constant("T:00")</a><br/> <a href="#">at =&gt;</a><br/> <a href="#">value10  </a><br/> <a href="#">result =&gt;</a><br/> Annotation:<br/> ! message<br/> year<br/> cannot be<br/> retrieved<br/> from<br/> ASOUP</p> |  |
|  |   | <p>TrainRunningInformationMessage/MessageHeader/MessageRoutingID<br/> Type: Numeric2-2 [0..1]<br/> Annotation: Additional information used to route the message to the correct receiving application (if needed)</p> |

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|  |   | TrainRunningInformationMessage/MessageHeader/SenderReference<br>Type: FreeText [0..1]<br>Annotation: reference used by the sender (e.g. FTP file name)  |
| <a href="#">core.constant("0020")</a>                | <i>direct</i><br>Annotation:<br>! Can it be derived from "Ю3 Информация об отправке" > "Страна отправления груза" : 643 ? | TrainRunningInformationMessage/MessageHeader/Sender<br>Type: extension of CompanyCode<br>Annotation: The sender of the message  |
|  |   | .../MessageHeader/Sender/@CI_InstanceNumber<br>Type: Numeric2-2 [0..1]<br>Annotation: Number of a Common Interface Instance for the same Company  |
| <a href="#">core.constant("0025")</a>                | <i>direct</i><br>Annotation:<br>! Can it be derived from "Ю3 Информация об отправке" > "Страна отправления груза" : 440 ? | TrainRunningInformationMessage/MessageHeader/Recipient<br>Type: extension of CompanyCode<br>Annotation: Receiver of the message   |
|  |   | .../MessageHeader/Recipient/@CI_InstanceNumber<br>Type: Numeric2-2 [0..1]<br>Annotation: Number of a Common Interface Instance for the same Company   |
| <a href="#">core.constant(1)</a>                     | <i>direct</i><br>Annotation:<br>! Can be derived from "Признак отладки" in ASOUP  | TrainRunningInformationMessage/MessageStatus<br>Type:<br>Annotation: Assigned by the Sender 1=creation, 2=modification, 3=deletion  |
|  |   | TrainRunningInformationMessage/TrainOperationalIdentification<br>Type: restriction of xs:anyType [0..1]   |
|  |   | TrainRunningInformationMessage/TrainOperationalIdentification/TransportOperationalIdentifiers<br>Type: extension of CompositeIdentifierOperationalType [1..∞]   |
|  |   | .../TrainOperationalIdentification/TransportOperationalIdentifiers/ObjectType<br>Type: restriction of xs:string<br>Annotation: Provides a possibility for differentiation between the objects: Train, Path, Case Reference and Path Request |
|  |   | .../TrainOperationalIdentification/TransportOperationalIdentifiers/Company<br>Type: CompanyCode<br>Annotation: Identifies a railway company (RU or IM)  |
|  |   | .../TrainOperationalIdentification/TransportOperationalIdentifiers/Core<br>Type: restriction of xs:string<br>Annotation: It is the main part of identifier and is determined by the company that creates it.                                |
|  |   | .../TrainOperationalIdentification/TransportOperationalIdentifiers/Variant<br>Type: restriction of xs:string<br>Annotation: The variant shows a relationship between two identifiers referring to the same business case                    |
|  |   | .../TrainOperationalIdentification/TransportOperationalIdentifiers/TimetableYear<br>Type: restriction of xs:integer<br>Annotation: Refers to the timetable period in which the business will be carried out                                 |
|  |   | .../TrainOperationalIdentification/TransportOperationalIdentifiers/StartDate<br>Type: xs:date<br>Annotation: The start of the date/time in effect   |
|  |   | TrainRunningInformationMessage/OperationalTrainNumberIdentifier<br>Type: restriction of xs:anyType  |
| <a href="#">Header/TrainNumber</a><br>Type: xs:short | <i>direct</i>   | TrainRunningInformationMessage/OperationalTrainNumberIdentifier/OperationalTrainNumber<br>Type: String1-8<br>Annotation: Identifies the train for traffic management purposes by the Dispatcher, GSMR services, etc.                        |
|  |   | TrainRunningInformationMessage/OperationalTrainNumberIdentifier/ScheduledTimeAtHandover<br>Type: xs:dateTime [0..1]<br>Annotation: The scheduled departure date and time or the scheduled handover date and                                 |

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|   |   | time at the border between two different IMs.   |
|   |   | TrainRunningInformationMessage/OperationalTrainNumberIdentifier/ScheduledDateTimeAtTransfer<br>Type: xs:dateTime [0..1]<br>Annotation: The scheduled arrival at destination date and time or the scheduled outgoing transfer date and time at the border between two different IMs. |
|   |   | TrainRunningInformationMessage/ReferenceOTN<br>Type: restriction of xs:anyType [0..1]   |
|   |   | TrainRunningInformationMessage/ResponsibleRU<br>Type: CompanyCode [0..1]<br>Annotation: RU Responsible for the physical operation of the train or wagon   |
|   |   | TrainRunningInformationMessage/TrainLocationReport<br>Type: restriction of xs:anyType<br>Annotation: Specifies the relevant running data of a train related to a specific location  |
|   |   | TrainRunningInformationMessage/TrainLocationReport/Location<br>Type: LocationIdent<br>Annotation: Identifies a Location using a LocationIdent   |
| <a href="#">core.constant("RU")</a>                       | <i>direct</i><br>Annotation:<br>! Country Code cannot be retrieved from ASOUP (can it be derived from КЖА 1003 05 ?)  | <a href="#">.../TrainLocationReport/Location/CountryCodeISO</a><br>Type: extension of CountryIdentISO<br>Annotation: Identifies a County or State by code (ISO 3166-1)  |
| <a href="#">Header/ArrivalStationCode</a><br>Type: xs:int | Annotation:<br>! Maybe "Пограничная станция дороги приема" instead of "Станция приема" would be better ?<br><a href="#">lang.left =&gt; string   result =&gt;</a><br>Annotation:<br>! Maybe "Пограничная станция дороги приема" instead of "Станция приема" would be better ? | <a href="#">.../TrainLocationReport/Location/LocationPrimaryCode</a><br>Type: Numeric1-5  |
| <a href="#">core.constant(5)</a>                          | Annotation:<br>! Maybe "Пограничная станция дороги приема" instead of "Станция приема" would be better ?<br><a href="#">lang.left =&gt; number   result =&gt;</a><br>Annotation:<br>! Maybe "Пограничная станция дороги приема" instead of "Станция приема" would be better ? |   |

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|  |  | <p>.../TrainLocationReport/Location/PrimaryLocationName<br/>                 Type: FreeText [0..1]<br/>                 Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet</p>   |
|  |  | <p>.../TrainLocationReport/Location/LocationSubsidiaryIdentification<br/>                 Type: restriction of xs:anyType [0..1]<br/>                 Annotation: Code, Name and allocation company of Subsidiary Location</p>  |
|  |  | <p>.../Location/LocationSubsidiaryIdentification/LocationSubsidiaryCode<br/>                 Type: extension of String1-10<br/>                 Annotation: this element identifies a location as a part of primary location e.g. a junction, a signal, a passing loop etc., It is unique when used in combination with a "LocationPrimaryCode"</p> |
|  |  | <p>.../Location/LocationSubsidiaryIdentification/AllocationCompany<br/>                 Type: CompanyCode<br/>                 Annotation: Name of company who is responsible for allocation and maintenance of codes</p>   |
|  |  | <p>.../Location/LocationSubsidiaryIdentification/LocationSubsidiaryName<br/>                 Type: FreeText [0..1]<br/>                 Annotation: To be completed in an official language of the Country using the ISO Unicode alphabet</p>   |
| <p><a href="#">Header/TrainHandoverDay</a><br/>                 Type: xs:byte</p>    | <p>Annotation:<br/>                 ! message<br/>                 year cannot<br/>                 be retrieved<br/>                 from<br/>                 ASOUP<br/> <a href="#">core.concat</a><br/>                 =&gt; value5  <br/>                 result =&gt;</p> <p>Annotation:<br/>                 ! message<br/>                 year cannot<br/>                 be retrieved<br/>                 from<br/>                 ASOUP</p> | <p><a href="#">TrainRunningInformationMessage/TrainLocationReport/LocationDateTime</a><br/>                 Type: xs:dateTime<br/>                 Annotation: Identifies the actual or forecasted Date / Time at a specific reporting point</p>  |
| <p><a href="#">Header/TrainHandoverMonth</a><br/>                 Type: xs:byte</p>  | <p>Annotation:<br/>                 ! message<br/>                 year cannot<br/>                 be retrieved<br/>                 from<br/>                 ASOUP<br/> <a href="#">core.concat</a><br/>                 =&gt; value3  <br/>                 result =&gt;</p> <p>Annotation:<br/>                 ! message<br/>                 year cannot<br/>                 be retrieved<br/>                 from<br/>                 ASOUP</p> |   |
| <p><a href="#">Header/TrainHandoverHour</a><br/>                 Type: xs:byte</p>   | <p>Annotation:<br/>                 ! message<br/>                 year cannot<br/>                 be retrieved<br/>                 from<br/>                 ASOUP<br/> <a href="#">core.concat</a><br/>                 =&gt; value7  <br/>                 result =&gt;</p> <p>Annotation:<br/>                 ! message<br/>                 year cannot<br/>                 be retrieved<br/>                 from<br/>                 ASOUP</p> |   |
| <p><a href="#">Header/TrainHandoverMinute</a><br/>                 Type: xs:byte</p> | <p>Annotation:<br/>                 ! message<br/>                 year cannot<br/>                 be retrieved<br/>                 from<br/>                 ASOUP</p>  |   |
|  |  |   |

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|--|--|--|
|  | <p><a href="#">core.concat</a><br/>=&gt; value9  <br/><a href="#">result =&gt;</a><br/>Annotation:<br/>! message<br/>year cannot<br/>be retrieved<br/>from<br/>ASOUP</p>   |  |
| <p><a href="#">core.constant("2020")</a></p> | <p>Annotation:<br/>! message<br/>year cannot<br/>be retrieved<br/>from<br/>ASOUP<br/><a href="#">core.concat</a><br/>=&gt; value1  <br/><a href="#">result =&gt;</a><br/>Annotation:<br/>! message<br/>year cannot<br/>be retrieved<br/>from<br/>ASOUP</p> |  |
| <p><a href="#">core.constant("-0")</a></p>   | <p>Annotation:<br/>! message<br/>year cannot<br/>be retrieved<br/>from<br/>ASOUP<br/><a href="#">core.concat</a><br/>=&gt; value2  <br/><a href="#">result =&gt;</a><br/>Annotation:<br/>! message<br/>year cannot<br/>be retrieved<br/>from<br/>ASOUP</p> |  |
| <p><a href="#">core.constant("-.")</a></p>   | <p>Annotation:<br/>! message<br/>year cannot<br/>be retrieved<br/>from<br/>ASOUP<br/><a href="#">core.concat</a><br/>=&gt; value4  <br/><a href="#">result =&gt;</a><br/>Annotation:<br/>! message<br/>year cannot<br/>be retrieved<br/>from<br/>ASOUP</p> |  |
| <p><a href="#">core.constant("T0")</a></p>   | <p>Annotation:<br/>! message<br/>year cannot<br/>be retrieved<br/>from<br/>ASOUP<br/><a href="#">core.concat</a><br/>=&gt; value6  <br/><a href="#">result =&gt;</a><br/>Annotation:<br/>! message<br/>year cannot<br/>be retrieved<br/>from<br/>ASOUP</p> |  |

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|---|---|--|
| <p><a href="#">core.constant(":".)</a></p>    | <p>Annotation:<br/>! message year cannot be retrieved from ASOUP<br/><a href="#">core.concat</a><br/>=&gt; value8  <br/><a href="#">result =&gt;</a></p> <p>Annotation:<br/>! message year cannot be retrieved from ASOUP</p>                                 |  |
| <p><a href="#">core.constant(":".00")</a></p> | <p>Annotation:<br/>! message year cannot be retrieved from ASOUP<br/><a href="#">core.concat</a><br/>=&gt; value10  <br/><a href="#">result =&gt;</a></p> <p>Annotation:<br/>! message year cannot be retrieved from ASOUP</p>                                |  |
| <p><a href="#">core.constant("01")</a></p>    | <p><i>direct</i><br/>Annotation:<br/>! Can be derived if ASOUP is 4470(2) or 4470(6) message type</p>   | <p><a href="#">TrainRunningInformationMessage/TrainLocationReport/TrainLocationStatus</a><br/>Type: RunningStatus<br/>Annotation: Identifies the status of a train related to the actual time at a reporting point</p> |
|   | <p><a href="#">TrainRunningInformationMessage/TrainLocationReport/BookedLocationDateTime</a><br/>Type: xs:dateTime [0..1]<br/>Annotation: Scheduled Date and Time of a train at a specied location as defined in the path contract</p>                        |  |
|   | <p><a href="#">TrainRunningInformationMessage/TrainLocationReport/ReferencedLocationDateTime</a><br/>Type: xs:dateTime [0..1]<br/>Annotation: Reference to original planned Date and Time agreed by all involved IMs and RUs.</p>                             |  |
|   | <p><a href="#">TrainRunningInformationMessage/TrainLocationReport/TrainDelay</a><br/>Type: restriction of xs:anyType [0..1]<br/>Annotation: Identifies the Delta delay time of a train against the booked schedule as well as against the referenced time</p> |  |
|   | <p><a href="#">.../TrainLocationReport/TrainDelay/AgainstBooked</a><br/>Type: DeltaTime [0..1]<br/>Annotation: Identifies the Delta delay time against the booked schedule in minutes</p>   |  |
|   | <p><a href="#">.../TrainLocationReport/TrainDelay/AgainstReferenced</a><br/>Type: DeltaTime [0..1]<br/>Annotation: Delay compared to the referenced Date/Time</p>   |  |
|   | <p><a href="#">TrainRunningInformationMessage/TransferPoint</a><br/>Type: LocationIdent [0..1]<br/>Annotation: Transfer point or station of destination in the considered network</p>   |  |
|   | <p><a href="#">TrainRunningInformationMessage/TransferPoint/CountryCodeISO</a><br/>Type: extension of CountryIdentISO<br/>Annotation: Identifies a County or State by code (ISO 3166-1)</p>   |  |
|   | <p><a href="#">TrainRunningInformationMessage/TransferPoint/LocationPrimaryCode</a><br/>Type: Numeric1-5</p>  |  |
|   | <p><a href="#">TrainRunningInformationMessage/TransferPoint/PrimaryLocationName</a><br/>Type: FreeText [0..1]<br/>Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet</p>                                       |  |
|   | <p><a href="#">TrainRunningInformationMessage/TransferPoint/LocationSubsidiaryIdentification</a><br/>Type: restriction of xs:anyType [0..1]<br/>Annotation: Code, Name and allocation company of Subsidiary Location</p>                                      |  |

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|  | <p>.../TransferPoint/LocationSubsidiaryIdentification/LocationSubsidiaryCode<br/>                 Type: extension of String1-10<br/>                 Annotation: this element identifies a location as a part of primary location e.g. a junction, a signal, a passing loop etc., It is unique when used in combination with a "LocationPrimaryCode"</p> |
|  | <p>.../TransferPoint/LocationSubsidiaryIdentification/AllocationCompany<br/>                 Type: CompanyCode<br/>                 Annotation: Name of company who is responsible for allocation and maintenance of codes</p>   |
|  | <p>.../TransferPoint/LocationSubsidiaryIdentification/LocationSubsidiaryName<br/>                 Type: FreeText [0..1]<br/>                 Annotation: To be completed in an official language of the Country using the ISO Unicode alphabet</p>   |
|  | <p>TrainRunningInformationMessage/TransfereelM<br/>                 Type: CompanyCode [0..1]<br/>                 Annotation: Next IM</p>  |

### Remaining components

|   |                               |
|---|-------------------------------|
| <b>lang.right</b> (SLUZHEBNYI_BLOK_08003756.v92, core.constant -> core.value-map) |                               |
| string (SLUZHEBNYI_BLOK_08003756.v92.MessageType)                                 | result (core.value-map.input) |
| number (core.constant."4")  |                               |

|  |                                       |
|--|---------------------------------------|
| <b>core.value-map</b> (lang.right -> taf_cat_complete) |                                       |
| input (lang.right.result)                              | result (taf_cat_complete.MessageType) |
| <b>From</b>  | <b>To</b>                             |
| 4770   | 4005                                  |

|  |   |
|--|---|
| <b>core.concat</b> (core.constant, core.constant, SLUZHEBNYI_BLOK_08003756.v92, core.constant, core.constant, core.constant -> taf_cat_complete)   |   |
| value1 (core.constant."2020")<br>value2 (core.constant."-0")<br>value3 (SLUZHEBNYI_BLOK_08003756.v92.TrainListAgreementMonth)<br>value4 (core.constant."-0")<br>value5 (SLUZHEBNYI_BLOK_08003756.v92.TrainListAgreementDay)<br>value6 (core.constant."T0")<br>value7 (SLUZHEBNYI_BLOK_08003756.v92.TrainListAgreementHour)<br>value8 (core.constant."-")<br>value9 (SLUZHEBNYI_BLOK_08003756.v92.TrainListAgreementMinute)<br>value10 (core.constant."00") | result (taf_cat_complete.MessageDateTime) |

|  |   |
|--|---|
| <b>lang.left</b> (SLUZHEBNYI_BLOK_08003756.v92, core.constant -> taf_cat_complete) |   |
| string (SLUZHEBNYI_BLOK_08003756.v92.ArrivalStationCode)                           | result (taf_cat_complete.LocationPrimaryCode) |
| number (core.constant.5)   |   |

|   |  |
|---|--|
| <b>core.concat</b> (core.constant, core.constant, SLUZHEBNYI_BLOK_08003756.v92, core.constant, core.constant, core.constant, core.constant -> taf_cat_complete) |  |
| value1 (core.constant."2020")<br>value2 (core.constant."-0")<br>value3 (SLUZHEBNYI_BLOK_08003756.v92.TrainHandoverMonth)  | result (taf_cat_complete.LocationDateTime) |



|  |  |
|--|--|
| value4 ( <a href="#">core.constant:"-"</a> )                                 |  |
| value5 ( <a href="#">SLUZHEBNIYI_BLOK_08003756.v92.TrainHandoverDay</a> )    |  |
| value6 ( <a href="#">core.constant:"T0"</a> )                                |  |
| value7 ( <a href="#">SLUZHEBNIYI_BLOK_08003756.v92.TrainHandoverHour</a> )   |  |
| value8 ( <a href="#">core.constant:""</a> )                                  |  |
| value9 ( <a href="#">SLUZHEBNIYI_BLOK_08003756.v92.TrainHandoverMinute</a> ) |  |
| value10 ( <a href="#">core.constant"::00"</a> )                              |  |

**Constants**

|                                       |   |
|---------------------------------------|---|
| <b>core.constant</b> ( -> lang.right) |   |
| Value                                 | 4 |

|   |      |
|---|------|
| <b>core.constant</b> ( -> taf_cat_complete) |      |
| Value                                       | 0020 |

|  |      |
|--|------|
| <b>core.constant</b> ( -> core.concat) |      |
| Value                                  | 2020 |

|  |    |
|--|----|
| <b>core.constant</b> ( -> core.concat) |    |
| Value                                  | -0 |

|   |      |
|---|------|
| <b>core.constant</b> ( -> taf_cat_complete) |      |
| Value                                       | 0025 |

|  |    |
|--|----|
| <b>core.constant</b> ( -> core.concat) |    |
| Value                                  | T0 |

|   |   |
|---|---|
| <b>core.constant</b> ( -> taf_cat_complete) |   |
| Value                                       | 1 |

|  |   |
|--|---|
| <b>core.constant</b> ( -> core.concat) |   |
| Value                                  | : |

|  |     |
|--|-----|
| <b>core.constant</b> ( -> core.concat) |     |
| Value                                  | :00 |

|   |    |
|---|----|
| <b>core.constant</b> ( -> taf_cat_complete) |    |
| Value                                       | RU |

|                                     |   |
|-------------------------------------|---|
| <b>core.constant</b> (-> lang.left) |   |
| Value                               | 5 |

|                                       |      |
|---------------------------------------|------|
| <b>core.constant</b> (-> core.concat) |      |
| Value                                 | 2020 |

|                                       |    |
|---------------------------------------|----|
| <b>core.constant</b> (-> core.concat) |    |
| Value                                 | -0 |

|                                       |   |
|---------------------------------------|---|
| <b>core.constant</b> (-> core.concat) |   |
| Value                                 | - |

|                                       |    |
|---------------------------------------|----|
| <b>core.constant</b> (-> core.concat) |    |
| Value                                 | T0 |

|                                       |   |
|---------------------------------------|---|
| <b>core.constant</b> (-> core.concat) |   |
| Value                                 | : |

|                                       |     |
|---------------------------------------|-----|
| <b>core.constant</b> (-> core.concat) |     |
| Value                                 | :00 |

|  |    |
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| <b>core.constant</b> (-> taf_cat_complete) |    |
| Value                                      | 01 |

## 9. Трансформация из сообщения ОСЖД АСОУП 201 в информацию о передвижении поезда (прибытии) ТАФ ТСИ XML / Mapping from the OSJD ASOUP 201 message to the TAF TSI XML TrainRunningInformation (Arrival)

Ссылки / References :

|   |  |
|---|--|
| Внутренняя ссылка ЕЖДА файла сопоставления / Internal ERA reference of the mapping file | <b>ASOUP 201 to TAF TrainRunningMessage Arrival.mfd</b>                        |
| Дата окончательного сопоставления / Date of the final mapping                           | 25/02/2021   |
| Описания данных   | Информационные Технологии на железнодорожном транспорте АСОУП 1_1382097675.pdf |
| Data descriptions   | Информационные Технологии на железнодорожном транспорте АСОУП 1_1382097675.pdf |

| Output <a href="#">taf_cat_complete</a> ( <a href="#">./taf_cat_complete.xsd</a> )                             | Nodes  |
|--|--|
|  | File: taf_cat_complete.xml<br>Type: string   |
|  | TrainRunningInformationMessage<br>Type: restriction of xs:anyType [0..1]<br>Annotation: This message is issued upon 1) Arrival, departure or run-through in agreed reporting points and/or 2) Attainment of the agreed initial running time and/or 3) A new divergence between nominal and actual being achieved in excess of the agreed threshold value 4) as a response to the EnquiryTrainsAtReportingLocationMessage. There will only be one train reported per message and will include one response per train at a location.   |
|  | TrainRunningInformationMessage/MessageHeader<br>Type: restriction of xs:anyType<br>Annotation: Used for all messages   |
|  | TrainRunningInformationMessage/MessageHeader/MessageReference<br>Type: restriction of xs:anyType<br>Annotation: This element identifies the message  |
| <a href="#">.../201 - приб поезда на станцию/Rows 1(h), n=2/B</a><br>Type: string<br>Annotation: Код сообщения | <a href="#">core.value-map =&gt; input   result =&gt;</a><br>.../MessageHeader/MessageReference/MessageType<br>Type: restriction of xs:integer<br>Annotation: To indicate the message type transmitted or referred to. The following list was agreed within the sector:<br>2001 PathCanceledMessage<br>2002 PathConfirmedMessage<br>2003 PathDetailsMessage<br>2004 PathDetailsRefusedMessage<br>2005 PathNotAvailableMessage<br>2006 PathRequestMessage<br>2007 ReceiptConfirmationMessage<br>3001 TrainAcceptedMessage<br>3002 TrainAtStartMessage<br>3003 TrainCompositionMessage<br>3004 TrainNotSuitableMessage<br>3005 TrainPositionMessage<br>3006 TrainReadyMessage<br>4001 TrainDelayCauseMessage |

|  |  |   |
|--|--|---|
|  |  | <p>4002 TrainDelayPerformanceMessage<br/>                 4003 TrainForecastAtReportingLocationMessage<br/>                 4004 TrainRunningForecastMessage<br/>                 4005 TrainRunningInformationMessage<br/>                 4006 TrainRunningInterruptionMessage<br/>                 5001 AlertMessage<br/>                 5002 WagonArrivalNoticeMessage<br/>                 5003 WagonDeliveryNoticeMessage<br/>                 5004 WagonDepartureNoticeMessage<br/>                 5005 WagonDeviationMessage<br/>                 5006 WagonETI_ETA_Message<br/>                 5007 WagonExceptionMessage<br/>                 5008 WagonExceptionReasonMessage<br/>                 5009 WagonInterchangeNoticeMessage<br/>                 5010 WagonInterchangeSubNoticeMessage<br/>                 5011 WagonOrderMessage<br/>                 5012 WagonReceivedAtInterchangeMessage<br/>                 5013 WagonRefusedAtInterchangeMessage<br/>                 5014 WagonReleaseNoticeMessage<br/>                 5015 WagonYardArrivalMessage<br/>                 5016 WagonYardDepartureMessage<br/>                 6001 IRN_DatasetMessage<br/>                 6002 LocationFileDatasetMessage<br/>                 6003 RollingStockDatasetMessage</p> |
| <a href="#">core.constant("01")</a>                              | <p><i>direct</i><br/>                 Annotation:<br/>                 ! Was generated automatically !</p>                       | <p>.../MessageHeader/MessageReference/MessageTypeVersion<br/>                 Type: restriction of xs:string<br/>                 Annotation: Version of the Message Type</p>   |
| <a href="#">core.constant("12345")</a>                           | <p><i>direct</i><br/>                 Annotation:<br/>                 ! Was generated automatically !</p>                       | <p>.../MessageHeader/MessageReference/MessageIdentifier<br/>                 Type: FreeText<br/>                 Annotation: Identification of the Message</p>  |
| <a href="#">lang.now   result =&gt;</a>                          | <p><i>direct</i><br/>                 Annotation:<br/>                 ! Was generated automatically !</p>                       | <p>.../MessageHeader/MessageReference/MessageDateTime<br/>                 Type: xs:dateTime<br/>                 Annotation: Generated by the common Interface</p>   |
|  |  | <p>TrainRunningInformationMessage/MessageHeader/MessageRoutingID<br/>                 Type: Numeric2-2 [0..1]<br/>                 Annotation: Additional information used to route the message to the correct receiving application (if needed)</p>  |
|  |  | <p>TrainRunningInformationMessage/MessageHeader/SenderReference<br/>                 Type: FreeText [0..1]<br/>                 Annotation: reference used by the sender (e.g. FTP file name)</p>   |
| <a href="#">core.constant("1020")</a>                            | <p><i>direct</i><br/>                 Annotation:<br/>                 ! to be investigated who sends to whom this message !</p> | <p>TrainRunningInformationMessage/MessageHeader/Sender<br/>                 Type: extension of CompanyCode<br/>                 Annotation: The sender of the message</p>   |
|  |  | <p>.../MessageHeader/Sender/@CI_InstanceNumber<br/>                 Type: Numeric2-2 [0..1]<br/>                 Annotation: Number of a Common Interface Instance for the same Company</p>   |
| <a href="#">core.constant("20")</a>                              | <p><i>direct</i><br/>                 Annotation:<br/>                 ! to be investigated who sends to whom this message !</p> | <p>TrainRunningInformationMessage/MessageHeader/Recipient<br/>                 Type: extension of CompanyCode<br/>                 Annotation: Receiver of the message</p>  |
|  |  | <p>.../MessageHeader/Recipient/@CI_InstanceNumber<br/>                 Type: Numeric2-2 [0..1]<br/>                 Annotation: Number of a Common Interface Instance for the same Company</p>  |
| <a href="#">.../201 - приб поезда на станцию/Rows 1(h).n=2/B</a> | <p><a href="#">core.value-map =&gt; input   result =&gt;</a></p>   | <p>TrainRunningInformationMessage/MessageStatus<br/>                 Type:<br/>                 Annotation: Assigned by the Sender 1=creation, 2=modification, 3=deletion</p>   |

|   |  |  |
|---|--|--|
| <p>Тип: string<br/>Annotation: Код сообщения</p>  |  | <p>TrainRunningInformationMessage/TrainOperationalIdentification<br/>Type: restriction of xs:anyType [0..1]</p>  |
|   |  | <p>TrainRunningInformationMessage/TrainOperationalIdentification/TransportOperationalIdentifiers<br/>Type: extension of CompositIdentifierOperationalType [1..∞]</p>   |
|   |  | <p>TrainRunningInformationMessage/OperationalTrainNumberIdentifier<br/>Type: restriction of xs:anyType</p>   |
| <p><a href="#">../201 - приб поезда на станцию/Rows 1(h). n=2/D</a><br/>Тип: string<br/>Annotation: Номер поезда</p>        | <p>direct</p>  | <p>TrainRunningInformationMessage/OperationalTrainNumberIdentifier/OperationalTrainNumber<br/>Type: String1-8<br/>Annotation: Identifies the train for traffic management purposes by the Dispatcher, GSMR services, etc.</p>  |
|   |  | <p>TrainRunningInformationMessage/OperationalTrainNumberIdentifier/ScheduledTimeAtHandover<br/>Type: xs:dateTime [0..1]<br/>Annotation: The scheduled departure date and time or the scheduled handover date and time at the border between two different IMs.</p>                           |
|   |  | <p>TrainRunningInformationMessage/OperationalTrainNumberIdentifier/ScheduledDateTimeAtTransfer<br/>Type: xs:dateTime [0..1]<br/>Annotation: The scheduled arrival at destination date and time or the scheduled outgoing transfer date and time at the border between two different IMs.</p> |
|   |  | <p>TrainRunningInformationMessage/ReferenceOTN<br/>Type: restriction of xs:anyType [0..1]</p>  |
|   |  | <p>TrainRunningInformationMessage/ResponsibleRU<br/>Type: CompanyCode [0..1]<br/>Annotation: RU Responsible for the physical operation of the train or wagon</p>   |
|   |  | <p>TrainRunningInformationMessage/TrainLocationReport<br/>Type: restriction of xs:anyType<br/>Annotation: Specifies the relevant running data of a train related to a specific location</p>  |
|   |  | <p>TrainRunningInformationMessage/TrainLocationReport/Location<br/>Type: LocationIdent<br/>Annotation: Identifies a Location using a LocationIdent</p>   |
| <p><a href="#">core.constant("RU")</a></p>  | <p>direct<br/>Annotation:<br/>! Must be derived from CSZT database !</p>   | <p>.../TrainLocationReport/Location/CountryCodeISO<br/>Type: extension of CountryIdentISO<br/>Annotation: Identifies a County or State by code (ISO 3166-1)</p>  |
| <p><a href="#">../201 - приб поезда на станцию/Rows 1(h). n=2/C</a><br/>Тип: string<br/>Annotation: Код пункта передачи</p> | <p>direct</p>  | <p>.../TrainLocationReport/Location/LocationPrimaryCode<br/>Type: Numeric1-5</p>   |
| <p><a href="#">core.constant("Гвоздово")</a></p>  | <p>direct<br/>Annotation:<br/>! Must be derived from CSZT database !</p>   | <p>.../TrainLocationReport/Location/PrimaryLocationName<br/>Type: FreeText [0..1]<br/>Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet</p>  |
|   |  | <p>.../TrainLocationReport/Location/LocationSubsidiaryIdentification<br/>Type: restriction of xs:anyType [0..1]<br/>Annotation: Code, Name and allocation company of Subsidiary Location</p>   |
| <p><a href="#">../201 - приб поезда на станцию/Rows 1(h). n=2/I</a><br/>Тип: string<br/>Annotation: число</p>               | <p>Annotation:<br/>! Year value missing !<br/><a href="#">core.concat =&gt; value5   result =&gt;</a><br/>Annotation:<br/>! Year value</p> | <p>TrainRunningInformationMessage/TrainLocationReport/LocationDateTime<br/>Type: xs:dateTime<br/>Annotation: Identifies the actual or forecasted Date / Time at a specific reporting point</p>   |

|   |  |  |
|---|--|--|
| <p><a href="#">.../201 - приб поезда на станцию/Rows 1(h), n=2/J</a><br/>                 Type: string<br/>                 Annotation: месяц</p> | <p>missing !<br/>                 Annotation:<br/>                 ! Year value missing !<br/> <a href="#">core.concat =&gt; value3   result =&gt;</a><br/>                 Annotation:<br/>                 ! Year value missing !</p>  |  |
| <p><a href="#">.../201 - приб поезда на станцию/Rows 1(h), n=2/K</a><br/>                 Type: string<br/>                 Annotation: час</p>   | <p>Annotation:<br/>                 ! Year value missing !<br/> <a href="#">core.concat =&gt; value7   result =&gt;</a><br/>                 Annotation:<br/>                 ! Year value missing !</p>   |  |
| <p><a href="#">.../201 - приб поезда на станцию/Rows 1(h), n=2/L</a><br/>                 Type: string<br/>                 Annotation: мин.</p>  | <p>Annotation:<br/>                 ! Year value missing !<br/> <a href="#">core.concat =&gt; value9   result =&gt;</a><br/>                 Annotation:<br/>                 ! Year value missing !</p>   |  |
| <p><a href="#">core.constant("2020")</a></p>  | <p>Annotation:<br/>                 ! Year value missing !<br/> <a href="#">core.concat =&gt; value1   result =&gt;</a><br/>                 Annotation:<br/>                 ! Year value missing !</p>   |  |
| <p><a href="#">core.constant("-")</a></p>   | <p>Annotation:<br/>                 ! Year value missing !<br/> <a href="#">core.concat =&gt; value4   result =&gt;</a><br/>                 Annotation:<br/>                 ! Year value missing !<br/> <a href="#">core.concat =&gt; value2   result =&gt;</a><br/>                 Annotation:<br/>                 ! Year value missing !</p> |  |
| <p><a href="#">core.constant("T")</a></p>   | <p>Annotation:<br/>                 ! Year value missing !<br/> <a href="#">core.concat =&gt; value6   result =&gt;</a><br/>                 Annotation:<br/>                 ! Year value missing !</p>   |  |
| <p><a href="#">core.constant(":".")</a></p>   | <p>Annotation:<br/>                 ! Year value missing !<br/> <a href="#">core.concat =&gt; value8  </a></p>   |  |

|   |   |  |
|---|---|--|
|   | <a href="#">result =&gt;</a><br>Annotation:<br>! Year value missing !   |  |
| <a href="#">core.constant("":00")</a>   | Annotation:<br>! Year value missing !<br><a href="#">core.concat</a><br>=> value10  <br><a href="#">result =&gt;</a><br>Annotation:<br>! Year value missing ! |  |
| <a href="#">../201 - приб поезда на станцию/Rows 1(h), n=2/B</a><br>Type: string<br>Annotation: Код сообщения | <a href="#">core.value-map</a><br>=> input   result<br>=>   | TrainRunningInformationMessage/TrainLocationReport/TrainLocationStatus<br>Type: RunningStatus<br>Annotation: Identifies the status of a train related to the actual time at a reporting point  |
|   |   | TrainRunningInformationMessage/TrainLocationReport/BookedLocationDateTime<br>Type: xs:dateTime [0..1]<br>Annotation: Scheduled Date and Time of a train at a specied location as defined in the path contract                        |
|   |   | TrainRunningInformationMessage/TrainLocationReport/ReferencedLocationDateTime<br>Type: xs:dateTime [0..1]<br>Annotation: Reference to original planned Date and Time agreed by all involved IMs and RUs.                             |
|   |   | TrainRunningInformationMessage/TrainLocationReport/TrainDelay<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Identifies the Delta delay time of a train against the booked schedule as well as against the referenced time |
|   |   | TrainRunningInformationMessage/TransferPoint<br>Type: LocationIdent [0..1]<br>Annotation: Transfer point or station of destination in the considered network   |
|   |   | TrainRunningInformationMessage/TransfereelM<br>Type: CompanyCode [0..1]<br>Annotation: Next IM   |

## 10. Трансформация из сообщения ОСЖД АСОУП 1397 в сообщение ТАФ ТСИ XML о передвижении вагона “События вагона” - Сообщение об прибытии вагона на сортировочную станцию / Mapping from the OSJD message ASOUP 1397 to the TAF TSI XML Wagon movement “Wagon Events” - WagonYardArrivalMessage

Ссылки / References :

|   |  |
|---|--|
| Внутренняя ссылка ЕЖДА файла сопоставления / Internal ERA reference of the mapping file | <b>ASOUP 1397 to TAF WagonYardArrivalMessage.mfd</b>                           |
| Дата окончательного сопоставления / Date of the final mapping                           | 26/02/2021   |
| Описания данных   | Информационные Технологии на железнодорожном транспорте АСОУП 1_1382097675.pdf |
| Data descriptions   | Информационные Технологии на железнодорожном транспорте АСОУП 1_1382097675.pdf |

Output **taf\_cat\_complete** ([./taf\\_cat\\_complete.xsd](#))

| Connections   |   | Nodes  |
|---|---|--|
|   |   | File: taf_cat_complete.xml<br>Type: string   |
|   |   | WagonYardArrivalMessage<br>Type: restriction of xs:anyType [0..1]<br>Annotation: This message is used by the RU to inform the LRU that the wagon has arrived at its yard.  |
|   |   | WagonYardArrivalMessage/MessageHeader<br>Type: restriction of xs:anyType<br>Annotation: Used for all messages  |
|   |   | WagonYardArrivalMessage/MessageHeader/MessageReference<br>Type: restriction of xs:anyType<br>Annotation: This element identifies the message   |
| <a href="#">.../1397 - прием вагона/Rows 1(h), n=2/B</a><br>Type: string<br>Annotation: Код сообщения | <a href="#">core.value-map =&gt; input   result =&gt;</a> | .../MessageHeader/MessageReference/MessageType<br>Type: restriction of xs:integer<br>Annotation: To indicate the message type transmitted or referred to. The following list was agreed within the sector:<br>2001 PathCanceledMessage<br>2002 PathConfirmedMessage<br>2003 PathDetailsMessage<br>2004 PathDetailsRefusedMessage<br>2005 PathNotAvailableMessage<br>2006 PathRequestMessage<br>2007 ReceiptConfirmationMessage<br>3001 TrainAcceptedMessage<br>3002 TrainAtStartMessage<br>3003 TrainCompositionMessage<br>3004 TrainNotSuitableMessage<br>3005 TrainPositionMessage<br>3006 TrainReadyMessage<br>4001 TrainDelayCauseMessage<br>4002 TrainDelayPerformanceMessage<br>4003 TrainForecastAtReportingLocationMessage<br>4004 TrainRunningForecastMessage |



|  |  |  |
|--|--|--|
|  |  | <p>4005 TrainRunningInformationMessage<br/>                 4006 TrainRunningInterruptionMessage<br/>                 5001 AlertMessage<br/>                 5002 WagonArrivalNoticeMessage<br/>                 5003 WagonDeliveryNoticeMessage<br/>                 5004 WagonDepartureNoticeMessage<br/>                 5005 WagonDeviationMessage<br/>                 5006 WagonETI_ETA_Message<br/>                 5007 WagonExceptionMessage<br/>                 5008 WagonExceptionReasonMessage<br/>                 5009 WagonInterchangeNoticeMessage<br/>                 5010 WagonInterchangeSubNoticeMessage<br/>                 5011 WagonOrderMessage<br/>                 5012 WagonReceivedAtInterchangeMessage<br/>                 5013 WagonRefusedAtInterchangeMessage<br/>                 5014 WagonReleaseNoticeMessage<br/>                 5015 WagonYardArrivalMessage<br/>                 5016 WagonYardDepartureMessage<br/>                 6001 IRN_DatasetMessage<br/>                 6002 LocationFileDatasetMessage<br/>                 6003 RollingStockDatasetMessage</p> |
| <a href="#">core.constant("01")</a>  | <p><i>direct</i><br/>                 Annotation:<br/>                 ! Was generated automatically !</p>                       | <p>.../MessageHeader/MessageReference/MessageTypeVersion<br/>                 Type: restriction of xs:string<br/>                 Annotation: Version of the Message Type</p>  |
| <a href="#">core.constant("12345")</a>   | <p><i>direct</i><br/>                 Annotation:<br/>                 ! Was generated automatically !</p>                       | <p>.../MessageHeader/MessageReference/MessageIdentifier<br/>                 Type: FreeText<br/>                 Annotation: Identification of the Message</p>   |
| <a href="#">lang.now   result =&gt;</a>  | <p><i>direct</i><br/>                 Annotation:<br/>                 ! Was generated automatically !</p>                       | <p>.../MessageHeader/MessageReference/MessageDateTime<br/>                 Type: xs:dateTime<br/>                 Annotation: Generated by the common Interface</p>  |
|  |  | <p>WagonYardArrivalMessage/MessageHeader/MessageRoutingID<br/>                 Type: Numeric2-2 [0..1]<br/>                 Annotation: Additional information used to route the message to the correct receiving application (if needed)</p>  |
|  |  | <p>WagonYardArrivalMessage/MessageHeader/SenderReference<br/>                 Type: FreeText [0..1]<br/>                 Annotation: reference used by the sender (e.g. FTP file name)</p>   |
| <a href="#">core.constant("1020")</a>  | <p><i>direct</i><br/>                 Annotation:<br/>                 ! to be investigated who sends to whom this message !</p> | <p>WagonYardArrivalMessage/MessageHeader/Sender<br/>                 Type: extension of CompanyCode<br/>                 Annotation: The sender of the message</p>   |
|  |  | <p>.../MessageHeader/Sender/@CI_InstanceNumber<br/>                 Type: Numeric2-2 [0..1]<br/>                 Annotation: Number of a Common Interface Instance for the same Company</p>  |
| <a href="#">core.constant("20")</a>  | <p><i>direct</i><br/>                 Annotation:<br/>                 ! to be investigated who sends to whom this message !</p> | <p>WagonYardArrivalMessage/MessageHeader/Recipient<br/>                 Type: extension of CompanyCode<br/>                 Annotation: Receiver of the message</p>  |
|  |  | <p>.../MessageHeader/Recipient/@CI_InstanceNumber<br/>                 Type: Numeric2-2 [0..1]<br/>                 Annotation: Number of a Common Interface Instance for the same Company</p>   |
| <p><a href="#">../1397 - прием вагона/Rows 1(h), n=2/L</a><br/>                 Type: string<br/>                 Annotation: Номер вагона</p> | <p><i>direct</i><br/>                 Annotation:<br/>                 ! 8N &gt; 12N wagon number !</p>                          | <p>WagonYardArrivalMessage/WagonNumberFreight<br/>                 Type: WagonIdent<br/>                 Annotation: Identifies uniquely the freight wagon by its number</p>   |
|  |  | <p>WagonYardArrivalMessage/YardArrival<br/>                 Type: restriction of xs:anyType<br/>                 Annotation: The arrival point of a wagon and the Date and Time when the wagon is taken over by the RU/Service Provider</p>  |
|  |  | <p>WagonYardArrivalMessage/YardArrival/Location<br/>                 Type: LocationIdent<br/>                 Annotation: Identifies a Location using a LocationIdent</p>  |
| <a href="#">core.constant("RU")</a>  | <p><i>direct</i><br/>                 Annotation:</p>  | <p>.../YardArrival/Location/CountryCodeISO<br/>                 Type: extension of CountryIdentISO</p>   |

|   |  |  |
|---|--|--|
|   | <b>! Must be derived from CSZT database !</b>  | Annotation: Identifies a County or State by code (ISO 3166-1)  |
| <a href="#">../1397 - прием вагона/Rows 1(h), n=2/C</a><br>Type: string<br>Annotation: Код пункта передачи (Сар-анск) | <i>direct</i>  | .../YardArrival/Location/LocationPrimaryCode<br>Type: Numeric1-5   |
| <a href="#">core.constant("Саранск")</a>  | <i>direct</i><br>Annotation:<br><b>! Must be derived from CSZT database !</b>  | .../YardArrival/Location/PrimaryLocationName<br>Type: FreeText [0..1]<br>Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet   |
|   |  | .../YardArrival/Location/LocationSubsidiaryIdentification<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Code, Name and allocation company of Subsidiary Location  |
|   |  | .../Location/LocationSubsidiaryIdentification/LocationSubsidiaryCode<br>Type: extension of String1-10<br>Annotation: this element identifies a location as a part of primary location e.g. a junction, a signal, a passing loop etc., It is unique when used in combination with a "LocationPrimaryCode" |
|   |  | .../Location/LocationSubsidiaryIdentification/AllocationCompany<br>Type: CompanyCode<br>Annotation: Name of company who is responsible for allocation and maintenance of codes   |
|   |  | .../Location/LocationSubsidiaryIdentification/LocationSubsidiaryName<br>Type: FreeText [0..1]<br>Annotation: To be completed in an official language of the Country using the ISO Unicode alphabet   |
| <a href="#">../1397 - прием вагона/Rows 1(h), n=2/G</a><br>Type: string<br>Annotation: число                          | Annotation:<br><b>! Year value missing !</b><br><a href="#">core.concat =&gt; value5   result =&gt;</a><br>Annotation:<br><b>! Year value missing !</b>  | WagonYardArrivalMessage/YardArrival/ArrivalTimeAtLocationActual<br>Type: xs:dateTime<br>Annotation: The actual arrival date and time at the defined location   |
| <a href="#">../1397 - прием вагона/Rows 1(h), n=2/H</a><br>Type: string<br>Annotation: месяц                          | Annotation:<br><b>! Year value missing !</b><br><a href="#">core.concat =&gt; value3   result =&gt;</a><br>Annotation:<br><b>! Year value missing !</b>  |  |
| <a href="#">../1397 - прием вагона/Rows 1(h), n=2/I</a><br>Type: string<br>Annotation: час                            | Annotation:<br><b>! Year value missing !</b><br><a href="#">core.concat =&gt; value7   result =&gt;</a><br>Annotation:<br><b>! Year value missing !</b>  |  |
| <a href="#">../1397 - прием вагона/Rows 1(h), n=2/J</a><br>Type: string<br>Annotation: мин.                           | Annotation:<br><b>! Year value missing !</b><br><a href="#">core.concat =&gt; value9   result =&gt;</a><br>Annotation:<br><b>! Year value missing !</b>  |  |
| <a href="#">core.constant("2020")</a>   | Annotation:<br><b>! Year value missing !</b><br><a href="#">core.concat =&gt; value1   result =&gt;</a><br>Annotation:<br><b>! Year value missing !</b>  |  |
| <a href="#">core.constant("-")</a>  | Annotation:<br><b>! Year value missing !</b><br><a href="#">core.concat =&gt; value4   result =&gt;</a><br>Annotation:<br><b>! Year value missing !</b><br><a href="#">core.concat =&gt; value2   result =&gt;</a> |  |

|  |   |  |
|--|---|--|
|  | <p>=&gt;</p> <p>Annotation:<br/>! Year value missing !</p>  |  |
| <a href="#">core.constant("T")</a>     | <p>Annotation:<br/>! Year value missing !</p> <p><a href="#">core.concat =&gt; value6   result</a></p> <p>=&gt;</p> <p>Annotation:<br/>! Year value missing !</p> |  |
| <a href="#">core.constant(":".)</a>    | <p>Annotation:<br/>! Year value missing !</p> <p><a href="#">core.concat =&gt; value8   result</a></p> <p>=&gt;</p> <p>Annotation:<br/>! Year value missing !</p> |  |
| <a href="#">core.constant(":".00")</a> | <p>Annotation:<br/>! Year value missing !</p> <p><a href="#">core.concat =&gt; value10   result =&gt;</a></p> <p>Annotation:<br/>! Year value missing !</p>       |  |

## 11. Трансформация из сообщения ОСЖД АСОУП 1397 в сообщение ТАФ ТСИ XML о передвижении вагона “События вагона” - Сообщение об отбытии вагона с сортировочной станции / Mapping from the OSJD message ASOUP 1397 to the TAF TSI XML Wagon movement “Wagon Events” - WagonYardDepartureMessage

Ссылки / References :

|   |  |
|---|--|
| Внутренняя ссылка ЕЖДА файла сопоставления / Internal ERA reference of the mapping file | <b>ASOUP 1397 to TAF WagonYardDepartureMessage.mfd</b>                         |
| Дата окончательного сопоставления / Date of the final mapping                           | 26/02/2021   |
| Описания данных   | Информационные Технологии на железнодорожном транспорте АСОУП 1_1382097675.pdf |
| Data descriptions   | Информационные Технологии на железнодорожном транспорте АСОУП 1_1382097675.pdf |

Output **taf\_cat\_complete** ([..\taf\\_cat\\_complete.xsd](#))

| Connections   |   | Nodes   |
|---|---|---|
|   |   | File: taf_cat_complete.xml<br>Type: string  |
|   |   | WagonYardDepartureMessage<br>Type: restriction of xs:anyType [0..1]<br>Annotation: This message is used by the RU/Service Provider to inform the Lead RU that the wagon has left the yard.  |
|   |   | WagonYardDepartureMessage/MessageHeader<br>Type: restriction of xs:anyType<br>Annotation: Used for all messages   |
|   |   | WagonYardDepartureMessage/MessageHeader/MessageReference<br>Type: restriction of xs:anyType<br>Annotation: This element identifies the message  |
| <a href="#">../1397 - подача вагона/Rows 1(h). n=2/B</a><br>Type: string<br>Annotation: Код сообщения | <a href="#">core.value-map =&gt; input   result =&gt;</a> | .../MessageHeader/MessageReference/MessageType<br>Type: restriction of xs:integer<br>Annotation: To indicate the message type transmitted or referred to. The following list was agreed within the sector:<br>2001 PathCanceledMessage<br>2002 PathConfirmedMessage<br>2003 PathDetailsMessage<br>2004 PathDetailsRefusedMessage<br>2005 PathNotAvailableMessage<br>2006 PathRequestMessage<br>2007 ReceiptConfirmationMessage<br>3001 TrainAcceptedMessage<br>3002 TrainAtStartMessage<br>3003 TrainCompositionMessage<br>3004 TrainNotSuitableMessage<br>3005 TrainPositionMessage<br>3006 TrainReadyMessage<br>4001 TrainDelayCauseMessage<br>4002 TrainDelayPerformanceMessage<br>4003 TrainForecastAtReportingLocationMessage<br>4004 TrainRunningForecastMessage<br>4005 TrainRunningInformationMessage |

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|   |  | <p>4006 TrainRunningInterruptionMessage<br/>                     5001 AlertMessage<br/>                     5002 WagonArrivalNoticeMessage<br/>                     5003 WagonDeliveryNoticeMessage<br/>                     5004 WagonDepartureNoticeMessage<br/>                     5005 WagonDeviationMessage<br/>                     5006 WagonETI_ETA_Message<br/>                     5007 WagonExceptionMessage<br/>                     5008 WagonExceptionReasonMessage<br/>                     5009 WagonInterchangeNoticeMessage<br/>                     5010 WagonInterchangeSubNoticeMessage<br/>                     5011 WagonOrderMessage<br/>                     5012 WagonReceivedAtInterchangeMessage<br/>                     5013 WagonRefusedAtInterchangeMessage<br/>                     5014 WagonReleaseNoticeMessage<br/>                     5015 WagonYardArrivalMessage<br/>                     5016 WagonYardDepartureMessage<br/>                     6001 IRN_DatasetMessage<br/>                     6002 LocationFileDatasetMessage<br/>                     6003 RollingStockDatasetMessage</p> |
| <a href="#">core.constant("01")</a>   | <p><i>direct</i><br/>                     Annotation:<br/>                     ! Was generated automatically !</p>                       | <p>.../MessageHeader/MessageReference/MessageTypeVersion<br/>                     Type: restriction of xs:string<br/>                     Annotation: Version of the Message Type</p>   |
| <a href="#">core.constant("12345")</a>  | <p><i>direct</i><br/>                     Annotation:<br/>                     ! Was generated automatically !</p>                       | <p>.../MessageHeader/MessageReference/MessageIdentifier<br/>                     Type: FreeText<br/>                     Annotation: Identification of the Message</p>  |
| <a href="#">lang.now   result =&gt;</a>   | <p><i>direct</i><br/>                     Annotation:<br/>                     ! Was generated automatically !</p>                       | <p>.../MessageHeader/MessageReference/MessageDateTime<br/>                     Type: xs:dateTime<br/>                     Annotation: Generated by the common Interface</p>   |
|   |  | <p>WagonYardDepartureMessage/MessageHeader/MessageRoutingID<br/>                     Type: Numeric2-2 [0..1]<br/>                     Annotation: Additional information used to route the message to the correct receiving application (if needed)</p>   |
|   |  | <p>WagonYardDepartureMessage/MessageHeader/SenderReference<br/>                     Type: FreeText [0..1]<br/>                     Annotation: reference used by the sender (e.g. FTP file name)</p>  |
| <a href="#">core.constant("1020")</a>   | <p><i>direct</i><br/>                     Annotation:<br/>                     ! to be investigated who sends to whom this message !</p> | <p>WagonYardDepartureMessage/MessageHeader/Sender<br/>                     Type: extension of CompanyCode<br/>                     Annotation: The sender of the message</p>  |
|   |  | <p>.../MessageHeader/Sender/@CI_InstanceNumber<br/>                     Type: Numeric2-2 [0..1]<br/>                     Annotation: Number of a Common Interface Instance for the same Company</p>   |
| <a href="#">core.constant("20")</a>   | <p><i>direct</i><br/>                     Annotation:<br/>                     ! to be investigated who sends to whom this message !</p> | <p>WagonYardDepartureMessage/MessageHeader/Recipient<br/>                     Type: extension of CompanyCode<br/>                     Annotation: Receiver of the message</p>   |
|   |  | <p>.../MessageHeader/Recipient/@CI_InstanceNumber<br/>                     Type: Numeric2-2 [0..1]<br/>                     Annotation: Number of a Common Interface Instance for the same Company</p>  |
| <p><a href="#">../1397 - подача вагона/Rows 1(h), n=2/L</a><br/>                     Type: string<br/>                     Annotation: Номер вагона</p> | <p><i>direct</i></p>   | <p>WagonYardDepartureMessage/WagonNumberFreight<br/>                     Type: WagonIdent<br/>                     Annotation: Identifies uniquely the freight wagon by its number</p>  |
|   |  | <p>WagonYardDepartureMessage/YardDeparture<br/>                     Type: restriction of xs:anyType<br/>                     Annotation: The departure point of a wagon and the Date and Time when the wagon is taken over by the RU/Service Provider</p>   |
|   |  | <p>WagonYardDepartureMessage/YardDeparture/Location</p>   |

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|   |  | Type: LocationIdent<br>Annotation: Identifies a Location using a LocationIdent  |
| <a href="#">core.constant("RU")</a>   | <i>direct</i><br>Annotation:<br><b>! Must be derived from CSZT database !</b>  | .../YardDeparture/Location/CountryCodeISO<br>Type: extension of CountryIdentISO<br>Annotation: Identifies a County or State by code (ISO 3166-1)                              |
| <a href="#">.../1397 - подача вагона/Rows 1(h), n=2/C</a><br>Type: string<br>Annotation: Код пункта передачи (Сар-анск) | <i>direct</i>  | .../YardDeparture/Location/LocationPrimaryCode<br>Type: Numeric1-5  |
| <a href="#">core.constant("Саранск")</a>  | <i>direct</i><br>Annotation:<br><b>! Must be derived from CSZT database !</b>  | .../YardDeparture/Location/PrimaryLocationName<br>Type: FreeText [0..1]<br>Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet  |
|   |  | .../YardDeparture/Location/LocationSubsidiaryIdentification<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Code, Name and allocation company of Subsidiary Location |
| <a href="#">.../1397 - подача вагона/Rows 1(h), n=2/G</a><br>Type: string<br>Annotation: число                          | Annotation:<br><b>! Year value missing !</b><br><a href="#">core.concat =&gt; value5   result =&gt;</a><br>Annotation:<br><b>! Year value missing !</b>  | WagonYardDepartureMessage/YardDeparture/DepartureTimeAtLocation<br>Type: xs:dateTime<br>Annotation: the scheduled departure date and time at a defined location               |
| <a href="#">.../1397 - подача вагона/Rows 1(h), n=2/H</a><br>Type: string<br>Annotation: месяц                          | Annotation:<br><b>! Year value missing !</b><br><a href="#">core.concat =&gt; value3   result =&gt;</a><br>Annotation:<br><b>! Year value missing !</b>  |   |
| <a href="#">.../1397 - подача вагона/Rows 1(h), n=2/I</a><br>Type: string<br>Annotation: час                            | Annotation:<br><b>! Year value missing !</b><br><a href="#">core.concat =&gt; value7   result =&gt;</a><br>Annotation:<br><b>! Year value missing !</b>  |   |
| <a href="#">.../1397 - подача вагона/Rows 1(h), n=2/J</a><br>Type: string<br>Annotation: мин.                           | Annotation:<br><b>! Year value missing !</b><br><a href="#">core.concat =&gt; value9   result =&gt;</a><br>Annotation:<br><b>! Year value missing !</b>  |   |
| <a href="#">core.constant("2020")</a>   | Annotation:<br><b>! Year value missing !</b><br><a href="#">core.concat =&gt; value1   result =&gt;</a><br>Annotation:<br><b>! Year value missing !</b>  |   |
| <a href="#">core.constant("-")</a>  | Annotation:<br><b>! Year value missing !</b><br><a href="#">core.concat =&gt; value4   result =&gt;</a><br>Annotation:<br><b>! Year value missing !</b><br><a href="#">core.concat =&gt; value2   result =&gt;</a><br>Annotation:<br><b>! Year value missing !</b> |   |
| <a href="#">core.constant("T")</a>  | Annotation:<br><b>! Year value missing !</b><br><a href="#">core.concat =&gt; value6   result =&gt;</a><br>Annotation:   |   |

|                                      |  |  |
|--------------------------------------|--|--|
|                                      | ! Year value missing !   |  |
| <a href="#">core.constant(":".)</a>  | Annotation:<br>! Year value missing !<br><a href="#">core.concat =&gt; value8   result =&gt;</a><br>Annotation:<br>! Year value missing !  |  |
| <a href="#">core.constant(":00")</a> | Annotation:<br>! Year value missing !<br><a href="#">core.concat =&gt; value10   result =&gt;</a><br>Annotation:<br>! Year value missing ! |  |

**12. Трансформация из сообщений ОСЖД АБД ПВ ТХТ с данными о подвижном составе (Технические характеристики вагона - Справка 5001, Паспорт вагона - Справка 2651 и Платформа модель) в сообщение о наборе данных о подвижном составе (TAF RSRD) ТАФ ТСИ XML / Mapping from the OSJD ABD PV TXT messages (Technical wagon characteristics - Reference 5001, Wagon passport – Reference 2651 and Platform model) to the TAF TSI XML Rolling Stock Dataset message (TAF RSRD)**

Ссылки / References :

|   |   |
|---|---|
| Внутренняя ссылка ЕЖДА файла сопоставления / Internal ERA reference of the mapping file | <b>ASOUP2RSRD.mfd</b>   |
| Дата окончательного сопоставления / Date of the final mapping                           | 19/01/2021  |
| Описания данных   | Примеры сообщений АБД ПВ ТХТ с данными о подвижном составе (Технические характеристики вагона - Справка 5001, Паспорт вагона - Справка 2651 и Платформа модель) |
| Data descriptions   | ABD PV TXT message examples (Technical wagon characteristics - Reference 5001, Wagon passport – Reference 2651 and Platform model)                              |

Output **taf\_cat\_complete** ([taf\\_cat\\_complete.xsd](#))

| Connections                           |        | Nodes   |
|---------------------------------------|--------|---|
|                                       |        | File: taf_cat_complete.xml<br>Type: string  |
|                                       |        | RollingStockDatasetMessage<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Rolling Stock administrative and Technical Dataset  |
|                                       |        | RollingStockDatasetMessage/MessageHeader<br>Type: restriction of xs:anyType<br>Annotation: Used for all messages  |
|                                       |        | RollingStockDatasetMessage/MessageHeader/MessageReference<br>Type: restriction of xs:anyType<br>Annotation: This element identifies the message   |
| <a href="#">core.constant("6004")</a> | direct | .../MessageHeader/MessageReference/MessageType<br>Type: restriction of xs:string<br>Annotation: To indicate the message type transmitted or referred to. The following list was agreed within the sector:<br>1000 ConsignmentOrderMessage<br><br>2001 PathCanceledMessage<br>2002 PathConfirmedMessage<br>2003 PathDetailsMessage<br>2004 PathDetailsRefusedMessage<br>2005 PathNotAvailableMessage |



|  |  |
|--|--|
|  | <p>2006 PathRequestMessage<br/>2007 ReceiptConfirmationMessage</p> <p>-- sector messages (Planning) --<br/>2500 PathCoordinationMessage<br/>2501 PathSectionNotificationMessage<br/>-- sector message end --</p> <p>3003 TrainCompositionMessage<br/>3006 TrainReadyMessage<br/>4001 TrainDelayCauseMessage<br/>4004 TrainRunningForecastMessage<br/>4005 TrainRunningInformationMessage<br/>4006 TrainRunningInterruptionMessage</p> <p>-- sector message (Operations) --<br/>4500 PassengerTrainCompositionProcessMessage<br/>4501 RollingStockRestrictionMessage<br/>4504 ChangeOfTrackMessage<br/>4505 TrainJourneyModificationMessage<br/>-- sector message end --</p> <p>5001 AlertMessage<br/>5002 WagonArrivalNoticeMessage<br/>5003 WagonDeliveryNoticeMessage<br/>5004 WagonDepartureNoticeMessage<br/>5006 WagonETI_ETA_Message<br/>5007 WagonExceptionMessage<br/>5008 WagonExceptionReasonMessage<br/>5009 WagonInterchangeNoticeMessage<br/>5012 WagonReceivedAtInterchangeMessage<br/>5013 WagonRefusedAtInterchangeMessage<br/>5014 WagonReleaseNoticeMessage<br/>5015 WagonYardArrivalMessage<br/>5016 WagonYardDepartureMessage</p> <p>6002 LocationFileDatasetMessage<br/>6003 RollingStockDatasetMessage</p> <p>--sector (RU-RU) ---<br/>5500 WagonPerformanceMessage<br/>-- sector end---</p> <p>6004 RollingStockDatasetQueryMessage</p> <p>-- sector (TrainID) begin --<br/>8500 UplateLinkMessage<br/>8501 ObjectInfoMessage<br/>-- sector end --</p> <p>9000 ErrorMessage</p> |
|  | <p>.../MessageHeader/MessageReference/MessageTypeVersion<br/>Type: restriction of xs:string<br/>Annotation: Version of the Message Type</p>  |
|  | <p>.../MessageHeader/MessageReference/MessageIdentifier<br/>Type: FreeText<br/>Annotation: Identification of the Message</p>   |
|  | <p>.../MessageHeader/MessageReference/MessageDateTime<br/>Type: xs:dateTime<br/>Annotation: Generated by the common Interface</p>  |
|  | <p>RollingStockDatasetMessage/MessageHeader/MessageRoutingID<br/>Type: Numeric2-2 [0..1]<br/>Annotation: Additional information used to route the message to the correct receiving application (if needed)</p>   |
|  | <p>RollingStockDatasetMessage/MessageHeader/SenderReference<br/>Type: FreeText [0..1]<br/>Annotation: reference used by the sender (e.g. FTP file name)</p>  |
|  | <p>RollingStockDatasetMessage/MessageHeader/Sender<br/>Type: extension of CompanyCode</p>  |

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|  |   | Annotation: The sender of the message   |
|  |   | .../MessageHeader/Sender/@CI_InstanceNumber<br>Type: Numeric2-2 [0..1]<br>Annotation: Number of a Common Interface Instance for the same Company  |
|  |   | RollingStockDatasetMessage/MessageHeader/MessageDateTimeCreated<br>Type: xs:date [0..1]<br>Annotation: Date and time when the message was created by the legacy system  |
|  |   | RollingStockDatasetMessage/MessageHeader/Recipient<br>Type: extension of CompanyCode<br>Annotation: Receiver of the message   |
|  |   | .../MessageHeader/Recipient/@CI_InstanceNumber<br>Type: Numeric2-2 [0..1]<br>Annotation: Number of a Common Interface Instance for the same Company   |
| <a href="#">Workbook/Техн характ гориз/Rows 1(h).n=dyn</a><br>Type:  | direct  | RollingStockDatasetMessage/RollingStockDataset<br>Type: restriction of xs:anyType [0..∞]<br>Annotation: Rolling Stock administrative and Technical Dataset  |
|  |   | RollingStockDatasetMessage/RollingStockDataset/AdministrativeDataSet<br>Type: restriction of xs:anyType   |
| <a href="#">.../Техн характ гориз/Rows 1(h).n=dyn/B</a><br>Type: string<br>Annotation: ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ ВАГОНА | direct<br>Annotation: <b>! Conversion problem 8N &gt; 12 N ! see chapter Ошибка! Источник ссылки не найден.</b>   | .../RollingStockDataset/AdministrativeDataSet/WagonNumberFreight<br>Type: WagonIdent<br>Annotation: Identifies uniquely the freight wagon by its number   |
| <a href="#">.../Техн характ гориз/Rows 1(h).n=dyn/BG</a><br>Type: string<br>Annotation: СТАРЫЙ НОМЕР ВАГОНА              | direct  | .../RollingStockDataset/AdministrativeDataSet/PreviousWagonNumberFreight<br>Type: WagonIdent [0..1]<br>Annotation: For identification of a wagon after renumbering  |
| <a href="#">.../Техн характ гориз/Rows 1(h).n=dyn/AK</a><br>Type: string<br>Annotation: СОБСТВЕННИК                      | direct  | .../RollingStockDataset/AdministrativeDataSet/RegistrationCountry<br>Type: CountryIdentISO<br>Annotation: ISO country code of registration country  |
| <a href="#">.../Техн характ гориз/Rows 1(h).n=dyn/F</a><br>Type: string<br>Annotation: ДАТА НАЗНАЧЕНИЯ СОСТОЯНИЯ         | direct  | .../RollingStockDataset/AdministrativeDataSet/DatePutIntoService<br>Type: xs:date<br>Annotation: Original Date of first operation   |
|  |   | .../RollingStockDataset/AdministrativeDataSet/AuthorisationValidUntil<br>Type: xs:date [0..1]<br>Annotation: End date for restricted authorisation (special case)   |
| <a href="#">.../Техн характ гориз/Rows 1(h).n=dyn/AN</a><br>Type: string<br>Annotation: СРОК СЛУЖБЫ ВАГОНА               | <a href="#">core.value-map =&gt; input   result =&gt;</a>   | .../RollingStockDataset/AdministrativeDataSet/SuspensionOfAuthorisation<br>Type: xs:boolean<br>Annotation: Information if authorisation has been suspended by the authority   |
| <a href="#">.../Техн характ гориз/Rows 1(h).n=dyn/Z</a><br>Type: string<br>Annotation: ДАТА ИСКЛЮЧЕНИЯ                   | Annotation: <b>! ASOUP value = HE УКАЗАНА !</b><br><a href="#">core.value-map =&gt; input   result =&gt;</a><br>Annotation: <b>! ASOUP value = HE УКАЗАНА !</b> | .../RollingStockDataset/AdministrativeDataSet/DateSuspensionOfAuthorisation<br>Type: xs:date [0..1]<br>Annotation: Date of the suspension of authorisation; must be provided in case of suspension  |
|  |   | .../RollingStockDataset/AdministrativeDataSet/MultilateralAuthorisationCountries<br>Type: CountryIdentISO [0..∞]<br>Annotation: ISO country code of countries where the wagon is authorised (applies only in case of limited interoperability); first entry indicates the initial authorisation |

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|--|---|---|
|  |   | country   |
|  |   | <p>.../RollingStockDataset/AdministrativeDataSet/ChannelTunnelPermitted</p> <p>Type: xs:boolean [0..1]</p> <p>Annotation: Indication if wagon is allowed to pass the Channel Tunnel - if the transport is planned between UK and France and should use Eurotunnel infrastructure.</p>       |
|  |   | <p>.../RollingStockDataset/AdministrativeDataSet/QuieterRoutesExemptionCountry</p> <p>Type: CountryIdentISO [0..∞]</p> <p>Annotation: 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</p> |
| <p><a href="#">.../Техн характ гориз/Rows 1(h), n=dyn/AD</a></p> <p>Type: string</p> <p>Annotation: НАИМЕНОВАНИЕ СОБСТВЕННИКА ВАГОНА</p> | <p>direct</p>   | <p>.../RollingStockDataset/AdministrativeDataSet/KeeperShortNameVKM</p> <p>Type: restriction of xs:string</p> <p>Annotation: Free text, short name/vehicle keeper marking of the wagon keeper</p>   |
| <p><a href="#">.../Техн характ гориз/Rows 1(h), n=dyn/T</a></p> <p>Type: string</p> <p>Annotation: ДЕПО ПОСЛЕДНЕГО ДЕП. РЕМОНТА</p>      | <p>direct</p> <p>Annotation: <b>! To check if this is correct !</b></p> | <p>.../RollingStockDataset/AdministrativeDataSet/ECM</p> <p>Type: restriction of xs:string</p> <p>Annotation: Full name of the assigned Entity in Charge of Maintenance</p>   |
|  |   | <p>.../RollingStockDataset/AdministrativeDataSet/PlannedChangeOfECM</p> <p>Type: restriction of xs:anyType [0..1]</p>   |
|  |   | <p>.../AdministrativeDataSet/PlannedChangeOfECM/CurrentECMAssignedUntil</p> <p>Type: xs:date</p> <p>Annotation: Date until the current Entity in Charge of Maintenance is assigned to the wagon</p>   |
|  |   | <p>.../AdministrativeDataSet/PlannedChangeOfECM/SubsequentECM</p> <p>Type: restriction of xs:string</p> <p>Annotation: Full name of the following Entity in Charge of Maintenance</p>   |
|  |   | <p>.../RollingStockDataset/AdministrativeDataSet/ECMCertificate</p> <p>Type: restriction of xs:anyType</p> <p>Annotation: ECM certificate information</p>   |
|  |   | <p>.../AdministrativeDataSet/ECMCertificate/EINNumber</p> <p>Type: restriction of xs:anyType</p> <p>Annotation: ECM certificate reference number</p> <p>NOTE: this is a placeholder! CR 335 by ERA is containing this element and its full description and code lists.</p>                  |
|  |   | <p>.../ECMCertificate/EINNumber/CountryCodeISO</p> <p>Type: extension of CountryIdentISO</p> <p>Annotation: Identifies a County or State by code (ISO 3166-1)</p>   |
|  |   | <p>.../ECMCertificate/EINNumber/TypeDocumentEIN</p> <p>Type: Numeric2-2</p> <p>Annotation: Code List Candidate:<br/>31, 34</p>  |
|  |   | <p>.../ECMCertificate/EINNumber/CounterAccreditedRecognizedBody</p> <p>Type: Numeric2-2</p>   |
|  |   | <p>.../ECMCertificate/EINNumber/EINYear</p> <p>Type: Numeric2-2</p>   |
|  |   | <p>.../ECMCertificate/EINNumber/EINCounter</p> <p>Type: restriction of xs:integer</p>   |
| <p><a href="#">.../Техн характ гориз/Rows 1(h), n=dyn/U</a></p> <p>Type: string</p> <p>Annotation: ДАТА ПОСЛЕДНЕГО ДЕП. РЕМОНТА</p>      | <p>direct</p> <p>Annotation: <b>! To check if this is correct !</b></p> | <p>.../AdministrativeDataSet/ECMCertificate/ECMCertificateValidFrom</p> <p>Type: xs:date</p> <p>Annotation: Certificate valid from date</p>   |
| <p><a href="#">.../Техн характ гориз/Rows 1(h), n=dyn/K</a></p> <p>Type: string</p> <p>Annotation: ДАТА СЛЕДУЮЩЕГО ПЛАНОВОГО РЕМОНТА</p> | <p>direct</p>   | <p>.../AdministrativeDataSet/ECMCertificate/ECMCertificateValidTo</p> <p>Type: xs:date</p> <p>Annotation: Certificate valid to date</p>   |

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| <p><a href="#">.../Техн характ<br/>гориз/Rows 1(h).<br/>n=dyn/P</a><br/>Type: string<br/>Annotation: МОДЕЛЬ<br/>ВАГОНА</p>   | <p><a href="#">core.value-map =&gt;<br/>input   result =&gt;</a></p>  | <p>.../AdministrativeDataSet/ECMCertificate/CoversTankWagonsForDangerousGoods<br/>Type: xs:boolean<br/>Annotation: Certificate covers tank wagons for dangerous goods</p>  |
| <p><a href="#">.../Техн характ<br/>гориз/Rows 1(h).<br/>n=dyn/P</a><br/>Type: string<br/>Annotation: МОДЕЛЬ<br/>ВАГОНА</p>   | <p><a href="#">core.value-map =&gt;<br/>input   result =&gt;</a></p>  | <p>.../AdministrativeDataSet/ECMCertificate/CoversNonTankWagonsForDangerousGoods<br/>Type: xs:boolean<br/>Annotation: Certificate covers other wagons specialised in transport of dangerous goods</p>  |
| <p><a href="#">.../Техн характ<br/>гориз/Rows 1(h).<br/>n=dyn/Z</a><br/>Type: string<br/>Annotation: ДАТА<br/>ИСКЛЮЧЕНИЯ</p> | <p><a href="#">core.value-map =&gt;<br/>input   result =&gt;</a></p>  | <p>.../AdministrativeDataSet/ECMCertificate/ECMCertificateSuspended<br/>Type: xs:boolean<br/>Annotation: Identification if certificate has been suspended for any reason</p>   |
|  | <p>.../AdministrativeDataSet/ECMCertificate/DateECMCertificateSuspended<br/>Type: xs:date [0..1]<br/>Annotation: Date of the suspension of the ECM certificate; must be provided in case of suspension</p>  |  |
|  | <p>.../RollingStockDataset/AdministrativeDataSet/InteropCapability<br/>Type: restriction of xs:integer<br/>Annotation: Identification of the general interoperability capability of the wagon<br/>The following values/codes are proposed for the usage:<br/><br/>01 = National<br/>02 = Bi-/Multilateral (with agreement or authorisation grid)<br/><br/>03 = RIV<br/>05 = TEN<br/><br/>06 = TEN-GE<br/><br/>07 = TEN-CW<br/><br/>08 = TEN RIV<br/><br/><b>ABD PV includes "running area"; one of its indicators is the authorization for running among CIS railway administrations.</b></p> |  |
| <p><a href="#">core.constant(0)</a></p>  | <p>direct</p>   | <p>.../RollingStockDataset/AdministrativeDataSet/GCUWagon<br/>Type: xs:boolean<br/>Annotation: Indication if wagon is operated under the GCU contract</p>  |
|  | <p>RollingStockDatasetMessage/RollingStockDataset/DesignDataSet<br/>Type: restriction of xs:anyType</p>   |  |
| <p><a href="#">.../Техн характ<br/>гориз/Rows 1(h).<br/>n=dyn/P</a><br/>Type: string<br/>Annotation: МОДЕЛЬ<br/>ВАГОНА</p>   | <p>direct<br/>Annotation:<br/><b>! To check if this is correct !</b></p>  | <p>.../RollingStockDataset/DesignDataSet/LetterMarking<br/>Type: restriction of xs:string<br/>Annotation: Complete wagon category letter code. The Identification marking for freight rolling stock (wagon type) is defined in UIC Leaflet 438-2</p> |
|  | <p>.../RollingStockDataset/DesignDataSet/TankCode<br/>Type: restriction of xs:string [0..1]<br/>Annotation: 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</p>  |  |
| <p><a href="#">core.constant(4)</a></p>  | <p>direct<br/>Annotation:<br/><b>! Derived from Платформа модель 13-401 !</b></p>   | <p>.../RollingStockDataset/DesignDataSet/WagonNumberOfAxles<br/>Type:<br/>Annotation: Number of Axles for a wagon</p>  |
|  | <p>.../RollingStockDataset/DesignDataSet/WheelSetType<br/>Type: restriction of xs:string [0..1]<br/>Annotation: Type name of the wheel sets, and the name of the type depends on the manufacturer.</p>  |  |
|  | <p>.../RollingStockDataset/DesignDataSet/WheelDiameter<br/>Type: [0..1]</p>   |  |

|  |        |   |
|--|--------|---|
|  |        | Annotation: Diameter of wheels measured in mm.<br>Reference wheel diameter at maximum.  |
|  |        | .../RollingStockDataset/DesignDataSet/WheelsetGauge<br>Type: [0..∞]<br>Annotation: Track Gauge measured in mm; multi-entry for wagons with changeable wheel set gauge   |
|  |        | .../RollingStockDataset/DesignDataSet/WheelSetTransformationMethod<br>Type: [0..1]<br>Annotation:<br>„Description of the wheel set transformation method for wagons with a changeable wheel set gauge. Code list:<br>1 = Automatic,<br>2 = Bogie/axle change  |
|  |        | .../RollingStockDataset/DesignDataSet/NumberOfBogies<br>Type: restriction of xs:int [0..1]  |
|  |        | .../RollingStockDataset/DesignDataSet/BogiePitch<br>Type: restriction of xs:integer [0..1]<br>Annotation: Bogie Wheelbase measured in mm  |
|  |        | .../RollingStockDataset/DesignDataSet/BogiePivotPitch<br>Type: Numeric1-5 [0..1]<br>Annotation: Largest distance between two adjacent bogie pitches in mm   |
|  |        | .../RollingStockDataset/DesignDataSet/InnerWheelbase<br>Type: Numeric1-5<br>Annotation: Maximum distance between two adjacent axles in mm   |
|  |        | .../RollingStockDataset/DesignDataSet/CouplingType<br>Type: restriction of xs:token [0..1]<br>Annotation: Classification of coupling:<br>0 = without coupler<br>1 = non-reinforced coupler less than 85t<br>2 = reinforced coupler equals to 85t<br>3 = ultra-reinforced coupler greater than 85t<br>4 = automatic coupling   |
|  |        | .../RollingStockDataset/DesignDataSet/BufferType<br>Type: restriction of xs:string [0..1]<br>Annotation: 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)   |
|  |        | .../RollingStockDataset/DesignDataSet/NormalLoadingGauge<br>Type: restriction of xs:token [0..1]<br>Annotation: Wagon or load gauge code used in UK, coded in UIC 505-1 and 503:<br>All codes are defined in the UIC Leaflet 505-1 and 503, as well as in the EN 15273-2. For details please refer to EN 15273-2:2013 (Railway applications - Gauges - Part 2: Rolling stock gauge). For the existing gauges in the list, the Annex B.3 should be used. For the new ones, use the table below.<br>Candidate:<br>G1, G2, GA, GB, GC, CM, CE, M2, M3, M4, GB1, GB2, GB-M6, GHE16, W6-A.<br>Lately added:<br>G1                   Annex A.3<br>G2                   Annex E.1.2<br>GB2                  Annex C.1.2<br>GB-M6               Annex N.4 (annex currently in preparation)<br>GHE16               Annex P.3<br>W6-A                W6a is designed for non- bogied wagons with axle spacings of 12.8m (42'), and 18.3m length (60') |
|  |        | .../RollingStockDataset/DesignDataSet/MinCurveRadius<br>Type: restriction of xs:integer<br>Annotation: Measured in Metres   |
|  |        | .../RollingStockDataset/DesignDataSet/MinVerticalRadiusYardHump<br>Type: restriction of xs:integer [0..1]<br>Annotation: Minimum allowed vertical radius over yard humps. Measured in meters.   |
| .../Техн характ<br>гориз/Rows 1(h).<br>n=dyn/Q<br>Type: string<br>Annotation: TAPA | direct | .../RollingStockDataset/DesignDataSet/WagonWeightEmpty<br>Type: WeightValueKilo<br>Annotation: The weight of an empty wagon according to the entry in the rolling stock database  |

|  |  |   |
|--|--|---|
| ВАГОНА   |  |   |
| <a href="#">.../Техн характ гориз/Rows 1(h), n=dyn/S</a><br>Type: string<br>Annotation: ДЛИНА ПО ОСЯМ АВТОСЦЕПКИ | <i>direct</i>  | .../RollingStockDataset/DesignDataSet/LengthOverBuffers<br>Type: restriction of xs:integer<br>Annotation: Length over buffers is expressed in cm.   |
| <a href="#">core.constant(22.7)</a>  | <i>direct</i><br>Annotation:<br>! Derived from Платформа модель 13-401 ! | .../RollingStockDataset/DesignDataSet/MaxAxleWeight<br>Type: restriction of xs:decimal<br>Annotation: Indicates the maximum design axle weight (to).  |
|  |  | .../RollingStockDataset/DesignDataSet/LoadTable<br>Type: restriction of xs:anyType [0..∞]<br>Annotation: 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).                          |
|  |  | .../DesignDataSet/LoadTable/LoadTableProduct<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Product description, only applies for product-specific load tables  |
|  |  | .../DesignDataSet/LoadTable/LoadTableCountry<br>Type: CountryIdentISO [0..∞]<br>Annotation: ISO country code of countries for additional load tables  |
|  |  | .../DesignDataSet/LoadTable/SpeedCategory<br>Type: Numeric1-5 [1..∞]<br>Annotation: Numeric speed in load table, without speed empty in km/h  |
|  |  | .../DesignDataSet/LoadTable/LoadTableStars<br>Type: restriction of xs:integer [0..1]<br>Annotation: Number of load table stars. Currently recognized values/codes:<br>1 = Authorised to run loaded in trains up to 100 km/h with a brake that does not meet all the requirements for 100 km/h conditions<br>2 = Authorised to run loaded in trains up to 120 km/h with a brake that does not meet all the requirements for 120 km/h conditions<br>3 = Authorised to run loaded in trains up to 120 km/h with a brake that does not meet all the requirements for 120 km/h conditions. Wagon is fitted with an automatic load-proportional braking system. |
|  |  | .../DesignDataSet/LoadTable/RouteClassPayloads<br>Type: restriction of xs:anyType [1..∞]  |
| <a href="#">core.constant("120")</a>   | <i>direct</i><br>Annotation:<br>! Derived from Платформа модель 13-401 ! | .../RollingStockDataset/DesignDataSet/MaxDesignSpeed<br>Type: restriction of xs:integer<br>Annotation: Maximum approved speed of the wagon (km/h)   |
|  |  | .../RollingStockDataset/DesignDataSet/AirBrake<br>Type: restriction of xs:anyType<br>Annotation: Characteristics of Air Brakes  |
|  |  | .../DesignDataSet/AirBrake/NumberOfBrakes<br>Type: Numeric2-2<br>Annotation: Number of air brakes   |
|  |  | .../DesignDataSet/AirBrake/BrakeSystem<br>Type: restriction of xs:string [0..1]<br>Annotation: 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  |
|  |  | .../DesignDataSet/AirBrake/AirBrakeType<br>Type:<br>Annotation: Classification of air brake.<br>additional code:<br>8 No air brake or brake pipe The code is defined in UIC Leaflet 920-13.<br><b>All RZD wagons are equipped with the air brake.</b>   |

|   |   |   |
|---|---|---|
|   |   | TBC for other OSJD countries which are not concerned by TAF TSI application.  |
|   |   | .../DesignDataSet/AirBrake/BrakingPowerVariationDevice<br>Type:<br>Annotation: Coding in 404-2, chapter 1.8   |
|   |   | .../DesignDataSet/AirBrake/AirBrakedMass<br>Type:<br>Annotation: General braked weight for wagon without a variation device; Braked weight empty for wagons with a variation device; maximum braked weight for wagons with linear auto continuous device; "0" for wagons without air brake (in tons).   |
|   |   | .../DesignDataSet/AirBrake/LoadChangeDevice<br>Type: restriction of xs:anyType [0..∞]<br>Annotation: Specific weights for change over air brake systems   |
|   |   | .../DesignDataSet/AirBrake/BrakeSpecialCharacteristics<br>Type:<br>Annotation:<br>General brake characteristics. The values refer to UIC leaflet 920-13:<br>0 = Cast Iron Brake Blocks<br>1 = Disc Brake<br>2 = K-Brake Blocks<br>3 = Cast Iron Brake Blocks, single release brake<br>4 = Composite Brake Blocks, single release brake<br>5 = L-Brake Blocks<br>6 = LL-Brake Blocks<br>9 = Unknown or non-coded information |
|   |   | .../RollingStockDataset/DesignDataSet/HandBrake<br>Type: restriction of xs:anyType  |
| .../Техн характ<br>гориз/Rows 1(h),<br>n=dyn/AZ<br>Type: string<br>Annotation: РУЧНОЙ<br>ТОРМОЗ | <a href="#">core.value-map =&gt;<br/>input   result =&gt;</a>                 | .../DesignDataSet/HandBrake/HandBrakeType<br>Type:<br>Annotation: Classification of hand brake:<br><br>0 No hand brake<br>1 Ground-operated hand brake<br>2 Platform-operated hand brake  |
|   |   | .../DesignDataSet/HandBrake/HandBrakedWeight<br>Type: restriction of xs:decimal [0..1]<br>Annotation: Braked weight of the hand brake in tons   |
|   |   | .../DesignDataSet/HandBrake/ParkingBrakeForce<br>Type: restriction of xs:decimal [0..1]<br>Annotation: Indicates the parking brake force of the hand brake (kN).<br>When the parking brake force is marked on the wagon the information must be provided in the RSRD message.   |
|   |   | .../RollingStockDataset/DesignDataSet/DerailmentDetectionDevice<br>Type: DerailmentDetectionDevice [0..1]   |
|   |   | .../RollingStockDataset/DesignDataSet/BrakeBlock<br>Type: restriction of xs:anyType [0..1]<br>Annotation: Characteristics of brake blocks   |
|   |   | .../RollingStockDataset/DesignDataSet/MaxLengthOfLoad<br>Type: restriction of xs:integer [0..1]<br>Annotation: Measured in mm   |
| <a href="#">core.constant(41.8)</a>   | <i>direct</i><br>Annotation:<br>! Derived from<br>Платформа модель<br>13-401! | .../RollingStockDataset/DesignDataSet/LoadArea<br>Type: restriction of xs:decimal [0..1]<br>Annotation: Payload Area - measured in M2   |
| <a href="#">core.constant(1310)</a>   | <i>direct</i><br>Annotation:<br>! Derived from<br>Платформа модель<br>13-401! | .../RollingStockDataset/DesignDataSet/HeightOfLoadingPlaneUnladen<br>Type: Numeric1-5 [0..1]<br>Annotation: Height of the loading plane when wagon is empty measured in mm  |
|   |   | .../RollingStockDataset/DesignDataSet/RemovableAccessories<br>Type: restriction of xs:anyType [0..∞]  |
|   |   | .../DesignDataSet/RemovableAccessories/TypeOfRemovableAccessories<br>Type:<br>Annotation: Specification of removable accessory.<br>Should be added to Code List. Values refer to UIC Leaflet 920-13:  |

|  |   |  |
|--|---|--|
|  |   | <p>01 = Removable stanchion<br/>                 02 = Removable side flap of flat wagon<br/>                 03 = Removable end flap of flat wagon<br/>                 04 = Removable side rail<br/>                 05 = Removable intermediate upright for securing the load<br/>                 06 = Stanchion chain<br/>                 07 = Removable handle and wheel for winch on car-carrying wagon<br/>                 08 = Swivelling bolster (with stanchions)<br/>                 09 = Coupling rod (rigid coupling)<br/>                 10 = Ice bunker<br/>                 11 = Ice bunker screen<br/>                 12 = Ice bunker frame<br/>                 13 = Trestle or bar with hooks for hanging meat<br/>                 14 = Movable cross-member of wagon with low loading plane<br/>                 15 = Removable support<br/>                 16 = Mooring cross-member on wagon for special loads<br/>                 17 = Movable floor panel on wagon for special loads<br/>                 18 = Scotch<br/>                 19 = Skid bar with or without shoes on car-carrying wagon<br/>                 20 = Mooring strap on car-carrying wagon<br/>                 21 = Beam for movable ramp on car-carrying wagon<br/>                 22 = Spare heating half-coupling<br/>                 23 = Fire extinguisher<br/>                 24 = Wheel scotches (for cars) on car-carrying wagon<br/>                 25 = Gangway loading ramp on car-carrying wagon<br/>                 26 = Metal cradles for rolls of metal sheeting<br/>                 27 = Panel for covering markings<br/>                 28 = Loading frame for special types of goods<br/>                 29 = Headstock for "rolling roads"<br/>                 99 = Other wagon accessories</p> |
|  |   | <p>.../DesignDataSet/RemovableAccessories/NumberOfAccessorOfSpecType<br/>                 Type: Numeric2-2<br/>                 Annotation: Number of specified accessory equipped on the wagon</p>  |
| <p><a href="#">core.constant(37.0)</a></p>   | <p><i>direct</i><br/>                 Annotation:<br/>                 ! Derived from<br/>                 Платформа модель<br/>                 13-401 !</p> | <p>.../RollingStockDataset/DesignDataSet/LoadingCapacity<br/>                 Type: restriction of xs:decimal [0..1]<br/>                 Annotation: Usable Cube - measured in M3</p>   |
| <p>.../Техн характ<br/>                 гориз/Rows 1(h).<br/>                 n=dyn/Q<br/>                 Type: string<br/>                 Annotation: ТАРА<br/>                 ВАГОНА</p>                                  | <p><a href="#">core.add =&gt; value1</a><br/> <a href="#">  result =&gt;</a></p>  | <p>.../RollingStockDataset/DesignDataSet/MaxGrossWeight<br/>                 Type: WeightValueKilo<br/>                 Annotation: Weight of max Gross Load Weight plus the tare weight of the equipment</p>  |
| <p>.../Техн характ<br/>                 гориз/Rows 1(h).<br/>                 n=dyn/R<br/>                 Type: string<br/>                 Annotation:<br/>                 ГРУЗОПОДЪЁМНОСТЬ<br/>                 ВАГОНА</p> | <p><a href="#">core.add =&gt; value2</a><br/> <a href="#">  result =&gt;</a></p>  |  |
|  |   | <p>.../RollingStockDataset/DesignDataSet/VapourReturnSystem<br/>                 Type: xs:boolean [0..1]<br/>                 Annotation: Indication if tank wagon is equipped with a vapour return system</p>   |
|  |   | <p>.../RollingStockDataset/DesignDataSet/FerryPermittedFlag<br/>                 Type: xs:boolean [0..1]</p>   |
|  |   | <p>.../RollingStockDataset/DesignDataSet/FerryRampAngle<br/>                 Type: restriction of xs:decimal [0..1]<br/>                 Annotation: Maximum allowed angle of the ferry ramp (in grades: °)</p>  |
|  |   | <p>.../RollingStockDataset/DesignDataSet/TemperatureRange<br/>                 Type: restriction of xs:anyType [0..1]</p>  |
|  |   | <p>.../RollingStockDataset/DesignDataSet/TechnicalForwardingRestrictions<br/>                 Type: RestrictionCodes [0..∞]<br/>                 Annotation: 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-<br/>                 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.<br/>                 In this element we use only those codes that have "T - Technical"</p>   |



characteristics and "F - Freight" as the type. The codes below are sorted out from the RestrictionCodes. Only these codes should be used in this element.

F = Freight  
P = Passenger  
T = Technical  
D = Damage  
L = Load

| Code | F or P | Description  | T | D |
|------|--------|--|---|---|
| 07   | L<br>F | Shunt only when hand brake operable with ground staff  |   |   |
| 11   | x<br>F | Wagon other than bogie wagon with wheelbase of more than 9 metres  |   |   |
| 12   | F      | Bogie wagon with distance between wheels of more than 14 metres and up to and including a distance of 17,50 metres |   |   |
| 13   | F      | Bogie wagon with distance between wheels of more than 17,50 metres   |   |   |
| 15   | F      | Wagon not allowed over the hump  |   |   |
| 16   | F      | Do not fly shunt or gravity shunt (3 red triangles)  |   |   |
| 18   | x<br>F | Must not use active braking equipment  |   |   |
| 25   | F      | Gas carrying tank wagon with orange side stripe  |   |   |
| 41   | F      | Place this wagon at the front of the train   |   |   |
| 42   | F      | Place this wagon at the rear of the train  |   |   |
| 63   | F (+P) | Special consignment or (for Passengers trains) loading/cinematic gauge larger than the planned one                 |   |   |
| 70   | x<br>F | Shunt with care (1 red triangle)   |   |   |
| 71   | F      | Shunt with special care (2 red triangle)   |   |   |
| 94   | F      | Gas carrying wagon without orange side stripe  |   |   |

|   |   |  |
|---|---|--|
|   |   | x  |
| <a href="#">.../Техн характ гориз/Rows 1(h), n=dyn/U</a><br>Type: string<br>Annotation: ДАТА ПОСЛЕДНЕГО ДЕП. РЕМОНТА      | direct  | .../RollingStockDataset/DesignDataSet/DateLastOverhaul<br>Type: xs:date<br>Annotation: Date of the last overhaul. For wagons newly placed on the market, the date put into service must be used.   |
| <a href="#">core.constant(5)</a>  | direct<br>Annotation:<br>! Can be derived from ДАТА СЛЕДУЮЩЕГО ПЛАНОВОГО РЕМОНТА - ДАТА ПОСЛЕДНЕГО ДЕП. РЕМОНТА ! | .../RollingStockDataset/DesignDataSet/OverhaulValidityPeriod<br>Type: restriction of xs:integer<br>Annotation: Validity period of last overhaul in years as marked on the wagon  |
| <a href="#">core.constant(4)</a>  | direct  | .../RollingStockDataset/DesignDataSet/PermittedTolerance<br>Type: restriction of xs:integer<br>Annotation: Permitted tolerance after date of overhaul (in months)  |
| <a href="#">.../Техн характ гориз/Rows 1(h), n=dyn/K</a><br>Type: string<br>Annotation: ДАТА СЛЕДУЮЩЕГО ПЛАНОВОГО РЕМОНТА | direct<br>Annotation:<br>! To check if this is correct !  | .../RollingStockDataset/DesignDataSet/PlannedDateNextOverhaul<br>Type: xs:date [0..1]<br>Annotation: 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. Minimum planned date next overhaul or overhaul validity period must be provided by the wagon keeper. |
|   |   | .../RollingStockDataset/DesignDataSet/DateOfNextTankInspection<br>Type: xs:date [0..1]<br>Annotation: Date of the next tank inspection, applies only for tank wagons   |
|   |   | RollingStockDatasetMessage/RefusedWagonNumbers<br>Type: restriction of xs:anyType [0..∞]   |
|   |   | RollingStockDatasetMessage/RefusedWagonNumbers/WagonNumberFreight<br>Type: WagonIdent<br>Annotation: Identifies uniquely the freight wagon by its number   |
|   |   | RollingStockDatasetMessage/RefusedWagonNumbers/RefusalCode<br>Type: restriction of xs:integer<br>Annotation: Code List Candidate:<br>1 = Data not authorised by Wagon Keeper<br>2 = Wagon number freight unknown   |
|   |   | RollingStockDatasetMessage/RefusedWagonNumbers/KeeperShortNameVKM<br>Type: restriction of xs:string [0..1]<br>Annotation: Free text, short name/vehicle keeper marking of the wagon keeper   |

**Remaining components**

|   |   |
|---|---|
| <b>core.value-map</b> (ASOUP_Wagon_Data_V001 -> taf_cat_complete) |   |
| input ( <a href="#">ASOUP_Wagon_Data_V001.AH</a> )                | result ( <a href="#">taf_cat_complete.SuspensionOfAuthorisation</a> ) |
| <b>From</b>   | <b>To</b>   |
| НЕ ПРОДЛЁН  | 1   |
| otherwise   | 0   |

|   |   |
|---|---|
| <b>core.value-map</b> (ASOUP_Wagon_Data_V001 -> taf_cat_complete) |   |
| input ( <a href="#">ASOUP_Wagon_Data_V001.Z</a> )                 | result ( <a href="#">taf_cat_complete.DateSuspensionOfAuthorisation</a> ) |
| <b>From</b>   | <b>To</b>   |
| НЕ УКАЗАНА  | 2099-12-31  |

|           |            |
|-----------|------------|
|           |            |
| otherwise | 2099-12-31 |

|   |  |
|---|--|
| <b>core.value-map</b> (ASOUP_Wagon_Data_V001 -> taf_cat_complete) |  |
| input ( <a href="#">ASOUP_Wagon_Data_V001.P</a> )                 | result ( <a href="#">taf_cat_complete.CoversTankWagonsForDangerousGoods</a> ,<br><a href="#">taf_cat_complete.CoversNonTankWagonsForDangerousGoods</a> ) |
| <b>From</b>   | <b>To</b>  |
| 11-1807   | 1  |
| otherwise   | 0  |

|   |   |
|---|---|
| <b>core.value-map</b> (ASOUP_Wagon_Data_V001 -> taf_cat_complete) |   |
| input ( <a href="#">ASOUP_Wagon_Data_V001.AZ</a> )                | result ( <a href="#">taf_cat_complete.HandBrakeType</a> ) |
| <b>From</b>   | <b>To</b>   |
| СТОЯНОЧНЫЙ  | 1   |

|   |  |
|---|--|
| <b>core.add</b> (ASOUP_Wagon_Data_V001 -> taf_cat_complete) |  |
| value1 ( <a href="#">ASOUP_Wagon_Data_V001.Q</a> )          | result ( <a href="#">taf_cat_complete.MaxGrossWeight</a> ) |
| value2 ( <a href="#">ASOUP_Wagon_Data_V001.R</a> )          |  |

|   |   |
|---|---|
| <b>core.value-map</b> (ASOUP_Wagon_Data_V001 -> taf_cat_complete) |   |
| input ( <a href="#">ASOUP_Wagon_Data_V001.Z</a> )                 | result ( <a href="#">taf_cat_complete.ECMCertificateSuspended</a> ) |
| <b>From</b>   | <b>To</b>   |
| HE UKAZANA  | 0   |
| otherwise   | 1   |

### Constants

|  |      |
|--|------|
| <b>core.constant</b> (-> taf_cat_complete) |      |
| Value                                      | 6004 |

|  |   |
|--|---|
| <b>core.constant</b> (-> taf_cat_complete) |   |
| Value                                      | 0 |

|  |      |
|--|------|
| <b>core.constant</b> (-> taf_cat_complete) |      |
| Value                                      | 41.8 |

|  |     |
|--|-----|
| <b>core.constant</b> (-> taf_cat_complete) |     |
| Value                                      | 120 |

|                              |   |
|------------------------------|---|
| <b>core.constant (-&gt;)</b> |   |
| Value                        | ! МОДЕЛЬ = смотри <a href="https://vagon.by/model/13-401">https://vagon.by/model/13-401</a> >> here detailed information about the Платформа модель 13-401 can be found ! |

|   |      |
|---|------|
| <b>core.constant (-&gt; taf_cat_complete)</b> |      |
| Value   | 22.7 |

|   |   |
|---|---|
| <b>core.constant (-&gt; taf_cat_complete)</b> |   |
| Value   | 4 |

|   |      |
|---|------|
| <b>core.constant (-&gt; taf_cat_complete)</b> |      |
| Value   | 1310 |

|   |   |
|---|---|
| <b>core.constant (-&gt; taf_cat_complete)</b> |   |
| Value   | 5 |

|   |      |
|---|------|
| <b>core.constant (-&gt; taf_cat_complete)</b> |      |
| Value   | 37.0 |

|   |   |
|---|---|
| <b>core.constant (-&gt; taf_cat_complete)</b> |   |
| Value   | 4 |

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