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

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

2021

Ревизии и внесенные изменения / Document History				
Версия / Version	*Дата / Date*	*Chapter*	*Примечания / Comments*	*Author*
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 n° 7/ Train Ready - new chapter 7	MV
v. 03 (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[1] и инструкциях по составлению и обмену сообщений 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, централизированные рассчеты 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.

[1] 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.

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[2] 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.

[2] 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	**IFTMIN2TAFCOM.mfd**
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" 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" 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 Type: string
Envelope/Interchange Type: Interchange [1..∞]	*direct*	ns1:ConsignmentOrderMessage Type: restriction of xs:anyType [0..1] Annotation: Consignment Order Message from Lead RU to RU
		ns1:ConsignmentOrderMessage/ns1:MessageHeader Type: restriction of xs:anyType Annotation: Used for all messages
		ns1:ConsignmentOrderMessage/ns1:MessageHeader/ns1:MessageReference Type: restriction of xs:anyType

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

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

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

		.../ns1:COM/ns1:AcceptancePoint/ns1:PreviousResponsibleRU Type: ns1:CompanyCode [0..1] Annotation: This element identifies the RU, who was responsible for the train operation on the journey section before an interchange point
		.../ns1:COM/ns1:AcceptancePoint/ns1:AcceptanceDate Type: restriction of xs:dateTime [0..1] Annotation: Date and time (month, day and hour) at which the goods were accepted.
.../NAD/C082/F3039 Type: F3039 Annotation: Party identifier	*direct*	.../ns1:COM/ns1:AcceptancePoint/ns1:ResponsibleRU Type: ns1:CompanyCode Annotation: RU Responsible for the physical operation of the train or wagon
.../FTX/C108/F4440 Type: F4440 [1..5] Annotation: FREE TEXT	*direct*	.../ns1:COM/ns1:AcceptancePoint/ns1:COM_ConsignmentNumber Type: restriction of xs:string 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,
		.../ns1:COM/ns1:AcceptancePoint/ns1:ForwardingTrainNumber Type: restriction of xs:string [0..1] Annotation: Train number at shipping
		.../ns1:COM/ns1:AcceptancePoint/ns1:LoadingFacility Type: restriction of xs:anyType [0..1] Annotation: Identifies the loading facility (in case of message type = ORU)
		.../ns1:AcceptancePoint/ns1:LoadingFacility/ns1:CustomerNumber Type: restriction of xs:string [0..1] 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:AcceptancePoint/ns1:LoadingFacility/ns1:AdministrativeContactInformation Type: restriction of xs:anyType Annotation: Used to define adminstrative contact information
		.../ns1:COMS/ns1:COM/ns1:DeliveryPoint Type: restriction of xs:anyType Annotation: Description of location and time for the hand over of the consignment
.../SG8/SG10/LOC Type: LOC Annotation: PLACE/LOCATION IDENTIFICATION	*direct*	.../ns1:COM/ns1:DeliveryPoint/ns1:Station Type: extension of ns1:LocationIdent Annotation: Details of station serving the point
core.constant("LV")	*direct*	.../ns1:DeliveryPoint/ns1:Station/ns1:CountryCodeISO Type: extension of ns1:CountryIdentISO Annotation: Identifies a County or State by code (ISO 3166-1)
.../LOC/C517/F3225 Type: F3225 [0..1] Annotation: Location identifier	*direct*	.../ns1:DeliveryPoint/ns1:Station/ns1:LocationPrimaryCode Type: ns1:Numeric1-5
.../LOC/C517/F3224 Type: F3224 [0..1] Annotation: Location name	*direct*	.../ns1:DeliveryPoint/ns1:Station/ns1:PrimaryLocationName Type: ns1:FreeText [0..1] Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet
		.../ns1:DeliveryPoint/ns1:Station/ns1:LocationSubsidiaryIdentification Type: restriction of xs:anyType [0..1] Annotation: Code, Name and allocation company of Subsidiary Location
		.../ns1:COM/ns1:DeliveryPoint/ns1:ProductionStation Type: restriction of xs:anyType [0..1] Annotation: Details of production station serving the point, this element is used if the productional station differs from the commercial station
.../NAD/C082/F3039 Type: F3039 Annotation: Party identifier	*direct*	.../ns1:COM/ns1:DeliveryPoint/ns1:NextResponsibleRU Type: ns1:CompanyCode [0..1] Annotation: The RU who is responsible for the train operation on the next journey section.
		.../ns1:COM/ns1:DeliveryPoint/ns1:LoadingFacility Type: restriction of xs:anyType [0..1] Annotation: Identifies the loading facility (in case of message type = ORU)
		.../ns1:COMS/ns1:COM/ns1:Customers Type: restriction of xs:anyType [1..2] Annotation: Information about the consignor and consignee

core.constant("CR")	*direct*	.../ns1:COM/ns1:Customers/ns1:CustomerType Type: restriction of xs:string Annotation: Type of participation CR: Consignor CE: Consignee In the consignment order,the Lead RU acts as both types
.../NAD/C082/F3039 Type: F3039 Annotation: Party identifier	*direct*	.../ns1:COM/ns1:Customers/ns1:CustomerNumber Type: restriction of xs:string [0..1] 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 Type: restriction of xs:anyType Annotation: Used to define adminstrative contact information
.../NAD/C080/F3036 Type: F3036 [1..5] Annotation: Party name	*direct*	.../ns1:Customers/ns1:AdministrativeContactInformation/ns1:Name Type: ns1:FreeText Annotation: Generic Name in Free Text
.../SG12/NAD/F3164 Type: F3164 [0..1] Annotation: CITY NAME	*direct*	.../ns1:Customers/ns1:AdministrativeContactInformation/ns1:Address Type: ns1:FreeText [0..1] Annotation: Generic postal address in clear text
		.../ns1:Customers/ns1:AdministrativeContactInformation/ns1:eMail Type: ns1:CommunicationRefID [0..1] Annotation: Generic eMail address in Free text
		.../ns1:Customers/ns1:AdministrativeContactInformation/ns1:PhoneNumber Type: ns1:CommunicationRefID [0..1] Annotation: Generic Phone number in Free text
		.../ns1:Customers/ns1:AdministrativeContactInformation/ns1:FaxNumber Type: ns1:CommunicationRefID [0..1] Annotation: Generic Fax number in Free text
		.../ns1:Customers/ns1:AdministrativeContactInformation/ns1:FreeTextField Type: ns1:FreeText [0..1] Annotation: Free Text
core.constant(2126)	*direct* Annotation: Must be checked how it fits to OSJD / SMGS !	.../ns1:COM/ns1:Customers/ns1:LeadRU Type: ns1:CompanyCode Annotation: Lead Railway Undertaking
		.../ns1:COMS/ns1:COM/ns1:ConsignorDeclarations Type: restriction of xs:anyType [0..10] Annotation: Consignors declarartions, this element contains either declarations of the original consignor or declarations of the LeadRU as consignor
		.../ns1:COMS/ns1:COM/ns1:GeneralInformation Type: restriction of xs:anyType [0..1] Annotation: Genearal information about the complete consignment
		.../ns1:COMS/ns1:COM/ns1:AttachedDocuments Type: restriction of xs:anyType [0..10] Annotation: Paper documents accompanying the transport
		.../ns1:COMS/ns1:COM/ns1:CommercialSpecifications Type: restriction of xs:anyType [0..5] Annotation: Commercial Specification
.../DOC/C002/F1000 Type: F1000 [0..1] Annotation: Document name	*direct* Annotation: Should be normally in the RFF in GR 15. Not found !	.../ns1:COMS/ns1:COM/ns1:ContractNumber Type: Annotation: Number of agreement between LeadRU and Responsible RU
		.../ns1:COMS/ns1:COM/ns1:Routing Type: restriction of xs:anyType [0..1] 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 Type: restriction of xs:anyType [0..30] Annotation: Special treatment
		.../ns1:COMS/ns1:COM/ns1:CustomsProcedures Type: restriction of xs:anyType [0..1] Annotation: Customs procedures
		.../ns1:COMS/ns1:COM/ns1:CustomsData Type: restriction of xs:anyType [0..1] Annotation: Customs Data
		.../ns1:COMS/ns1:COM/ns1:RU_Declarations Type: restriction of xs:anyType [0..1]

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

		Annotation: This element is only in use if the consignment includes more than one good with the same UN-Number in , packing group and propershipping name in the wagon. The added amount of the dangerous goods are to be stored here
		.../ns1:COM/ns1:Wagons/ns1:LoadingTackles Type: restriction of xs:anyType [0..99] Annotation: Describes the loading tackles used inside the wagon
		.../ns1:COM/ns1:Wagons/ns1:Goods Type: restriction of xs:anyType [0..99] Annotation: Describes the goods inside the means of transport
		.../ns1:Wagons/ns1:Goods/ns1:NoGoodsOfClassX Type: restriction of xs:string [0..1] 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 Type: restriction of xs:anyType [0..1] 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 Type: restriction of xs:anyType [0..1] Annotation: Packing information
		.../ns1:Goods/ns1:Packing/ns1:NatureOfPacking Type: restriction of xs:string [0..1] Annotation: Nature of packing according to the UN/ECE Recommandation No 21CODE: UN/ECE-Recommendation No. 21
		.../ns1:Goods/ns1:Packing/ns1:NumberOfPackages Type: restriction of xs:int [0..1] Annotation: Number of packages.
		.../ns1:Goods/ns1:Packing/ns1:PackageIdentification Type: restriction of xs:string [0..99] Annotation: Particular marks and numbers to identify less than wagon load assignments.
.../PIA/C212/F7140 Type: F7140 [0..1] Annotation: ITEM IDENTIFIER	*direct*	.../ns1:Wagons/ns1:Goods/ns1:NHM_Code Type: ns1:NHMCodeType [0..1] Annotation: NHM code of the good
		.../ns1:Wagons/ns1:Goods/ns1:PreviousLoadedGood Type: ns1:NHMCodeType [0..1]
.../FTX/C108/F4440 Type: F4440 [1..5] Annotation: FREE TEXT	*direct*	.../ns1:Wagons/ns1:Goods/ns1:GoodsDescription Type: ns1:FreeText [0..1] Annotation: This element describes the goods of the shipment as free text
		.../ns1:Wagons/ns1:Goods/ns1:AdditionalGoodInformation Type: restriction of xs:string [0..1] Annotation: Additional information regarding the loaded good, given by the customer.
		.../ns1:Wagons/ns1:Goods/ns1:GrossWeight Type: ns1:WeightValueKilo 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 Type: restriction of xs:string [0..1] 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 Type: restriction of xs:string [0..1] Annotation: Numeric key according to the European Waste CatalogueCODE: European waste catalogue (EWC) 2000/532/EC
		.../ns1:COM/ns1:Wagons/ns1:ITU Type: restriction of xs:anyType [0..25] Annotation: Describes the type and content of an IntermodalTransportUnit
		.../ns1:COM/ns1:Wagons/ns1:RollingRoadUnit Type: restriction of xs:anyType [0..5] Annotation: Describes the type and content of a Rolling road unit
		.../ns1:COMS/ns1:COM/ns1:WagonPreviousNumberFreight

	Type: restriction of xs:string [0..20] 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 Type: restriction of xs:string [0..1] Annotation: Reference to the original consignment note between lead RU/contractual carrier and consignor
	.../ns1:COMS/ns1:COM/ns1:AgreedTimeOfDelivery Type: xs:dateTime [0..1] Annotation: The requested Date and Time for the delivery of a wagon/Shipment or Intermodal untis at customer sidings

Remaining components

core.value-map (IFTMIN -> taf_cat_complete_baseline_2.1.xmd)	
input (IFTMIN.F0010)	result (taf_cat_complete_baseline_2.1.xmd.ns1:Recipient, taf_cat_complete_baseline_2.1.xmd.ns1:ReceivingRU)
From	**To**
EVREDI	2126
ISC_LDZ	2125

edifact.to-datetime (IFTMIN -> taf_cat_complete_baseline_2.1.xmd)	
F2380 (IFTMIN.F2380) F2379 (IFTMIN.F2379)	result (taf_cat_complete_baseline_2.1.xmd.ns1:MessageDateTime, taf_cat_complete_baseline_2.1.xmd.ns1:COM_PreparationDatetime)

core.value-map (IFTMIN -> taf_cat_complete_baseline_2.1.xmd)	
input (IFTMIN.F8169)	result (taf_cat_complete_baseline_2.1.xmd.ns1:LoadingStatus)
From	**To**
5	1
otherwise	0

core.count (IFTMIN -> taf_cat_complete_baseline_2.1.xmd)	
parent-context (IFTMIN.SEL) nodes/rows (IFTMIN.F9308)	result (taf_cat_complete_baseline_2.1.xmd.ns1:NumberOfSeals)

Constants

core.constant (-> taf_cat_complete_baseline_2.1.xmd)	
Value	9999

core.constant (-> taf_cat_complete_baseline_2.1.xmd)	
Value	EE

core.constant (-> taf_cat_complete_baseline_2.1.xmd)	
Value	CR

core.constant (-> taf_cat_complete_baseline_2.1.xmd)	
Value	LV

core.constant (-> taf_cat_complete_baseline_2.1.xmd)	
Value	2126

User-defined function defines

user.DEstination Station

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

Nodes	Connections	
noderow Type: string	**core.filter** => node/row | on-true =>	**core.output** => ns1LocationPrimaryCode Type: string

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

Nodes	Connections	
b2 Type: string	**core.equal** => b | result => **core.logical-and** => value1 | result => **core.filter** => bool | on-true =>	**core.output** => ns1LocationPrimaryCode Type: string

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

Nodes	Connections	
b Type: string	**core.equal** => b | result => **core.logical-and** => value2 | result => **core.filter** => bool | on-true =>	**core.output** => ns1LocationPrimaryCode Type: string

Output **core.output ns1LocationPrimaryCode**

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

Remaining components

core.equal (core.constant, core.input -> core.logical-and)	
a (core.constant."8") b (core.input.b2)	result (core.logical-and.value1)

core.filter (core.input, core.logical-and -> core.output)	
node/row (core.input.noderow) bool (core.logical-and.result)	on-true (core.output.ns1LocationPrimaryCode)

core.equal (core.constant, core.input -> core.logical-and)	
a (core.constant."37") b (core.input.b)	result (core.logical-and.value2)

core.logical-and (core.equal, core.equal -> core.filter)	
value1 (core.equal.result) value2 (core.equal.result)	result (core.filter.bool)

Constants

core.constant (-> core.equal)	
Value	8

core.constant (-> core.equal)	
Value	37

user.DestinationStaionName

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

Nodes	Connections	
b Type: string	**core.equal** => b | result => **core.logical-and** => value1 | result => **core.filter** => bool | on-true =>	**core.output** => ns1PrimaryLocationName Type: string

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

Nodes	Connections	
noderow Type: string	**core.filter** => node/row | on-true =>	**core.output** => ns1PrimaryLocationName Type: string

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

Nodes	Connections

b2 Type: string	**core.equal** => b | result => **core.logical-and** => value2 | result => **core.filter** => bool | on-true =>	**core.output** => ns1PrimaryLocationName Type: string

Output **core.output ns1PrimaryLocationName**

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

Remaining components

core.equal (core.constant, core.input -> core.logical-and)	
a (core.constant."8") b (core.input.b)	result (core.logical-and.value1)

core.filter (core.input, core.logical-and -> core.output)	
node/row (core.input.noderow) bool (core.logical-and.result)	on-true (core.output.ns1PrimaryLocationName)

core.equal (core.constant, core.input -> core.logical-and)	
a (core.constant."37") b (core.input.b2)	result (core.logical-and.value2)

core.logical-and (core.equal, core.equal -> core.filter)	
value1 (core.equal.result) value2 (core.equal.result)	result (core.filter.bool)

Constants

core.constant (-> core.equal)	
Value	8

core.constant (-> core.equal)	
Value	37

user.PLC-FROM-OSDJ

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

Nodes	Connections	
noderow Type: string	**core.filter** => node/row | on-true => **lang.left** => string | result => **lang.left** => string | result =>	**core.output** => ns1CountryCodeISO Type: string
	core.filter => node/row | on-true => **lang.left** => string | result => **lang.right** => string | result => **core.if-else** => value-true | result =>	**core.output** => ns1LocationPrimaryCode Type: anyType

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

Nodes	Connections	
a Type: string	**core.equal** => a | result => **core.filter** => bool | on-true => **lang.left** => string | result => **lang.left** => string | result =>	**core.output** => ns1CountryCodeISO Type: string
	core.equal => a | result => **core.if-else** => bool | result =>	**core.output** => ns1LocationPrimaryCode Type: anyType

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

Nodes	Connections	
b Type: string	**core.equal** => b | result => **core.filter** => bool | on-true => **lang.left** => string | result => **lang.left** => string | result =>	**core.output** => ns1CountryCodeISO Type: string
	core.equal => b | result => **core.if-else** => bool | result =>	**core.output** => ns1LocationPrimaryCode Type: anyType

Output **core.output ns1CountryCodeISO**

Connections		Nodes
core.input | noderow => Type: string	**core.filter** => node/row | on-true => **lang.left** => string | result => **lang.left** => string | result =>	ns1CountryCodeISO Type: string
core.input | a => Type: string	**core.equal** => a | result => **core.filter** => bool | on-true => **lang.left** => string | result => **lang.left** => string | result =>	

core.input | b => Type: string	**core.equal** => b | result => **core.filter** => bool | on-true => **lang.left** => string | result => **lang.left** => string | result =>	
core.constant(7)	**lang.left** => number | result => **lang.left** => string | result =>	
core.constant("2")	**lang.left** => number | result =>	

Output **core.output ns1LocationPrimaryCode**

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

Remaining components

core.equal (core.input, core.input -> core.if-else, core.filter)	
a (core.input.a) b (core.input.b)	result (core.if-else.bool, core.filter.bool)

core.filter (core.input, core.equal -> lang.left, core.if-else)	
node/row (core.input.noderow) bool (core.equal.result)	on-true (lang.left.string) on-false (core.if-else.value-false)

lang.left (core.filter, core.constant -> lang.right, lang.left)	
string (core.filter.on-true) number (core.constant.7)	result (lang.right.string, lang.left.string)

lang.left (lang.left, core.constant -> core.output)	
string (lang.left.result) number (core.constant."2")	result (core.output.ns1CountryCodeISO)

lang.right (lang.left, core.constant -> core.if-else)	
string (lang.left.result) number (core.constant."5")	result (core.if-else.value-true)

core.if-else (core.equal, lang.right, core.filter -> core.output)

bool (core.equal.result) value-true (lang.right.result) value-false (core.filter.on-false)	result (core.output.ns1LocationPrimaryCode)

Constants

core.constant (-> lang.left)	
Value	7

core.constant (-> lang.left)	
Value	2

core.constant (-> lang.right)	
Value	5

user.PLCfromOSJD

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

Nodes	Connections	
noderow Type: string	**core.filter** => node/row | on-true => **lang.left** => string | result => **lang.left** => string | result =>	**core.output** => ns1CountryCodeISO Type: string
	core.filter => node/row | on-true => **lang.left** => string | result => **lang.right** => string | result => **core.if-else** => value-true | result =>	**core.output** => ns1LocationPrimaryCode Type: anyType

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

Nodes	Connections	
b Type: string	**core.equal** => b | result => **core.filter** => bool | on-true => **lang.left** => string | result => **lang.left** => string | result =>	**core.output** => ns1CountryCodeISO Type: string
	core.equal => b | result => **core.filter** => bool | on-true => **lang.left** => string | result => **lang.right** => string | result => **core.if-else** => value-true | result =>	**core.output** => ns1LocationPrimaryCode Type: anyType

Output **core.output ns1CountryCodeISO**

Connections		Nodes
core.input | noderow =>	**core.filter** => node/row | on-true =>	ns1CountryCodeISO

Type: string	**lang.left** => string | result => **lang.left** => string | result =>	Type: string
core.constant("OSJD")	**core.equal** => a | result => **core.filter** => bool | on-true => **lang.left** => string | result => **lang.left** => string | result =>	
core.constant(7)	**lang.left** => number | result => **lang.left** => string | result =>	
core.input | b => Type: string	**core.equal** => b | result => **core.filter** => bool | on-true => **lang.left** => string | result => **lang.left** => string | result =>	
core.constant("2")	**lang.left** => number | result =>	

Output **core.output ns1LocationPrimaryCode**

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

Remaining components

core.filter (core.input, core.equal -> lang.left, core.if-else)	
node/row (core.input.noderow) bool (core.equal.result)	on-true (lang.left.string) on-false (core.if-else.value-false)

core.equal (core.constant, core.input -> core.filter, core.if-else)	
a (core.constant."OSJD") b (core.input.b)	result (core.filter.bool, core.if-else.bool)

lang.left (core.filter, core.constant -> lang.right, lang.left)	
string (core.filter.on-true) number (core.constant.7)	result (lang.right.string, lang.left.string)

lang.left (lang.left, core.constant -> core.output)	
string (lang.left.result) number (core.constant."2")	result (core.output.ns1CountryCodeISO)

lang.right (lang.left, core.constant -> core.if-else)	
string (lang.left.result) number (core.constant."5")	result (core.if-else.value-true)

core.if-else (core.equal, lang.right, core.filter -> core.output)	
bool (core.equal.result) value-true (lang.right.result) value-false (core.filter.on-false)	result (core.output.ns1LocationPrimaryCode)

Constants

core.constant (-> core.equal)	
Value	OSJD

core.constant (-> lang.left)	
Value	7

core.constant (-> lang.left)	
Value	2

core.constant (-> lang.right)	
Value	5

Mapping documentation generated by **Mapforce** Graphical data mapping tool **http://www.altova.com/mapforce**

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	**MESPLAN to COM.mfd**
Дата окончательного сопоставления / Date of the final mapping	27/03/2020
Описание данных	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) АС МЕСПЛАН. ВВОД заявки на перевозку грузов. АС МЕСПЛАН. ПЕРЕЧЕНЬ согласованных планов.
Data descriptions	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) AS MESPLAN. ENTRY OF THE APPLICATION FOR CARRIAGE OF CARGO. AS MESPLAN. LIST OF AGREED PLANS.

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 Type: string
		ns1:ConsignmentOrderMessage Type: restriction of xs:anyType [0..1] Annotation: Consignment Order Message from Lead RU to RU
		ns1:ConsignmentOrderMessage/ns1:MessageHeader Type: restriction of xs:anyType Annotation: Used for all messages
		ns1:ConsignmentOrderMessage/ns1:MessageHeader/ns1:MessageReference Type: restriction of xs:anyType Annotation: This element identifies the message
core.constant(9999)	*direct* Annotation: ! New code for COM must be created in CCM !	.../ns1:MessageHeader/ns1:MessageReference/ns1:MessageType Type: restriction of xs:integer Annotation: To indicate the message type transmitted or referred to. The following list was agreed within the sector: 2001 PathCanceledMessage 2002 PathConfirmedMessage

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

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

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

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

	Annotation: ! Only year and month could be converted. Rest added manually ! **lang.left** => string | result => **core.concat** => value1 | result => Annotation: ! Only year and month could be converted. Rest added manually !	
core.constant(5)	Annotation: ! Only year and month could be converted. Rest added manually ! **core.substring** => start | result => **core.concat** => value3 | result => Annotation: ! Only year and month could be converted. Rest added manually !	
core.constant(4)	Annotation: ! Only year and month could be converted. Rest added manually ! **lang.left** => number | result => **core.concat** => value1 | result => Annotation: ! Only year and month could be converted. Rest added manually !	
core.constant("-")	Annotation: ! Only year and month could be converted. Rest added manually ! **core.concat** => value4 | result => Annotation: ! Only year and month could be converted. Rest added manually ! **core.concat** => value2 | result => Annotation: ! Only year and month could be converted. Rest added manually !	
core.constant("01T10:00:00")	Annotation: ! Only year and month could be converted. Rest added manually ! **core.concat** => value5 | result => Annotation:	

	! Only year and month could be converted. Rest added manually !	
.../BODY/PLAN/@UID Type: restriction of xs:long Annotation: идентификатор плана	*direct*	.../ns1:COMS/ns1:COM_Header/ns1:DossierNumber Type: restriction of xs:string [0..1] 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.
.../BODY/PLAN/@vid_string Type: restriction of xs:byte	*direct* Annotation: ! To check whether this is the right connection ! Служебный атрибут автоматизированных систем УЗ / Service attribute of automated UZ systems	.../ns1:COMS/ns1:COM_Header/ns1:VersionNumber Type: restriction of xs:int Annotation: Message version number. This number hast to be incremented after each modification. On creation this value has to be set to 0.
		.../ns1:COMS/ns1:COM_Header/ns1:ChangeLog Type: restriction of xs:anyType [0..100] Annotation: Log of changes made by the LeadRU / contractual carrier during the transport.
		ns1:ConsignmentOrderMessage/ns1:COMS/ns1:COM Type: restriction of xs:anyType Annotation: Consignment order message
		.../ns1:COMS/ns1:COM/ns1:AcceptancePoint Type: restriction of xs:anyType Annotation: Description of location and time for the take over of the consignment
		.../ns1:COM/ns1:AcceptancePoint/ns1:Station Type: extension of ns1:LocationIdent Annotation: Details of station serving the point
.../BODY/PLAN/@stran_otpr Type: restriction of xs:short Annotation: код страны отправления	**core.value-map** => input | result =>	.../ns1:AcceptancePoint/ns1:Station/ns1:CountryCodeISO Type: extension of ns1:CountryIdentISO Annotation: Identifies a County or State by code (ISO 3166-1)
.../BODY/PLAN/@esr_otpr Type: restriction of xs:int Annotation: код станции отправления	**lang.left** => string | result =>	.../ns1:AcceptancePoint/ns1:Station/ns1:LocationPrimaryCode Type: ns1:Numeric1-5
core.constant(5)	**lang.left** => number | result =>	
		.../ns1:AcceptancePoint/ns1:Station/ns1:PrimaryLocationName Type: ns1:FreeText [0..1] Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet
		.../ns1:AcceptancePoint/ns1:Station/ns1:LocationSubsidiaryIdentification Type: restriction of xs:anyType [0..1] Annotation: Code, Name and allocation company of Subsidiary Location
		.../ns1:COM/ns1:AcceptancePoint/ns1:ProductionStation Type: restriction of xs:anyType [0..1] Annotation: Details of production station serving the point, this element is used if the productional station differs from the commercial station
		.../ns1:COM/ns1:AcceptancePoint/ns1:PreviousResponsibleRU Type: ns1:CompanyCode [0..1] Annotation: This element identifies the RU, who was responsible for the train operation on the journey section before an interchange point
		.../ns1:COM/ns1:AcceptancePoint/ns1:AcceptanceDate Type: restriction of xs:dateTime [0..1] Annotation: Date and time (month, day and hour) at which the goods were accepted.
.../BODY/PLAN/@dor_otpr Type: restriction of xs:byte Annotation: железная дорога отправления	*direct* Annotation: ! To check whether RU code 35 should be 22 ! Внутренний код отделения УЗ, не код	.../ns1:COM/ns1:AcceptancePoint/ns1:ResponsibleRU Type: ns1:CompanyCode Annotation: RU Responsible for the physical operation of the train or wagon

	администрации / Internal code of the UZ department, not the administration code	
.../BODY/PLAN/@number_plan Type: restriction of xs:int Annotation: номер плана УЗ	*direct*	.../ns1:COM/ns1:AcceptancePoint/ns1:COM_ConsignmentNumber Type: restriction of xs:string 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,
		.../ns1:COM/ns1:AcceptancePoint/ns1:ForwardingTrainNumber Type: restriction of xs:string [0..1] Annotation: Train number at shipping
		.../ns1:COM/ns1:AcceptancePoint/ns1:LoadingFacility Type: restriction of xs:anyType [0..1] Annotation: Identifies the loading facility (in case of message type = ORU)
		.../ns1:COMS/ns1:COM/ns1:DeliveryPoint Type: restriction of xs:anyType Annotation: Description of location and time for the hand over of the consignment
		.../ns1:COM/ns1:DeliveryPoint/ns1:Station Type: extension of ns1:LocationIdent Annotation: Details of station serving the point
.../PLAN/PEREVEZ/@stran_prib Type: restriction of xs:byte Annotation: код страны назначения	**core.value-map** => input | result =>	.../ns1:DeliveryPoint/ns1:Station/ns1:CountryCodeISO Type: extension of ns1:CountryIdentISO Annotation: Identifies a County or State by code (ISO 3166-1)
.../PLAN/PEREVEZ/@esr_prib Type: restriction of xs:int Annotation: код станции назначения	*direct*	.../ns1:DeliveryPoint/ns1:Station/ns1:LocationPrimaryCode Type: ns1:Numeric1-5
		.../ns1:DeliveryPoint/ns1:Station/ns1:PrimaryLocationName Type: ns1:FreeText [0..1] Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet
		.../ns1:DeliveryPoint/ns1:Station/ns1:LocationSubsidiaryIdentification Type: restriction of xs:anyType [0..1] Annotation: Code, Name and allocation company of Subsidiary Location
		.../ns1:COM/ns1:DeliveryPoint/ns1:ProductionStation Type: restriction of xs:anyType [0..1] 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 Type: ns1:CompanyCode [0..1] Annotation: The RU who is responsible for the train operation on the next journey section.
		.../ns1:COM/ns1:DeliveryPoint/ns1:LoadingFacility Type: restriction of xs:anyType [0..1] Annotation: Identifies the loading facility (in case of message type = ORU)
		.../ns1:COMS/ns1:COM/ns1:Customers Type: restriction of xs:anyType [1..2] Annotation: Information about the consignor and consignee
core.constant("CE")	*direct* Annotation: ! To check if assumed CE is correct (as it is not an RU) !	.../ns1:COM/ns1:Customers/ns1:CustomerType Type: restriction of xs:string Annotation: Type of participation CR: Consignor CE: Consignee In the consignment order,the Lead RU acts as both types
.../BODY/PLAN/@klient Type: restriction of xs:int Annotation: идентификатор грузоотправителя по ЕЕКК	*direct* Annotation: ! In МЕСПЛАН only consignee was found ! Да, верно / yes, correct	.../ns1:COM/ns1:Customers/ns1:CustomerNumber Type: restriction of xs:string [0..1] 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 Type: restriction of xs:anyType Annotation: Used to define adminstrative contact information
.../PLAN/PEREVEZ/@poluch_vnesh Type: restriction of xs:string	*direct*	.../ns1:Customers/ns1:AdministrativeContactInformation/ns1:Name Type: ns1:FreeText Annotation: Generic Name in Free Text

Annotation: название получателя за рубежом		
.../PLAN/PEREVEZ/@stran_prib Type: restriction of xs:byte Annotation: код страны назначения	*direct*	.../ns1:Customers/ns1:AdministrativeContactInformation/ns1:Address Type: ns1:FreeText [0..1] Annotation: Generic postal address in clear text
		.../ns1:Customers/ns1:AdministrativeContactInformation/ns1:eMail Type: ns1:CommunicationRefID [0..1] Annotation: Generic eMail address in Free text
		.../ns1:Customers/ns1:AdministrativeContactInformation/ns1:PhoneNumber Type: ns1:CommunicationRefID [0..1] Annotation: Generic Phone number in Free text
		.../ns1:Customers/ns1:AdministrativeContactInformation/ns1:FaxNumber Type: ns1:CommunicationRefID [0..1] Annotation: Generic Fax number in Free text
		.../ns1:Customers/ns1:AdministrativeContactInformation/ns1:FreeTextField Type: ns1:FreeText [0..1] Annotation: Free Text
UZ-XDOC Type: restriction of xs:anyType [0..1] core.constant(2)	**core.node-name** => node | name => **lang.left** => string | result => **core.value-map** => input | result => **lang.left** => number | result => **core.value-map** => input | result =>	.../ns1:COM/ns1:Customers/ns1:LeadRU Type: ns1:CompanyCode Annotation: Lead Railway Undertaking
		.../ns1:COMS/ns1:COM/ns1:ConsignorDeclarations Type: restriction of xs:anyType [0..10] Annotation: Consignors declarartions, this element contains either declarations of the original consignor or declarations of the LeadRU as consignor
		.../ns1:COM/ns1:ConsignorDeclarations/ns1:ConsignorDeclarationsCode Type: xs:string Annotation: Coded consignor declaration
		.../ns1:COM/ns1:ConsignorDeclarations/ns1:DeclarationText Type: [0..1] Annotation: Additional Text for codes with free text
		.../ns1:COMS/ns1:COM/ns1:GeneralInformation Type: restriction of xs:anyType [0..1] Annotation: Genearal information about the complete consignment
		.../ns1:COM/ns1:GeneralInformation/ns1:ConsignorReference Type: restriction of xs:string [0..1] Annotation: Consignor's reference concerning the complete consignment
		.../ns1:COM/ns1:GeneralInformation/ns1:WagonGroupInfo Type: restriction of xs:string [0..1] Annotation: Consignor information regarding the whole consignment. Comparable with the element WagonInfo, but for all wagons.
		.../ns1:COMS/ns1:COM/ns1:AttachedDocuments Type: restriction of xs:anyType [0..10] Annotation: Paper documents accompanying the transport
		.../ns1:COMS/ns1:COM/ns1:CommercialSpecifications Type: restriction of xs:anyType [0..5] Annotation: Commercial Specification
.../PEREVEZ/FORMIR/@soglas_code Type: restriction of xs:byte Annotation: код согласования администрации	*direct* Annotation: ! To check if "soglas_code" is correct ! Признак согласования плана перевозки / Value for agreement of the transportation plan	.../ns1:COMS/ns1:COM/ns1:ContractNumber Type: Annotation: Number of agreement between LeadRU and Responsible RU

		.../ns1:COMS/ns1:COM/ns1:Routing Type: restriction of xs:anyType [0..1] 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 Type: restriction of xs:anyType [0..30] Annotation: Special treatment
		.../ns1:COMS/ns1:COM/ns1:CustomsProcedures Type: restriction of xs:anyType [0..1] Annotation: Customs procedures
		.../ns1:COMS/ns1:COM/ns1:CustomsData Type: restriction of xs:anyType [0..1] Annotation: Customs Data
		.../ns1:COMS/ns1:COM/ns1:RU_Declarations Type: restriction of xs:anyType [0..1] Annotation: Carriers declaration
		.../ns1:COM/ns1:RU_Declarations/ns1:RU_Declaration Type: restriction of xs:anyType [0..30] Annotation: Details of the carriers declaration.
		.../ns1:RU_Declarations/ns1:RU_Declaration/ns1:DeclaringRU Type: ns1:CompanyCode Annotation: Code of carrier, who added the declaration.
		.../ns1:RU_Declarations/ns1:RU_Declaration/ns1:RU_DeclarationCode Type: restriction of xs:string Annotation: Carrier declaration code.
		.../ns1:RU_Declarations/ns1:RU_Declaration/ns1:DeclarationText Type: [0..1] Annotation: Additional Text for codes with free text
		.../ns1:COM/ns1:RU_Declarations/ns1:DifferentAcceptance Type: restriction of xs:anyType [0..1] Annotation: Details of the changes of the acceptance point given by the consignor.
		.../ns1:RU_Declarations/ns1:DifferentAcceptance/ns1:DifferentAcceptancePoint Type: ns1:LocationIdent [0..1] Annotation: Variance of acceptance point given in structure AcceptancePoint.
		.../ns1:RU_Declarations/ns1:DifferentAcceptance/ns1:DifferentAcceptanceDate Type: restriction of xs:dateTime [0..1] Annotation: Variance of acceptance date given structure AcceptancePoint.
		.../ns1:COMS/ns1:COM/ns1:Wagons Type: restriction of xs:anyType [1..99] Annotation: Content of the wagon
core.constant("112298765432")	*direct* Annotation: ! Wagon detail information is not available in MESPLAN as it is only planning !	.../ns1:COM/ns1:Wagons/ns1:WagonNumberFreight Type: ns1:WagonIdent Annotation: Identifies uniquely the freight wagon by its number
		.../ns1:COM/ns1:Wagons/ns1:WagonDetails Type: restriction of xs:anyType Annotation: Details for the specific wagon
core.constant("1")	*direct* Annotation: ! Wagon detail information is not available in MESPLAN as it is only planning !	.../ns1:Wagons/ns1:WagonDetails/ns1:LoadingStatus Type: restriction of xs:integer Annotation: Loading status of the equipment. 0=Empty, 1=Loaded
		.../ns1:Wagons/ns1:WagonDetails/ns1:WagonInfo Type: restriction of xs:string [0..1] Annotation: Additional information, concerning the goods of the whole wagon.
		.../ns1:Wagons/ns1:WagonDetails/ns1:WagonTypeDetails Type: restriction of xs:anyType [0..1] Annotation: These elements are only needed, if the wagon has to be treated as CUV (empty wagon).
		.../ns1:Wagons/ns1:WagonDetails/ns1:TotalWeight Type: ns1:WeightValueKilo [0..1] Annotation: Total weight of the loaded wagon [kg].

		.../ns1:Wagons/ns1:WagonDetails/ns1:LoadLimit Type: restriction of xs:decimal [0..1] Annotation: Load limit from table of load limits in [t].
		.../ns1:Wagons/ns1:WagonDetails/ns1:Seals Type: restriction of xs:anyType [0..1] Annotation: Describes the seals used for the consignment
		.../ns1:Wagons/ns1:WagonDetails/ns1:Ship Type: restriction of xs:anyType [0..1] Annotation: Additional information for transports, which shall be handed over to a ship
		.../ns1:Wagons/ns1:WagonDetails/ns1:DeliveryReference Type: restriction of xs:string [0..1]
		.../ns1:Wagons/ns1:WagonDetails/ns1:OriginCountry Type: restriction of ns1:CountryIdentISO [0..1] Annotation: Code of origin country of the UTI.CODE: ISO-3166-2
		.../ns1:Wagons/ns1:WagonDetails/ns1:ExceptionalConsignment Type: restriction of xs:anyType [0..10] Annotation: Exceptional Consignment
		.../ns1:Wagons/ns1:WagonDetails/ns1:ShuntingModalLabel Type: restriction of xs:token [0..1] Annotation: Shunting modal label according to chapter 5.3.4 RID
		.../ns1:Wagons/ns1:WagonDetails/ns1:ReferenceNumbers Type: restriction of xs:anyType [0..1] Annotation: This element contains references according to NCTS or EMCS law.This element MUST NOT be empty!
		.../ns1:COM/ns1:Wagons/ns1:SummaryOFGoodsWithSameRID Type: restriction of xs:anyType [0..25] Annotation: This element is only in use if the consignment includes more than one good with the same UN-Number in , packing group and propershipping name in the wagon. The added amount of the dangerous goods are to be stored here
		.../ns1:COM/ns1:Wagons/ns1:LoadingTackles Type: restriction of xs:anyType [0..99] Annotation: Describes the loading tackles used inside the wagon
		.../ns1:COM/ns1:Wagons/ns1:Goods Type: restriction of xs:anyType [0..99] Annotation: Describes the goods inside the means of transport
		.../ns1:Wagons/ns1:Goods/ns1:NoGoodsOfClassX Type: restriction of xs:string [0..1] 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 Type: restriction of xs:anyType [0..1] 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 Type: restriction of xs:anyType [0..1] Annotation: Packing information
.../PLAN/PEREVEZ/@etsng Type: restriction of xs:int Annotation: код груза по ETCHB	*direct* Annotation: ! Mapping table between ETCHГ and NHM must be elaborated !	.../ns1:Wagons/ns1:Goods/ns1:NHM_Code Type: ns1:NHMCodeType [0..1] Annotation: NHM code of the good
		.../ns1:Wagons/ns1:Goods/ns1:PreviousLoadedGood Type: ns1:NHMCodeType [0..1]
		.../ns1:Wagons/ns1:Goods/ns1:GoodsDescription Type: ns1:FreeText [0..1] Annotation: This element describes the goods of the shipment as free text
		.../ns1:Wagons/ns1:Goods/ns1:AdditionalGoodInformation Type: restriction of xs:string [0..1] Annotation: Additional information regarding the loaded good, given by the customer.
.../PLAN/PEREVEZ/@so_ves	*direct*	.../ns1:Wagons/ns1:Goods/ns1:GrossWeight Type: ns1:WeightValueKilo

Type: restriction of xs:byte Annotation: согласованный вес		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 Type: restriction of xs:string [0..1] 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 Type: restriction of xs:string [0..1] Annotation: Numeric key according to the European Waste CatalogueCODE: European waste catalogue (EWC) 2000/532/EC
		.../ns1:COM/ns1:Wagons/ns1:ITU Type: restriction of xs:anyType [0..25] Annotation: Describes the type and content of an IntermodalTransportUnit
		.../ns1:COM/ns1:Wagons/ns1:RollingRoadUnit Type: restriction of xs:anyType [0..5] Annotation: Describes the type and content of a Rolling road unit
		.../ns1:COMS/ns1:COM/ns1:WagonPreviousNumberFreight Type: restriction of xs:string [0..20] 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 Type: restriction of xs:string [0..1] Annotation: Reference to the original consignment note between lead RU/contractual carrier and consignor
		.../ns1:COMS/ns1:COM/ns1:AgreedTimeOfDelivery Type: xs:dateTime [0..1] Annotation: The requested Date and Time for the delivery of a wagon/Shipment or Intermodal untis at customer sidings

Remaining components

core.node-name (MESPLAN UZ 01 -> lang.left)	
node (MESPLAN UZ 01.UZ-XDOC)	name (lang.left.string)

lang.left (core.node-name, core.constant -> core.value-map)	
string (core.node-name.name) number (core.constant.2)	result (core.value-map.input)

core.value-map (lang.left -> taf_cat_complete_baseline_2.1.xmd)	
input (lang.left.result)	result (taf_cat_complete_baseline_2.1.xmd.ns1:Sender, taf_cat_complete_baseline_2.1.xmd.ns1:SendingRU, taf_cat_complete_baseline_2.1.xmd.ns1:LeadRU)
From	**To**
UZ	0022

lang.left (MESPLAN UZ 01, core.constant -> core.concat)	
string (MESPLAN UZ 01.month_plan) number (core.constant.4)	result (core.concat.value1)

core.substring (MESPLAN UZ 01, core.constant, core.constant -> core.concat)	
string (MESPLAN UZ 01.month_plan) start (core.constant.5)	result (core.concat.value3)

length (core.constant.2)	

core.value-map (MESPLAN UZ 01 -> taf_cat_complete_baseline_2.1.xmd)	
input (MESPLAN UZ 01.name_abonent)	result (taf_cat_complete_baseline_2.1.xmd.ns1:Recipient, taf_cat_complete_baseline_2.1.xmd.ns1:ReceivingRU)
From	**To**
АСК ВП УЗ-Э (зав.СНД)	0022

core.concat (lang.left, core.constant, core.substring, core.constant -> taf_cat_complete_baseline_2.1.xmd)	
value1 (lang.left.result) value2 (core.constant."-") value3 (core.substring.result) value4 (core.constant."-") value5 (core.constant."01T10:00:00")	result (taf_cat_complete_baseline_2.1.xmd.ns1:MessageDateTime)

core.value-map (MESPLAN UZ 01 -> taf_cat_complete_baseline_2.1.xmd)	
input (MESPLAN UZ 01.stran_otpr)	result (taf_cat_complete_baseline_2.1.xmd.ns1:CountryCodeISO)
From	**To**
804	0022
112	0021

lang.left (MESPLAN UZ 01, core.constant -> taf_cat_complete_baseline_2.1.xmd)	
string (MESPLAN UZ 01.esr_otpr) number (core.constant.5)	result (taf_cat_complete_baseline_2.1.xmd.ns1:LocationPrimaryCode)

core.value-map (MESPLAN UZ 01 -> taf_cat_complete_baseline_2.1.xmd)	
input (MESPLAN UZ 01.vid_plan)	result (taf_cat_complete_baseline_2.1.xmd.ns1:ConsignmentOrderType)
From	**To**
1	ORU
2	ORX

lang.left (MESPLAN UZ 01, core.constant -> core.concat)	
string (MESPLAN UZ 01.month_plan) number (core.constant.4)	result (core.concat.value1)

core.substring (MESPLAN UZ 01, core.constant -> core.concat)	
string (MESPLAN UZ 01.month_plan) start (core.constant.5)	result (core.concat.value3)

core.value-map (MESPLAN UZ 01 -> taf_cat_complete_baseline_2.1.xmd)

input (MESPLAN UZ 01.stran_prib)	result (taf_cat_complete_baseline_2.1.xmd.ns1:CountryCodeISO)
From	**To**
804	0022
112	0021

core.concat (lang.left, core.constant, core.substring, core.constant -> taf_cat_complete_baseline_2.1.xmd)	
value1 (lang.left.result) value2 (core.constant."-") value3 (core.substring.result) value4 (core.constant."-") value5 (core.constant."01T10:00:00")	result (taf_cat_complete_baseline_2.1.xmd.ns1:COM_PreparationDatetime)

Constants

core.constant (-> taf_cat_complete_baseline_2.1.xmd)	
Value	9999

core.constant (-> lang.left, core.substring)	
Value	2

core.constant (-> core.substring)	
Value	5

core.constant (-> lang.left)	
Value	4

core.constant (-> core.concat)	
Value	-

core.constant (-> core.concat)	
Value	01T10:00:00

core.constant (-> core.substring)	
Value	5

core.constant (-> lang.left)	
Value	5

core.constant (-> taf_cat_complete_baseline_2.1.xmd)	
Value	CE

core.constant (-> lang.left)	
Value	4

core.constant (-> taf_cat_complete_baseline_2.1.xmd)	
Value	1

core.constant (-> core.concat)	
Value	-

core.constant (-> core.concat)	
Value	01T10:00:00

core.constant (-> taf_cat_complete_baseline_2.1.xmd)	
Value	112298765432

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-PKP Cargo priklad transformed.mfd**
Дата окончательного сопоставления / Date of the final mapping	17/02/2020
Описания данных	2019_05_06-616 ХМ-УЗ-ЧФР Марфа опис.docx
Data descriptions	2019_05_06-616 ХМ-УЗ-ЧФР Марфа опис.docx

Output **taf_cat_complete** (taf_cat_complete.xsd)

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

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

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

		Unicode alphabet
		.../JourneySection/JourneySectionOrigin/LocationSubsidiaryIdentification Type: restriction of xs:anyType [0..1] Annotation: Code, Name and allocation company of Subsidiary Location
		.../TrainCompositionJourneySection/JourneySection/JourneySectionDestination Type: LocationIdent Annotation: Indication of the Railway or Customer Location
.../BODY/TRAIN/@destination_company Type: xs:short	**core.value-map** => input | result =>	.../JourneySection/JourneySectionDestination/CountryCodeISO Type: extension of CountryIdentISO Annotation: Identifies a County or State by code (ISO 3166-1)
.../BODY/TRAIN/@destination_station Type: xs:int	**lang.left** => string | result =>	.../JourneySection/JourneySectionDestination/LocationPrimaryCode Type: Numeric1-5
core.constant(5)	**lang.left** => number | result =>	
		.../JourneySection/JourneySectionDestination/PrimaryLocationName Type: FreeText [0..1] Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet
		.../JourneySection/JourneySectionDestination/LocationSubsidiaryIdentification Type: restriction of xs:anyType [0..1] Annotation: Code, Name and allocation company of Subsidiary Location
		.../TrainCompositionJourneySection/JourneySection/ResponsibilityActualSection Type: restriction of xs:anyType Annotation: This element identifies the responsible RU or IM for the actual path section
.../BODY/TRAIN/@forwarding_company Type: xs:byte	*direct* Annotation: ! To check if this mapping is correct Да, верно / Yes, correct	.../JourneySection/ResponsibilityActualSection/ResponsibleRU Type: CompanyCode Annotation: RU Responsible for the physical operation of the train or wagon
.../BODY/TRAIN/@forwarding_company Type: xs:byte	*direct* Annotation: ! To check if this mapping is correct	.../JourneySection/ResponsibilityActualSection/ResponsibleIM Type: CompanyCode Annotation: IM Responsible for Reporting. For Path Requests, this element has to be used - in the first journey location (origin of train) - 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.
		.../TrainCompositionJourneySection/JourneySection/ResponsibilityNextSection Type: restriction of xs:anyType Annotation: This element identifies the responsible RU and IM for the following path section
.../BODY/TRAIN/@destination_company Type: xs:short	*direct* Annotation: ! To check if this mapping is correct Да, верно / Yes, correct	.../JourneySection/ResponsibilityNextSection/ResponsibleRU Type: CompanyCode Annotation: RU Responsible for the physical operation of the train or wagon
.../BODY/TRAIN/@destination_company Type: xs:short	*direct* Annotation:	.../JourneySection/ResponsibilityNextSection/ResponsibleIM Type: CompanyCode Annotation: IM Responsible for Reporting.

	! No distinction between RU and IM	For Path Requests, this element has to be used - in the first journey location (origin of train) - 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.
		TrainCompositionMessage/TrainCompositionJourneySection/TrainRunningData Type: restriction of xs:anyType Annotation: Train relevant data for a running train
		.../TrainCompositionJourneySection/TrainRunningData/TrainRunningTechData Type: restriction of xs:anyType Annotation: Shows the relevant techical data for a running train
core.constant(2)	*direct*	.../TrainRunningData/TrainRunningTechData/TrainType Type: Annotation: 1 Passenger train Commercial train with passenger coaches or trainsets Empty run of Train with passenger coaches or trainsets Including Crew train (for Train Crew Members) 2 Freight train Train with freight wagons 3 Light engine (locomotive train) One or more engines without any carriages 4 Engineering train Train for measurement, maintenance, instructions, homologation, etc 0 Other Train types that are not covered with the four codes given above can be codified as "other" in the messages Passenger with Freight - military trains, the Overnight Express; Royalty, Head of States
UZ-XDOC/BODY/TRAIN Type: restriction of xs:anyType	**core.sum** => parent-context | result =>	.../TrainRunningData/TrainRunningTechData/TrainWeight Type: Annotation: The sum of all weights of wagons and traction units
.../TRAIN/WAGON/@tare Type: xs:short	**core.add** => value1 | result => **core.sum** => values | result =>	
.../TRAIN/WAGON/@weight_of_load Type: xs:byte	**core.add** => value2 | result => **core.sum** => values | result =>	
core.constant(675)	*direct* Annotation: ! This information is not in 616 XML Да, отсутствует / Yes, it is missing there	.../TrainRunningData/TrainRunningTechData/TrainLength Type: Numeric4-4 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 Type: xs:token [0..9] Annotation: Type of Train Control System. The following types are used: CCS TSI Class A: ETCS Level 0 ETCS Level NSC ETCS Level 1 ETCS Level 2 ETCS Level 3 ERA/TD/2011-11, Class B: PZB LZB Crocodile TBL 1 TBL 2 TVM 430TBL1+ EBICAB 700

	LS ZUB 123 ALSN ATP-VR/RHK KVB TVM 300 TVM 430 KVBP KCVP KCVB NEXTEO DAAT EVM CAWS ATP BACC RSDD/SCMT SSC MEMOR II+ SHP PKP ASFA EBICAB 900 SELCAB SIGNUM ZUB ATB 1st Gen ATB Next Gen GW ATP RETB TPWS UIC Leaflet 407-1 Codes (legacy) are covered in the ERA/TD/2011-11: 91 ETCS L1 92 ETCS L2 51 PZB 3 LZB 22 KVB 52 EVM 11 ZUB 31 ATB 32 ATBNG
	.../TrainRunningData/TrainRunningTechData/TrainRadioSystem Type: restriction of xs:token [0..9] Annotation: The on board radio system of the train in coded format
	.../TrainRunningData/TrainRunningTechData/TrainMaxSpeed Type: Speed [0..1] Annotation: The max. possible speed of a train in km/h
	.../TrainRunningData/TrainRunningTechData/MaxAxleWeight Type: restriction of xs:decimal [0..1] Annotation: Indicates the maximum design axle weight (to).
	.../TrainRunningData/TrainRunningTechData/BrakeType Type: restriction of xs:token [0..1] Annotation: Type of braking system. additional: X For indication: brake system of the freight wagon out of order (actually / current)
	.../TrainRunningData/TrainRunningTechData/BrakeWeight Type: restriction of xs:int [0..1] Annotation: Shows the Braked mass of the wagon according to the type of the braking system, in Tonnes
	.../TrainRunningData/TrainRunningTechData/NumberOfVehicles Type: restriction of xs:integer [0..1] Annotation: The sum of number of wagons and number of traction units
	.../TrainRunningData/TrainRunningTechData/NumberOfAxles Type: restriction of xs:integer [0..1] Annotation: The sum of number of axles of all wagons and all traction units
	.../TrainCompositionJourneySection/TrainRunningData/ExceptionalGaugingInd Type: xs:boolean [0..1]

	Annotation: Indicates that an exceptional gauging is in the train or for the wagon - (true/false)
	.../TrainCompositionJourneySection/TrainRunningData/DangerousGoodsIndicator Type: xs:boolean [0..1] 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
	.../TrainCompositionJourneySection/TrainRunningData/Activities Type: restriction of xs:anyType [0..99]
	.../TrainRunningData/Activities/TrainActivityType Type: restriction of xs:string 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. 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) 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: 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 Operational Train (in service) 0017 split train 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 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 0042 Train Waiting 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 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" 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. National / company codes: Examples: Numbers 00 to 99 may be used by an IM for Network national purposes, just adding ISO country code CZ01 Stops from new stop opening day UK55 Stop shorter than 1/2 min IT72 Train report stop cancelled
		.../TrainRunningData/Activities/ActivityLocationIdent Type: LocationIdent Annotation: Indication of the Railway or Customer Location
		TrainCompositionMessage/TrainCompositionJourneySection/LocoIdent Type: restriction of xs:anyType [0..∞] Annotation: Defines the actual Type, the number and the mode of deployment of a traction unit of the freight train
core.constant(0)	*direct* Annotation: ! This information is not in 616 XML Да, отсутствует / Yes, it is missing there	TrainCompositionMessage/TrainCompositionJourneySection/LivestockOrPeopleIndicator Type: restriction of xs:integer 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.'
.../BODY/TRAIN/WAGON Type: restriction of xs:anyType [1..∞]	*direct* Annotation: ! Owner and country can be detected from OWNER field in 616 XML Да, верно / Yes, correct	TrainCompositionMessage/TrainCompositionJourneySection/WagonData Type: restriction of xs:anyType [0..∞] Annotation: Wagon relevant data for the wagons within a running train
.../TRAIN/WAGON/@number_of_wagon Type: xs:int	*direct* see ch **Error! Reference source not found.**	.../TrainCompositionJourneySection/WagonData/WagonNumberFreight Type: WagonIdent Annotation: Identifies uniquely the freight wagon by its number
.../TRAIN/WAGON/@sequence_number Type: xs:byte	*direct*	.../TrainCompositionJourneySection/WagonData/WagonTrainPosition Type: restriction of xs:int 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.
core.constant("")	*direct* Annotation: ! This information is not in 616 XML Да, отсутствует / Yes, it is missing there	.../TrainCompositionJourneySection/WagonData/WagonOperationalData Type: restriction of xs:anyType 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.
		.../WagonData/WagonOperationalData/BrakeType Type: restriction of xs:token [0..1] Annotation: Type of braking system. additional: X For indication: brake system of the freight wagon out of order (actually / current)

	.../WagonData/WagonOperationalData/BrakeWeight Type: restriction of xs:int [0..1] Annotation: Shows the Braked mass of the wagon according to the type of the braking system, in Tonnes
	.../WagonData/WagonOperationalData/WagonMaxSpeed Type: restriction of xs:int [0..1] Annotation: Maximum allowed speed of the wagon according to the load and entry in the Rolling Stock Databases. In kmh
	.../WagonData/WagonOperationalData/ExceptionalGaugingProfile Type: restriction of xs:string [0..1] Annotation: Identification of special load. Coding found in 404-2 chapter 4.9.1 (4AN + 3N)
	.../WagonData/WagonOperationalData/ExceptionalGaugingIdent Type: restriction of xs:anyType [0..1] Annotation: Indicates that an exceptional Gauging is in the train or for the wagon
	.../WagonOperationalData/ExceptionalGaugingIdent/IM_Partner Type: CompanyCode Annotation: Infrastructure Manager
	.../WagonOperationalData/ExceptionalGaugingIdent/ExceptionalGaugingCode Type: restriction of xs:string Annotation: Acceptance agreement number, coded in UIC 404-2 chapter 4.9.2
	.../WagonData/WagonOperationalData/DangerousGoodsDetails Type: restriction of xs:anyType [0..99]
	.../WagonOperationalData/DangerousGoodsDetails/DangerousGoodsIndication Type: DanGoodsType [0..1] Annotation: Identifies dangerous goods
	.../DangerousGoodsDetails/DangerousGoodsIndication/HazardIdentificationNumber Type: restriction of xs:string [0..1]
	.../DangerousGoodsDetails/DangerousGoodsIndication/UN_Number Type: restriction of xs:string [0..1] 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 <=1000L", "EMPTY IBC" or "EMPTY LARGE PACKAGING" .
	.../DangerousGoodsDetails/DangerousGoodsIndication/DangerLabel Type: restriction of xs:token [0..5] 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). 1 Explosive materials, divisions 1.1, 1.2 and 1.3 1.4 Explosive materials, division 1.4 1.5 Explosive materials, division 1.5 1.6 Explosive materials, division 1.6 2.1 Flammable gases 2.2 Non-flammable, non-toxic gases 2.3 Toxic gases 3 Flammable liquids 4.1 Flammable solids , self-reactive substances and solid desensitized explosives 4.2 Substances liable to spontaneous combustion 4.3 Substances which, in contact with water, emit flammable gases 5.1 Oxidizing substances 5.2 Organic peroxides 6.1 Toxic substances 6.2 Infectious substances 7A Radioactive material, category I 7B Radioactive material, category II 7C Radioactive material, category III 7D (obsolete) should be used for general information about class 7 7E Fissile radioactive material 8 Corrosive substances 9 Miscellaneous dangerous substances and articles
	.../DangerousGoodsDetails/DangerousGoodsIndication/RID_Class Type: restriction of xs:string [0..1] Annotation: The Class of the dangerous good according to the RID chapter 3.2, table A, column 3a.

	.../DangerousGoodsDetails/DangerousGoodsIndication/PackingGroup Type: restriction of xs:token [0..1] 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 <=1000L", "EMPTY IBC" or "EMPTY LARGE PACKAGING". I High danger The description of the codes is taken from: RID chapter 3.2, table A, column 4 II Medium danger III Low danger
	.../DangerousGoodsDetails/DangerousGoodsIndication/DangerousGoodsWeight Type: WeightValueKilo [0..1] Annotation: The weight of dangerous goods in kilograms
	.../DangerousGoodsDetails/DangerousGoodsIndication/DangerousGoodsVolume Type: VolumeValue [0..1] Annotation: The volume of the dangerous goods in cubic meters
	.../DangerousGoodsDetails/DangerousGoodsIndication/LimitedQuantityIndicator Type: xs:boolean Annotation: Indicator for labelled dangerous goods in limited quantity according to chapter 3.-4 RID
	.../WagonOperationalData/DangerousGoodsDetails/WeightOfDangerousGoods Type: restriction of xs:decimal [0..1] Annotation: Requested by RID specification, weight in kilograms
	.../WagonData/WagonOperationalData/InfoOnGoodsShapeTypeDanger Type: restriction of xs:token [0..9] Annotation: Additional codified information on the load. Coding Structures as defined in 404-2 chapter 4.1 Codes to add are given in the table below: 96 Environmentally hazardous substance (RID 5.2.1.8) 97 More than 8 tons of dangerous goods packaged in limited quantities (LQ) The following documentation serves for the existing codes: 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 - spontaneoulsy 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 dangerouse substance and objects not covered by the other classes 98 Livestock 99 Perishables
	.../WagonData/WagonOperationalData/RestrictionsDueToLoadOrDamage Type: RestrictionCodes [0..9] 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)

		.../WagonData/WagonOperationalData/TotalLoadWeight Type: WeightValueKilo [0..1] 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
		.../TrainCompositionJourneySection/WagonData/WagonTechData Type: restriction of xs:anyType Annotation: This element shows the wagon relevant technical data for the wagons within a running train
core.constant(25)	*direct* Annotation: ! This information is not in 616 XML Да, отсутствует / Yes, it is missing there	.../WagonData/WagonTechData/LengthOverBuffers Type: restriction of xs:integer Annotation: Length over buffers is expressed in cm.
.../TRAIN/WAGON/@number_of_axles Type: xs:byte	*direct*	.../WagonData/WagonTechData/WagonNumberOfAxles Type: Annotation: Number of Axels for a wagon
		.../WagonData/WagonTechData/AirBrakeType Type: [0..1] Annotation: Classification of air brake. additional code: 8 No air brake or brake pipe The code is defined in UIC Leaflet 920-13.
		.../WagonData/WagonTechData/BrakingPowerVariationDevice Type: [0..1] Annotation: Coding in 404-2, chapter 1.8
		.../WagonData/WagonTechData/AirBrakeSpecialCharacteristic Type: restriction of xs:integer [0..1] Annotation: Coding in 404-2, chapter 1.8
		.../WagonData/WagonTechData/HandBrakeType Type: [0..1] Annotation: Classification of hand brake: 0 No hand brake 1 Ground-operated hand brake 2 Platform-operated hand brake
		.../WagonData/WagonTechData/HandBrakeBrakedWeight Type: restriction of xs:integer [0..1] Annotation: Coding in 404-2, chapter 1.7
		.../WagonData/WagonTechData/NormalLoadingGauge Type: restriction of xs:token [0..1] Annotation: Wagon or load gauge code used in UK, coded in UIC 505-1 and 503: 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. Candidate: G1, G2, GA, GB, GC, CM, CE, M2, M3, M4, GB1, GB2, GB-M6, GHE16, W6-A. Lately added: 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')
.../TRAIN/WAGON/@tare Type: xs:short	*direct*	.../WagonData/WagonTechData/WagonWeightEmpty Type: WeightValueKilo Annotation: The weight of an empty wagon according to the entry in the rolling stock database
		.../WagonData/WagonTechData/TechnicalRestrictions Type: Numeric2-2 [0..6]

Remaining components

core.value-map (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)
From	**To**
616	3003

lang.left (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) number (core.constant.5)	result (taf_cat_complete.LocationPrimaryCode)

core.value-map (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)
From	**To**
22	UA
20	RU
51	PL

lang.left (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) number (core.constant.5)	result (taf_cat_complete.LocationPrimaryCode)

core.value-map (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)
From	**To**
22	UA
20	RU
51	PL
2153	RO

core.sum (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) values (core.add.result)	result (taf_cat_complete.TrainWeight)

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

Constants

core.constant (-> taf_cat_complete)	
Value	1

core.constant (-> taf_cat_complete)	
Value	1151

core.constant (-> taf_cat_complete)	
Value	0022

core.constant (-> taf_cat_complete)	
Value	

core.constant (-> lang.left)	
Value	5

core.constant (-> lang.left)	
Value	5

core.constant (-> taf_cat_complete)	
Value	0

core.constant (-> taf_cat_complete)	
Value	2

core.constant (-> taf_cat_complete)	
Value	25

core.constant (-> taf_cat_complete)	
Value	675

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	**IFCSUM_TCM.mfd**
Дата окончательного сопоставления / Date of the final mapping	16/01/2020
Описания данных	Памятка ОСЖД O+P 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 Type: string
		ns1:TrainCompositionMessage Type: restriction of xs:anyType [0..1] Annotation: This message is sent from an RU to an IM defining the composition of the proposed train.
.../Group/Message_IFCSUM/UNH Type: UNH Annotation: MESSAGE HEADER	*direct*	ns1:TrainCompositionMessage/ns1:MessageHeader Type: restriction of xs:anyType Annotation: Used for all messages
		ns1:TrainCompositionMessage/ns1:MessageHeader/ns1:MessageReference Type: restriction of xs:anyType Annotation: This element identifies the message
core.constant("3003")	*direct*	.../ns1:MessageHeader/ns1:MessageReference/ns1:MessageType Type: restriction of xs:integer Annotation: To indicate the message type transmitted or referred to. The following list was agreed within the sector: 2001 PathCanceledMessage 2002 PathConfirmedMessage 2003 PathDetailsMessage 2004 PathDetailsRefusedMessage 2005 PathNotAvailableMessage 2006 PathRequestMessage 2007 ReceiptConfirmationMessage 3001 TrainAcceptedMessage 3002 TrainAtStartMessage 3003 TrainCompositionMessage 3004 TrainNotSuitableMessage 3005 TrainPositionMessage 3006 TrainReadyMessage 4001 TrainDelayCauseMessage

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

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

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

.../Group/Message_IFCSUM/SG2 Type: SG2 [0..9] Annotation: GOR - Governmental requirements	*direct*	ns1:TrainCompositionMessage/ns1:TrainCompositionJourneySection/ns1:JourneySection Type: restriction of xs:anyType Annotation: Defines the data provided by the IM for a journey section
.../Message_IFCSUM/SG2/LOC Type: LOC [0..9] Annotation: PLACE/LOCATION IDENTIFICATION	**core.filter** => node/row | on-true =>	.../ns1:TrainCompositionJourneySection/ns1:JourneySection/ns1:JourneySectionOrigin Type: ns1:LocationIdent Annotation: Indication of the Railway or Customer Location
.../SG2/LOC/F3227 Type: F3227 Annotation: LOCATION FUNCTION CODE QUALIFIER	**core.equal** => a | result => **core.filter** => bool | on-true =>	
core.constant("5")	**core.equal** => b | result => **core.filter** => bool | on-true =>	
.../LOC/C517/F3225 Type: F3225 [0..1] Annotation: Location identifier	Annotation: Mapping TAF vs UIC country code needed **lang.left** => string | result => **core.value-map** => input | result => Annotation: Mapping TAF vs UIC country code needed	.../ns1:JourneySection/ns1:JourneySectionOrigin/ns1:CountryCodeISO Type: extension of ns1:CountryIdentISO Annotation: Identifies a County or State by code (ISO 3166-1)
core.constant(2)	Annotation: Mapping TAF vs UIC country code needed **lang.left** => number | result => **core.value-map** => input | result => Annotation: Mapping TAF vs UIC country code needed	
.../LOC/C517/F3225 Type: F3225 [0..1] Annotation: Location identifier	**lang.right** => string | result =>	.../ns1:JourneySection/ns1:JourneySectionOrigin/ns1:LocationPrimaryCode Type: ns1:Numeric1-5
core.constant("6")	**lang.right** => number | result =>	
.../LOC/C517/F3224 Type: F3224 [0..1] Annotation: Location name	*direct*	.../ns1:JourneySection/ns1:JourneySectionOrigin/ns1:PrimaryLocationName Type: ns1:FreeText [0..1] Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet
		.../ns1:JourneySection/ns1:JourneySectionOrigin/ns1:LocationSubsidiaryIdentification Type: restriction of xs:anyType [0..1] Annotation: Code, Name and allocation company of Subsidiary Location
.../LOC/C517/F3225 Type: F3225 [0..1] Annotation: Location identifier	*direct*	.../ns1:JourneySectionOrigin/ns1:LocationSubsidiaryIdentification/ns1:LocationSubsidiaryCode Type: extension of ns1:String1-10 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:LocationSubsidi

		aryTypeCode Type: restriction of xs:token Annotation: New codes added: 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). 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 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 45 Sewage dump Place for cleaning purposes - disposal of the waste 46 Refuelling Point Location where refuelling takes place 47 Mains Supply Location where energy supply can be provided for the rolling stock e.g. preheating 48 Water Supply Location where water supply can be provided for the rolling stock 49 Compressed plant Train on a track with motion stabled with external air supply for braking systems 50 Indoor cleaning platform Cleaning point -interior 51 Car-wash plant Cleaning point -outdoor 52 Short dry-cleaning track Cleaning point 53 Pollution protective plate Track where floor that avoids pollution of the earth below 54 Sand-filling station Location where sand is filled 55 Repair track Location where a train/wagon/engine can be repaired 56 Signal box The location of a building containing signalling equipment
		.../ns1:JourneySectionOrigin/ns1:LocationSubsidiaryIdentification/ns1:AllocationCompany Type: ns1:CompanyCode Annotation: Name of company who is responsible for allocation and maintenance of codes
.../LOC/C517/F3224 Type: F3224 [0..1] Annotation: Location name	*direct*	.../ns1:JourneySectionOrigin/ns1:LocationSubsidiaryIdentification/ns1:LocationSubsidiaryName Type: ns1:FreeText [0..1] Annotation: To be completed in an official language of the Country using the ISO Unicode alphabet
.../Message_IFCSUM/SG2/LOC Type: LOC [0..9] Annotation: PLACE/LOCATION IDENTIFICATION	**core.filter** => node/row | on-true =>	.../ns1:TrainCompositionJourneySection/ns1:JourneySection/ns1:JourneySectionDestination Type: ns1:LocationIdent Annotation: Indication of the Railway or Customer Location
.../SG2/LOC/F3227 Type: F3227 Annotation: LOCATION FUNCTION CODE QUALIFIER	**core.equal** => a | result => **core.filter** => bool | on-true =>	
core.constant("8")	**core.equal** => b | result => **core.filter** => bool | on-true =>	
.../LOC/C517/F3225 Type: F3225 [0..1] Annotation: Location identifier	Annotation: Mapping TAF vs UIC country code needed **lang.left** => string | result => **core.value-map** => input | result => Annotation: Mapping TAF vs UIC country code needed	.../ns1:JourneySection/ns1:JourneySectionDestination/ns1:CountryCodeISO Type: extension of ns1:CountryIdentISO Annotation: Identifies a County or State by code (ISO 3166-1)
core.constant(2)	Annotation: Mapping TAF vs UIC country code needed	

	lang.left => number | result => **core.value-map** => input | result => Annotation: Mapping TAF vs UIC country code needed	
.../LOC/C517/F3225 Type: F3225 [0..1] Annotation: Location identifier	**lang.right** => string | result =>	.../ns1:JourneySection/ns1:JourneySectionDestination/ns1:LocationPrimaryCode Type: ns1:Numeric1-5
core.constant("6")	**lang.right** => number | result =>	
.../LOC/C517/F3224 Type: F3224 [0..1] Annotation: Location name	*direct*	.../ns1:JourneySection/ns1:JourneySectionDestination/ns1:PrimaryLocationName Type: ns1:FreeText [0..1] Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet
		.../ns1:JourneySection/ns1:JourneySectionDestination/ns1:LocationSubsidiaryIdentification Type: restriction of xs:anyType [0..1] Annotation: Code, Name and allocation company of Subsidiary Location
		.../ns1:TrainCompositionJourneySection/ns1:JourneySection/ns1:ResponsibilityActualSection Type: restriction of xs:anyType Annotation: This element identifies the responsible RU or IM for the actual path section
		.../ns1:TrainCompositionJourneySection/ns1:JourneySection/ns1:ResponsibilityNextSection Type: restriction of xs:anyType Annotation: This element identifies the responsible RU and IM for the following path section
		ns1:TrainCompositionMessage/ns1:TrainCompositionJourneySection/ns1:TrainRunningData Type: restriction of xs:anyType Annotation: Train relevant data for a running train
		.../ns1:TrainCompositionJourneySection/ns1:TrainRunningData/ns1:TrainRunningTechData Type: restriction of xs:anyType Annotation: Shows the relevant techical data for a running train
		.../ns1:TrainCompositionJourneySection/ns1:TrainRunningData/ns1:ExceptionalGaugingInd Type: ns1:InfoIndex [0..1] Annotation: Indicates that an exceptional Gauging is in the train or for the wagon
		.../ns1:TrainCompositionJourneySection/ns1:TrainRunningData/ns1:DangerousGoodsIndication Type: ns1:DanGoodsType [0..1] Annotation: Identifies the Dangerous Goods by code
		.../ns1:TrainCompositionJourneySection/ns1:TrainRunningData/ns1:Activities Type: restriction of xs:anyType [0..99]
		ns1:TrainCompositionMessage/ns1:TrainCompositionJourneySection/ns1:LocoIdent Type: restriction of xs:anyType [0..∞] 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:LivestockOrPeopleIndicator Type: restriction of xs:integer 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.'
.../Group/Message_IFCSUM/SG23 Type: SG23 [0..9999] Annotation: EQD - Equipment details	*direct*	ns1:TrainCompositionMessage/ns1:TrainCompositionJourneySection/ns1:WagonData Type: restriction of xs:anyType [1..∞] Annotation: Wagon relevant data for the wagons within a running train
.../EQD/C237/F8260 Type: F8260 [0..1] Annotation: Equipment identifier	*Direct see chapter 11*	.../ns1:TrainCompositionJourneySection/ns1:WagonData/ns1:WagonNumberFreight Type: ns1:WagonIdent Annotation: Identifies uniquely the freight wagon by its number

.../EQN/C523/F6350 Type: F6350 [0..1] Annotation: Units quantity	*direct*	.../ns1:TrainCompositionJourneySection/ns1:WagonData/ns1:WagonTrainPosition Type: restriction of xs:int 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.
core.constant("")	*direct*	.../ns1:TrainCompositionJourneySection/ns1:WagonData/ns1:WagonOperationalData Type: restriction of xs:anyType 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.
		.../ns1:WagonData/ns1:WagonOperationalData/ns1:BrakeType Type: restriction of xs:token [0..1] Annotation: Type of braking system. additional: X For indication: brake system of the freight wagon out of order (actually / current)
		.../ns1:WagonData/ns1:WagonOperationalData/ns1:BrakeWeight Type: restriction of xs:int [0..1] Annotation: Shows the Braked mass of the wagon according to the type of the braking system, in Tonnes
		.../ns1:WagonData/ns1:WagonOperationalData/ns1:WagonMaxSpeed Type: restriction of xs:int [0..1] Annotation: Maximum allowed speed of the wagon according to the load and entry in the Rolling Stock Databases. In kmh
		.../ns1:WagonData/ns1:WagonOperationalData/ns1:ExceptionalGaugingProfile Type: restriction of xs:string [0..1] Annotation: Identification of special load. Coding found in 404-2 chapter 4.9.1 (4AN + 3N)
		.../ns1:WagonData/ns1:WagonOperationalData/ns1:ExceptionalGaugingIdent Type: restriction of xs:anyType [0..1] Annotation: Indicates that an exceptional Gauging is in the train or for the wagon
		.../ns1:WagonData/ns1:WagonOperationalData/ns1:DangerousGoodsDetails Type: restriction of xs:anyType [0..99]
		.../ns1:WagonData/ns1:WagonOperationalData/ns1:InfoOnGoodsShapeTypeDanger Type: restriction of xs:token [0..9] Annotation: Additional codified information on the load. Coding Structures as defined in 404-2 chapter 4.1 Codes to add are given in the table below: 96 Environmentally hazardous substance (RID 5.2.1.8) 97 More than 8 tons of dangerous goods packaged in limited quantities (LQ) The following documentation serves for the existing codes: 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 - spontaneoulsy 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 dangerouse substance and objects not covered by the other classes 98 Livestock 99 Perishables

		.../ns1:WagonData/ns1:WagonOperationalData/ns1:RestrictionsDueToLoadOrDamage Type: ns1:RestrictionCodes [0..9] 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)
		.../ns1:WagonData/ns1:WagonOperationalData/ns1:TotalLoadWeight Type: ns1:WeightValueKilo [0..1] 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
.../SG23/EQD/C237 Type: C237 [0..1] Annotation: EQUIPMENT IDENTIFICATION	*direct*	.../ns1:TrainCompositionJourneySection/ns1:WagonData/ns1:WagonTechData Type: restriction of xs:anyType Annotation: This element shows the wagon relevant technical data for the wagons within a running train
.../MEA/C174/F6411 Type: F6411 [0..1] Annotation: Measurement unit code	**core.equal** => a | result => **core.filter** => bool | on-true => **core.multiply** => value1 | result =>	.../ns1:WagonData/ns1:WagonTechData/ns1:WagonLength Type: restriction of xs:int Annotation: Length over buffers in cms
.../MEA/C174/F6314 Type: F6314 [0..1] Annotation: Measure	**core.filter** => node/row | on-true => **core.multiply** => value1 | result =>	
core.constant("DTM")	**core.equal** => b | result => **core.filter** => bool | on-true => **core.multiply** => value1 | result =>	
core.constant("10")	**core.multiply** => value2 | result =>	
.../MEA/C174/F6411 Type: F6411 [0..1] Annotation: Measurement unit code	**core.equal** => a | result => **core.filter** => bool | on-true =>	.../ns1:WagonData/ns1:WagonTechData/ns1:WagonNumberOfAxles Type: Annotation: Number of Axels for a wagon
.../MEA/C174/F6314 Type: F6314 [0..1] Annotation: Measure	**core.filter** => node/row | on-true =>	
core.constant("PCE")	**core.equal** => b | result => **core.filter** => bool | on-true =>	
		.../ns1:WagonData/ns1:WagonTechData/ns1:AirBrakeType Type: [0..1] Annotation: Classification of air brake. additional code: 8 No air brake or brake pipe The code is defined in UIC Leaflet 920-13.
		.../ns1:WagonData/ns1:WagonTechData/ns1:BrakingPowerVariationDevice Type: [0..1] Annotation: Coding in 404-2, chapter 1.8
		.../ns1:WagonData/ns1:WagonTechData/ns1:AirBrakeSpecialCharacteristic Type: restriction of xs:integer [0..1] Annotation: Coding in 404-2, chapter 1.8
		.../ns1:WagonData/ns1:WagonTechData/ns1:HandBrakeType Type: [0..1] Annotation: Classification of hand brake: 0 No hand brake 1 Ground-operated hand brake 2 Platform-operated hand brake

		.../ns1:WagonData/ns1:WagonTechData/ns1:HandBrakeBrakedWeight Type: ns1:Numeric3-3 [0..1] Annotation: Coding in 404-2, chapter 1.7
		.../ns1:WagonData/ns1:WagonTechData/ns1:NormalLoadingGauge Type: restriction of xs:token [0..1] Annotation: Wagon or load gauge code used in UK, coded in UIC 505-1 and 503: 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. Candidate: G1, G2, GA, GB, GC, CM, CE, M2, M3, M4, GB1, GB2, GB-M6, GHE16, W6-A. Lately added: 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')
.../MEA/C174/F6411 Type: F6411 [0..1] Annotation: Measurement unit code	**core.equal** => a | result => **core.filter** => bool | on-true =>	.../ns1:WagonData/ns1:WagonTechData/ns1:WagonWeightEmpty Type: ns1:WeightValueKilo Annotation: The weight of an empty wagon according to the entry in the rolling stock database
.../MEA/C174/F6314 Type: F6314 [0..1] Annotation: Measure	**core.filter** => node/row | on-true =>	
core.constant("KGM")	**core.equal** => b | result => **core.filter** => bool | on-true =>	
		.../ns1:WagonData/ns1:WagonTechData/ns1:TechnicalRestrictions Type: ns1:Numeric2-2 [0..6]

Remaining components

core.value-map (IFCSUM -> taf_cat_complete_baseline_2.1.xmd)	
input (IFCSUM.F0004)	result (taf_cat_complete_baseline_2.1.xmd.ns1:Sender)
From	**To**
ISC_LDZ	25

core.concat (IFCSUM, core.constant -> taf_cat_complete_baseline_2.1.xmd)	
value1 (IFCSUM.F0065) value2 (core.constant.":") value3 (IFCSUM.F0052) value4 (core.constant.":") value5 (IFCSUM.F0054) value6 (core.constant.":") value7 (IFCSUM.F0051)	result (taf_cat_complete_baseline_2.1.xmd.ns1:MessageTypeVersion)

core.value-map (IFCSUM -> taf_cat_complete_baseline_2.1.xmd)	
input (IFCSUM.F0010)	result (taf_cat_complete_baseline_2.1.xmd.ns1:Recipient, taf_cat_complete_baseline_2.1.xmd.ns1:TransfereeIM)

From	**To**
GVCMPSRU	20

core.value-map (IFCSUM -> taf_cat_complete_baseline_2.1.xmd)	
input (IFCSUM.F1225)	result (taf_cat_complete_baseline_2.1.xmd.ns1:MessageStatus)
From	**To**
9	1

edifact.to-datetime (IFCSUM -> taf_cat_complete_baseline_2.1.xmd)	
F2380 (IFCSUM.F2380) F2379 (IFCSUM.F2379)	result (taf_cat_complete_baseline_2.1.xmd.ns1:MessageDateTime, taf_cat_complete_baseline_2.1.xmd.ns1:StartDate)

core.value-map (IFCSUM -> taf_cat_complete_baseline_2.1.xmd)	
input (IFCSUM.F1153)	result (taf_cat_complete_baseline_2.1.xmd.ns1:ObjectType)
From	**To**
ON	TR

core.substring (IFCSUM, core.constant, core.constant -> taf_cat_complete_baseline_2.1.xmd)	
string (IFCSUM.F2380) start (core.constant."1") length (core.constant."4")	result (taf_cat_complete_baseline_2.1.xmd.ns1:TimetableYear)

core.equal (IFCSUM, core.constant -> core.filter)	
a (IFCSUM.F6411) b (core.constant."DTM")	result (core.filter.bool)

core.filter (IFCSUM, core.equal -> core.multiply)	
node/row (IFCSUM.F6314) bool (core.equal.result)	on-true (core.multiply.value1)

core.multiply (core.filter, core.constant -> taf_cat_complete_baseline_2.1.xmd)	
value1 (core.filter.on-true) value2 (core.constant."10")	result (taf_cat_complete_baseline_2.1.xmd.ns1:WagonLength)

lang.left (IFCSUM, core.constant -> core.value-map)	
string (IFCSUM.F3225) number (core.constant.2)	result (core.value-map.input)

core.value-map (lang.left -> taf_cat_complete_baseline_2.1.xmd)	
input (lang.left.result)	result (taf_cat_complete_baseline_2.1.xmd.ns1:CountryCodeISO,

	taf_cat_complete_baseline_2.1.xmd.ns1:CountryCodeISO)
From	**To**
20	RU
25	LV

core.filter (IFCSUM, core.equal -> taf_cat_complete_baseline_2.1.xmd)	
node/row (IFCSUM.LOC) bool (core.equal.result)	on-true (taf_cat_complete_baseline_2.1.xmd.ns1:JourneySectionOrigin)

core.equal (IFCSUM, core.constant -> core.filter)	
a (IFCSUM.F3227) b (core.constant."5")	result (core.filter.bool)

lang.right (IFCSUM, core.constant -> taf_cat_complete_baseline_2.1.xmd)	
string (IFCSUM.F3225) number (core.constant."6")	result (taf_cat_complete_baseline_2.1.xmd.ns1:LocationPrimaryCode, taf_cat_complete_baseline_2.1.xmd.ns1:LocationPrimaryCode)

core.filter (IFCSUM, core.equal -> taf_cat_complete_baseline_2.1.xmd)	
node/row (IFCSUM.LOC) bool (core.equal.result)	on-true (taf_cat_complete_baseline_2.1.xmd.ns1:JourneySectionDestination)

core.equal (IFCSUM, core.constant -> core.filter)	
a (IFCSUM.F6411) b (core.constant."PCE")	result (core.filter.bool)

core.filter (IFCSUM, core.equal -> taf_cat_complete_baseline_2.1.xmd)	
node/row (IFCSUM.F6314) bool (core.equal.result)	on-true (taf_cat_complete_baseline_2.1.xmd.ns1:WagonNumberOfAxles)

core.equal (IFCSUM, core.constant -> core.filter)	
a (IFCSUM.F3227) b (core.constant."8")	result (core.filter.bool)

core.equal (IFCSUM, core.constant -> core.filter)	
a (IFCSUM.F6411) b (core.constant."KGM")	result (core.filter.bool)

core.filter (IFCSUM, core.equal -> taf_cat_complete_baseline_2.1.xmd)	
node/row (IFCSUM.F6314) bool (core.equal.result)	on-true (taf_cat_complete_baseline_2.1.xmd.ns1:WagonWeightEmpty)

Constants

core.constant (-> taf_cat_complete_baseline_2.1.xmd)	
Value	3003

core.constant (-> core.concat)	
Value	:

core.constant (-> taf_cat_complete_baseline_2.1.xmd)	
Value	

core.constant (-> core.substring)	
Value	1

core.constant (-> core.equal)	
Value	DTM

core.constant (-> core.substring)	
Value	4

core.constant (-> core.multiply)	
Value	10

core.constant (-> lang.left)	
Value	2

core.constant (-> lang.right)	
Value	6

core.constant (-> core.equal)	
Value	5

core.constant (-> core.equal)	
Value	PCE

core.constant (-> core.equal)	
Value	8

core.constant (-> core.equal)	
Value	KGM

Mapping documentation generated by **Mapforce** Graphical data mapping tool **http://www.altova.com/mapforce**

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

		4004 TrainRunningForecastMessage 4005 TrainRunningInformationMessage 4006 TrainRunningInterruptionMessage 5001 AlertMessage 5002 WagonArrivalNoticeMessage 5003 WagonDeliveryNoticeMessage 5004 WagonDepartureNoticeMessage 5005 WagonDeviationMessage 5006 WagonETI_ETA_Message 5007 WagonExceptionMessage 5008 WagonExceptionReasonMessage 5009 WagonInterchangeNoticeMessage 5010 WagonInterchangeSubNoticeMessage 5011 WagonOrderMessage 5012 WagonReceivedAtInterchangeMessage 5013 WagonRefusedAtInterchangeMessage 5014 WagonReleaseNoticeMessage 5015 WagonYardArrivalMessage 5016 WagonYardDepartureMessage 6001 IRN_DatasetMessage 6002 LocationFileDatasetMessage 6003 RollingStockDatasetMessage
core.constant("2.0")	*direct* Annotation: Not available in H30 XSD but can be added at train composition creation application level. >> not blocking	.../ns1:MessageHeader/ns1:MessageReference/ns1:MessageTypeVersion Type: restriction of xs:string Annotation: Version of the Message Type
HE30XML_2.0_2016/G1/H5 Type: restriction of xs:short [0..1] Annotation: Zähler der Vormeldung je Zug / Counter of Preadvice per train/Compteur de préannonce par train	*direct*	.../ns1:MessageHeader/ns1:MessageReference/ns1:MessageIdentifier Type: ns1:FreeText Annotation: Identification of the Message
HE30XML_2.0_2016/G1/H3 Type: restriction of xs:dateTime Annotation: Erstellungszeitpunkt der Meldung / Message Creation Date Time / Date/Heure de creation du message= YYYY-MM-DDThh:mm:ss+0h:00	*direct*	.../ns1:MessageHeader/ns1:MessageReference/ns1:MessageDateTime Type: xs:dateTime Annotation: Generated by the common Interface
		ns1:TrainCompositionMessage/ns1:MessageHeader/ns1:MessageRoutingID Type: ns1:Numeric2-2 [0..1] Annotation: Additional information used to route the message to the correct recieving application (if needed)
		ns1:TrainCompositionMessage/ns1:MessageHeader/ns1:SenderReference Type: ns1:FreeText [0..1] Annotation: reference used by the sender (e.g. FTP file name)
HE30XML_2.0_2016/G1/H1 Type: restriction of xs:string Annotation: Sendendes Eisenbahnunternehmen / Sending Railway Company / EF envoyante	*direct*	ns1:TrainCompositionMessage/ns1:MessageHeader/ns1:Sender Type: extension of ns1:CompanyCode Annotation: The sender of the message
		.../ns1:MessageHeader/ns1:Sender/@ns1:CI_InstanceNumber Type: ns1:Numeric2-2 [0..1] Annotation: Number of a Common Interface Instance for the same Company
HE30XML_2.0_2016/G1/H2 Type: restriction of xs:string	*direct*	ns1:TrainCompositionMessage/ns1:MessageHeader/ns1:Recipient Type: extension of ns1:CompanyCode

Annotation: Empfangendes Eisenbahnunternehmen / Receiving Railway Company / EF recevante		Annotation: Receiver of the message
		.../ns1:MessageHeader/ns1:Recipient/@ns1:CI_InstanceNumber Type: ns1:Numeric2-2 [0..1] Annotation: Number of a Common Interface Instance for the same Company
core.constant(1)	*direct* Annotation: In H30 XSD available in the tag H5. If the counter is 1 then this is a CREATION. IF >1 then it is MODIFICATION.	ns1:TrainCompositionMessage/ns1:MessageStatus Type: Annotation: Assigned by the Sender 1=creation, 2=modification, 3=deletion
		ns1:TrainCompositionMessage/ns1:TransportOperationalIdentifiers Type: extension of ns1:CompositIdentifierOperationalType [0..∞]
		ns1:TrainCompositionMessage/ns1:TransportOperationalIdentifiers/ns1:ObjectType Type: restriction of xs:string Annotation: Provides a possibility for differentiantion between the objects: Train, Path, Case Reference and Path Request
		ns1:TrainCompositionMessage/ns1:TransportOperationalIdentifiers/ns1:Company Type: ns1:CompanyCode Annotation: Identifies a railway company (RU or IM)
		ns1:TrainCompositionMessage/ns1:TransportOperationalIdentifiers/ns1:Core Type: restriction of xs:string Annotation: It is the main part of identifier and is determent by the company that creates it.
		ns1:TrainCompositionMessage/ns1:TransportOperationalIdentifiers/ns1:Variant Type: restriction of xs:string Annotation: The variant shows a relationship between two identifiers referring to the same business case
		ns1:TrainCompositionMessage/ns1:TransportOperationalIdentifiers/ns1:TimetableYear Type: restriction of xs:integer Annotation: Refers to the timetable period in which the business will be carried out
		ns1:TrainCompositionMessage/ns1:TransportOperationalIdentifiers/ns1:StartDate Type: restriction of xs:date Annotation: The start of the date/time in effect
		ns1:TrainCompositionMessage/ns1:OperationalTrainNumberIdentifier Type: restriction of xs:anyType
HE30XML_2.0_2016/GT1/T1_1_1 Type: restriction of xs:string Annotation: Nummer / Number / numéro	*direct*	ns1:TrainCompositionMessage/ns1:OperationalTrainNumberIdentifier/ns1:OperationalTrainNumber Type: ns1:String1-8 Annotation: Identifies the train for traffic management purposes by the Dispatcher, GSMR services, etc.
HE30XML_2.0_2016/GT1/T1_1_3 Type: restriction of xs:dateTime Annotation: Fahrplanmässiger Übergangszeitpunkt Grenze oder Bahnhof / Planned Border Crossing Date Time or arrival datetime at the next interchange station / Heure théorique de passage à la frontière = YYYY-MM-DDThh:mm:ss+0h:00	*direct*	ns1:TrainCompositionMessage/ns1:OperationalTrainNumberIdentifier/ns1:ScheduledTimeAtHandover Type: xs:dateTime [0..1] Annotation: The scheduled departure date and time or the scheduled handover date and time at the border between two different IMs.
HE30XML_2.0_2016/GT1/T1_1_2 Type: restriction of xs:dateTime Annotation: Voraussichtlicher tatsächlicher Übergabezeitpunkt Grenze oder Bahnhof/ Planned date time at border crossing or at arrival at the next interchange	*direct*	ns1:TrainCompositionMessage/ns1:OperationalTrainNumberIdentifier/ns1:ScheduledDateTimeAtTransfer Type: xs:dateTime [0..1] Annotation: The scheduled arrival at destination date and time or the scheduled outgoing transfer date and time at the border between two different IMs.

station/ Date et heure réelle prévue du passage frontière = YYYY-MM-DDThh:mm:ss+0h:00		
HE30XML_2.0_2016/GT1/T1_1_1 Type: restriction of xs:string Annotation: Nummer / Number / numéro	*direct*	ns1:TrainCompositionMessage/ns1:OperationalTrainNumber Type: ns1:String1-8 Annotation: Identifies the train for traffic management purposes by the Dispatcher, GSMR services, etc.
		ns1:TrainCompositionMessage/ns1:ReferenceOTN Type: restriction of xs:anyType [0..1]
		ns1:TrainCompositionMessage/ns1:ReferenceOTN/ns1:OperationalTrainNumberIdentifier Type: restriction of xs:anyType
		.../ns1:ReferenceOTN/ns1:OperationalTrainNumberIdentifier/ns1:OperationalTrainNumber Type: ns1:String1-8 Annotation: Identifies the train for traffic management purposes by the Dispatcher, GSMR services, etc.
		.../ns1:ReferenceOTN/ns1:OperationalTrainNumberIdentifier/ns1:ScheduledTimeAtHandover Type: xs:dateTime [0..1] 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 Type: xs:dateTime [0..1] 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 Type: ns1:LocationIdent [0..1] Annotation: Transfer point or station of destination in the considered network
HE30XML_2.0_2016/GT1/T1_4_1 Type: restriction of xs:string [0..1] Annotation: Ländercode des Bestimmungslandes/ Train destination country code / pays de destination	*direct*	ns1:TrainCompositionMessage/ns1:TransferPoint/ns1:CountryCodeISO Type: extension of ns1:CountryIdentISO Annotation: Identifies a County or State by code (ISO 3166-1)
HE30XML_2.0_2016/GT1/T1_4_2 Type: restriction of xs:string [0..1] Annotation: Bestimmungsbahnhof Code / Train destination station code / destination en code	*direct*	ns1:TrainCompositionMessage/ns1:TransferPoint/ns1:LocationPrimaryCode Type: ns1:Numeric1-5
HE30XML_2.0_2016/GT1/T1_4_3 Type: restriction of xs:string [0..1] Annotation: Bestimmungsbahnhof Name Train destination station name/ destinationen claire	*direct*	ns1:TrainCompositionMessage/ns1:TransferPoint/ns1:PrimaryLocationName Type: ns1:FreeText [0..1] Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet
		ns1:TrainCompositionMessage/ns1:TransferPoint/ns1:LocationSubsidiaryIdentification Type: restriction of xs:anyType [0..1] Annotation: Code, Name and allocation company of Subsidiary Location
		ns1:TrainCompositionMessage/ns1:TransfereeIM Type: ns1:CompanyCode [0..1] Annotation: Next IM
HE30XML_2.0_2016/GT2 Type: restriction of xs:anyType [1..6] Annotation: Übergabepunkte / Interchange Points / Point de transit	*direct*	ns1:TrainCompositionMessage/ns1:TrainCompositionJourneySection Type: restriction of xs:anyType [1..99] Annotation: Defines the make up of a train for each section of its journey
		ns1:TrainCompositionMessage/ns1:TrainCompositionJourneySection/ns1:JourneySection Type: restriction of xs:anyType

		Annotation: Defines the data provided by the IM for a journey section
HE30XML_2.0_2016/GT2/GT2_4 Type: restriction of xs:anyType [0..1] Annotation: TCM_Journey_START and/or Destination PLC	*direct*	.../ns1:TrainCompositionJourneySection/ns1:JourneySection/ns1:JourneySectionOrigin Type: ns1:LocationIdent Annotation: Indication of the Railway or Customer Location
.../GT2/GT2_4/T2_4_1 Type: restriction of xs:string [0..1] Annotation: Start_CountryCodeISO Identifies a County or State by code (ISO 3166-1)	*direct*	.../ns1:JourneySection/ns1:JourneySectionOrigin/ns1:CountryCodeISO Type: extension of ns1:CountryIdentISO Annotation: Identifies a County or State by code (ISO 3166-1)
.../GT2/GT2_4/T2_4_2 Type: restriction of xs:integer [0..1] Annotation: Start_LocationPrimaryCode	*direct*	.../ns1:JourneySection/ns1:JourneySectionOrigin/ns1:LocationPrimaryCode Type: ns1:Numeric1-5
.../GT2/GT2_4/T2_4_3 Type: restriction of xs:string [0..1] Annotation: Start_PrimaryLocationName Location Name in an offication language of the Country using the ISO Unicode alphabet	*direct*	.../ns1:JourneySection/ns1:JourneySectionOrigin/ns1:PrimaryLocationName Type: ns1:FreeText [0..1] Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet
		.../ns1:JourneySection/ns1:JourneySectionOrigin/ns1:LocationSubsidiaryIdentification Type: restriction of xs:anyType [0..1] Annotation: Code, Name and allocation company of Subsidiary Location
HE30XML_2.0_2016/GT2/GT2_4 Type: restriction of xs:anyType [0..1] Annotation: TCM_Journey_START and/or Destination PLC	*direct*	.../ns1:TrainCompositionJourneySection/ns1:JourneySection/ns1:JourneySectionDestination Type: ns1:LocationIdent Annotation: Indication of the Railway or Customer Location
.../GT2/GT2_4/T2_4_4 Type: restriction of xs:string Annotation: Destination_CountryCodeISO Identifies a County or State by code (ISO 3166-1)	*direct*	.../ns1:JourneySection/ns1:JourneySectionDestination/ns1:CountryCodeISO Type: extension of ns1:CountryIdentISO Annotation: Identifies a County or State by code (ISO 3166-1)
.../GT2/GT2_4/T2_4_5 Type: restriction of xs:integer Annotation: Destination_LocationPrimaryCode	*direct*	.../ns1:JourneySection/ns1:JourneySectionDestination/ns1:LocationPrimaryCode Type: ns1:Numeric1-5
.../GT2/GT2_4/T2_4_6 Type: restriction of xs:string [0..1] Annotation: Destination_PrimaryLocationName Location Name in an offication language of the Country using the ISO Unicode alphabet	*direct*	.../ns1:JourneySection/ns1:JourneySectionDestination/ns1:PrimaryLocationName Type: ns1:FreeText [0..1] Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet
		.../ns1:JourneySection/ns1:JourneySectionDestination/ns1:LocationSubsidiaryIdentification Type: restriction of xs:anyType [0..1] Annotation: Code, Name and allocation company of Subsidiary Location
		.../ns1:JourneySectionDestination/ns1:LocationSubsidiaryIdentification/ns1:LocationSubsidiaryCode Type: extension of ns1:String1-10 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:JourneySectionDestination/ns1:LocationSubsidiaryIdentification/ns1:AllocationCompany Type: ns1:CompanyCode Annotation: Name of company who is responsible for allocation and maintenance of codes
		.../ns1:JourneySectionDestination/ns1:LocationSubsidiaryIdentification/ns1:LocationSubsidiaryName Type: ns1:FreeText [0..1] Annotation: To be completed in an official language of the Country using the ISO Unicode alphabet
		.../ns1:TrainCompositionJourneySection/ns1:JourneySection/ns1:ResponsibilityActualSection Type: restriction of xs:anyType Annotation: This element identifies the responsible RU or IM for the actual path section
.../GT2/GT2_5/T2_5_1 Type: restriction of xs:positiveInteger [0..1] Annotation: ResponsibleRU_Actual	*direct*	.../ns1:JourneySection/ns1:ResponsibilityActualSection/ns1:ResponsibleRU Type: ns1:CompanyCode Annotation: RU Responsible for the physical operation of the train or wagon
.../GT2/GT2_5/T2_5_2 Type: restriction of xs:positiveInteger [0..1] Annotation: ResponsibleIM_Actual	*direct*	.../ns1:JourneySection/ns1:ResponsibilityActualSection/ns1:ResponsibleIM Type: ns1:CompanyCode Annotation: IM Responsible for Reporting. For Path Requests, this element has to be used - in the first journey location (origin of train) - 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.
		.../ns1:TrainCompositionJourneySection/ns1:JourneySection/ns1:ResponsibilityNextSection Type: restriction of xs:anyType Annotation: This element identifies the responsible RU and IM for the following path section
.../GT2/GT2_5/T2_5_3 Type: restriction of xs:positiveInteger [0..1] Annotation: ResponsibleRU_Next	*direct*	.../ns1:JourneySection/ns1:ResponsibilityNextSection/ns1:ResponsibleRU Type: ns1:CompanyCode Annotation: RU Responsible for the physical operation of the train or wagon
.../GT2/GT2_5/T2_5_4 Type: restriction of xs:positiveInteger [0..1] Annotation: ResponsibleIM_Next	*direct*	.../ns1:JourneySection/ns1:ResponsibilityNextSection/ns1:ResponsibleIM Type: ns1:CompanyCode Annotation: IM Responsible for Reporting. For Path Requests, this element has to be used - in the first journey location (origin of train) - 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.
		ns1:TrainCompositionMessage/ns1:TrainCompositionJourneySection/ns1:TrainRunningData Type: restriction of xs:anyType Annotation: Train relevant data for a running train
core.constant("")	*direct* 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). >> not blocking	.../ns1:TrainCompositionJourneySection/ns1:TrainRunningData/ns1:TrainRunningTechData Type: restriction of xs:anyType Annotation: Shows the relevant techical data for a running train
		.../ns1:TrainRunningData/ns1:TrainRunningTechData/ns1:TrainType Type: Annotation: 1 Passenger train Commercial train with passenger coaches or trainsets Empty run of Train with passenger coaches or trainsets Including Crew train (for Train Crew Members) 2 Freight train Train with freight wagons 3 Light engine (locomotive train) One or more engines without any carriages 4 Engineering train Train for measurement, maintenance, instructions, homologation, etc 0 Other Train types that are not covered with the four codes given above can be

		codified as "other" in the messages Passenger with Freight - military trains, the Overnight Express; Royalty, Head of States
		.../ns1:TrainRunningData/ns1:TrainRunningTechData/ns1:TrainWeight Type: Annotation: The sum of all weights of wagons and traction units
		.../ns1:TrainRunningData/ns1:TrainRunningTechData/ns1:TrainLength Type: ns1:Numeric4-4 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 Type: ns1:TrainCC_Syst [0..9] Annotation: Type of Train Control System by code (UIC 407-1)
		.../ns1:TrainRunningData/ns1:TrainRunningTechData/ns1:TrainRadioSystem Type: restriction of xs:token [0..9] Annotation: The on board radio system of the train in coded format
		.../ns1:TrainRunningData/ns1:TrainRunningTechData/ns1:TrainMaxSpeed Type: ns1:Speed [0..1] Annotation: The max. possible speed of a train in km/h
		.../ns1:TrainRunningData/ns1:TrainRunningTechData/ns1:MaxAxleWeight Type: restriction of xs:int [0..1] Annotation: Maximum allowed axle weight for a wagon within a train. Unit in tonnes per axle
		.../ns1:TrainRunningData/ns1:TrainRunningTechData/ns1:BrakeType Type: restriction of xs:token [0..1] Annotation: Type of braking system. additional: X For indication: brake system of the freight wagon out of order (actually / current)
		.../ns1:TrainRunningData/ns1:TrainRunningTechData/ns1:BrakeWeight Type: restriction of xs:int [0..1] Annotation: Shows the Braked mass of the wagon according to the type of the braking system, in Tonnes
		.../ns1:TrainRunningData/ns1:TrainRunningTechData/ns1:NumberOfVehicles Type: restriction of xs:integer [0..1] Annotation: The sum of number of wagons and number of traction units
		.../ns1:TrainRunningData/ns1:TrainRunningTechData/ns1:NumberOfAxles Type: restriction of xs:integer [0..1] Annotation: The sum of number of axles of all wagons and all traction units
		.../ns1:TrainCompositionJourneySection/ns1:TrainRunningData/ns1:ExceptionalGaugingInd Type: ns1:InfoIndex [0..1] Annotation: Indicates that an exceptional Gauging is in the train or for the wagon
		.../ns1:TrainCompositionJourneySection/ns1:TrainRunningData/ns1:DangerousGoodsIndication Type: ns1:DanGoodsType [0..1] Annotation: Identifies the Dangerous Goods by code
		.../ns1:TrainCompositionJourneySection/ns1:TrainRunningData/ns1:Activities Type: restriction of xs:anyType [0..99]
		ns1:TrainCompositionMessage/ns1:TrainCompositionJourneySection/ns1:LocoIdent Type: restriction of xs:anyType [0..∞] Annotation: Defines the actual Type, the number and the mode of deployment of a traction unit of the freight train
.../GWLS/GWLS_6/WLS_6 Type: restriction of xs:short Annotation: Merkmal / Characteristic / chcaractéristique	*direct*	ns1:TrainCompositionMessage/ns1:TrainCompositionJourneySection/ns1:LivestockOrPeopleIndicator Type: restriction of xs:integer 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.'
HE30XML_2.0_2016/GW Type: restriction of xs:anyType [0..99] Annotation: Angaben zum Wagenzug (A-Z) / Wagon list (A-Z) / Liste des wagons (A-Z)	*direct*	ns1:TrainCompositionMessage/ns1:TrainCompositionJourneySection/ns1:WagonData Type: restriction of xs:anyType [1..∞] Annotation: Wagon relevant data for the wagons within a running train
.../GW/GW1/I1_0 Type: restriction of xs:string	*Direct* *see chapter 11*	.../ns1:TrainCompositionJourneySection/ns1:WagonData/ns1:WagonNumberFreight Type: ns1:WagonIdent Annotation: Identifies uniquely the freight wagon by its number

Annotation: 1.0 - Wagennummer / WagonNumber/ numéro de wagon		
core.constant(99)	*direct* Annotation: 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	.../ns1:TrainCompositionJourneySection/ns1:WagonData/ns1:WagonTrainPosition Type: restriction of xs:int 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.
		.../ns1:TrainCompositionJourneySection/ns1:WagonData/ns1:WagonOperationalData Type: restriction of xs:anyType 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.
.../GW/GWA/WA_2 Type: restriction of xs:string Annotation: Bremsart aktuell / Braking system actual / régime de freinage	*direct*	.../ns1:WagonData/ns1:WagonOperationalData/ns1:BrakeType Type: restriction of xs:token [0..1] Annotation: Type of braking system. additional: X For indication: brake system of the freight wagon out of order (actually / current)
.../GW/GWA/WA_1 Type: restriction of xs:short Annotation: Bremsgewicht aktuell / BrakeWeight actual/ masse	*direct*	.../ns1:WagonData/ns1:WagonOperationalData/ns1:BrakeWeight Type: restriction of xs:int [0..1] Annotation: Shows the Braked mass of the wagon according to the type of the braking system, in Tonnes
.../GW/GW1/I1_2 Type: restriction of xs:short Annotation: 1.2 - Bauartbedingte Höchstgeschwindigkeit / Maximum speed, depending on design characteristics / Régime de vitesse, lié à la construction	*direct*	.../ns1:WagonData/ns1:WagonOperationalData/ns1:WagonMaxSpeed Type: restriction of xs:int [0..1] Annotation: Maximum allowed speed of the wagon according to the load and entry in the Rolling Stock Databases. In kmh
		.../ns1:WagonData/ns1:WagonOperationalData/ns1:ExceptionalGaugingProfile Type: restriction of xs:string [0..1] Annotation: Identification of special load. Coding found in 404-2 chapter 4.9.1 (4AN + 3N)
		.../ns1:WagonData/ns1:WagonOperationalData/ns1:ExceptionalGaugingIdent Type: restriction of xs:anyType [0..1] Annotation: Indicates that an exceptional Gauging is in the train or for the wagon
		.../ns1:WagonData/ns1:WagonOperationalData/ns1:DangerousGoodsDetails Type: restriction of xs:anyType [0..99]
		.../ns1:WagonData/ns1:WagonOperationalData/ns1:InfoOnGoodsShapeTypeDanger Type: restriction of xs:token [0..9] Annotation: Additional codified information on the load. Coding Structures as defined in 404-2 chapter 4.1 Codes to add are given in the table below: 96 Environmentally hazardous substance (RID 5.2.1.8) 97 More than 8 tons of dangerous goods packaged in limited quantities (LQ) The following documentation serves for the existing codes: 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 - spontaneoulsy 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 dangerouse substance and objects not covered by the other classes 98 Livestock 99 Perishables
.../GW/GW2/I2_4 Type: restriction of xs:string [0..7] Annotation: Schadensbedingte Beschränkung / Restriction due to irregularity / Restriction due aux avaries	*direct*	.../ns1:WagonData/ns1:WagonOperationalData/ns1:RestrictionsDueToLoadOrDamage Type: ns1:RestrictionCodes [0..9] 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)
.../GW/GWL/WL1 Type: restriction of xs:int Annotation: GesamtGewicht der Ladungen / WeightOfLoads / Masse du chargements	*direct*	.../ns1:WagonData/ns1:WagonOperationalData/ns1:TotalLoadWeight Type: ns1:WeightValueKilo [0..1] 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
		.../ns1:TrainCompositionJourneySection/ns1:WagonData/ns1:WagonTechData Type: restriction of xs:anyType Annotation: This element shows the wagon relevant technical data for the wagons within a running train
.../GW/GW1/I1_3 Type: restriction of xs:int Annotation: 1.3 - Länge über Puffer / LengthOverBuffers / Longueur hors tampons	*direct*	.../ns1:WagonData/ns1:WagonTechData/ns1:WagonLength Type: restriction of xs:int Annotation: Length over buffers in cms
.../GW/GW1/I1_1 Type: restriction of xs:byte Annotation: 1.1 - Anzahl der Achsen / NumberOfAxles / Nombre d'essieux	*direct*	.../ns1:WagonData/ns1:WagonTechData/ns1:WagonNumberOfAxles Type: Annotation: Number of Axels for a wagon
.../GW1/G1_8/I1_8_1 Type: restriction of xs:string	*direct*	.../ns1:WagonData/ns1:WagonTechData/ns1:AirBrakeType Type: [0..1] Annotation: Classification of air brake. additional code:

Annotation: Bremsart (Code) / Braking system code / régime de freinage		8 No air brake or brake pipe The code is defined in UIC Leaflet 920-13.
.../GW1/G1_8/I1_8_2 Type: restriction of xs:string [0..1] Annotation: Umstellhebel für die lastabhängige Bremsung / BrakingPowerVariationDevice / dispositif de variation de la puissance de freinage en fonction de la charge	*direct*	.../ns1:WagonData/ns1:WagonTechData/ns1:BrakingPowerVariationDevice Type: [0..1] Annotation: Coding in 404-2, chapter 1.8
.../GW1/G1_8/I1_8_4 Type: restriction of xs:short [0..7] Annotation: Wert des charakteristischen Gewichts / ValueOfCharacteristicMass / valeur de la masse caractéristique	*direct*	.../ns1:WagonData/ns1:WagonTechData/ns1:AirBrakeSpecialCharacteristic Type: restriction of xs:integer [0..1] Annotation: Coding in 404-2, chapter 1.8
.../GW1/G1_7/I1_7_1 Type: restriction of xs:string Annotation: Art der Handbremse / TypeOfHandbrake / type de frein à main	*direct*	.../ns1:WagonData/ns1:WagonTechData/ns1:HandBrakeType Type: [0..1] Annotation: Classification of hand brake: 0 No hand brake 1 Ground-operated hand brake 2 Platform-operated hand brake
.../GW1/G1_7/I1_7_2 Type: restriction of xs:byte [0..1] Annotation: Handbremsgewicht to / BrakedWeight to / masse freinée to	*direct*	.../ns1:WagonData/ns1:WagonTechData/ns1:HandBrakeBrakedWeight Type: ns1:Numeric3-3 [0..1] Annotation: Coding in 404-2, chapter 1.7
.../GW/GW1/I1_11 Type: restriction of xs:short [0..1] 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	*direct*	.../ns1:WagonData/ns1:WagonTechData/ns1:NormalLoadingGauge Type: restriction of xs:token [0..1] Annotation: Wagon or load gauge code used in UK, coded in UIC 505-1 and 503: 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. Candidate: G1, G2, GA, GB, GC, CM, CE, M2, M3, M4, GB1, GB2, GB-M6, GHE16, W6-A. Lately added: 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')
.../GW/GW1/I1_4 Type: restriction of xs:int Annotation: 1.4 - Eigengewicht / Tara / Tare	*direct*	.../ns1:WagonData/ns1:WagonTechData/ns1:WagonWeightEmpty Type: ns1:WeightValueKilo Annotation: The weight of an empty wagon according to the entry in the rolling stock database
		.../ns1:WagonData/ns1:WagonTechData/ns1:TechnicalRestrictions Type: ns1:Numeric2-2 [0..6]

Constants

core.constant (-> taf_cat_complete_baseline_2.1.xmd)	
Value	3003

core.constant (-> taf_cat_complete_baseline_2.1.xmd)	
Value	2.0

core.constant (-> taf_cat_complete_baseline_2.1.xmd)	
Value	1

core.constant (-> taf_cat_complete_baseline_2.1.xmd)	
Value	

core.constant (-> taf_cat_complete_baseline_2.1.xmd)	
Value	99

User-defined function defines

user.AddWagonPosition

Variable components

core.variable (integer) (core.constant -> core.add)	
value (core.constant.1)	value (core.add.value1)

core.variable (integer) (core.add -> core.add)	
value (core.add.result)	value (core.add.value1)

Remaining components

core.add (core.variable (integer), core.constant -> core.variable (integer))	
value1 (core.variable (integer).value) value2 (core.constant.1)	result (core.variable (integer).value)

core.add (core.variable (integer), core.constant ->)	
value1 (core.variable (integer).value) value2 (core.constant.1)	

Constants

core.constant (-> core.variable (integer), core.add, core.add)	
Value	1

Mapping documentation generated by **Mapforce** Graphical data mapping tool **http://www.altova.com/mapforce**

6. Трансформация из сообщения ОСЖД UZ XML 616 “о составе поезда в сообщение 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	**2019_05_06-616 XML-UZ-PKP Cargo priklad transformed.mfd**
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 Type: string
UZ-XDOC Type: restriction of xs:anyType [0..1]	*direct*	TrainCompositionMessage Type: restriction of xs:anyType [0..1] Annotation: This message is sent from an RU to an IM defining the composition of the proposed train.
		TrainCompositionMessage/MessageHeader Type: restriction of xs:anyType Annotation: Used for all messages
		TrainCompositionMessage/MessageHeader/MessageReference Type: restriction of xs:anyType Annotation: This element identifies the message
UZ-XDOC/HEAD/@messcode Type: xs:short	**core.value-map** => input | result =>	.../MessageHeader/MessageReference/MessageType Type: restriction of xs:integer Annotation: To indicate the message type transmitted or referred to. The following list was agreed within the sector: 2001 PathCanceledMessage 2002 PathConfirmedMessage 2003 PathDetailsMessage 2004 PathDetailsRefusedMessage 2005 PathNotAvailableMessage 2006 PathRequestMessage 2007 ReceiptConfirmationMessage 3001 TrainAcceptedMessage 3002 TrainAtStartMessage 3003 TrainCompositionMessage 3004 TrainNotSuitableMessage 3005 TrainPositionMessage 3006 TrainReadyMessage 4001 TrainDelayCauseMessage 4002 TrainDelayPerformanceMessage 4003 TrainForecastAtReportingLocationMessage 4004 TrainRunningForecastMessage 4005 TrainRunningInformationMessage 4006 TrainRunningInterruptionMessage

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

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

	=> number | result =>	
		.../JourneySection/JourneySectionDestination/PrimaryLocationName Type: FreeText [0..1] Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet
		.../JourneySection/JourneySectionDestination/LocationSubsidiaryIdentification Type: restriction of xs:anyType [0..1] Annotation: Code, Name and allocation company of Subsidiary Location
		.../TrainCompositionJourneySection/JourneySection/ResponsibilityActualSection Type: restriction of xs:anyType Annotation: This element identifies the responsible RU or IM for the actual path section
.../BODY/TRAIN/@forwarding_company Type: xs:byte	*direct* Annotation: ! To check if this mapping is correct Да, верно / Yes, correct	.../JourneySection/ResponsibilityActualSection/ResponsibleRU Type: CompanyCode Annotation: RU Responsible for the physical operation of the train or wagon
.../BODY/TRAIN/@forwarding_company Type: xs:byte	*direct* Annotation: ! To check if this mapping is correct	.../JourneySection/ResponsibilityActualSection/ResponsibleIM Type: CompanyCode Annotation: IM Responsible for Reporting. For Path Requests, this element has to be used - in the first journey location (origin of train) - 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.
		.../TrainCompositionJourneySection/JourneySection/ResponsibilityNextSection Type: restriction of xs:anyType Annotation: This element identifies the responsible RU and IM for the following path section
.../BODY/TRAIN/@destination_company Type: xs:short	*direct* Annotation: ! To check if this mapping is correct Да, верно / Yes, correct	.../JourneySection/ResponsibilityNextSection/ResponsibleRU Type: CompanyCode Annotation: RU Responsible for the physical operation of the train or wagon
.../BODY/TRAIN/@destination_company Type: xs:short	*direct* Annotation: ! No distinction between RU and IM	.../JourneySection/ResponsibilityNextSection/ResponsibleIM Type: CompanyCode Annotation: IM Responsible for Reporting. For Path Requests, this element has to be used - in the first journey location (origin of train) - 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.
		TrainCompositionMessage/TrainCompositionJourneySection/TrainRunningData Type: restriction of xs:anyType Annotation: Train relevant data for a running train
		.../TrainCompositionJourneySection/TrainRunningData/TrainRunningTechData Type: restriction of xs:anyType Annotation: Shows the relevant techical data for a running train
core.constant(2)	*direct*	.../TrainRunningData/TrainRunningTechData/TrainType Type: Annotation: 1 Passenger train Commercial train with passenger coaches or trainsets Empty run of Train with passenger coaches or trainsets Including Crew train (for Train Crew Members) 2 Freight train Train with freight wagons

		3 Light engine (locomotive train) One or more engines without any carriages 4 Engineering train Train for measurement, maintenance, instructions, homologation, etc 0 Other Train types that are not covered with the four codes given above can be codified as "other" in the messages Passenger with Freight - military trains, the Overnight Express; Royalty, Head of States
UZ-XDOC/BODY/TRAIN Type: restriction of xs:anyType	**core.sum** => parent-context | result =>	.../TrainRunningData/TrainRunningTechData/TrainWeight Type: Annotation: The sum of all weights of wagons and traction units
.../TRAIN/WAGON/@tare Type: xs:short	**core.add** => value1 | result => **core.sum** => values | result =>	
.../TRAIN/WAGON/@weight_of_load Type: xs:byte	**core.add** => value2 | result => **core.sum** => values | result =>	
core.constant(675)	*direct* Annotation: ! This information is not in 616 XML Да, отсутствует / Yes, it is missing there	.../TrainRunningData/TrainRunningTechData/TrainLength Type: Numeric4-4 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 Type: xs:token [0..9] Annotation: Type of Train Control System. The following types are used: CCS TSI Class A: ETCS Level 0 ETCS Level NSC ETCS Level 1 ETCS Level 2 ETCS Level 3 ERA/TD/2011-11, Class B: PZB LZB Crocodile TBL 1 TBL 2 TVM 430TBL1+ EBICAB 700 LS ZUB 123 ALSN ATP-VR/RHK KVB TVM 300 TVM 430 KVBP KCVP KCVB NEXTEO DAAT EVM CAWS ATP BACC RSDD/SCMT SSC MEMOR II+ SHP PKP ASFA EBICAB 900

	SELCAB SIGNUM ZUB ATB 1st Gen ATB Next Gen GW ATP RETB TPWS UIC Leaflet 407-1 Codes (legacy) are covered in the ERA/TD/2011-11: 91 ETCS L1 92 ETCS L2 51 PZB 3 LZB 22 KVB 52 EVM 11 ZUB 31 ATB 32 ATBNG
	.../TrainRunningData/TrainRunningTechData/TrainRadioSystem Type: restriction of xs:token [0..9] Annotation: The on board radio system of the train in coded format
	.../TrainRunningData/TrainRunningTechData/TrainMaxSpeed Type: Speed [0..1] Annotation: The max. possible speed of a train in km/h
	.../TrainRunningData/TrainRunningTechData/MaxAxleWeight Type: restriction of xs:decimal [0..1] Annotation: Indicates the maximum design axle weight (to).
	.../TrainRunningData/TrainRunningTechData/BrakeType Type: restriction of xs:token [0..1] Annotation: Type of braking system. additional: X For indication: brake system of the freight wagon out of order (actually / current)
	.../TrainRunningData/TrainRunningTechData/BrakeWeight Type: restriction of xs:int [0..1] Annotation: Shows the Braked mass of the wagon according to the type of the braking system, in Tonnes
	.../TrainRunningData/TrainRunningTechData/NumberOfVehicles Type: restriction of xs:integer [0..1] Annotation: The sum of number of wagons and number of traction units
	.../TrainRunningData/TrainRunningTechData/NumberOfAxles Type: restriction of xs:integer [0..1] Annotation: The sum of number of axles of all wagons and all traction units
	.../TrainCompositionJourneySection/TrainRunningData/ExceptionalGaugingInd Type: xs:boolean [0..1] Annotation: Indicates that an exceptional gauging is in the train or for the wagon - (true/false)
	.../TrainCompositionJourneySection/TrainRunningData/DangerousGoodsIndicator Type: xs:boolean [0..1] 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
	.../TrainCompositionJourneySection/TrainRunningData/Activities Type: restriction of xs:anyType [0..99]
	.../TrainRunningData/Activities/TrainActivityType Type: restriction of xs:string 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. 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) 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: 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 Operational Train (in service) 0017 split train 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 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 0042 Train Waiting 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 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" 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. National / company codes: Examples: Numbers 00 to 99 may be used by an IM for Network national purposes, just adding ISO country code CZ01 Stops from new stop opening day UK55 Stop shorter than 1/2 min IT72 Train report stop cancelled

		.../TrainRunningData/Activities/ActivityLocationIdent Type: LocationIdent Annotation: Indication of the Railway or Customer Location
		TrainCompositionMessage/TrainCompositionJourneySection/LocoIdent Type: restriction of xs:anyType [0..∞] Annotation: Defines the actual Type, the number and the mode of deployment of a traction unit of the freight train
core.constant(0)	*direct* Annotation: ! This information is not in 616 XML Да, отсутствует / Yes, it is missing there	TrainCompositionMessage/TrainCompositionJourneySection/LivestockOrPeopleIndicator Type: restriction of xs:integer 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.'
.../BODY/TRAIN/WAGON Type: restriction of xs:anyType [1..∞]	*direct* Annotation: ! Owner and country can be detected from OWNER field in 616 XML Да, верно / Yes, correct	TrainCompositionMessage/TrainCompositionJourneySection/WagonData Type: restriction of xs:anyType [0..∞] Annotation: Wagon relevant data for the wagons within a running train
.../TRAIN/WAGON/@number_of_wagon Type: xs:int	*Direct see chapt 11*	.../TrainCompositionJourneySection/WagonData/WagonNumberFreight Type: WagonIdent Annotation: Identifies uniquely the freight wagon by its number
.../TRAIN/WAGON/@sequence_number Type: xs:byte	*direct*	.../TrainCompositionJourneySection/WagonData/WagonTrainPosition Type: restriction of xs:int 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.
core.constant("")	*direct* Annotation: ! This information is not in 616 XML Да, отсутствует / Yes, it is missing there	.../TrainCompositionJourneySection/WagonData/WagonOperationalData Type: restriction of xs:anyType 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.
		.../WagonData/WagonOperationalData/BrakeType Type: restriction of xs:token [0..1] Annotation: Type of braking system. additional: X For indication: brake system of the freight wagon out of order (actually / current)
		.../WagonData/WagonOperationalData/BrakeWeight Type: restriction of xs:int [0..1] Annotation: Shows the Braked mass of the wagon according to the type of the braking system, in Tonnes
		.../WagonData/WagonOperationalData/WagonMaxSpeed Type: restriction of xs:int [0..1] Annotation: Maximum allowed speed of the wagon according to the load and entry in the Rolling Stock Databases. In kmh
		.../WagonData/WagonOperationalData/ExceptionalGaugingProfile Type: restriction of xs:string [0..1] Annotation: Identification of special load. Coding found in 404-2 chapter 4.9.1 (4AN + 3N)
		.../WagonData/WagonOperationalData/ExceptionalGaugingIdent Type: restriction of xs:anyType [0..1] Annotation: Indicates that an exceptional Gauging is in the train or for the wagon
		.../WagonOperationalData/ExceptionalGaugingIdent/IM_Partner Type: CompanyCode Annotation: Infrastructure Manager
		.../WagonOperationalData/ExceptionalGaugingIdent/ExceptionalGaugingCode Type: restriction of xs:string Annotation: Acceptance agreement number, coded in UIC 404-2 chapter 4.9.2

	.../WagonData/WagonOperationalData/DangerousGoodsDetails Type: restriction of xs:anyType [0..99]
	.../WagonOperationalData/DangerousGoodsDetails/DangerousGoodsIndication Type: DanGoodsType [0..1] Annotation: Identifies dangerous goods
	.../DangerousGoodsDetails/DangerousGoodsIndication/HazardIdentificationNumber Type: restriction of xs:string [0..1]
	.../DangerousGoodsDetails/DangerousGoodsIndication/UN_Number Type: restriction of xs:string [0..1] 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 <=1000L", "EMPTY IBC" or "EMPTY LARGE PACKAGING" .
	.../DangerousGoodsDetails/DangerousGoodsIndication/DangerLabel Type: restriction of xs:token [0..5] 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). 1 Explosive materials, divisions 1.1, 1.2 and 1.3 1.4 Explosive materials, division 1.4 1.5 Explosive materials, division 1.5 1.6 Explosive materials, division 1.6 2.1 Flammable gases 2.2 Non-flammable, non-toxic gases 2.3 Toxic gases 3 Flammable liquids 4.1 Flammable solids , self-reactive substances and solid desensitized explosives 4.2 Substances liable to spontaneous combustion 4.3 Substances which, in contact with water, emit flammable gases 5.1 Oxidizing substances 5.2 Organic peroxides 6.1 Toxic substances 6.2 Infectious substances 7A Radioactive material, category I 7B Radioactive material, category II 7C Radioactive material, category III 7D (obsolete) should be used for general information about class 7 7E Fissile radioactive material 8 Corrosive substances 9 Miscellaneous dangerous substances and articles
	.../DangerousGoodsDetails/DangerousGoodsIndication/RID_Class Type: restriction of xs:string [0..1] Annotation: The Class of the dangerous good according to the RID chapter 3.2, table A, column 3a.
	.../DangerousGoodsDetails/DangerousGoodsIndication/PackingGroup Type: restriction of xs:token [0..1] 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 <=1000L", "EMPTY IBC" or "EMPTY LARGE PACKAGING". I High danger The description of the codes is taken from: RID chapter 3.2, table A, column 4 II Medium danger III Low danger
	.../DangerousGoodsDetails/DangerousGoodsIndication/DangerousGoodsWeight Type: WeightValueKilo [0..1] Annotation: The weight of dangerous goods in kilograms
	.../DangerousGoodsDetails/DangerousGoodsIndication/DangerousGoodsVolume Type: VolumeValue [0..1] Annotation: The volume of the dangerous goods in cubic meters
	.../DangerousGoodsDetails/DangerousGoodsIndication/LimitedQuantityIndicator Type: xs:boolean Annotation: Indicator for labelled dangerous goods in limited quantity according to chapter 3.-4 RID
	.../WagonOperationalData/DangerousGoodsDetails/WeightOfDangerousGoods Type: restriction of xs:decimal [0..1]

		Annotation: Requested by RID specification, weight in kilograms
		.../WagonData/WagonOperationalData/InfoOnGoodsShapeTypeDanger Type: restriction of xs:token [0..9] Annotation: Additional codified information on the load. Coding Structures as defined in 404-2 chapter 4.1 Codes to add are given in the table below: 96 Environmentally hazardous substance (RID 5.2.1.8) 97 More than 8 tons of dangerous goods packaged in limited quantities (LQ) The following documentation serves for the existing codes: 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 - spontaneoulsy 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 dangerouse substance and objects not covered by the other classes 98 Livestock 99 Perishables
		.../WagonData/WagonOperationalData/RestrictionsDueToLoadOrDamage Type: RestrictionCodes [0..9] 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)
		.../WagonData/WagonOperationalData/TotalLoadWeight Type: WeightValueKilo [0..1] 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
		.../TrainCompositionJourneySection/WagonData/WagonTechData Type: restriction of xs:anyType Annotation: This element shows the wagon relevant technical data for the wagons within a running train
core.constant(25)	*direct* Annotation: ! This information is not in 616 XML Да, отсутствует / Yes, it is missing there	.../WagonData/WagonTechData/LengthOverBuffers Type: restriction of xs:integer Annotation: Length over buffers is expressed in cm.
.../TRAIN/WAGON/@number_of_axles Type: xs:byte	*direct*	.../WagonData/WagonTechData/WagonNumberOfAxles Type: Annotation: Number of Axels for a wagon
		.../WagonData/WagonTechData/AirBrakeType Type: [0..1] Annotation: Classification of air brake. additional code: 8 No air brake or brake pipe The code is defined in UIC Leaflet 920-13.

	.../WagonData/WagonTechData/BrakingPowerVariationDevice Type: [0..1] Annotation: Coding in 404-2, chapter 1.8
	.../WagonData/WagonTechData/AirBrakeSpecialCharacteristic Type: restriction of xs:integer [0..1] Annotation: Coding in 404-2, chapter 1.8
	.../WagonData/WagonTechData/HandBrakeType Type: [0..1] Annotation: Classification of hand brake: 0 No hand brake 1 Ground-operated hand brake 2 Platform-operated hand brake
	.../WagonData/WagonTechData/HandBrakeBrakedWeight Type: restriction of xs:integer [0..1] Annotation: Coding in 404-2, chapter 1.7
	.../WagonData/WagonTechData/NormalLoadingGauge Type: restriction of xs:token [0..1] Annotation: Wagon or load gauge code used in UK, coded in UIC 505-1 and 503: 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. Candidate: G1, G2, GA, GB, GC, CM, CE, M2, M3, M4, GB1, GB2, GB-M6, GHE16, W6-A. Lately added: 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')
.../TRAIN/WAGON/@tare Type: xs:short — *direct*	.../WagonData/WagonTechData/WagonWeightEmpty Type: WeightValueKilo Annotation: The weight of an empty wagon according to the entry in the rolling stock database
	.../WagonData/WagonTechData/TechnicalRestrictions Type: Numeric2-2 [0..6]

Remaining components

core.value-map (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)
From	**To**
616	3003

lang.left (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) number (core.constant.5)	result (taf_cat_complete.LocationPrimaryCode)

core.value-map (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)

From	To
22	UA
20	RU
51	PL

lang.left (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) number (core.constant.5)	result (taf_cat_complete.LocationPrimaryCode)

core.value-map (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)
From	**To**
22	UA
20	RU
51	PL
2153	RO

core.sum (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) values (core.add.result)	result (taf_cat_complete.TrainWeight)

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

Constants

core.constant (-> taf_cat_complete)	
Value	1

core.constant (-> taf_cat_complete)	
Value	1151

core.constant (-> taf_cat_complete)	
Value	0022

core.constant (-> taf_cat_complete)	
Value	

core.constant (-> lang.left)

Value	5

core.constant (-> lang.left)	
Value	5

core.constant (-> taf_cat_complete)	
Value	0

core.constant (-> taf_cat_complete)	
Value	2

core.constant (-> taf_cat_complete)	
Value	25

core.constant (-> taf_cat_complete)	
Value	675

Mapping documentation generated by **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	**ASOUP 205 to TAF TrainReadyMessage.mfd**
Дата окончательного сопоставления / Date of the final mapping	23/03/2021
Описание данных	Инфорормационные Технологии на железнодорожном транспорте АСОУП 1_1382097675.pdf
Data descriptions	Инфорормационные Технологии на железнодорожном транспорте АСОУП 1_1382097675.pdf

Output **taf_cat_complete** (..\taf_cat_complete.xsd)

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

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

		TrainReadyMessage/OperationalTrainNumberIdentifier/ScheduledTimeAtHandover Type: xs:dateTime [0..1] Annotation: The scheduled departure date and time or the scheduled handover date and time at the border between two different IMs.
		TrainReadyMessage/OperationalTrainNumberIdentifier/ScheduledDateTimeAtTransfer Type: xs:dateTime [0..1] 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 Type: restriction of xs:anyType [0..1]
		TrainReadyMessage/ResponsibleRU Type: CompanyCode [0..1] Annotation: RU Responsible for the physical operation of the train or wagon
.../205 - готовность поезда/Rows 1(h), n=2/S Type: string Annotation: Фамилия машиниста	*direct*	TrainReadyMessage/TrainContactDetails Type: CommunicationRefID [0..1] 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 Type: LocationIdent [0..1] Annotation: Handover, Interchange, Handling and Reporting point: if needed, track could be identify directly via subsidiar code
core.constant("RU")	*direct* Annotation: ! Update from CSZT database needed !	TrainReadyMessage/TrainLocation/CountryCodeISO Type: extension of CountryIdentISO Annotation: Identifies a County or State by code (ISO 3166-1)
.../205 - готовность поезда/Rows 1(h), n=2/C Type: string Annotation: Код пункта передачи	*direct*	TrainReadyMessage/TrainLocation/LocationPrimaryCode Type: Numeric1-5
core.constant("Хабаровск")	*direct* Annotation: ! Update from CSZT database needed !	TrainReadyMessage/TrainLocation/PrimaryLocationName Type: FreeText [0..1] Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet
		TrainReadyMessage/TrainLocation/LocationSubsidiaryIdentification Type: restriction of xs:anyType [0..1] Annotation: Code, Name and allocation company of Subsidiary Location
		.../TrainLocation/LocationSubsidiaryIdentification/LocationSubsidiaryCode Type: extension of String1-10 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 Type: CompanyCode Annotation: Name of company who is responsible for allocation and maintenance of codes
		.../TrainLocation/LocationSubsidiaryIdentification/LocationSubsidiaryName Type: FreeText [0..1] Annotation: To be completed in an official language of the Country using the ISO Unicode alphabet
		TrainReadyMessage/TrainReadyStatus Type: restriction of xs:anyType [0..1]
		TrainReadyMessage/TrainReadyStatus/TrainReady Type: restriction of xs:integer Annotation: 0=Not Ready 1=Ready
		TrainReadyMessage/TrainReadyStatus/TrainDelay Type: restriction of xs:anyType [0..1] Annotation: Identifies the Delta delay time of a train against the booked schedule as well as against the referenced time
		.../TrainReadyStatus/TrainDelay/AgainstBooked Type: DeltaTime [0..1] Annotation: Identifies the Delta delay time against the booked schedule in minutes

			.../TrainReadyStatus/TrainDelay/AgainstReferenced Type: DeltaTime [0..1] Annotation: Delay compared to the referenced Date/Time
			TrainReadyMessage/TrainReadyStatus/DelayCause Type: DelayCode [0..1] Annotation: This element identifies the reason for a delay (modified DelayReason)
			TrainReadyMessage/TransferPoint Type: LocationIdent [0..1] Annotation: Transfer point or station of destination in the considered network
core.constant("RU")	*direct* Annotation: ! Update from CSZT database needed !		TrainReadyMessage/TransferPoint/CountryCodeISO Type: extension of CountryIdentISO Annotation: Identifies a County or State by code (ISO 3166-1)
.../205 - готовность поезда/Rows 1(h), n=2/H Type: string Annotation: Ст. Назначения - (Маха-лино)	*direct*		TrainReadyMessage/TransferPoint/LocationPrimaryCode Type: Numeric1-5
core.constant("Октябрьская")	*direct* Annotation: ! Update from CSZT database needed !		TrainReadyMessage/TransferPoint/PrimaryLocationName Type: FreeText [0..1] Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet
			TrainReadyMessage/TransferPoint/LocationSubsidiaryIdentification Type: restriction of xs:anyType [0..1] Annotation: Code, Name and allocation company of Subsidiary Location
			.../TransferPoint/LocationSubsidiaryIdentification/LocationSubsidiaryCode Type: extension of String1-10 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 Type: CompanyCode Annotation: Name of company who is responsible for allocation and maintenance of codes
			.../TransferPoint/LocationSubsidiaryIdentification/LocationSubsidiaryName Type: FreeText [0..1] Annotation: To be completed in an official language of the Country using the ISO Unicode alphabet
			TrainReadyMessage/TransfereeIM Type: CompanyCode [0..1] Annotation: Next IM
			TrainReadyMessage/TrainStartTime Type: xs:dateTime [0..1] Annotation: The Date and Time at which the tain actually started the journey
.../205 - готовность поезда/Rows 1(h), n=2/I Type: string Annotation: число	**core.concat** => value5 | result =>		TrainReadyMessage/TrainReadyTime Type: xs:dateTime [0..1] 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.
.../205 - готовность поезда/Rows 1(h), n=2/J Type: string Annotation: месяц	**core.concat** => value3 | result =>		
.../205 - готовность поезда/Rows 1(h), n=2/K Type: string Annotation: час	**core.concat** => value7 | result =>		
.../205 - готовность поезда/Rows 1(h), n=2/L Type: string	**core.concat** => value9 | result =>		

Annotation: мин.		
core.constant("2020")	**core.concat** => value1 | result =>	
core.constant("-")	**core.concat** => value4 | result => **core.concat** => value2 | result =>	
core.constant("T")	**core.concat** => value6 | result =>	
core.constant(":")	**core.concat** => value8 | result =>	
core.constant(":00")	**core.concat** => value10 | result =>	

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 он train movement to the TAF TSI XML “TrainRunningMessage”

Ссылки / References :

Внутренняя ссылка ЕЖДА файла сопоставления / Internal ERA reference of the mapping file	**ASOUP 4470 to TAF TrainRunningInformation.mfd**
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) . Порядок заполнения сообщение 5311
Data descriptions	INSTRUCTION for registration of transfer trains and messages 4770 “Information on vehicles and goods in trains”. Version 01 (08.2009). Filling order – message 5311

Output **taf_cat_complete** (..\taf_cat_complete.xsd)

Connections		Nodes
		File: taf_cat_complete.xml Type: string
		TrainRunningInformationMessage Type: restriction of xs:anyType [0..1] Annotation: This message is issued upon 1) Arrrival, 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 Type: restriction of xs:anyType Annotation: Used for all messages
		TrainRunningInformationMessage/MessageHeader/MessageReference Type: restriction of xs:anyType Annotation: This element identifies the message
Header/MessageType Type: xs:short [2..2]	**lang.right** => string | result => **core.value-map** => input | result =>	.../MessageHeader/MessageReference/MessageType Type: restriction of xs:integer Annotation: To indicate the message type transmitted or referred to. The following list was agreed within the sector: 2001 PathCanceledMessage 2002 PathConfirmedMessage 2003 PathDetailsMessage 2004 PathDetailsRefusedMessage 2005 PathNotAvailableMessage 2006 PathRequestMessage 2007 ReceiptConfirmationMessage 3001 TrainAcceptedMessage
core.constant("4")	**lang.right** => number | result => **core.value-map** => input | result =>	

		3002 TrainAtStartMessage 3003 TrainCompositionMessage 3004 TrainNotSuitableMessage 3005 TrainPositionMessage 3006 TrainReadyMessage 4001 TrainDelayCauseMessage 4002 TrainDelayPerformanceMessage 4003 TrainForecastAtReportingLocationMessage 4004 TrainRunningForecastMessage 4005 TrainRunningInformationMessage 4006 TrainRunningInterruptionMessage 5001 AlertMessage 5002 WagonArrivalNoticeMessage 5003 WagonDeliveryNoticeMessage 5004 WagonDepartureNoticeMessage 5005 WagonDeviationMessage 5006 WagonETI_ETA_Message 5007 WagonExceptionMessage 5008 WagonExceptionReasonMessage 5009 WagonInterchangeNoticeMessage 5010 WagonInterchangeSubNoticeMessage 5011 WagonOrderMessage 5012 WagonReceivedAtInterchangeMessage 5013 WagonRefusedAtInterchangeMessage 5014 WagonReleaseNoticeMessage 5015 WagonYardArrivalMessage 5016 WagonYardDepartureMessage 6001 IRN_DatasetMessage 6002 LocationFileDatasetMessage 6003 RollingStockDatasetMessage
Header/Version Type: xs:string	*direct*	.../MessageHeader/MessageReference/MessageTypeVersion Type: restriction of xs:string Annotation: Version of the Message Type
Header/Counter Type: xs:short	*direct*	.../MessageHeader/MessageReference/MessageIdentifier Type: FreeText Annotation: Identification of the Message
Header/TrainListAgreementDay Type: xs:byte	Annotation : ! message year cannot be retrieved from ASOUP **core.concat =>** value5 | result => Annotation : ! message year cannot be retrieved from ASOUP	.../MessageHeader/MessageReference/MessageDateTime Type: xs:dateTime Annotation: Generated by the common Interface
Header/TrainListAgreementMonth Type: xs:byte	Annotation : ! message year cannot be retrieved from ASOUP **core.concat =>** value3 | result => Annotation : ! message	

	year cannot be retrieved from ASOUP	
Header/TrainListAgreementHour Type: xs:byte	Annotation : ! message year cannot be retrieved from ASOUP **core.concat** => value7	result => Annotation : ! message year cannot be retrieved from ASOUP	
Header/TrainListAgreementMinute Type: xs:byte	Annotation : ! message year cannot be retrieved from ASOUP **core.concat** => value9	result => Annotation : ! message year cannot be retrieved from ASOUP	
core.constant("2020")	Annotation : ! message year cannot be retrieved from ASOUP **core.concat** => value1	result => Annotation : ! message year cannot be retrieved from ASOUP	
core.constant("-0")	Annotation : ! message year cannot be retrieved from	

	ASOUP **core.concat** => value4 | result => Annotation : ! message year cannot be retrieved from ASOUP **core.concat** => value2 | result => Annotation : ! message year cannot be retrieved from ASOUP	
core.constant("T0")	Annotation : ! message year cannot be retrieved from ASOUP **core.concat** => value6 | result => Annotation : ! message year cannot be retrieved from ASOUP	
core.constant(":")	Annotation : ! message year cannot be retrieved from ASOUP **core.concat** => value8 | result => Annotation : ! message year cannot be retrieved from ASOUP	
core.constant(":00")	Annotation : ! message year cannot be retrieved from	

	ASOUP **core.concat =>** value10 | result => Annotation : ! message year cannot be retrieved from ASOUP	
		TrainRunningInformationMessage/MessageHeader/MessageRoutingID Type: Numeric2-2 [0..1] Annotation: Additional information used to route the message to the correct recieving application (if needed)
		TrainRunningInformationMessage/MessageHeader/SenderReference Type: FreeText [0..1] Annotation: reference used by the sender (e.g. FTP file name)
core.constant("0020")	*direct* Annotation: ! Can it be derived from "Ю3 Информация об отправке" > "Страна отправления груза" : 643 ?	TrainRunningInformationMessage/MessageHeader/Sender Type: extension of CompanyCode Annotation: The sender of the message
		.../MessageHeader/Sender/@CI_InstanceNumber Type: Numeric2-2 [0..1] Annotation: Number of a Common Interface Instance for the same Company
core.constant("0025")	*direct* Annotation: ! Can it be derived from "Ю3 Информация об отправке" > "Страна отправления груза" : 440 ?	TrainRunningInformationMessage/MessageHeader/Recipient Type: extension of CompanyCode Annotation: Receiver of the message
		.../MessageHeader/Recipient/@CI_InstanceNumber Type: Numeric2-2 [0..1] Annotation: Number of a Common Interface Instance for the same Company
core.constant(1)	*direct* Annotation: ! Can be derived from "Признак отладки" in ASOUP	TrainRunningInformationMessage/MessageStatus Type: Annotation: Assigned by the Sender 1=creation, 2=modification, 3=deletion
		TrainRunningInformationMessage/TrainOperationalIdentification Type: restriction of xs:anyType [0..1]
		TrainRunningInformationMessage/TrainOperationalIdentification/TransportOperationalIdentifiers Type: extension of CompositIdentifierOperationalType [1..∞]
		.../TrainOperationalIdentification/TransportOperationalIdentifiers/ObjectType Type: restriction of xs:string Annotation: Provides a possibility for differentiantion between the objects: Train, Path, Case Reference and Path Request
		.../TrainOperationalIdentification/TransportOperationalIdentifiers/Company Type: CompanyCode Annotation: Identifies a railway company (RU or IM)
		.../TrainOperationalIdentification/TransportOperationalIdentifiers/Core Type: restriction of xs:string Annotation: It is the main part of identifier and is determent by the company that creates it.
		.../TrainOperationalIdentification/TransportOperationalIdentifiers/Variant Type: restriction of xs:string Annotation: The variant shows a relationship between two identifiers referring to the same business case

		.../TrainOperationalIdentification/TransportOperationalIdentifiers/TimetableYear Type: restriction of xs:integer Annotation: Refers to the timetable period in which the business will be carried out
		.../TrainOperationalIdentification/TransportOperationalIdentifiers/StartDate Type: xs:date Annotation: The start of the date/time in effect
		TrainRunningInformationMessage/OperationalTrainNumberIdentifier Type: restriction of xs:anyType
Header/TrainNumber Type: xs:short	*direct*	TrainRunningInformationMessage/OperationalTrainNumberIdentifier/OperationalTrainNumber Type: String1-8 Annotation: Identifies the train for traffic management purposes by the Dispatcher, GSMR services, etc.
		TrainRunningInformationMessage/OperationalTrainNumberIdentifier/ScheduledTimeAtHandover Type: xs:dateTime [0..1] Annotation: The scheduled departure date and time or the scheduled handover date and time at the border between two different IMs.
		TrainRunningInformationMessage/OperationalTrainNumberIdentifier/ScheduledDateTimeAtTransfer Type: xs:dateTime [0..1] 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 Type: restriction of xs:anyType [0..1]
		TrainRunningInformationMessage/ResponsibleRU Type: CompanyCode [0..1] Annotation: RU Responsible for the physical operation of the train or wagon
		TrainRunningInformationMessage/TrainLocationReport Type: restriction of xs:anyType Annotation: Specifies the relevant running data of a train related to a specific location
		TrainRunningInformationMessage/TrainLocationReport/Location Type: LocationIdent Annotation: Identifies a Location using a LocationIdent
core.constant("RU")	*direct* Annotation: ! Country Code cannot be retrieved from ASOUP (can it be derived from КЖА 1003 05 ?)	.../TrainLocationReport/Location/CountryCodeISO Type: extension of CountryIdentISO Annotation: Identifies a County or State by code (ISO 3166-1)
Header/ArrivalStationCode Type: xs:int	Annotation: ! Maybe "Пограничная станция дороги приема" instead of "Станция приема" would be better ? **lang.left** => string	result => Annotation: ! Maybe "Пограничная станция дороги приема" instead of "Станция приема" would be better ?	.../TrainLocationReport/Location/LocationPrimaryCode Type: Numeric1-5
core.constant(5)	Annotation: ! Maybe "Пограничная станция	

	дороги приема" instead of "Станция приема" would be better ? **lang.left =>** number | result => Annotation: ! Maybe "Пограничная станция дороги приема" instead of "Станция приема" would be better ?	
		.../TrainLocationReport/Location/PrimaryLocationName Type: FreeText [0..1] Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet
		.../TrainLocationReport/Location/LocationSubsidiaryIdentification Type: restriction of xs:anyType [0..1] Annotation: Code, Name and allocation company of Subsidiary Location
		.../Location/LocationSubsidiaryIdentification/LocationSubsidiaryCode Type: extension of String1-10 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 Type: CompanyCode Annotation: Name of company who is responsible for allocation and maintenance of codes
		.../Location/LocationSubsidiaryIdentification/LocationSubsidiaryName Type: FreeText [0..1] Annotation: To be completed in an official language of the Country using the ISO Unicode alphabet
Header/TrainHandoverDay Type: xs:byte	Annotation: ! message year cannot be retrieved from ASOUP **core.concat => value5 | result =>** Annotation: ! message year cannot be retrieved from ASOUP	TrainRunningInformationMessage/TrainLocationReport/LocationDateTime Type: xs:dateTime Annotation: Identifies the actual or forecasted Date / Time at a specific reporting point
Header/TrainHandoverMonth Type: xs:byte	Annotation: ! message year cannot be retrieved from ASOUP **core.concat => value3 | result =>** Annotation: ! message year cannot be retrieved from ASOUP	

Header/TrainHandoverHour Type: xs:byte	Annotation: ! message year cannot be retrieved from ASOUP **core.concat** => value7 | result => Annotation: ! message year cannot be retrieved from ASOUP	
Header/TrainHandoverMinute Type: xs:byte	Annotation: ! message year cannot be retrieved from ASOUP **core.concat** => value9 | result => Annotation: ! message year cannot be retrieved from ASOUP	
core.constant("2020")	Annotation: ! message year cannot be retrieved from ASOUP **core.concat** => value1 | result => Annotation: ! message year cannot be retrieved from ASOUP	
core.constant("-0")	Annotation: ! message year cannot be retrieved from ASOUP **core.concat** => value2 | result => Annotation: ! message year cannot be retrieved from ASOUP	
core.constant("-")	Annotation: ! message year cannot be retrieved from ASOUP **core.concat** => value4 | result => Annotation:	

	! message year cannot be retrieved from ASOUP	
core.constant("T0")	Annotation: ! message year cannot be retrieved from ASOUP **core.concat => value6 | result =>** Annotation: ! message year cannot be retrieved from ASOUP	
core.constant(":")	Annotation: ! message year cannot be retrieved from ASOUP **core.concat => value8 | result =>** Annotation: ! message year cannot be retrieved from ASOUP	
core.constant(":00")	Annotation: ! message year cannot be retrieved from ASOUP **core.concat => value10 | result =>** Annotation: ! message year cannot be retrieved from ASOUP	
core.constant("01")	*direct* Annotation: ! Can be derived if ASOUP is 4470(2) or 4470(6) message type	TrainRunningInformationMessage/TrainLocationReport/TrainLocationStatus Type: RunningStatus Annotation: Identifies the status of a train related to the actual time at a reporting point
		TrainRunningInformationMessage/TrainLocationReport/BookedLocationDateTime Type: xs:dateTime [0..1] Annotation: Scheduled Date and Time of a train at a speciied location as defined in the path contract
		TrainRunningInformationMessage/TrainLocationReport/ReferencedLocationDateTime Type: xs:dateTime [0..1] Annotation: Reference to original planned Date and Time agreed by all involved IMs and RUs.
		TrainRunningInformationMessage/TrainLocationReport/TrainDelay Type: restriction of xs:anyType [0..1] Annotation: Identifies the Delta delay time of a train against the booked schedule as well as against the referenced time

	.../TrainLocationReport/TrainDelay/AgainstBooked Type: DeltaTime [0..1] Annotation: Identifies the Delta delay time against the booked schedule in minutes
	.../TrainLocationReport/TrainDelay/AgainstReferenced Type: DeltaTime [0..1] Annotation: Delay compared to the referenced Date/Time
	TrainRunningInformationMessage/TransferPoint Type: LocationIdent [0..1] Annotation: Transfer point or station of destination in the considered network
	TrainRunningInformationMessage/TransferPoint/CountryCodeISO Type: extension of CountryIdentISO Annotation: Identifies a County or State by code (ISO 3166-1)
	TrainRunningInformationMessage/TransferPoint/LocationPrimaryCode Type: Numeric1-5
	TrainRunningInformationMessage/TransferPoint/PrimaryLocationName Type: FreeText [0..1] Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet
	TrainRunningInformationMessage/TransferPoint/LocationSubsidiaryIdentification Type: restriction of xs:anyType [0..1] Annotation: Code, Name and allocation company of Subsidiary Location
	.../TransferPoint/LocationSubsidiaryIdentification/LocationSubsidiaryCode Type: extension of String1-10 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 Type: CompanyCode Annotation: Name of company who is responsible for allocation and maintenance of codes
	.../TransferPoint/LocationSubsidiaryIdentification/LocationSubsidiaryName Type: FreeText [0..1] Annotation: To be completed in an official language of the Country using the ISO Unicode alphabet
	TrainRunningInformationMessage/TransfereeIM Type: CompanyCode [0..1] Annotation: Next IM

Remaining components

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

core.value-map (lang.right -> taf_cat_complete)	
input (lang.right.result)	result (taf_cat_complete.MessageType)
From	**To**
4770	4005

core.concat (core.constant, core.constant, SLUZHEBNYI_BLOK_08003756.v92, core.constant, core.constant, core.constant -> taf_cat_complete)	
value1 (core.constant."2020") value2 (core.constant."-0") value3 (SLUZHEBNYI_BLOK_08003756.v92.TrainListAgreementMonth) value4 (core.constant."-0") value5 (SLUZHEBNYI_BLOK_08003756.v92.TrainListAgreementDay) value6 (core.constant."T0")	result (taf_cat_complete.MessageDateTime)

value7 (SLUZHEBNYI_BLOK_08003756.v92.TrainListAgreementHour) value8 (core.constant.":") value9 (SLUZHEBNYI_BLOK_08003756.v92.TrainListAgreementMinute) value10 (core.constant.":00")	

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

core.concat (core.constant, core.constant, SLUZHEBNYI_BLOK_08003756.v92, core.constant, core.constant, core.constant, core.constant -> taf_cat_complete)	
value1 (core.constant."2020") value2 (core.constant."-0") value3 (SLUZHEBNYI_BLOK_08003756.v92.TrainHandoverMonth) value4 (core.constant."-") value5 (SLUZHEBNYI_BLOK_08003756.v92.TrainHandoverDay) value6 (core.constant."T0") value7 (SLUZHEBNYI_BLOK_08003756.v92.TrainHandoverHour) value8 (core.constant.":") value9 (SLUZHEBNYI_BLOK_08003756.v92.TrainHandoverMinute) value10 (core.constant.":00")	result (taf_cat_complete.LocationDateTime)

Constants

core.constant (-> lang.right)	
Value	4

core.constant (-> taf_cat_complete)	
Value	0020

core.constant (-> core.concat)	
Value	2020

core.constant (-> core.concat)	
Value	-0

core.constant (-> taf_cat_complete)	
Value	0025

core.constant (-> core.concat)	
Value	T0

core.constant (-> taf_cat_complete)	
Value	1

core.constant (-> core.concat)	
Value	:

core.constant (-> core.concat)	
Value	:00

core.constant (-> taf_cat_complete)	
Value	RU

core.constant (-> lang.left)	
Value	5

core.constant (-> core.concat)	
Value	2020

core.constant (-> core.concat)	
Value	-0

core.constant (-> core.concat)	
Value	-

core.constant (-> core.concat)	
Value	T0

core.constant (-> core.concat)	
Value	:

core.constant (-> core.concat)	
Value	:00

core.constant (-> 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	**ASOUP 201 to TAF TrainRunningMessage Arrival.mfd**
Дата окончательного сопоставления / Date of the final mapping	25/02/2021
Описания данных	Инфорормационные Технологии на железнодорожном транспорте АСОУП 1_1382097675.pdf
Data descriptions	Инфорормационные Технологии на железнодорожном транспорте АСОУП 1_1382097675.pdf

Output **taf_cat_complete** (..\taf_cat_complete.xsd)**Connections**		**Nodes**
		File: taf_cat_complete.xml Type: string
		TrainRunningInformationMessage Type: restriction of xs:anyType [0..1] Annotation: This message is issued upon 1) Arrrival, 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 Type: restriction of xs:anyType Annotation: Used for all messages
		TrainRunningInformationMessage/MessageHeader/MessageReference Type: restriction of xs:anyType Annotation: This element identifies the message
.../201 - приб поезда на станцию/Rows 1(h), n=2/B Type: string Annotation: Код ссобщения	**core.value-map** => input | result =>	.../MessageHeader/MessageReference/MessageType Type: restriction of xs:integer Annotation: To indicate the message type transmitted or referred to. The following list was agreed within the sector: 2001 PathCanceledMessage 2002 PathConfirmedMessage 2003 PathDetailsMessage 2004 PathDetailsRefusedMessage 2005 PathNotAvailableMessage 2006 PathRequestMessage 2007 ReceiptConfirmationMessage 3001 TrainAcceptedMessage 3002 TrainAtStartMessage 3003 TrainCompositionMessage 3004 TrainNotSuitableMessage 3005 TrainPositionMessage 3006 TrainReadyMessage 4001 TrainDelayCauseMessage

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

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

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

	core.concat => value8 | result => Annotation: ! Year value missing !	
core.constant(":00")	Annotation: ! Year value missing ! **core.concat** => value10 | result => Annotation: ! Year value missing !	
.../201 - приб поезда на станцию/Rows 1(h), n=2/B Type: string Annotation: Код ссобщения	**core.value-map** => input | result =>	TrainRunningInformationMessage/TrainLocationReport/TrainLocationStatus Type: RunningStatus Annotation: Identifies the status of a train related to the actual time at a reporting point
		TrainRunningInformationMessage/TrainLocationReport/BookedLocationDateTime Type: xs:dateTime [0..1] Annotation: Scheduled Date and Time of a train at a speciied location as defined in the path contract
		TrainRunningInformationMessage/TrainLocationReport/ReferencedLocationDateTime Type: xs:dateTime [0..1] Annotation: Reference to original planned Date and Time agreed by all involved IMs and RUs.
		TrainRunningInformationMessage/TrainLocationReport/TrainDelay Type: restriction of xs:anyType [0..1] Annotation: Identifies the Delta delay time of a train against the booked schedule as well as against the referenced time
		TrainRunningInformationMessage/TransferPoint Type: LocationIdent [0..1] Annotation: Transfer point or station of destination in the considered network
		TrainRunningInformationMessage/TransfereeIM Type: CompanyCode [0..1] 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	**ASOUP 1397 to TAF WagonYardArrivalMessage.mfd**
Дата окончательного сопоставления / Date of the final mapping	26/02/2021
Описания данных	Инфорормационные Технологии на железнодорожном транспорте АСОУП 1_1382097675.pdf
Data descriptions	Инфорормационные Технологии на железнодорожном транспорте АСОУП 1_1382097675.pdf

Output **taf_cat_complete** (..\taf_cat_complete.xsd)

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

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

		WagonYardArrivalMessage/YardArrival/Location Type: LocationIdent Annotation: Identifies a Location using a LocationIdent
core.constant("RU")	*direct* Annotation: ! Must be derived from CSZT database !	.../YardArrival/Location/CountryCodeISO Type: extension of CountryIdentISO Annotation: Identifies a County or State by code (ISO 3166-1)
.../1397 - прием вагона/Rows 1(h), n=2/C Type: string Annotation: Код пункта передачи (Сар-анск)	*direct*	.../YardArrival/Location/LocationPrimaryCode Type: Numeric1-5
core.constant("Саранск")	*direct* Annotation: ! Must be derived from CSZT database !	.../YardArrival/Location/PrimaryLocationName Type: FreeText [0..1] Annotation: Location Name in an offication language of the Country using the ISO Unicode alphabet
		.../YardArrival/Location/LocationSubsidiaryIdentification Type: restriction of xs:anyType [0..1] Annotation: Code, Name and allocation company of Subsidiary Location
		.../Location/LocationSubsidiaryIdentification/LocationSubsidiaryCode Type: extension of String1-10 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 Type: CompanyCode Annotation: Name of company who is responsible for allocation and maintenance of codes
		.../Location/LocationSubsidiaryIdentification/LocationSubsidiaryName Type: FreeText [0..1] Annotation: To be completed in an official language of the Country using the ISO Unicode alphabet
.../1397 - прием вагона/Rows 1(h), n=2/G Type: string Annotation: число	Annotation: ! Year value missing ! **core.concat** => value5 | result => Annotation: ! Year value missing !	WagonYardArrivalMessage/YardArrival/ArrivalTimeAtLocationActual Type: xs:dateTime Annotation: The actual arrival date and time at the defined location
.../1397 - прием вагона/Rows 1(h), n=2/H Type: string Annotation: месяц	Annotation: ! Year value missing ! **core.concat** => value3 | result => Annotation: ! Year value missing !	
.../1397 - прием вагона/Rows 1(h), n=2/I Type: string Annotation: час	Annotation: ! Year value missing ! **core.concat** => value7 | result => Annotation: ! Year value missing !	
.../1397 - прием вагона/Rows 1(h), n=2/J Type: string Annotation: мин.	Annotation: ! Year value missing ! **core.concat** => value9 | result => Annotation: ! Year value missing !	
core.constant("2020")	Annotation: ! Year value missing ! **core.concat** => value1 | result => Annotation: ! Year value missing !	
core.constant("-")	Annotation: ! Year value missing !	

	core.concat => value4 | result => Annotation: ! Year value missing ! **core.concat** => value2 | result => Annotation: ! Year value missing !	
core.constant("T")	Annotation: ! Year value missing ! **core.concat** => value6 | result => Annotation: ! Year value missing !	
core.constant(":")	Annotation: ! Year value missing ! **core.concat** => value8 | result => Annotation: ! Year value missing !	
core.constant(":00")	Annotation: ! Year value missing ! **core.concat** => value10 | result => Annotation: ! Year value missing !	

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	**ASOUP 1397 to TAF WagonYardDepartureMessage.mfd**
Дата окончательного сопоставления / Date of the final mapping	26/02/2021
Описания данных	Инфорормационные Технологии на железнодорожном транспорте АСОУП 1_1382097675.pdf
Data descriptions	Инфорормационные Технологии на железнодорожном транспорте АСОУП 1_1382097675.pdf

Output **taf_cat_complete** (..\taf_cat_complete.xsd)

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

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

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

	! Year value missing !	
core.constant(":")	Annotation: ! Year value missing ! **core.concat** => value8 | result => Annotation: ! Year value missing !	
core.constant(":00")	Annotation: ! Year value missing ! **core.concat** => value10 | result => Annotation: ! 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	**ASOUP2RSRD.mfd**
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 Type: string
	RollingStockDatasetMessage Type: restriction of xs:anyType [0..1] Annotation: Rolling Stock adminsitrative and Technical Dataset
	RollingStockDatasetMessage/MessageHeader Type: restriction of xs:anyType Annotation: Used for all messages
	RollingStockDatasetMessage/MessageHeader/MessageReference Type: restriction of xs:anyType Annotation: This element identifies the message
core.constant("6004") | *direct*	.../MessageHeader/MessageReference/MessageType Type: restriction of xs:string Annotation: To indicate the message type transmitted or referred to. The following list was agreed within the sector: 1000 ConsignmentOrderMessage 2001 PathCanceledMessage 2002 PathConfirmedMessage 2003 PathDetailsMessage 2004 PathDetailsRefusedMessage 2005 PathNotAvailableMessage

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

		Annotation: The sender of the message
		.../MessageHeader/Sender/@CI_InstanceNumber Type: Numeric2-2 [0..1] Annotation: Number of a Common Interface Instance for the same Company
		RollingStockDatasetMessage/MessageHeader/MessageDateTimeCreated Type: xs:dateTime [0..1] Annotation: Date and time when the message was created by the legacy system
		RollingStockDatasetMessage/MessageHeader/Recipient Type: extension of CompanyCode Annotation: Receiver of the message
		.../MessageHeader/Recipient/@CI_InstanceNumber Type: Numeric2-2 [0..1] Annotation: Number of a Common Interface Instance for the same Company
Workbook/Техн характ гориз/Rows 1(h), n=dyn Type:	*direct*	RollingStockDatasetMessage/RollingStockDataset Type: restriction of xs:anyType [0..∞] Annotation: Rolling Stock adminsitrative and Technical Dataset
		RollingStockDatasetMessage/RollingStockDataset/AdministrativeDataSet Type: restriction of xs:anyType
.../Техн характ гориз/Rows 1(h), n=dyn/B Type: string Annotation: ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ ВАГОНА	*direct* Annotation: ! Conversion problem 8N > 12 N ! see chapter **Error! Reference source not found.**	.../RollingStockDataset/AdministrativeDataSet/WagonNumberFreight Type: WagonIdent Annotation: Identifies uniquely the freight wagon by its number
.../Техн характ гориз/Rows 1(h), n=dyn/BG Type: string Annotation: СТАРЫЙ НОМЕР ВАГОНА	*direct*	.../RollingStockDataset/AdministrativeDataSet/PreviousWagonNumberFreight Type: WagonIdent [0..1] Annotation: For identification of a wagon after renumbering
.../Техн характ гориз/Rows 1(h), n=dyn/AK Type: string Annotation: СОБСТВЕННИК	*direct*	.../RollingStockDataset/AdministrativeDataSet/RegistrationCountry Type: CountryIdentISO Annotation: ISO country code of registration country
.../Техн характ гориз/Rows 1(h), n=dyn/F Type: string Annotation: ДАТА НАЗНАЧЕНИЯ СОСТОЯНИЯ	*direct*	.../RollingStockDataset/AdministrativeDataSet/DatePutIntoService Type: xs:date Annotation: Original Date of first operation
		.../RollingStockDataset/AdministrativeDataSet/AuthorisationValidUntil Type: xs:date [0..1] Annotation: End date for restricted authorisation (special case)
.../Техн характ гориз/Rows 1(h), n=dyn/AH Type: string Annotation: СРОК СЛУЖБЫ ВАГОНА	**core.value-map** => input | result =>	.../RollingStockDataset/AdministrativeDataSet/SuspensionOfAuthorisation Type: xs:boolean Annotation: Information if authorisation has been suspended by the authority
.../Техн характ гориз/Rows 1(h), n=dyn/Z Type: string Annotation: ДАТА ИСКЛЮЧЕНИЯ	Annotation: ! ASOUP value = НЕ УКАЗАНА ! **core.value-map** => input | result => Annotation: ! ASOUP value = НЕ УКАЗАНА !	.../RollingStockDataset/AdministrativeDataSet/DateSuspensionOfAuthorisation Type: xs:date [0..1] Annotation: Date of the suspension of authorisation; must be provided in case of suspension
		.../RollingStockDataset/AdministrativeDataSet/MultilateralAuthorisationCountries Type: CountryIdentISO [0..∞] Annotation: ISO country code of countries where the wagon is authorised (applies

		only in case of limited interoperability); first entry indicates the initial authorisation country
		.../RollingStockDataset/AdministrativeDataSet/ChannelTunnelPermitted Type: xs:boolean [0..1] 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.
		.../RollingStockDataset/AdministrativeDataSet/QuieterRoutesExemptionCountry Type: CountryIdentISO [0..∞] 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
.../Техн характ гориз/Rows 1(h), n=dyn/AD Type: string Annotation: НАИМЕНОВАНИЕ СОБСТВЕННИКА ВАГОНА	*direct*	.../RollingStockDataset/AdministrativeDataSet/KeeperShortNameVKM Type: restriction of xs:string Annotation: Free text, short name/vehicle keeper marking of the wagon keeper
.../Техн характ гориз/Rows 1(h), n=dyn/T Type: string Annotation: ДЕПО ПОСЛЕДНЕГО ДЕП. РЕМОНТА	*direct* Annotation: ! To check if this is correct !	.../RollingStockDataset/AdministrativeDataSet/ECM Type: restriction of xs:string Annotation: Full name of the assigned Entity in Charge of Maintenance
		.../RollingStockDataset/AdministrativeDataSet/PlannedChangeOfECM Type: restriction of xs:anyType [0..1]
		.../AdministrativeDataSet/PlannedChangeOfECM/CurrentECMAssignedUntil Type: xs:date Annotation: Date until the current Entity in Charge of Maintenance is assigned to the wagon
		.../AdministrativeDataSet/PlannedChangeOfECM/SubsequentECM Type: restriction of xs:string Annotation: Full name of the following Entity in Charge of Maintenance
		.../RollingStockDataset/AdministrativeDataSet/ECMCertificate Type: restriction of xs:anyType Annotation: ECM certificate information
		.../AdministrativeDataSet/ECMCertificate/EINNumber Type: restriction of xs:anyType Annotation: ECM certificate reference number NOTE: this is a placeholder! CR 335 by ERA is containing this element and its full description and code lists.
		.../ECMCertificate/EINNumber/CountryCodeISO Type: extension of CountryIdentISO Annotation: Identifies a County or State by code (ISO 3166-1)
		.../ECMCertificate/EINNumber/TypeDocumentEIN Type: Numeric2-2 Annotation: Code List Candidate: 31, 34
		.../ECMCertificate/EINNumber/CounterAcreditedRecognizedBody Type: Numeric2-2
		.../ECMCertificate/EINNumber/EINYear Type: Numeric2-2
		.../ECMCertificate/EINNumber/EINCounter Type: restriction of xs:integer
.../Техн характ гориз/Rows 1(h), n=dyn/U Type: string Annotation: ДАТА ПОСЛЕДНЕГО ДЕП. РЕМОНТА	*direct* Annotation: ! To check if this is correct !	.../AdministrativeDataSet/ECMCertificate/ECMCertificateValidFrom Type: xs:date Annotation: Certificate valid from date
.../Техн характ гориз/Rows 1(h), n=dyn/K Type: string Annotation: ДАТА СЛЕДУЮЩЕГО ПЛАНОВОГО	*direct*	.../AdministrativeDataSet/ECMCertificate/ECMCertificateValidTo Type: xs:date Annotation: Certificate valid to date

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

		Type: [0..1] Annotation: Diameter of wheels meausured in mm. Reference wheel diameter at maximum.
		.../RollingStockDataset/DesignDataSet/WheelsetGauge Type: [0..∞] Annotation: Track Gauge measured in mm; multi-entry for wagons with changeable wheel set gauge
		.../RollingStockDataset/DesignDataSet/WheelSetTransformationMethod Type: [0..1] Annotation: „Description of the wheel set transformation method for wagons with a changeable wheel set gauge. Code list: 1 = Automatic, 2 = Bogie/axle change
		.../RollingStockDataset/DesignDataSet/NumberOfBogies Type: restriction of xs:int [0..1]
		.../RollingStockDataset/DesignDataSet/BogiePitch Type: restriction of xs:integer [0..1] Annotation: Bogie Wheelbase measured in mm
		.../RollingStockDataset/DesignDataSet/BogiePivotPitch Type: Numeric1-5 [0..1] Annotation: Largest distance between two adjacent bogie pitches in mm
		.../RollingStockDataset/DesignDataSet/InnerWheelbase Type: Numeric1-5 Annotation: Maximum distance between two adjacent axles in mm
		.../RollingStockDataset/DesignDataSet/CouplingType Type: restriction of xs:token [0..1] Annotation: Classification of coupling: 0 = without coupler 1 = non-reinforced coupler less than 85t 2 = reinforced coupler equals to 85t 3 = ultra-reinforced coupler greater than 85t 4 = automatic coupling
		.../RollingStockDataset/DesignDataSet/BufferType Type: restriction of xs:string [0..1] 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 Type: restriction of xs:token [0..1] Annotation: Wagon or load gauge code used in UK, coded in UIC 505-1 and 503: 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. Candidate: G1, G2, GA, GB, GC, CM, CE, M2, M3, M4, GB1, GB2, GB-M6, GHE16, W6-A. Lately added: 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')
		.../RollingStockDataset/DesignDataSet/MinCurveRadius Type: restriction of xs:integer Annotation: Measured in Metres
		.../RollingStockDataset/DesignDataSet/MinVerticalRadiusYardHump Type: restriction of xs:integer [0..1] Annotation: Minimum allowed vertical radius over yard humps. Measured in meters.
.../Техн характ гориз/Rows 1(h), n=dyn/Q Type: string	*direct*	.../RollingStockDataset/DesignDataSet/WagonWeightEmpty Type: WeightValueKilo Annotation: The weight of an empty wagon according to the entry in the rolling stock database

Annotation: ТАРА ВАГОНА		
.../Техн характ гориз/Rows 1(h), n=dyn/S Type: string Annotation: ДЛИНА ПО ОСЯМ АВТОСЦЕПКИ	*direct*	.../RollingStockDataset/DesignDataSet/LengthOverBuffers Type: restriction of xs:integer Annotation: Length over buffers is expressed in cm.
core.constant(22.7)	*direct* Annotation: ! Derived from Платформа модель 13-401 !	.../RollingStockDataset/DesignDataSet/MaxAxleWeight Type: restriction of xs:decimal Annotation: Indicates the maximum design axle weight (to).
		.../RollingStockDataset/DesignDataSet/LoadTable Type: restriction of xs:anyType [0..∞] 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 Type: restriction of xs:anyType [0..1] Annotation: Product description, only applies for product-specific load tables
		.../DesignDataSet/LoadTable/LoadTableCountry Type: CountryIdentISO [0..∞] Annotation: ISO country code of countries for additional load tables
		.../DesignDataSet/LoadTable/SpeedCategory Type: Numeric1-5 [1..∞] Annotation: Numeric speed in load table, without speed empty in km/h
		.../DesignDataSet/LoadTable/LoadTableStars Type: restriction of xs:integer [0..1] Annotation: Number of load table stars. Currently recognized values/codes: 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 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 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 Type: restriction of xs:anyType [1..∞]
core.constant("120")	*direct* Annotation: ! Derived from Платформа модель 13-401 !	.../RollingStockDataset/DesignDataSet/MaxDesignSpeed Type: restriction of xs:integer Annotation: Maximum approved speed of the wagon (km/h)
		.../RollingStockDataset/DesignDataSet/AirBrake Type: restriction of xs:anyType Annotation: Characteristics of Air Brakes
		.../DesignDataSet/AirBrake/NumberOfBrakes Type: Numeric2-2 Annotation: Number of air brakes
		.../DesignDataSet/AirBrake/BrakeSystem Type: restriction of xs:string [0..1] 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 Type: Annotation: Classification of air brake. additional code: 8 No air brake or brake pipe The code is defined in UIC Leaflet 920-13.

		All RZD wagons are equipped with the air brake. TBC for other OSJD countries which are not concerned by TAF TSI application.
		.../DesignDataSet/AirBrake/BrakingPowerVariationDevice Type: Annotation: Coding in 404-2, chapter 1.8
		.../DesignDataSet/AirBrake/AirBrakedMass Type: 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 Type: restriction of xs:anyType [0..∞] Annotation: Specific weights for change over air brake systems
		.../DesignDataSet/AirBrake/BrakeSpecialCharacteristics Type: Annotation: General brake characteristics. The values refer to UIC leaflet 920-13: 0 = Cast Iron Brake Blocks 1 = Disc Brake 2 = K-Brake Blocks 3 = Cast Iron Brake Blocks, single release brake 4 = Composite Brake Blocks, single release brake 5 = L-Brake Blocks 6 = LL-Brake Blocks 9 = Unknown or non-coded information
		.../RollingStockDataset/DesignDataSet/HandBrake Type: restriction of xs:anyType
.../Техн характ гориз/Rows 1(h), n=dyn/AZ Type: string Annotation: РУЧНОЙ ТОРМОЗ	**core.value-map** => input | result =>	.../DesignDataSet/HandBrake/HandBrakeType Type: Annotation: Classification of hand brake: 0 No hand brake 1 Ground-operated hand brake 2 Platform-operated hand brake
		.../DesignDataSet/HandBrake/HandBrakedWeight Type: restriction of xs:decimal [0..1] Annotation: Braked weight of the hand brake in tons
		.../DesignDataSet/HandBrake/ParkingBrakeForce Type: restriction of xs:decimal [0..1] Annotation: Indicates the parking brake force of the hand brake (kN). When the parking brake force is marked on the wagon the information must be provided in the RSRD message.
		.../RollingStockDataset/DesignDataSet/DerailmentDetectionDevice Type: DerailmentDetectionDevice [0..1]
		.../RollingStockDataset/DesignDataSet/BrakeBlock Type: restriction of xs:anyType [0..1] Annotation: Characteristics of brake blocks
		.../RollingStockDataset/DesignDataSet/MaxLengthOfLoad Type: restriction of xs:integer [0..1] Annotation: Measured in mm
core.constant(41.8)	*direct* Annotation: ! Derived from Платформа модель 13-401 !	.../RollingStockDataset/DesignDataSet/LoadArea Type: restriction of xs:decimal [0..1] Annotation: Payload Area - measured in M2
core.constant(1310)	*direct* Annotation: ! Derived from Платформа модель 13-401 !	.../RollingStockDataset/DesignDataSet/HeightOfLoadingPlaneUnladen Type: Numeric1-5 [0..1] Annotation: Height of the loading plane when wagon is empty measured in mm
		.../RollingStockDataset/DesignDataSet/RemovableAccessories Type: restriction of xs:anyType [0..∞]
		.../DesignDataSet/RemovableAccessories/TypeOfRemovableAccessories Type: Annotation: Specification of removable accessory.

		Should be added to Code List. Values refer to UIC Leaflet 920-13: 01 = Removable stanchion 02 = Removable side flap of flat wagon 03 = Removable end flap of flat wagon 04 = Removable side rail 05 = Removable intermediate upright for securing the load 06 = Stanchion chain 07 = Removable handle and wheel for winch on car-carrying wagon 08 = Swivelling bolster (with stanchions) 09 = Coupling rod (rigid coupling) 10 = Ice bunker 11 = Ice bunker screen 12 = Ice bunker frame 13 = Trestle or bar with hooks for hanging meat 14 = Movable cross-member of wagon with low loading plane 15 = Removable support 16 = Mooring cross-member on wagon for special loads 17 = Movable floor panel on wagon for special loads 18 = Scotch 19 = Skid bar with or without shoes on car-carrying wagon 20 = Mooring strap on car-carrying wagon 21 = Beam for movable ramp on car-carrying wagon 22 = Spare heating half-coupling 23 = Fire extinguisher 24 = Wheel scotches (for cars) on car-carrying wagon 25 = Gangway loading ramp on car-carrying wagon 26 = Metal cradles for rolls of metal sheeting 27 = Panel for covering markings 28 = Loading frame for special types of goods 29 = Headstock for "rolling roads" 99 = Other wagon accessories
		.../DesignDataSet/RemovableAccessories/NumberOfAccessorOfSpecType Type: Numeric2-2 Annotation: Number of specified accessory equipped on the wagon
core.constant(37.0)	*direct* Annotation: ! Derived from Платформа модель 13-401 !	.../RollingStockDataset/DesignDataSet/LoadingCapacity Type: restriction of xs:decimal [0..1] Annotation: Usable Cube - measured in M3
.../Техн характ гориз/Rows 1(h), n=dyn/Q Type: string Annotation: ТАРА ВАГОНА	**core.add** => value1 | result =>	.../RollingStockDataset/DesignDataSet/MaxGrossWeight Type: WeightValueKilo Annotation: Weight of max Gross Load Weight plus the tare weight of the equipment
.../Техн характ гориз/Rows 1(h), n=dyn/R Type: string Annotation: ГРУЗОПОДЪЁМНОСТЬ ВАГОНА	**core.add** => value2 | result =>	
		.../RollingStockDataset/DesignDataSet/VapourReturnSystem Type: xs:boolean [0..1] Annotation: Indication if tank wagon is equipped with a vapour return system
		.../RollingStockDataset/DesignDataSet/FerryPermittedFlag Type: xs:boolean [0..1]
		.../RollingStockDataset/DesignDataSet/FerryRampAngle Type: restriction of xs:decimal [0..1] Annotation: Maximum allowed angle of the ferry ramp (in grades: °)
		.../RollingStockDataset/DesignDataSet/TemperatureRange Type: restriction of xs:anyType [0..1]
		.../RollingStockDataset/DesignDataSet/TechnicalForwardingRestrictions Type: RestrictionCodes [0..∞] 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- All codes of Transport restrictions for Freight Traffic (cf. UIC 920-13) and Passengers Traffic are in the same list which is contained in the code list RestrictionCodes.

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

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

Remaining components

core.value-map (ASOUP_Wagon_Data_V001 -> taf_cat_complete)	
input (ASOUP_Wagon_Data_V001.AH)	result (taf_cat_complete.SuspensionOfAuthorisation)
From	**To**
НЕ ПРОДЛЁН	1
otherwise	0

core.value-map (ASOUP_Wagon_Data_V001 -> taf_cat_complete)	
input (ASOUP_Wagon_Data_V001.Z)	result (taf_cat_complete.DateSuspensionOfAuthorisation)
From	**To**

НЕ УКАЗАНА	2099-12-31
otherwise	2099-12-31

core.value-map (ASOUP_Wagon_Data_V001 -> taf_cat_complete)	
input (ASOUP_Wagon_Data_V001.P)	result (taf_cat_complete.CoversTankWagonsForDangerousGoods, taf_cat_complete.CoversNonTankWagonsForDangerousGoods)
From	**To**
11-1807	1
otherwise	0

core.value-map (ASOUP_Wagon_Data_V001 -> taf_cat_complete)	
input (ASOUP_Wagon_Data_V001.AZ)	result (taf_cat_complete.HandBrakeType)
From	**To**
СТОЯНОЧНЫЙ	1

core.add (ASOUP_Wagon_Data_V001 -> taf_cat_complete)	
value1 (ASOUP_Wagon_Data_V001.Q) value2 (ASOUP_Wagon_Data_V001.R)	result (taf_cat_complete.MaxGrossWeight)

core.value-map (ASOUP_Wagon_Data_V001 -> taf_cat_complete)	
input (ASOUP_Wagon_Data_V001.Z)	result (taf_cat_complete.ECMCertificateSuspended)
From	**To**
НЕ УКАЗАНА	0
otherwise	1

Constants

core.constant (-> taf_cat_complete)	
Value	6004

core.constant (-> taf_cat_complete)	
Value	0

core.constant (-> taf_cat_complete)	
Value	41.8

core.constant (-> taf_cat_complete)	
Value	120

core.constant (->)	
Value	! МОДЕЛЬ = смотри https://vagon.by/model/13-401 >> here detailed information about the Платформа модель 13-401 can be found !

core.constant (-> taf_cat_complete)	
Value	22.7

core.constant (-> taf_cat_complete)	
Value	4

core.constant (-> taf_cat_complete)	
Value	1310

core.constant (-> taf_cat_complete)	
Value	5

core.constant (-> taf_cat_complete)	
Value	37.0

core.constant (-> taf_cat_complete)	
Value	4