

EKAER Management Service

Contents

1.	INTRODUCTION	9
1.1.	OBJECTIVE.....	9
1.1.1.	UPLOADING XML ON THE EKAER WEB INTERFACE.....	9
2.	STRUCTURE OF OPERATIONS, DISPLAY IN XML STRUCTURE	10
2.1.	BASIC ELEMENTS DEFINED IN XSD.....	10
2.2.	GENERAL STRUCTURE OF XML ELEMENTS	10
2.2.1.	HEADER XML PART.....	10
2.2.2.	USER XML PART.....	11
2.2.3.	GENERATING A REQUEST SIGNATURE	23
2.3.	MANAGE TRADE CARDS REQUEST, (CREATE, MODIFY, DELETE).....	24
2.3.1.	TRADE CARD OPERATIONS.....	24
2.3.1.1.	CREATE OPERATION.....	26
2.3.1.2.	MODIFY OPERATION	26
2.3.1.3.	DELETE OPERATION	28
2.3.1.4.	FINALIZE OPERATION	28
2.3.1.5.	Correction operation, finalized trade card modification	28
2.3.2.	STRUCTURE OF THE TRADE CARD ELEMENT	30
2.3.2.1.	TRADE CARD DATA	30
2.3.2.2.	VERIFICATION OF THE DATA GIVEN IN THE OPERATION.....	24
2.3.2.3.	HANDLING SEVERAL ADDRESS DATA, INTRODUCING DELIVERY PLANS – DESCRIPTION OF PROCESS CHANGES.....	24
2.3.2.4.	STRUCTURE AND FIELDS OF THE LOAD AND UNLOAD ADDRESS DATA ELEMENT	25
2.3.2.5.	ADDRESS DATA VERIFICATION.....	26
2.3.2.6.	COUNTRY LIST.....	27
2.3.2.7.	VEHICLE COUNTRY LIST.....	28
2.3.2.8.	DELIVERY PLANS LIST STRUCTURE (DELIVERY PLAN)	32
2.3.2.8.1.	ITEMS LIST STRUCTURE (TRADE CARD ITEM)	36
2.3.2.9.	VERIFICATIONS RELATED TO ITEMS.....	39
2.3.2.10.	TRADE REASON.....	39
2.4.	MANAGE TRADE CARDS RESPONSE, STRUCTURE OF THE RESPONSE	40
2.4.1.	OPERATION RESULT	41
2.4.1.1.	RESULT STRUCTURE (OPERATION RESULT TYPE).....	43

2.4.1.2.	TRADECARDINFO ELEMENT STRUCTURE	43
2.4.1.3.	NAVValidationListType element.....	48
2.4.1.4.	WarningListType element	48
2.4.1.5.	AllowanceListType	48
2.4.1.6.	OPERATION STATUSES (STATUS).....	49
2.5.	PROCESS AND STEPS OF ASSURANCE CALCULATION	49
2.6.	QUERYTRADECARDSREQUEST STRUCTURE	50
2.6.1.	QUERY BASED ON EKAER NUMBER (TCN).....	51
2.6.2.	CRITERIA GIVEN IN THE QUERYPARAMS	52
2.7.	In queries, the following rules have to be observed:.....	53
3.	TECHNICAL DESCRIPTION OF THE SERVICE	55
3.1.	GENERAL TECHNICAL DATA.....	55
3.2.	OPERATIONS	55
3.3.	HTTP HEADERS	55
3.4.	HTTP STATUS CODES	55
3.5.	RESULT ELEMENT IN THE RESPONSE MESSAGE.....	55
3.5.1.	ReasonCode Enumerated types	56
4.	ANNEX	56
4.1.	EXAMPLE XMLS	56
4.2.	INTERFACE VERSIONS	56
4.2.1.	Version “1.0”	57
4.2.2.	“Version 1.6”	57
4.2.3.	Version 1.7	57
4.2.3.1.	New reasonCodes from version 1.7	57
4.2.3.2.	In case of load addresses GPS position can also be given.....	58
4.2.3.3.	Changes related to report data	58
4.2.3.4.	New fields at report items	59
4.2.3.5.	Report by addressee.....	59
4.2.3.6.	Simplified reporting	59
4.2.3.7.	Changes in normalreporting.....	59
4.2.4.	“Version 1.8”	60
4.2.4.1.	Introducing a new list in the tradecard	60
4.2.4.2.	New reasonCodes.....	60
4.2.4.3.	New fields in items:.....	60
4.2.5.	Version “1.9”	61
4.2.5.1.	New reasonCodes from 1.9:	61
4.2.6.	Version 2.0	62
4.2.6.1.	RequestVersion became compulsory.....	62
4.2.6.2.	Trade reason new validation	62

4.2.6.3.	NAVValidations response element.....	62
4.2.6.4.	WarningListType element	62
4.2.6.5.	Foreign VAT number validations	62
4.2.6.6.	Weight and value validations	63
4.2.6.7.	Hungarian postal code validation	63
4.2.6.8.	loadDate and arrivalDate changes	63
4.2.6.9.	Others.....	64
4.2.6.10.	New reasonCodes in 2.0	64
4.2.6.11.	XSD validation tightening	65
4.2.6.12.	Forbidding inactive country codes when operation = create	65
4.2.6.13.	Load and arrival date and time splitting	65
4.2.6.14.	Changes in the finalization process of trade cards.....	65
4.2.6.15.	Finalized trade card modification	66
4.2.7.	Version 2.1	66
4.2.7.1.	New reasonCodes in requestVersion 2.1	66
4.3.	ACCESSIBILITY OF THE TEST SYSTEM.....	66
4.4.	AVAILABILITY OF THE LIVE SYSTEM	67

List of illustrations

1.	illustration Header element structure	10
2.	illustration user element structure.....	12
3.	illustration tradeCardOperation element structure.....	15
4.	illustration manageTradeCardsResponse element structure.....	39
5.	illustration tradeCardOperationsResults structure.....	40
6.	illustration queryTradeCardsRequest condition choice structure.....	50
7.	illustration queryTradeCardsResponse structure.....	53

Version

Name	Date	Version	Change briefly
B.G.	10.12.2014	1.0	initial
K.B.	12.12.2014	1.1	proofread
B.G.	13.12.2014	1.2	validation supplementation, reasonCodes, country list, Test system access
B.G.	23.12.2014	1.3	error, + unloadReporter field. carrier/carrierText choice eliminated! save(Un)LoadLocation field. New tcnValidityStart and End fields in response.
B.G.	10.01.2015	1.4	TradeReason description, validation. In Item value and weight max 9 long whole number. Clarification of technical description.
B.G.	12.01.2015	1.5	Query operation explanation. StreetNumber field shortened to 10 long. Illustration index, XML structure illustrations.
B.G.		1.6	- Address data description repaired.

			<ul style="list-style-type: none"> - StreetType not compulsory. - Expansion of interface version and environment description. - itemExternalId introduction from version 1.6 on requests. - factoryItemNumber, importerItemNumber 200 long - ADRNumber length and pattern modified - isIntermodal flag on requests - vehicle3 deleted from request data - phone number field description expansion
B.G.	16.03.2015	1.7	<ul style="list-style-type: none"> - isSellerDelivery element for reporting the delivery address <p>- statusChangeModReasonText, plateNumberModReasonText, tradeCardType, valueModReasonText, weightModReasonText, isDestinationCompanyIdentical fields</p> <p>GPS coordinates optionally at load and unload.</p> <p>Address data validation modified. New point related to 1.7. Report head and item data extended.</p>
B.G.	12.05.2015	1.8	<p>I) Interface changes</p> <p>1. Introducing DeliveryPlans</p> <p>From June 1st, in one request several load and unload addresses can be given, by recording the desired number of "delivery documents". One delivery document contains one load and one unload address. For each delivery document, the desired number of items can be recorded. One item can be related to one delivery document.</p> <p>To support this:</p> <ul style="list-style-type: none"> - new complexType: DeliveryPlanType - new complexType: DeliveryPlanListType - extending items with the deliveryPlans element - the tradeCard items element has become optional <p>2. Modification reasons extension</p> <p>On Items level two optional modification reasons were introduced:</p> <ul style="list-style-type: none"> - 'statusModReasonText': reason of item status change (deletion, new created) - 'productModReasonText': reason of change of item VTSZ or name <p>3. New error codes</p> <p>'TC_GPS_DATA_NOT_ALLOWED_WITH_RISKY_ITEM' In case of hazardous items giving only GPS coordinates is not allowed, exact address data are needed.</p> <p>'INVALID_TRANSACTION_STATE' the operation is not allowed in the current status of the transaction.</p> <p>'TC_DELIVERY_PLAN_MISSING ' There's no delivery plan in the report! Used only from version 1.8.</p> <p>'TCI_STATUS_MOD_REASON_MISSING' The reason of the modification of the item's status is compulsory! Used only from version 1.8.</p> <p>'TCI_PRODUCT_MOD_REASON_MISSING' The reason of the modification of the product is compulsory! Used only from version 1.8 .</p>

			<p>II) Change of validations</p> <p>1. Delivery document change: the new version is backward compatible, according to the old process the address data sent in the head data (without deliveryPlan) and items connected to the head are accepted by the service.</p> <p>2. Address data rules: check has been extended with the validation of GPS coordinates.</p> <p><u>On June 30 th the following system rules will come into force:</u></p> <p>Giving modification reasons, similarly to the rules of the web interface, will be compulsory on the XML interface as well, in case the given data change: TradeCard.plateNumberModReasonText – when the number plate or the country of the vehicle is modified tradecard.statusChangeModReasonText – when the trade card is deleted tradeCardItem.valueModReasonText – when the item value is modified tradeCardItem.weightModReasonText – when the item weight is modified tradeCardItem.productModReasonText – when the item VTSZ, name or UN number is modified</p> <p>In the modification request these fields have to be submitted in case the values of the given fields are modified (at present these fields are optional). The new rule is not retroactively compatible, it will be valid in every version. The support of the 1.0 requestVersion will be ceased, the service will not be available on the old URL.</p> <p><u>https://import.ekaer.nav.gov.hu/TradeCardService/customer/manageTradeCards</u></p>
B.G.	24.06.2015	1.9	<p>1. The 1.0 requestVersion support is ceased, the service is not available on the old URL from July 1</p> <p>2. In Item the value increased from maximum 9 to 11 whole digits.</p> <p>3. A Modification reasons shall be provided in the following cases: TradeCard.plateNumberModReasonText – when the license plate or the country changes tradecard.statusChangeModReasonText – when the tradecard is deleted tradeCardItem.valueModReasonText – when the item value is modified tradeCardItem.weightModReasonText – when the item weight is modified tradeCardItem.productModReasonText – when the item VTSZ number, name or UN number is modified</p> <p>4. In case of adding new item or deleting existing item, reason shall be given from August 15, in item, providing a statusModReasonText is compulsory in these cases.</p> <p>Due to this, the item management process is modified. In case of CREATE operation, the process does not change, but in case of MODIFY, in every case the new operation field of the item has to be provided.</p> <p>The ID of items recorded earlier has to be sent every time (except when new item is created).</p> <p>When adding new item, itemOperation = 'create' When modifying existing item, itemOperation = 'modify' When deleting existing item, itemOperation = 'delete'</p>

			<p>The request must contain the items to be deleted.</p> <p>In case in the request for trade card modification, the data of the items do not change, nevertheless the 'modify' value has to be inserted in itemOperation. To provide this operation, a shift to the 1.9 version is necessary. The compulsory usage of the 1.9 version is due on August 15th.</p> <p>5. Regulation of the value set for the country of the vehicle - in the vehicle and vehicle2 element, the system approves the values listed in 2.3.2.7! The checking is service level, independent from interface version.</p> <p>6. A modDate field was added to the TradecardInfoType. Optional, the system serves it as a response from the 1.9 version.</p> <p>7. The following optional fields were added to the TradeCardItemType: insdate, insUser, modDate, modUser The system serves it as a response from the 1.9 version.</p> <p>8. modification of weight type: value can be given to 3 decimals</p> <p>New reasonCodes:</p> <p>TCI_ITEM_OPERATION_MISSING – no itemOperation arrived in item TC_UNKNOWN_LICENCE_PLATE_COUNTRY_CODE - vehicle/country field is not according to the approved list NO_VALID_MASTER_USER – in case of a secondary user it might occur that when the given registration has no valid primary user, the secondary users cannot perform reporting operations</p>
K.CS.	19.04.2016	1.9	Foreign VAT number validation implemented
K.CS.	25.04.2016	1.9	Domestic transport can be intermodal from now on
H.J.	12.04.2019	2.0	2.0 interface version introduced
H.J.	09.01.2020	2.0	2.0 supplements
H.J.	11.03.2020	2.0	loadDate and arrivalDate elements should never be given in the same trade card
H.R.	17.04.2020	2.0	<p>From requestVersion 2.0 if the tradeType is D-(Domestic) and the sellerVatNumber and the destinationVatNumber contains the same vat number the create operation will result in a TC_VAT_NUMBER_ERROR and the trade card will not be created.</p> <p>If the tradeType is I-(Import) and the sellerVatNumber contains a value which has an "HU" country code as a prefix, the create operation will still be successful and the trade card will be created, but a warning message will be sent in the response: TC_VAT_NUMBER_WARN</p> <p>If the tradeType is E-(Export) and the destinationVatNumber contains a value which has an "HU" country code as a prefix, the create operation will still be successful and the trade card will be created, but a warning message will be sent in the response: TC_VAT_NUMBER_WARN</p>
H.R.	30.06.2020	2.0	<p>When correcting a finalized trade card</p> <ul style="list-style-type: none"> the country code of the transporting vehicle (either the vehicle or vehicle2 element) can only be changed if the corresponding plateNumber is also changed. every vehicle data change (country and plateNumber) must be reasoned. The method of reasoning has not been changed therefor it

			<p>should be sent in the plateNumberModReasonText element as before.</p> <ul style="list-style-type: none"> • if the value of a non-risky trade card item, that has been created before finalization and does not have a value prior the finalization (value = NULL), but is given in the correction request (value != NULL) will result in an application error. (INVALID_INPUT - "Érték utólagos rögzítése nem megengedett.") • if the value of a non-risky trade card item, that has been created before finalization and it has a value prior the finalization (value != NULL), but is NOT given in the correction request (value = NULL) will result in an application error. (INVALID_INPUT – „Érték utólagos törlése nem megengedett. (minimum megadható érték = 1 HUF)”)
H.R.	11.11.2020	2.0	<p>Starting from 1st of January 2021 regardless of the requestVersion of the request the following rules are going to take effect:</p> <ul style="list-style-type: none"> • Every TradeCardItem's Tariff number (productVtsz) in a TradeCard that receive their EKAER number at 1st of January 2021 or after must be 8 character long. <ul style="list-style-type: none"> ○ When operation = Create and the TradeCard has an Item with a Tariff Number (productVtsz) that is shorter than 8 characters the request will result in an error TC_VTSZ_TOO_SHORT. ○ When operation = Modify and the TradeCard received it's EKAER number at the 1st of January 2021 or after and has an Item with a Tariff Number (productVtsz) that is shorter than 8 characters the request will result in an error TC_VTSZ_TOO_SHORT. <ul style="list-style-type: none"> ▪ Important that in cases of TradeCards which received their EKAER number before 1st of January 2021 can have shorter than 8 characters long Tariff Numbers (productVtsz). • Every TradeCardItem's value in a TradeCard that receive their EKAER number at 1st of January 2021 or after must be given. <ul style="list-style-type: none"> ○ When operation = Create and the TradeCard has an Item without value (or the value = 0) then the request will result in an error TCI_VALUE_MISSING (or INVALID_INPUT under requestVersion 1.6). ○ When operation = Modify and the TradeCard received it's EKAER number at the 1st of January 2021 or after and has an Item without value (or the value =0) then the request will result in an error TCI_VALUE_MISSING (or INVALID_INPUT under requestVersion 1.6). <ul style="list-style-type: none"> ▪ Important that in cases of TradeCards which received their EKAER number before 1st of January 2021 the system will not require the value for every item. • Consignee submission (isSellerDelivery = false and tradeType = D) will no longer be available from the 1st of January 2021. <ul style="list-style-type: none"> ○ When operation = Create the use of the isSellerDelivery element will

			<p>not be necessary when the tradeType = I, E, or D at of after the 1st of January 2021.</p> <ul style="list-style-type: none"> ▪ When isSellerDelivery = false the request will result in an error TC_ONLY_SELLER_DELIVERY_ALLOWED_WITH_TRADE_TYPE (or INVALID_INPUT under requestVersion 1.7) ○ When operation = Modify and the TradeCard received it's EKAER number BEFORE the 1st of January 2021 the TradeCard can be managed as before, no changes will be applied. ▪ The isSellerDelivery element should have the same value that has been used in the CREATE operation in these TradeCards, especially if the value of the element was false. <p>When tradeType = E or I or the tradeType = D and isSellerDelivery = true , sending the element "isSellerDelivery" is not necessary.</p>
H.R.	27.11.2020	2.1	<p>From January 1st, 2021 a new requestVersion will be added</p> <p>From requestVersion 2.1 users have the opportunity to submit a statement about each tradeCardItem which indicates that the item falls under the 5 percent vat rate. This statement can be sent in the new element vatRateAssuranceExemption.</p> <ul style="list-style-type: none"> • If vatRateAssuranceExemption = true is not affected by 5 percent VAT rate the request will result in an application error. (TCI_INVALID_ASSURANCE_STATEMENT) <p>If vatRateAssuranceExemption = true and the item is affected by 5 percent VAT rate then the system will not use the value and the weight of the item during the assurance calculation.</p>
Gy.Sz.	22.02.2021	2.1	Northern Ireland (XI) added to the country list
N.Cs.	24.01.2022	2.1	Clarification of the InsDate field of TradeCard object.
Ny. B.	23.05.2022.	2.1	Removing factoryItemNumber and importerItemNumber from the list of modifiable data

1. INTRODUCTION

The Electronic Trade and Transport Control System (Elektronikus Közúti Áruforgalom Ellenőrző Rendszer (hereinafter referred to as: EKAER)) is to be launched, in which trade activities, transportation and movement of goods have to be registered in cases and in the manner stipulated by the law in the course of trade activities (hereinafter referred to as: operation). Operations of trade activities in the EKAER can be managed in the following manner:

- On the GUI of the web interface
- On the web via XML file upload
- Through services supporting machine to machine communication

The specification was made in accordance with the conditions and legal regulations known at the moment of preparation. In case regulatory or legal requirements change, the specification will change as well.

Difference between the web interface and the XML-based operations:

When the operation is generated on the web, it is given the status „Under planning” and no automatic EKAER number is given, while **in case of XML-based communication the operation is automatically in active status, and given an EKAER number**, and the necessary assurance calculation is also performed.

1.1. OBJECTIVE

The objective of the present document is to provide information about the XML structure used by the service supporting XML file upload and machine to machine communication and the use of the service describing machine to machine communication.

The XML file structure uploaded on the web and returned in response and the XML structure used by the service are identical. The same file has to be uploaded on the web as the XML structure necessary to address the service.

1.1.1. UPLOADING XML ON THE EKAER WEB INTERFACE

The XML structure and operations detailed in the present document can be uploaded on the web interface after logging in, besides direct machine to machine communication.

On the EKAER web interface there is a dedicated function to upload the XML file, and as it is activated, and XML response file is downloaded. The defined response in the documentation of the downloaded file will be XML.

2. STRUCTURE OF OPERATIONS, DISPLAY IN XML STRUCTURE

In this chapter the structure of XML and operations, internal logical connections related to operations and data contents are presented.

2.1. BASIC ELEMENTS DEFINED IN XSD

In the attached XSD, the following elements are defined:

- **manageTradeCardsRequest**: This element is to modify, create and delete operations. In this structure, operations related to operations are transmitted in list form. Accordingly, an XML has to be uploaded on the WEB or transfer it to the service, and as a consequence the EKAER system performs the operations requested in the element.
- **manageTradeCardsResponse**: Describes the response element generated when processing the **manageTradeCardsRequest**. The EKAER system gives an XML of this structure as a response to the **manageTradeCardsRequest**.
- **queryTradeCardsRequest**: Describes the structure of the XML to query earlier registered operations. The element contains the parameters of the query.
- **queryTradeCardsResponse**: Defines the XML structure of the response given to the **queryTradeCardsRequest**. Contains the result of the query. Contains the operations matching the query as a list.

2.2. GENERAL STRUCTURE OF XML ELEMENTS

Each element has a **Header** and a **User** part. These can be found generally in every element. They contain technical fields and fields for identification.

2.2.1. HEADER XML PART

In the Header there are general technical data related to the exchange of messages. By these, the requests can be identified, requests and replies can be matched, and they also contain generally necessary technical fields.

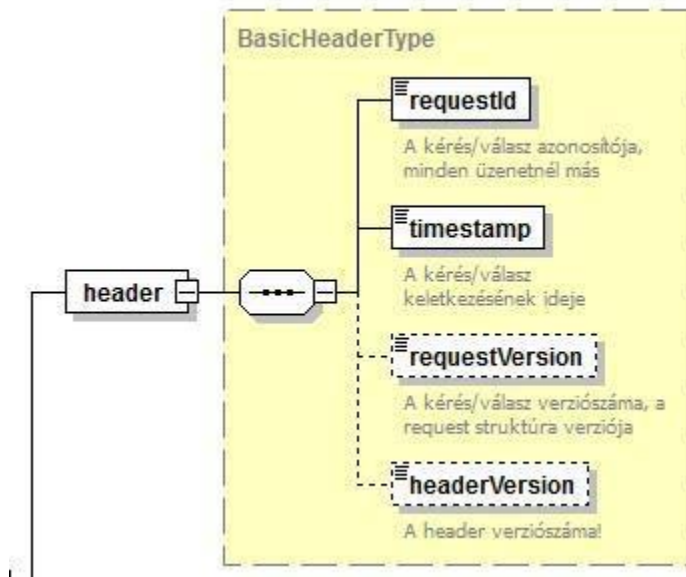
Field name	Type	Compulsory	Description	Example
requestId	50 long text.	Yes	The unique ID of the message. Each message is to be given an ID.	1EM9C1097O7208L
timestamp	dateTime according to the xsd standard	Yes	Time of the creation of the request. In machine-to-machine communication matches the time of the request.	2014-12-05T17:10:00+01:00

requestVersion	Max 6 long text, with a Default: 1.0 value. Mask: ##.###. Whole numbers separated by full stop	No, default 1.0	Contains the version number of the request. Can be used at the change of request business structure later.	1.0
headerVersion	Max 6 long text, with a Default: 1.0 value. Mask: ##.###. Whole numbers separated by full stop	No, default 1.0	Contains the version number of the request. Can be used at the change of request business structure later.	1.0

Limitations related to the fields:

The requestId has to be unique for each user. The system does not accept a request with the same ID from the same user.

The server does not accept requests with a timestamp older than 24 h or a future time. There is a five minute tolerance compared to server time.



1. illustration Header element structure

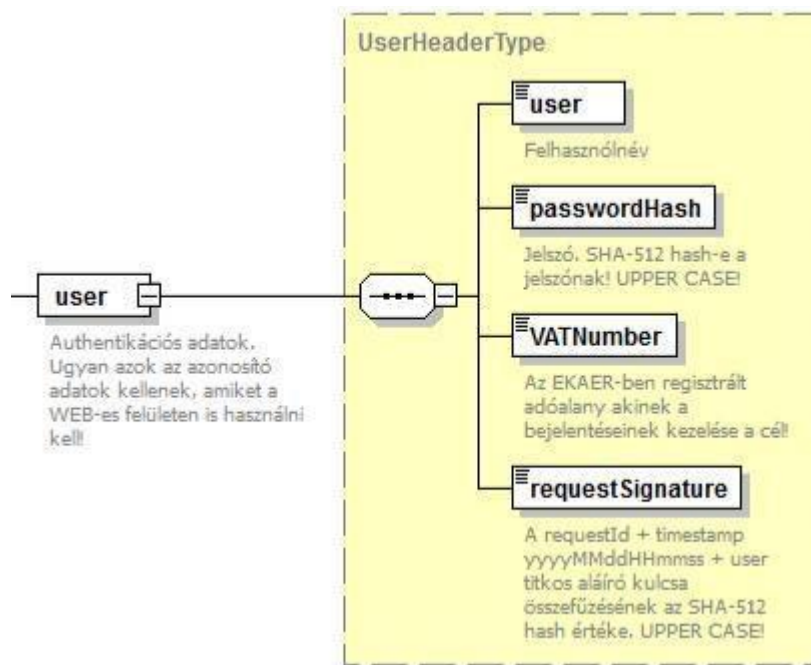
2.2.2. USER XML PART

The User identifies the sender, the user requesting the change. In this part, we can find necessary data for identification and verification.

N.B.: In case of XML upload via web, the modifications of operations are not performed in the name of the person uploading the XML file currently logged in, but in the name of the user identified through the data given in the User part of the XML.

Field name	Type	Compulsary	Description	Example
User	30 long text	Yes	The long name of the user requesting the change. Login name	testelek
password Hash	128 long text	Yes	The SHA-512 hash value of the password of the user requesting the modification. NOT THE UNCODED PASSWORD.	BA3253876AED6BC22 D4A6FF53D8406C6AD 864195ED144AB5C87 621B6C233B548BAEA E6956DF346EC8C17F 5EA10F35EE3CBC514 797ED7DDD3145464E 2A0BAB413
VATNumber	8 long VAT Number	Yes	The tax number of the tax subject whose operations the user intends to manage. The first 8 digits of the whole tax number.	32165498
requestSignature	128 long text	Yes	The signature of the message by which the server verifies if the user submitted the XML. A generated SHA-512 hash message based on the data in the message and the value of the secret data of the user (not in the message but known to the system).	CE3687D87EDEFD4E AE471BEF11C285625 7B2B0CE879DCCB1A 38049D1ABB335CBD A49174EA4F8C8E95A AA8D7683E0734994E FA72528E2C7EF24CC 9F3B80C02F97

The username, the password and the VAT number are the same data by which the users log in on the web interface.



2. illustration user element structure

2.2.3. GENERATING A REQUESTSIGNATURE

The requestSignature field prevents unauthorized users from creating operations.

The hash value is verified by the server side in case of each request, and the operation is performed only if it can be actually generated based on the request received. The uniqueness of the requestId of requests is verified by the system (a given user can use a requestId only once), which is the basis of the signing hash value, therefore no new request can be created by copying the header of the request, because the hash value of the verifying requestSignature hash will not match.

The SHA-512 hash value of the text received from the connection of the text values transmitted in the field:

- requestId
- timestamp field in the following format: (in UTC!): yyyyMMddHHmmss. e.g.: 2014.10.05 12:58:08 format: 20141005125808. IT IS VERY IMPORTANT that at the hash generation of the signature the UTC equivalent of the time sent in the Timestamp shall be used.
- The secret signature key of the user. This password-like data can be given by the user for themselves on the web. It is a secret password of 8 long, which has to contain uppercase and lowercase letters and a number or numbers, e.g. titkos7Password98. XML interfaces can only be used by persons having a signature key.

Example:

The secret signature key of testelek used in the example (set by the user on the web interface):
Elek65Titkos

Data of the example request:

```
requestId = TSTKFT1222564  
timestamp = 2015.01.15T13:25:45+01:00, of which the value used for the hash  
is: 20150115122545
```

In XML in the timestamp element no matter in what time zone the time is given, but at the hash generation, the UTC equivalent of this time shall be used.

In XML, the timestamp field is xs:dateTime type, which is characterized by the feature that when there is no time zone in the time travelling in text format (e.g.: 2015.01.15T13:25:45), then the server interprets it as a local time interpreted in its own time zone.

It is useful to give the time zone every time, as it may occur that the time zone of the server is different than that of the sending system, and in this case the UTC time used for the signature hash will not match, and consequently the signature may be regarded by the server as invalid.

The text value of which the hash is created is structured like this:

TSTKFT1222564 + 20150115122545 + Elek65Titkos= TSTKFT122256420150115122545Elek65Titkos

The text generated like this („TSTKFT122256420150115122545Elek65Titkos”) would have an SHA-512 hash value like this:

AF84DC456B82234E67550C80169E517FBDAB4403607293985DECB09F534D9F73FADAABEFEE932554FA
BBC49F6E8F74A5DD54EA359D6B7644D95CFF3530AFB889

Verification can be performed on the following site:

<http://www.convertstring.com/hu/Hash/SHA512>

2.3. MANAGETRADECARDSREQUEST, (CREATE, MODIFY,DELETE)

The general part of the message (Header and User) is detailed in [2.2](#).

In the XML structure the business data are in the tradeCardOperations list.

2.3.1. TRADECARDOPERATIONS

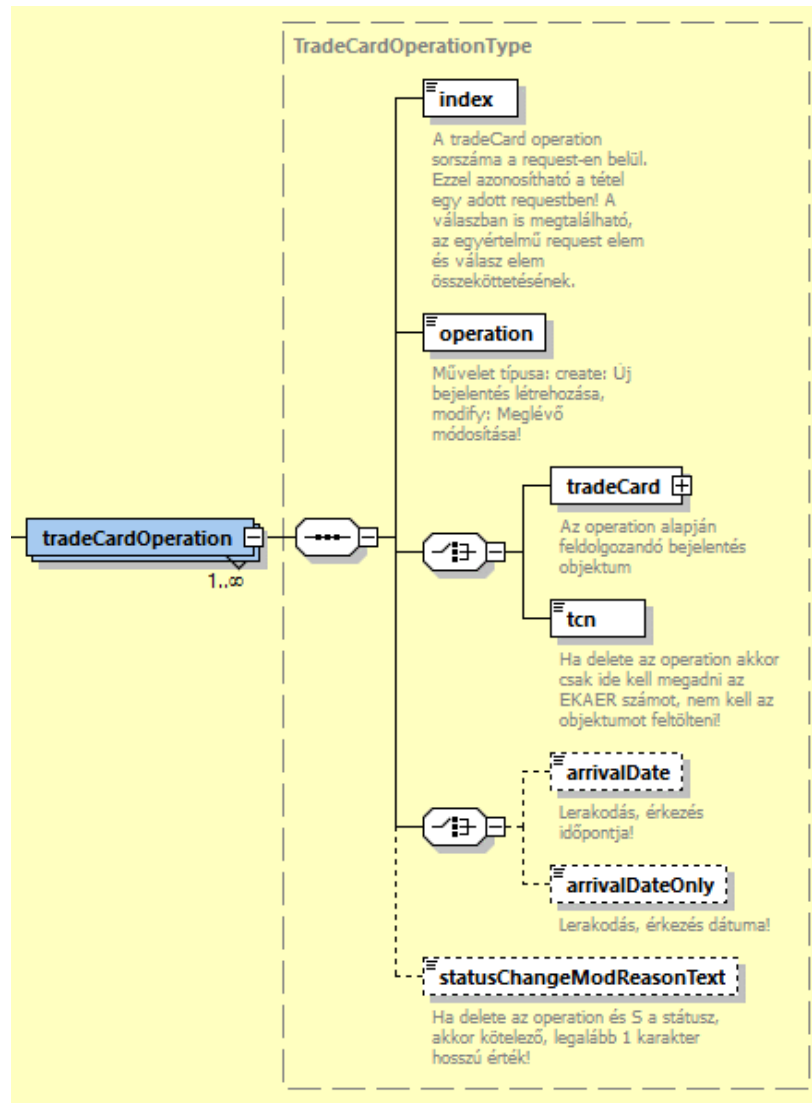
The tradeCardOperations element contains a tradeCardOperation list, with the operations to be performed. Registering operations, modifying and deleting existing operations. The operation to be performed is described by the tradeCardOperation element.

Structure of the tradeCardOperation:

Field name	Type	Compulsory	Description	Example
Index	Xsd:integer	Yes	An ordinal number according to the place in the list. Identifies the given modification operation within the request.	
Operation	Enumerated: create, modify delete, finalize	Yes	Indicates the manner of modification. The type of the given modification task.	create
tradeCard / tcn	Selection: tradeCard element or tcn element	Yes	When operation = create and operation = modify a tradeCard element is necessary. When operation = delete a tcn is necessary	
statusChangeModReasonText	200 long text	No	When operation = delete a reasoning text should always be given	The transport will not take place.
arrivalDate / arrivalDateOnly	choice: xsd:date or xsd:dateTime	No	In interface version 2.0 when operation = finalize one of the two elements should be given.	2014-12-04+01:00 or 2014-12-04T08:45:00+01:00

Whether there is a tradeCard or a tcn element in the given tradeCardOperation depends on the operation field.

The Operation defines what operation is performed by the server.



3. illustration tradeCardOperation elementstructure

2.3.1.1. CREATE OPERATION

In case of “Create” operation, the tradeCardOperation has to contain a tradeCard element.

The tradeCard element contains the data of the operation, based on which the server creates the operation.

In case of creation, the tcn element within the tradeCard has to be omitted.

Within the tradeCardItem and deliveryPlan element, the id attribute has to be omitted.

2.3.1.2. MODIFY OPERATION

In case of “modify” operation, the tradeCardOperation has to contain the tradeCard element.

The tradeCard element contains data of the operation, based on which the server modifies

the operation.

Logic of the modification:

Data in the header of the operation are saved.

The manner of processing the item data is the following:

Below requestVersion 1.9

- Based on the item id attribute, the server identifies the item and modifies it based on the data received. In case it is not retrieved, the modification of the whole operation will be rendered unsuccessful, the system will not perform it.
- When the request does not contain existing data, the server side deletes the given item. Therefore, in modification requests non-existing items will be deleted from the items belonging the operation
- In case an item arrives in the request without an id, the server side interprets it as a new item and records it at the report.

From requestVersion 1.9 and upwards

- When creating a new item or deleting an existing one from a trade card will need to be reasoned. Therefore, the item management has changed. When creating a trade card the method is unchanged, but when the operation = MODIFY sending the new itemOperation element is mandatory.
 - The ID of any existing item of a trade card should always be sent as an attribute. (New items do not have an ID therefore sending it is not possible nor mandatory.)
 - Creating new item – itemOperation = 'create'
 - Modifying an existing item – itemOperation = 'modify'
 - Even if no data has changed in a trade card item it's itemOperation should be modify regardless
 - Deleting an existing item – itemOperation = 'delete'
 - Every item that needs to be deleted should be sent in the request with the itemOperation = 'delete'

In the Request head only the following fields can be modified:

- orderNumber
- plateNumber, country
- modByCarrierEnabled
- carrier
- carrierText

In case of Import, when there is hazardous product among the items, the following fields can also be modified:

- isDestinationCompanyIdentical (only in 1.8 or below)
- unloadLocation.vatNumber, unloadLocation.name

The time of the delivery can be given, if it was not given at creation.

- loadDate (2.0 or above loadDate or loadDateOnly)

In case of import and domestic report:

- arrivalDate (only below 2.0 interface version because in 2.0 or above arrivalDate or arrivalDate / arrivalDateOnly should only be given when the operation = finalize)

In case of Report items the following data can be modified:

- value
- weight
- productVtsz
- productName
- adrNumber
- In case of reported deliveryPlan, the following data can be modified:
- if there is a hazardous item recorded at the deliveryPlan, it can be modified by isDestinationCompanyIdentical

2.3.1.3. DELETE OPERATION

In case of Delete, only the tcn (EKAER number) has to be submitted, and the tradeCard object does not have to be built up. The server identifies and deletes the operation based on the EKAER number given in the tcn. The deletion can only be performed when the operation is still “active”.

2.3.1.4. FINALIZE OPERATION

In case of Finalize, only the tcn has to be submitted, and the tradeCard whole object does not have to be built up. The server identifies and finalizes the operation based on the EKAER number given in the tcn. During finalization, verifications are also performed. About these, further information is available in the following chapter: [Verification of the data given in the operation](#)

N.B.: Before finalizing the operation by Finalize, all the necessary values have to be set by Modify operation, as after finalization the system does not allow the modification of the data. E.g.. setting the data of the time of unload might be necessary to be modified before finalization. From interface version 2.0 and above the arrivalDate / arrivalDateOnly should always be given when the operation = finalize. If 2.0 is used for creating and modify operations the date of arrival cannot be given in the request.

2.3.1.5. Correction operation, finalized trade card modification

Correction operation can only be used with interface version 2.0 (requestVersion = 2.0) and can only be submitted onto import or domestic trade cards.

When operation = correction the request should contain a tradeCardOperation tag and a tradeCard element. The tradeCard element contains the data of the submission and this is used to change the stored object on the server.

Elements that could be modified:

- Plate number (plateNumber and country)

- Weight of the goods (weight)
- Value of the goods (value)

These kinds of modifications, if successful, will result in an allowance payment charge. The amount of allowance is based on the number of data type changed in the request. The amount of the allowance and the due date of the payment is given in the response.

Important: Paying this allowance is always the responsibility of the taxpayer obliged to make a submission.

The logical structure of the modification:

The change of the plate numbers will be saved if changed and a reasoning is given.

Modifying the data of an item does the following:

- The server finds the item by the attribute id given in the request
- If no such item found for the given trade card, no modifications will take place and an application error will be given in the response
- If the request contains an item that has not been submitted before finalizing the trade card therefore it does not have an id the request will result in an application error
- If the request does not contain an item and it's id that has been submitted and successfully saved to the trade card that the user trying to change after finalization the modification will not take effect and the request will result in an application error.
- The value of a non-risky trade card item, that has been created before finalization and does not have a value prior the finalization (value = NULL), cannot be changed.
- The value of a non-risky trade card item, that has been created before finalization and it has a value prior the finalization (value != NULL), cannot be deleted.

2.3.2. STRUCTURE OF THE TRADECARD ELEMENT

In the tradeCard element data related to the operation are stored. It can be divided into two main parts: header and item list. The header contains data related to the operation, while the item list contains itemized data for the products belonging to the operation.

2.3.2.1. TRADECARD DATA

Data in the tradeCard describe the details of the operation.

Field name	Type	Compulsory	Description	Example
tcn	20 long text	in case of modify operation, otherwise can be omitted	EKAER number of the operation. Identifies the operation.	12312312331
orderNumber	50 long text	no	Identifies the operation/ order in the own system of the user.	ASDF234fFas3
tradeType	Enumerated: E, I, D	yes	This field defines the relation of the product movement. From community to domestic (I), from domestic to community (E), from domestic to domestic (D).	I
isSellerDelivery	boolean	No (from version 1.7). Default true.	Seller performs delivery. In case of addressee report false (not performed by the seller).	false
modByCarrierEnabled	boolean	yes	Indicates whether the carrier can modify the operation or not. When yes, it can be modified, when no, it cannot.	true
carrier	30 long text	no	Not compulsory. The ID of the carrier in EKAER (registered carrier)	
carrierText	200 long text	no	Text name of carrier, name	Trans2015 Kft.
isIntermodal	Logical.xs:boolean	no	In case of intermodal freight set to yes. When the value is true, load and unload country is not validated. Exists from interface version 1.6.	true

isDestinationCompanyIdentical	Xs:boolean	No, default false	Addressee (buyer) is identical with the addressee of unload. In case the company at the unload address is different from the addressee, the value is 'false', it is necessary to provide it in import relation only, in case of hazardous product. Otherwise ignore.	false
sellerName	200 long text	yes	Name of the sender/seller company, from which product movement is Page 21 EKAER Management Service started.	„Első Kereskedő Kft.”
sellerVatNumber	15 long text	yes	In case of a Hungarian sender, the first 8 digits of the Hungarian tax registration number. In case of a foreign sender, the community tax registration number.	32165478
sellerCountry	2 long text	no (in case of tradeType E and D yes)	Country code of the sender/seller	HU
sellerAddress	200 long text	no (in case of tradeType E and D yes)	Address of the sender/seller	Budapest Kisdobos tér 2.
destinationName	200 long text	yes	Name of the destination/buyer company, where the product movement starts.	„Első Kereskedő Kft.”
destinationVatNumber	15 long text	yes	Tax registration number of the destination/buyer company. In case of a Hungarian destination, the first 8 digits of the Hungarian tax registration number. In case of a foreign destination, the community tax registration number.	32165478
destinationCountry	2 long text	no (in case	Country code of the	HU

		of tradeType I and D yes)	destination/buyer company	
destinationAddress	200 long text	no (in case of tradeType I yes)	Address of the destination/buyer company	Budapest Kisdobos tér 1.
unloadReporter	Enumerated: S	no, default is S	ONLY in case of domestic freight (tradeType=D) is taken into consideration. Signifies who can report unload. S: only the reporter.	S
loadLocation	element	no (from version 1.8)	Address of loading	Budapest lpartelep u 1.
saveLoadLocation	xs:boolean	no, default: false	In case of yes, the loadlocation issaved among favorites, when it still does not exist.	true
unloadLocation	Element	no (from version 1.8)	Address of unloading	Budapest Közraktár utca 1.
saveUnloadLocation	xs:boolean	no, default: false	In case of yes, the unload location is saved among favorites, when it still does not exist.	false
plateNumberModReason Text	200 long text	no, only to be given when plate number is changed	Reason to change plate/vehicle	"Towing vehicle had to be changed"
vehicle/plateNumber	element (vehicle data) plate number	No (but has to be filled it before the finalization of the element)	Registration plate number of the vehicle (tractor)	ABC321
vehicle/country	3 long text	no	Country belonging to the registration plate number. Accepted from A to Z.	H
vehicle2/plateNumber	element (vehicle data)	no	The first tow	FFF397
vehicle2/country	3 long text	no	Country belonging to the registration plate number. Accepted from A to Z.	H
loadDate (from 2.0 loadDate/loadDateOnly)	xsd dateTime (from 2.0 can be	No	Time of load	2014-12-04T08:45:00+01:

	xsd:date)			00
arrivalDate (from 2.0 arrivalDate/arrivalDateOnly)	xsd dateTime (from 2.0 can be xsd:date)	no (but from 2.0 it has to be given in the finalization operation)	Time of unload	2014-12-05T21:15:00+01:00 or 2014-12-04+01:00
tradeCardType	Enumerated (S)imple, (N)orma	no, default is N. (meaning Normal)	Type of report is Normal or Simple. Simple means simplified. In case of Simple no item is needed, not handled.	N
statusChangeModReason Text	200 long text	No	To be given when active report is for deletion for deletion	„Delivery failed!“
Items	Element list (tradeCardItem)	No (from version 1.8)	Items of the report. A list consisting of at least one item.	
deliveryPlans	Element	No	delivery plans fixed to the report.	
insUser	30 long	No	the user recording the report	
insDate	xs:dateTime	No	Datetime of registering the EKÁER number.	2015-01-14T10:25:15+01:00
modUser	30 long	No	the user modifying the report	
modDate	xs:dateTime	No	time of modifying the report	

2.3.2.2. VERIFICATION OF THE DATA GIVEN IN THE OPERATION

Inversions below 1.8: In case of a normal report, the items list has to contain at least one item. In case of simplified report, no item is needed.

From version 1.8: In case of a normal report, at least one deliveryPlan has to be included in the deliveryPlans list. In case of a simplified report, no deliveryPlans element has to be sent.

- In case of every direction the tax registration number and name of the sender and address are compulsory
- In case of domestic-domestic, the address data of the sender and the addressee are compulsory
- In case of export, address data of the addressee (destinationAddress, destinationCountry) optional
- In case of import, the sender's address data (sellerAddress, sellerCountry) optional

In case of tradeType = E and D:

Providing load and unload address data is compulsory. In the address data

- name
- VATNumber
- phone
- email

is not to be given.

In case of tradeType = I:

When there is a hazardous product among the items, and the isDestinationCompanyIdentical = false, at the unload address (unloadLocation) giving the name and VATNumber is compulsory, otherwise it is not.

Before finalizing/closing the operation, the following data shall be submitted:

- The vehicle element has to contain actual vehicle data.
- The arrivalDate has to contain the date/time of the unload.

Further information about verification of the address data is available in [2.3.2.4](#).

2.3.2.3. HANDLING SEVERAL ADDRESS DATA, INTRODUCING DELIVERY PLANS – DESCRIPTION OF PROCESS CHANGES

From June 1st, the system supports the option of recording several addresses.

It can be interpreted only from version 1.8. In the new version, the address data does not have to be given in the head data, but in the newly introduced deliveryPlan. A normal type report has to contain at least one deliveryPlan. In case of a simplified report, it does not have to be given.

The deliveryPlan contains the load and unload address data. For a report, any number of deliveryPlan can be recorded.

An items element related to a Tradecard cannot be given, only allocated to a deliveryPlan. I.e. on each deliveryPlan all the items to be delivered on the given itinerary has to be defined.

A deliveryPlan cannot be deleted, even if every item is deleted in the given deliveryPlan.

A new item can only be allocated to an existing deliveryPlan, a new deliveryPlan cannot be recorded to an active report.

Backward compatibility support:

In versions earlier than 1.8, address data has to be given in the head data as earlier, and no deliveryPlans element can be used. In this case the old process is valid, and only one load and unload address can be recorded.

When a version earlier than 1.8 is used, the system responds according to the old structure.

An interface in a version earlier than 1.8 cannot serve a request aiming to report several address data by earlier requests. I.e. when an interface with a version earlier than 1.8 is used, only reports can be requested, where there is only one load and unload address given.

2.3.2.4. STRUCTURE AND FIELDS OF THE LOAD AND UNLOAD ADDRESS DATA ELEMENT

Field name	Type	Compulsory	Description	Example
name	150 long text	no	Name of the company at the address. Manager or owner of warehouse.	Raktározó kft.
VATNumber	15 long text	no	In case of a Hungarian company, the first 8 digits of the Hungarian Tax registration number. In case of a foreign company, the community tax registration number.	24653422
phone	15 long text	no	Telephone number of the warehouse/headquarters First digits shall be 00,+or06. After 00 or +, maximum 14digit characters shall follow. After 06, on 1 or 2 digit characters the area code, then	+36221321654

			on 6-7 digit numbers the telephone number shall follow.	
email	128 long text	no	Email of the warehouse/headquarters	info@raktar.hu
country	2 long text	no	Country code	HU
zipCode	7 long text	no	Zip code	111
city	50 long text	no	City	Budapest
street	150 long text	no	street	Fő
streetType	50 long text	no (can be given in street field)	Street type	utca
streetNumber	10 long text	no	number	1
lotNumber	15 long text	no	Topographical lot number. If house number is unknown or not distributed etc.	11231/A.
gpsPosition/latitude	decimal	no	GPS coordinate - latitude	19.04
gpsPosition/longitude	decimal	no	GPS coordinate - longitude	47.498056

In case of load and unload address, when the house number is not known or non-existing, the topographical lot number or GPS coordinates (latitude, longitude) have to be given in the lotNumber field. When the report or the given deliveryPlan contains a hazardous item, giving the GPS coordinate only is not sufficient.

2.3.2.5. ADDRESS DATA VERIFICATION

- **When tradeType=I (from Community to domestic relation):** Unload address has to be a Hungarian address, tax registration number (8 long) given at unload address has to be an existing Hungarian tax registration number.
- **When tradeType=E (from domestic to Community relation):** Tax registration number (8 long) given at the load address has to be an existing Hungarian tax registration number with a Hungarian address. Unload address is optional.
- **When tradeType=D (domestic -> domestic relation):** Addresses given have to be Hungarian, and the tax registration numbers (8 long) given have to be existing Hungarian tax registration numbers.

In case of simplified report, load and unload data shall not be given.

In case of normal report, load and unload address shall be given in every direction.

The delivery of certain goods (regulated by legislation) is only allowed to tax subjects having a FELIR number.

Email and phone fields are always optional.

At the address data on the XSD level everything is optional, however they are validated according to the logic of business data. Within the address to be given, the following rule is valid:

name: not compulsory

VATNumber: not compulsory

country: compulsory

zipCode: compulsory

city: compulsory

street: compulsory when there is no lotNumber given

streetType: not compulsory

streerNumber: compulsory when there is no lotNumber given

lotNumber: optional, but when it is not given, then street and streetNumber are compulsory.

gpsCoord: optional, when the lotNumber and streetNumber + street is missing, it can be given.

* : In case of import, when isDestinationCompanyIdentical = false, compulsory for unload location, when the items contain hazardous goods.

2.3.2.6. COUNTRY LIST

At the address data and the country fields only the following country codes can be given:

AT	Austria
BE	Belgium
BG	Bulgaria
CY	Cyprus
CZ	Czech Republic
DK	Denmark
GB	United Kingdom
XI	Northern Ireland
EE	Estonia
FI	Finland
FR	France
GR	Greece
NL	the Netherlands
HR	Croatia
IE	Ireland
PL	Poland
LV	Latvia
LT	Lithuania
LU	Luxembourg
HU	Hungary
MT	Malta
DE	Germany
IT	Italy
PT	Portugal

RO	Romania
ES	Spain
SE	Sweden
SK	Slovakia
SI	Slovenia

2.3.2.7. VEHICLE COUNTRY LIST

Only the following country codes can be inserted in the vehicle and vehicle2 element country field:

A	Austria
AFG	Afghanistan
AIA	Anguilla
AL	Albania
AM	Armenia
AND	Andorra
ANG	Angola
AUS	Australia
B	Belgium
BD	Bangladesh
BDS	Barbados
BF	Burkina Faso
BG	Bulgaria
BH	Bahrain
BIH	Bosnia-Herzegovina
BOL	Bolivia
BR	Brazil
BRN	Bahrain
BRU	Brunei
BS	Bahamas Nassau
BVI	British Virgin Islands
BW	Botswana
BY	Belarus
C	Cuba
CAM	Cameroon
CC	Coco Island
CD	Democratic Republic of the Congo
CDN	Canada
CH	Switzerland
CI	Ivory Coast
CL	Chile
CO	Columbia
CR	Costa Rica
CV	Green Cape Republic
CY	Cyprus

CZ Czech Republic

D Germany
DK Denmark
DOM Dominican Republic
DPR North Korea
DY Benin
DZ Algeria

E Spain
EAK Kenya
EAT Tanzania (Tanganyika)
EAU Uganda
EAZ Tanzania (Zanzibar)
EC Ecuador
ER Eritrea
ES Spain
EST Estonia
ET Ethiopia
ETH Ethiopia

F France
FIN Finland
FJI Fiji
FL Liechtenstein
FO Faroe Islands
FSM Federal States of Micronesia

G Gabon
GB Great Britain
GBA Alderney
GBG Guernsey
GBJ Jersey
GBM Isle of Man
GBZ Gibraltar
GCA Guatemala
GE Georgia
GH Ghana
GR Greece
GUY Guyana

H Hungary
HK Hong Kong
HKJ Jordan
HR Croatia

I Italy

IL	Israel
IND	India
IR	Iran
IRL	Ireland
IRQ	Iraq
J	Japan
K	Cambodia
KS	Kirgizstan
KWT	Kuwait
L	Luxembourg
LAO	Laos
LAR	Libya
LB	Liberia
LS	Lesotho
LT	Lithuania
LV	Latvia
M	Malta
MA	Morocco
MAL	Malaysia
MC	Monaco
MD	Moldova
MEX	Mexico
MGL	Mongolia
MK	North Macedonia
MNE	Montenegro
MOC	Mozambique
MS	Montserrat
MW	Malawi
MYU	Myanmar
N	Norway
NA	Namibia
NAM	Namibia
NAU	Nauru
NEP	Nepal
NIC	Nicaragua
NL	The Netherlands
NZ	New Zealand
OM	Oman
P	Portugal
PA	Panama

PE Peru
PK Pakistan
PL Poland
PR Puerto Rico
PS Palestine
PY Paraguay

Q Qatar

RA Argentina
RC Taiwan, Republic of China
RCA Central Africa
RCB the Kongo
RCH Chile
RG Guinea
RH Haiti
RI Indonesia
RIM Mauritania
RKS Kosovo
RL Lebanon
RM Madagascar
RMM Mali
RO Romania
ROK Korea
RP the Philippines
RPB Benin
RSM San Marino
RU Burundi
RUS Russia RWA Ruanda

S Sweden
SA Saudi Arabia
SD Sudan
SGP Singapore
SK Slovakia
SLO Slovenia
SME Suriname
SN Senegal
SO Somalia
SRB Serbia
SUD Sudan
SY Seychelles
SYR Syria

T Thailand
TCH Chad TG Togo
TJ Tadzshikistan

TM	Turkmenistan
TN	Tunisia
TR	Turkey
TT	Trinidad and Tobago
UA	the Ukraine
UAE	Arab Emirates
USA	The United States of America
UY	Uruguay
UZ	Uzbekistan
V	Vatican
VN	Republic of Vietnam
WAG	Gambia
WAL	Sierra Leone
WAN	Nigeria
WD	Dominican Community
WG	Grenada (Windward Is.)
WL	Santa Lucia (Windward Islands)
WS	West Samoa
WV	St. Vincent (Windward Islands)
X	Others
YAR	Yemen
Z	Zambia
ZA	South African Republic
ZRE	Zaire
ZW	Zimbabwe

2.3.2.8. DELIVERYPLANS LIST STRUCTURE (DELIVERYPLAN)

The deliveryPlan list contains deliveryPlan elements. Several deliveryPlans can belong to one report. The deliveryPlan contains the load and unload address data, and includes the items to be delivered on the itinerary thus defined.

Field name	Type	Compulsory	Description	Example
id	Attribute 30 long id	no	Generated by the server at reporting. In case of Create operation not to be given. In case of modification compulsory. The server identifies based on this Which deliveryPlan to modify	12ASDF356DFG

externalId	50 long text	no	The reporting party can provide any number of IDs or numbers to the deliveryPlan, by which it can be identified in their own system.	1
isDestinationCompanyIdentical	Xs:boolean	No, default false	The addressee (buyer) is identical with the addressee of unload? If the company at the unload address is different from the addressee (buyer), the value will be "false" only in import relation, in case of a risky item. In other cases to be ignored.	false
loadLocation	element	yes	Load address	Budapest Ipartelep u 1.
saveLoadLocation	xs:boolean	not default: false	In case of yes, the load address is saved to favourites, if it is not already there	true
unloadLocation	element	yes	Address of unload	Budapest Közraktár utca 1.
saveUnloadLocation	xs:boolean	no, default false	unload address is saved to favourites, if it is not already there	
items	Element list (tradeCardItem)	yes	Items of the report. Optional list. (Only compulsory in case of a normal type report)	

2.3.2.8.1. ITEMS LIST STRUCTURE (TRADECARDITEM)

The items list from version 1.8 is contained by both tradeCardInfoType and deliveryPlanListType due to backward compatibility. The items list contains tradeCardItems, which describe items related to the operation. The item contains the product(s) related to the transport, their weight and other information.

One item is related to the following data:

Field name	Type	Compulsory	Description	Example
id	Attribute 30 long ID	no	Generated by the server at the setting of the operation. In case of Create operation not to be filled in. In case of modification compulsory. The server identifies the item to be modified based on this data.	12ASDF356DFG
itemOperation	Enumerated, values: create, modify, delete	no	item operation, from requestVersion 1.9.	create
itemExternalId	50 long text.	no	From 1.6 requestVersion. Reporting party can provide the item with an item and order number according to wish, and based on these can identify the item in their own system.	1
tradeReason	Enumerated: S: Sale/Procurement W: Wagework O: Other	yes	Reason to transport the goods. A: Own product was deleted, however due to earlier requests it shall remain in the interface. It cannot be given in case of new request.	S
productVtsz	8 long text. Can only contain numbers.	yes	VTSZ number of the item. From 1st of January 2021 always must be 8 characters long	03034921
productName	200 long text	Yes	Product name in text used by the operator. (does not correspond to the VTSZ)	Kékúszójú tonhal filé
productVtszGroupName	1000 long text	No	The group connected to the VTSZ number. It is	Burgonya frissen vagy

			used only from 1.9 and above and can be found in the manageTradeCardsResponse and it is not mandatory to send in a request.	hűtve
adrNumber	Max. 200 long text	Only compulsory in case of dangerous goods (e.g. fuel)	UN dangerous goods code, the value of categorization. When more is transported, then can be listed separated by comma. Without UN prefix.	0336,1263
transportLicense	30 long text	No	In case of transportation of dangerous goods, number of the licence. Issued by the disaster protection authority.	
weight	xs:decimal	Yes	Item weight: gross weight in kgs. Max 9 long number with 3 decimals.	425.125
value	xs:decimal	No	Procurement value of item in HUF. When the financial settlement is in foreign currency, calculated on the current fx rate known. Max 11 long whole number. Only to be given in case of hazardous items!	1250000
valueModReasonText	200 long text	no	In case of value modification, modification has to be given	"Less goods can be delivered"
weightModReasonText	200 long text	no	Given in case of weight modification.	"Less goods can be delivered"
factoryItemNumber	200 long text	no	Factory number, when the item covers only one specific product.	7622210240200
importerItemNumber	200 long text	no	Item number used by the operator. When the item A covers only one specific product.	TS7622/11
expirationDate	xs:date	no	When the item is food, the date of expiry.	2015-07-20
batchNumber	30 long	no	Batch number. Production ID.	234
statusModReasonText	200 long	no	Item status modification reason text (creation, deletion)	error in administration
productModReasonText	200 long	no	Item vtsz, name, value modification reasons text	Making item description more precise

vatRateAssuranceExemption	xs:boolean	No (Only from requestVersion 2.1 default: false)	The item need no assurance lock due to the VAT rate?	false
productVtszGroupName	1000 long	No	Contains cct_description value	
insUser	30 long	No	user recording the item	
insDate	Xs:dateTime	No	Time of recording the item.	
modUser	30 long	No	user modifying the item	
modDate	xs:dateTime	No	time of modifying the item	

Value definition:

In case the road transportation of the product is product procurement or product sale, the value of the individual items without tax, in case of road transportation for other purposes, purchase price belonging to the given items without tax, or the purchase price of a similar product without tax, if no such price is available, production price without tax.

In case of TradeCards which received their EKAER number at or after 1st of January 2021 the value becomes mandatory for every item.

2.3.2.9. VERIFICATIONS RELATED TO ITEMS

The system performs verifications at the registration of items based on the following:

- VTSZ number verification (whether it exists).
- based on VTSZ, when the product is risky, an assurance is calculated. The item can only be recorded when there is sufficient cover for the assurance.
- based on VTSZ, the product is obliged to have a FELIR number. The FELIR number verification of the operator is performed (based on NÉBIH data). These products can be unloaded only at an address registered in the address list managed by NÉBIH (First warehousing place).
- based on VTSZ, whether the product belongs to dangerous goods.
- Verification of the first warehousing place
- Whether the given good is food.
- In case of TradeCards which received their EKAER number at or after 1st of January 2021
 - Every productVtsz element should be 8 characters long
 - Every TradeCardItem must have a value greater than 0.

On item level in case of Active operations, only the following fields can be modified:

- VTSZ number
- Name
- UN number
- Volume, weight (Kg)
- Value (HUF)
- Plate number, vehicle data (Plate number, vehicle county)
- Unload place data (Unload place address data)

2.3.2.10. TRADE REASON

At the operation items, the reason for recording the given item is to be given. This also affects assurance calculation. The reason for item transportation has to be given in the tradeReason field.

S: Sale of goods/purchase of goods. Assurance is calculated.

A: Owned goods. Assurance is calculated. (Deleted, cannot be used after March 1, 2015)

W: Wagerwork. No assurance is calculated.

O: Other purpose. No assurance is calculated.

The reasons for freight can be set in the header of the report, in accordance with the freight direction given in the tradeType.

From domestic to Community (E):

Wagework (W)
Sale of goods
(S) Other (O)

From community to domestic (I):
Procurement of goods
(S): Wagework (W)
Other (O)

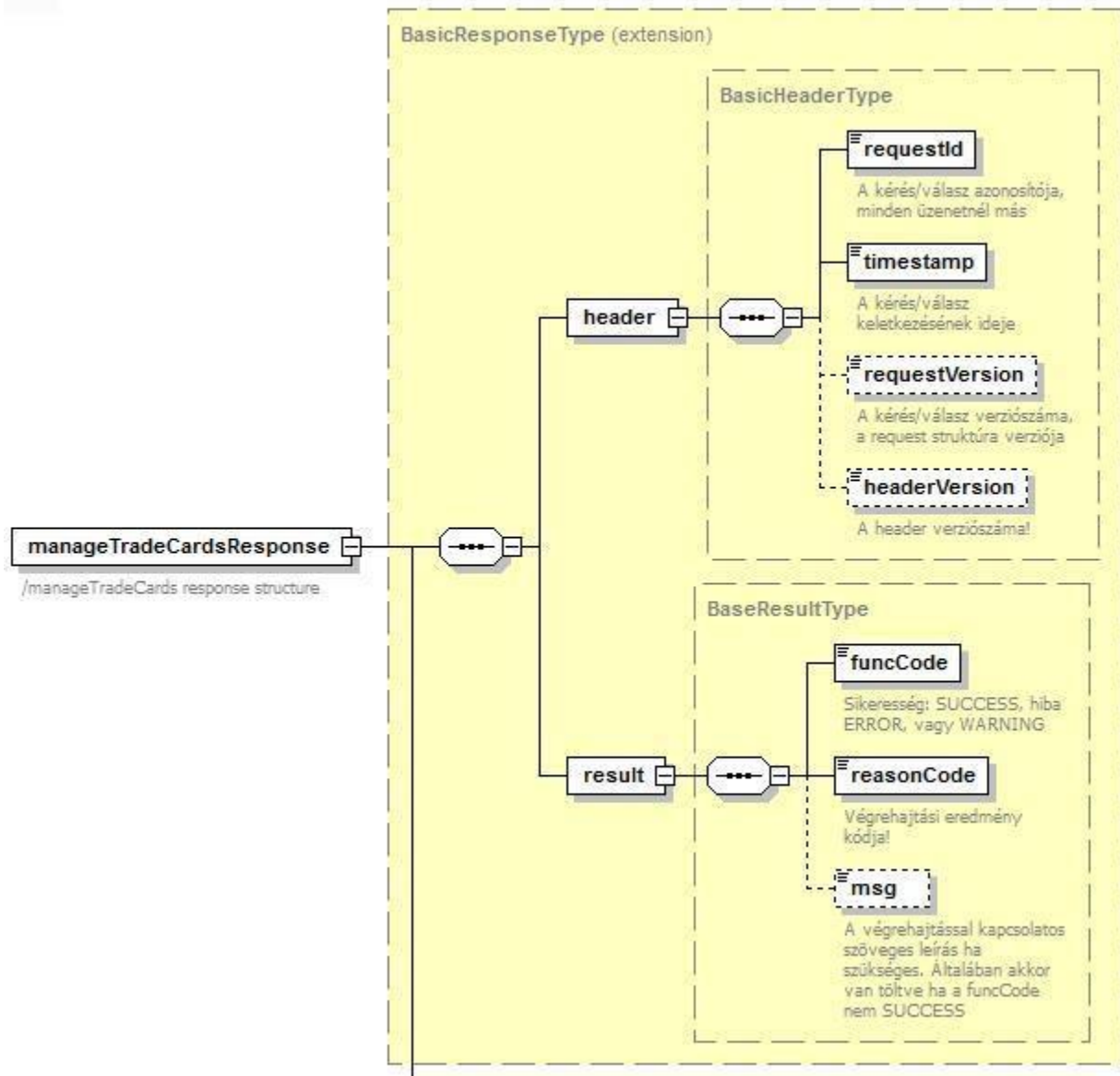
From domestic to domestic (D):
Procurement of goods
(S): Wagework (W)
Other (O)

2.4. MANAGETRADECARDSRESPONSE, STRUCTURE OF THE RESPONSE

On the manageTradeCardsRequest XML sent in as a request, the system provides a response XML, which is described by the manageTradeCardsResponse element in the XSD. The response XML contains the result of the processing.

The response XML has the same header and user header as the request.

The business response is within the tradeCardOperationsResults element, which is an operationResult list. The list has as many elements as the request. For any operation arrived in request this list returns the result.



4. illustration manageTradeCardsResponse element structure

2.4.1. OPERATIONRESULT RESULT

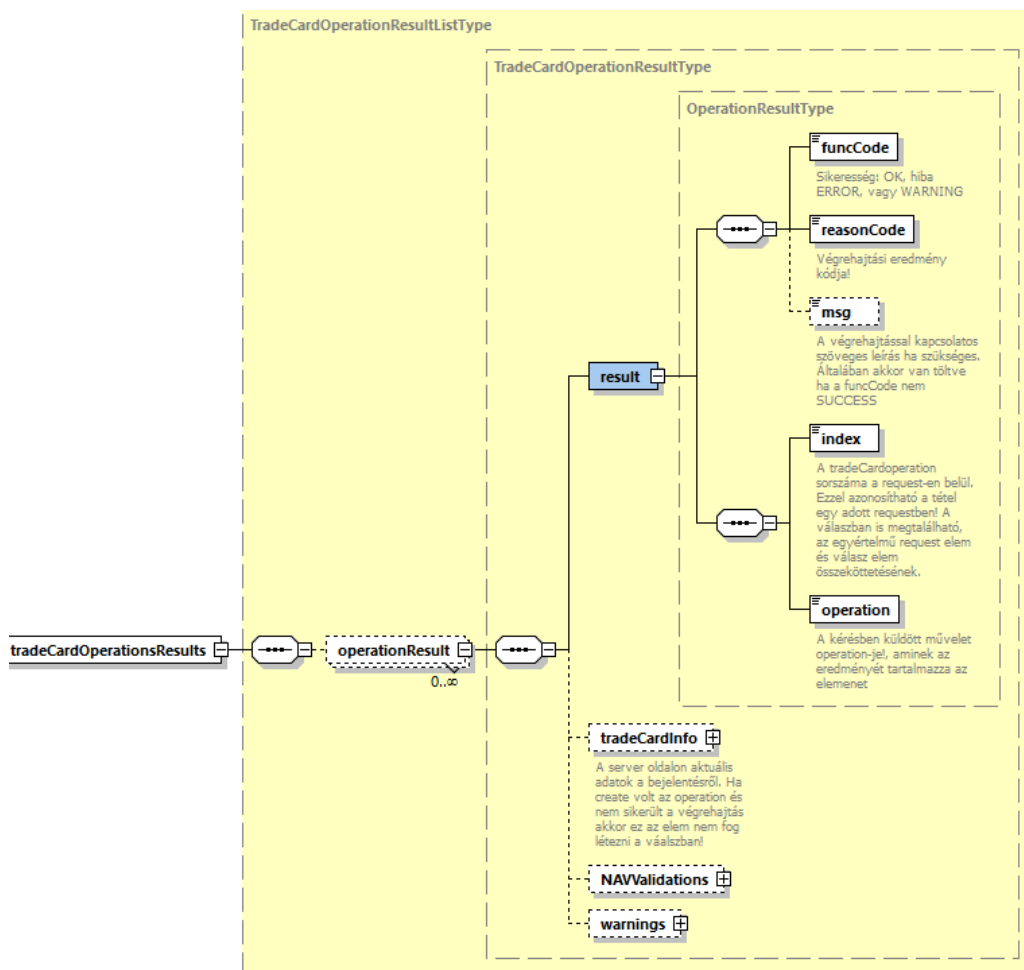
The list received as response contains operationResult elements. One element contains the result of an operation received in one request.

Fields:

Field name	Type	Compulsory	Description	Example
result	OperationResultType xsd type	yes	Contains the result of the operation.	
tradeCardInfo	TradeCardBasicInfoType	yes	Basic data of the operation related to the	

The result contains data and success related to the operation.

The tradeCardInfo contains information related to the registration of the operation.



5. illustration tradeCardOperationsResults structure

2.4.1.1. RESULT STRUCTURE (OPERATIONRESULTTYPE)

Result element fields:

Field name	Type	Compulsory	Description	Example
funcCode	Enumerated, OK, WARNING, ERROR	yes	Indicates the success of the operation. OK: Everything successful, WARNING: partly successful (typically not in use) ERROR: Error, operation failed	
reasonCode	Enumerated type	yes	Exact error code of the result of the execution. SUCCESS is successful. Others refer to errors.	
msg	200 long text	no	In case of error, the msg contains the more detailed text description of the error.	
index	xs:integer xsd whole number type	yes	Ordinal number of the operation (in the request), the result is contained by the operationResult	
operation	Enumerated:create, modify, delete, finalize correction	yes	Indicates the manner of modification.The type of the given modification task.	create

Index and operation are copied from the operation received in the request. Based on these it can be seen to which operation the given response belongs to in the request.

The reason of the execution can be seen in the funcCode and the reasonCode, while if there was an error, the msg field contains the text description.

2.4.1.2. TRADECARDINFO ELEMENT STRUCTURE

In the responseXML this element contains trade data related to the operation (after the execution of the operation, about the current status). The majority also arrived in the request.

Field name	Type	Compulsory	Description	Example
tcn	20 long text	Compulsory in case of modification, otherwise can be omitted	EKAER number of the operation. Identifies the operation.	12312312331
orderNumber	50 long text	no	Identifies the operation/order in the own system of the user.	ASDF234fFfas3
tradeType	Enumerated:E,I,D	yes	This field defines the relation of the product movement.	
isSellerDelivery	boolean	No (from version 1.7). Default true.	Delivery is performed by seller? In case of addressee report registration, false (not performed by the seller)!	false
modByCarrierEnabled	boolean	yes	Indicates whether the carrier can modify the operation or not. When yes, it can be modified, when no, it cannot.	true
carrier	30	no	Not to be given compulsory. When given, the id of the existing carrier.	
carrierText	200 long text	no	Not compulsory. Text name of carrier.	"Pelda Trans Kft."
isIntermodal	Logical xs:boolean	no	In case of intermodal delivery has to be set to yes. When this value is true, the country of load and unload is not validated. Exists from interface version 1.6.	true
isDestinationCompanyIdentical	Xs:boolean	No, default false	Is the addressee (buyer) identical with the addressee of unload? When the company of unload is different from the	false

			addressee, value is 'false', in the import relation it shall be given only in case of hazardous goods. Otherwise, to be ignored.	
sellerName	200 long text	yes	Name of the sender/seller company, from which product movement is started.	„Első Kereskedő Kft.”
sellerVatNumber	15 long text	yes	In case of a Hungarian sender, the first 8 digits of the Hungarian tax registration number. In case of a foreign sender, the community tax registration number.	32165478
sellerCountry	2 long text	no (in case of tradeType E and D yes)	Country code of the sender/seller	HU
sellerAddress	200 long text	no (in case of tradeType E and D yes)	Address of the sender/seller.	Budapest Kisdobostér 2.
destinationName	200 long text	yes	Name of the destination/buyer company, where the product movement starts.	„Első Kereskedő Kft.”
destinationVatNumber	15 long text	yes	Tax registration number of the destination/buyer company. In case of a Hungarian destination, the first 8 digits of the Hungarian tax registration number. In case of a foreign destination, the community tax registration number.	32165478
destinationCountry	2 long text	no (in case of tradeType I and D yes)	Country code of the destination/buyer company	HU
destinationAddress	200 long text	no (in case of tradeType I)	Address of the destination/buyer	Budapest Kisdobos tér 1.

		and D yes)	company	
unloadReporter	Enumerated: S	no, default is S	To be considered ONLY in case of domestic delivery (tradeType=D). Signifies who can report unload. S: only the reporting party (seller)	S
loadLocation	element	yes	Address of loading	Budapest lpartelep u 1.
unloadLocation	element	yes	Address of unloading	Budapest Közraktár utca 1.
plateNumberModReasonText	200 long text	no, only to be given when plate number is changed	Reason to change plate/vehicle.	"Towing vehicle had to be changed".
vehicle/plateNumber	element (vehicle data) plate number	no (but has to be filled it before the finalization of the element)	Registration plate number of the vehicle (tractor).	ABC321
vehicle/country	3 long text	no	Country belonging to the registration plate number. Accepted from A to Z.	H
vehicle2/plateNumber	element (vehicle data)	no	The first tow	FFF397
vehicle2/country	3 long text	no	Country belonging to the registration plate number. Accepted from A to Z.	H
loadDate (from 2.0 loadDate/loadDateOnly)	xsd dateTime xsd dateTime (from 2.0 can can be xsd:date)	No	Time of load	2014-12-04T08:45:00+01:00 or 2014-12-04+01:00
arrivalDate (from 2.0 arrivalDate/arrivalDateOnly)	xsd dateTime (from 2.0 can can be xsd:date)	No (but from 2.0 it has to be given in the finalization operation)	Time of load	2014-12-04T08:45:00+01:00 or 2014-12-04+01:00
tradeCardType	Enumerated(S)imp l e, (N)ormal	no, default is N. (meaning Normal)	Report type. Normal or Simple. Simple is simplified. When Simple, no item is needed, not treated.	N
statusChangeModReasonText	200 long text	No	To be given when active report is deleted, the reason	"Delivery failed!"

			of deletion	
Items	Element list (tradeCardItem)	Yes	Items of the operation. A list containing at least one element.	Structure described in chapter 2.3.2.5
VATNumber	8 long text	No, only if the registering party has a tax number	Tax number of the registering party. Server side manages and fills automatically.	32165498
taxIdentifier	10 long text	No, only if the registering party has a tax ID	Tax ID of the registering party. Server side manages and fills automatically.	321654879
status	Enumerated: P: under planning S: Active EKAER, received number F: Finalized, finished I: Inactive D: Deleted	Yes	Current status of the operation. In XML-based operations S status given automatically. P status is given only when registering via WEB	S
totalWeight	xs:decimal	Yes	Total weight of items registered in the operation in kilograms.	1500
totalValue	Xs:decimal	Yes	Total value of items registered in the operation in HUF.	1250000
totalAssuranceLocked	xs:decimal	Yes	Value of assurance locked for the operation in HUF.	187500
finalizationTime	xs:dateTime	No	Time of registering the finalization. After unload.	2015-01-15T17:35:00+01:00
insDate	xs:dateTime	Yes	Datetime of registering the EKAER number.	2015-01-14T10:25:15+01:00
tcnValidityStart	xs:date	No	In case of reports with EKAER number the starting time of the validity of the EKAER number	2015-01-14+01:00
tcnValidityEnd	xs:date	No	In case of reports with EKAER number the expiry time of the validity of the EKAER number. (start + 15 days)	2015-01-18+01:00

deliveryPlans	element	No	deliveryPlans recorded to the report.	
Allowances	element	No	Contains the date of the allowance payment after modifying a finalized trade card	

2.4.1.3. NAVValidationListType element

The element contains the result of the validation connected to the tax authority. It will only be given in the response if the request's requestVersion was 2.0 or above and fits one of the validations. It is only for warning purposes therefor the transaction will be successful. If the response contains such warning it should be considered if it needs any modifications.

Field name	Type	Compulsory	Description
code	enumerated	Yes	Validation result code
Message	Text	No	Validation result message

Validation result codes (It can contain more than one):

TC_LOW_TOTAL_VALUE_WARN
TC_HIGH_TOTAL_VALUE_WARN
TC_LOW_TOTAL_WEIGHT_WARN
TC_HIGH_TOTAL_WEIGHT_WARN
TC_WRONG_ZIP_CITY_WARN
TC_INACTIVE_CPA_FOUND

2.4.1.4. WarningListType element

The element contains informational validation results. It will only be given in the response if the request's requestVersion was 2.0 or above and fits one of the validations. It is only for warning purposes therefor the transaction will be successful. If the response contains such warning it should be considered if it needs any modifications.

Field name	Type	Compulsory	Description
warning	enumerated	No	Validation result codes.

Validation result codes:

TC_LOADDATE_TIME_WARN

2.4.1.5. AllowanceListType

The element contains data related to the allowance payment that is the result of the finalized trade card modification (correction).

Field name	Type	Compulsory	Description
allowanceValue	Decimal	No	The value of the

			allowance payment
allowanceDueDate	Xsd:date	No	The due date of the allowance payment

2.4.1.6. OPERATION STATUSES (STATUS)

The operations have a technical lifecycle managed by the status field. It is given from which status to which status one can step to, and what compliance tests are performed by the system in case of status change. In case of non-compliance the status cannot be modified.

Status codes:

- **P:** Under planning. An operation is put into this status only when it is created through the WEB surface. The operation remains in this status until the user requests an EKAER number for the operation, indicating the planning is over.
- **S:** An active operation with an EKAER number. The unload has not been reported yet, or it is within 15 days. The assurance has been already calculated. Operations created through the XML communication interface are automatically created in this status, therefore are given an EKAER number automatically, and the assurance is also calculated.
- **F:** Finalized operation, either with an expired lifecycle of 15 days, or the fact and time of unload has been already reported.
- **I:** Inactive operation. An operation can be put from S (Active) status to inactive status when deleted. In this case the operation becomes inactive, assurance calculation is performed and as a result the locked assurance limit is set free.
- **D:** Deleted operation. An operation can be put from status P (Under planning) into this status. The operation can be put in P status only as when created through the WEB interface.

2.5. PROCESS AND STEPS OF ASSURANCE CALCULATION

The system manages the assurances in a 45 day “sliding” window. The assurances behind the operations are calculated from the issue of the EKAER number to 45 days retroactively based on the value of the risky products on the operation.

Assurance is only calculated in the following transportation relations:

- Transportation from the Community to domestic, international
- Transportation from domestic to domestic, domestic

Based on the reported value of each product considered risky (by law) an assurance is calculated by the system.

The calculation of the assurance is performed at the same time as the allocation of the EKAER number. In practice, this means in case of a new operation created via XML communication it takes place immediately (as the operation has a status S), and in case of an operation via WEB when edited, as a result of the function “request EKAER number”, (when it is put from status P to status S) the assurance is calculated by the system (assurance calculation and reservation available).

In case of the modification of items of operations in status S when the value of the given item is

modified, the system recalculates the necessary assurance automatically. If the modification results in an increase of value, the risk assurance is increased accordingly, and if there is no sufficient assurance limit available, the system does not allow the modification. When the modification is decrease, the risk assurance behind the operation is also decreased.

When an item is deleted, the sum of the risk assurance behind the operation is also set free.

When a operation is put into inactive or deleted status, then assurances related to the risky goods behind it are deleted from the assurance calculation.

2.6. QUERYTRADECARDSREQUEST STRUCTURE

To query the client's own trade cards, an XML message has to be sent to the server. The caller is identified and based on the given parameters the server returns the data of the requests matching the query criteria.

In the XML the header and user sections have to be built up in accordance with the requirements set forth in the chapter about the [General structure of XML messages](#).

Request data can be queried basically in two ways:

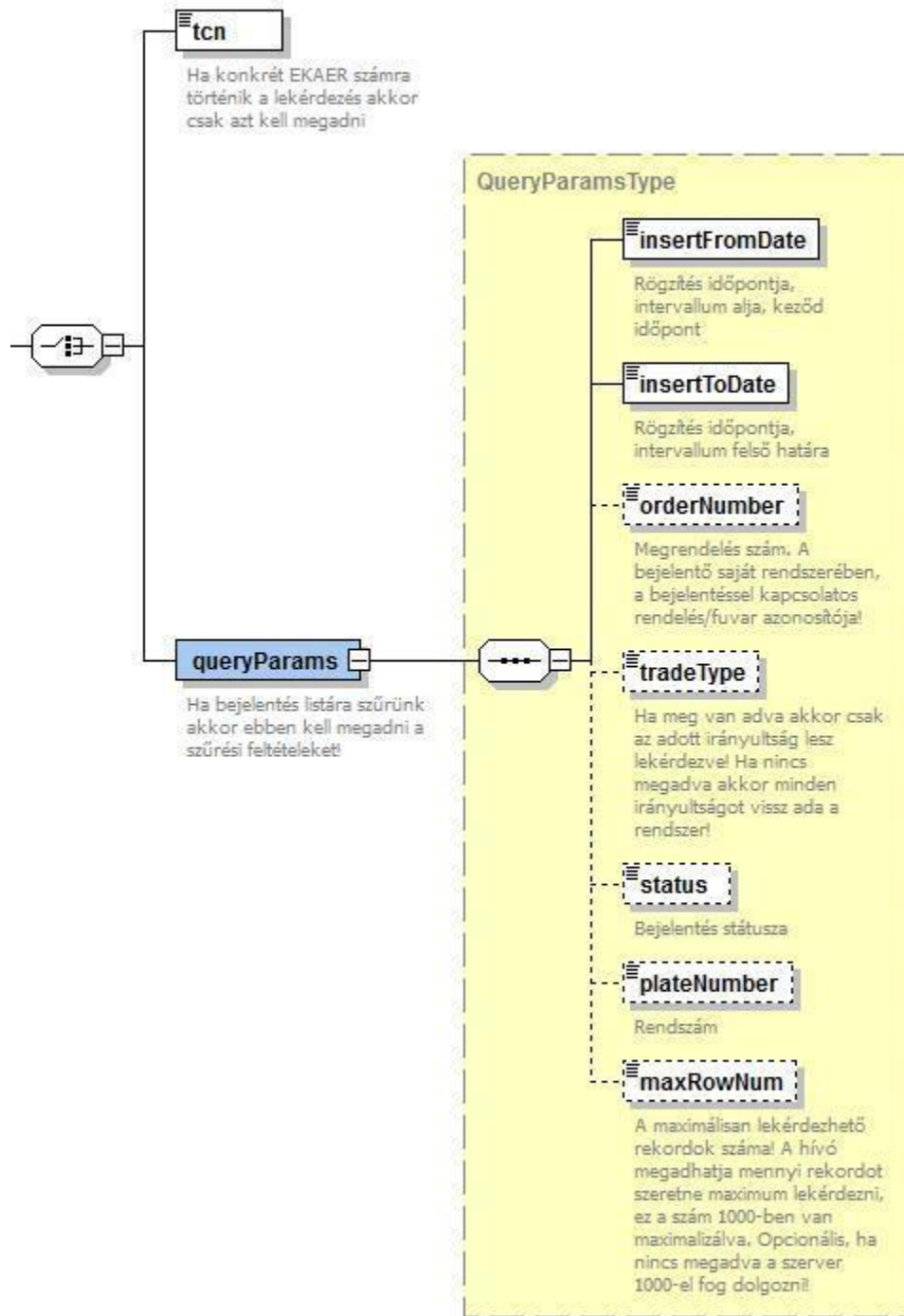
- based on EKAER number (tcn)
- based on the query criteria transmitted in the queryParams element.

In XML, either the tcn or the queryParams choice is visible, thus either one or the other is given, in accordance with Illustration nr. 6.

The query operation returns only the queries with the following statuses:

- **S**: Active request with an EKAER number. Unload has not been reported or is within 15 days. Assurance has been calculated. Requests created through the XML communication interface are given this status automatically, thus are given an EKAER number automatically and assurance is calculated.
- **F**: Finalized request, which has either expired the 15 days lifecycle, or the fact and time of unload has been reported.
- **I**: Inactive request.

For more information about statuses, see [Statuses of requests \(status\)](#).



queryTradeCardsRequest condition choice structure

2.6.1. QUERY BASED ON EKAER NUMBER (TCN)

In XML, in the tcn element, the tcn number of the request to be queried has to be given. The queryParams element cannot be included in the request. A query based on EKAER number can have only one result.

2.6.2. CRITERIA GIVEN IN THE QUERYPARAMS

When not one request is queried, not based on EKAER number, but several requests based on interval (and other filtering criteria), it can be performed according to the criteria which can be given as queryParams element.

The criteria of the query can be given with the following fields:

Field name	Type	Compulsory	Description	Example
insertFromDate	xs:dateTime	yes	Time of the creation of the request. When it was registered in the EKAER system. Minimum limit of the interval.	2015-01-04T10:25:15+01:00
insertToDate	xs:dateTime	yes	Time of the creation of the request. When it was registered in the EKAER system. Maximum limit of the interval.	2015-01-04T10:25:15+01:00
orderNumber	50 long text	no	The number/id of the "Importer order" given in the request. When not given, it is not included among filtering criteria.	2015SDF234DFG
tradeType	Enumerated: E,D, I	no	Direction of freight. From domestic to Community, Domestic freight, from Community to domestic. When it is not given, no filtering is performed based on this criteria, all types are rejected.	I
status	Enumerated: S,F, I	no	Status of the request. The query can only return requests with S, F, I statuses. When not given, all are rejected.	S
plateNumber	4-15 long licence plate number	no	Query can be performed on licence plate number, when not given, it is not included among filtering criteria.	
maxRowNum	xs:integer whole number between 1-1000	No, default 1000	Number of records to be transmitted. Optional, when not given, default value is 1000. The maximum number of reports to be returned by here.	500

2.7. In queries, the following rules have to be observed:

- The maximum interval between insertFromDate and insertToDate can be maximum 30 days.
- By using maxRowNum the number of data to be shown in the query can be set. The default maximum value is 1000. When the server provides 1000 results to an interval, it is worth decreasing the interval, so that we can be certain that we have received all the queries.

2.2 QUERYTRADECARDSRESPONSE STRUCTURE, THE RESPONSE STRUCTURE GIVEN TO THE QUERY

The service provides a response in accordance with the queryTradeCardsResponse element for the query of the requests.

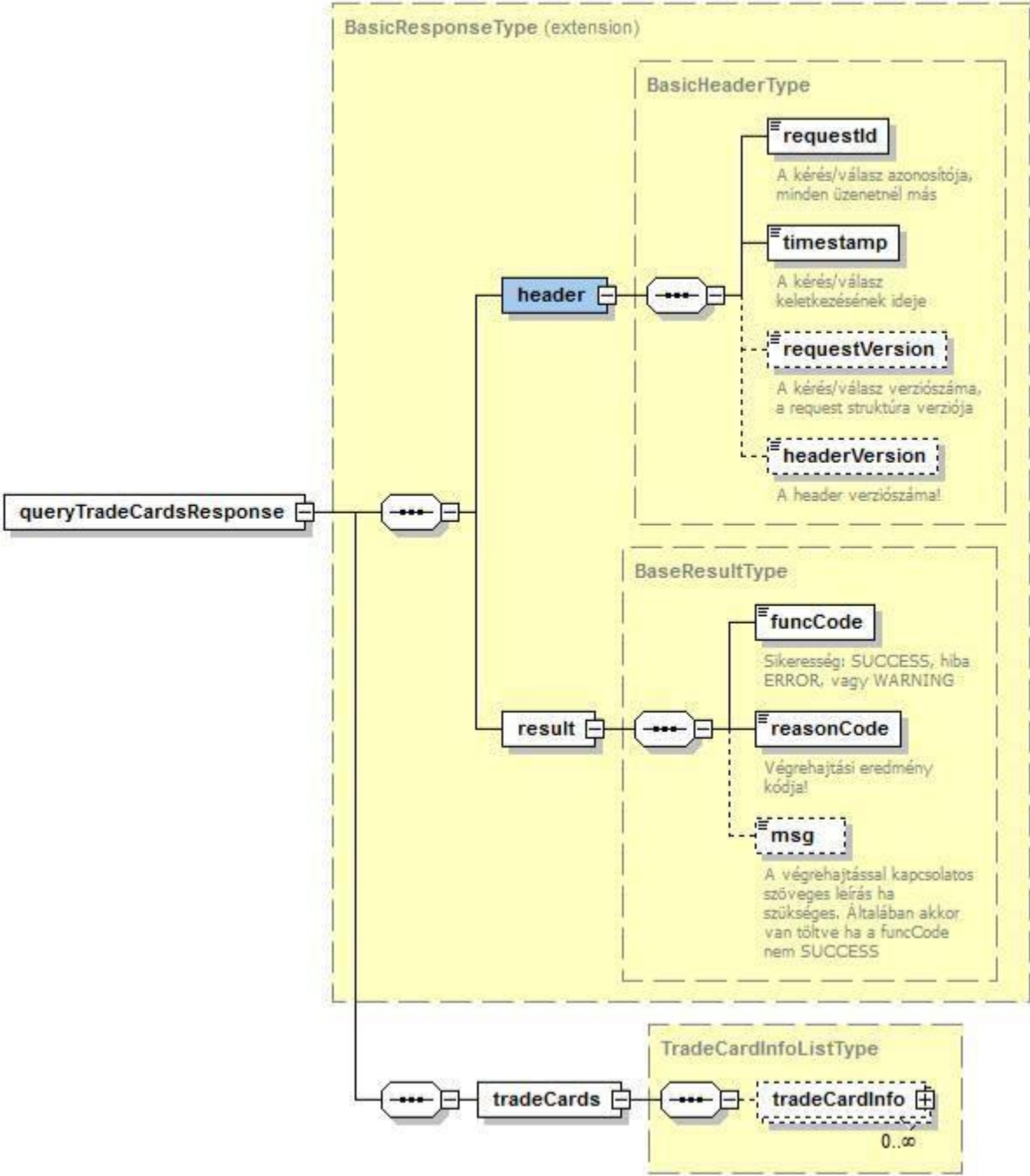
The response starts as usual in a response given to the management of the response XML, with a header and result element. The header element is in accordance with the request, and the result indicates the result of the processing.

The structure of results is detailed in chapter [3.5 Result element in](#) the response message.

Along the criteria given in the request, the service returns the appropriate request data in the response tradeCards element-ben.

The tradeCards element contains a tradeCardInfo list. At the management of requests, the server returns the status of requests in the same structure.

For more information about tradeCardInfo structure see chapter [2.7 tradeCardInfo element structure](#).



7. illustration queryTradeCardsResponse structure

3. TECHNICAL DESCRIPTION OF THE SERVICE

3.1. GENERAL TECHNICAL DATA

The appropriate XML has to be sent to the service via the http POST method, and as a result the XML is returned in the response body. The caller defines the operation to be performed in the request, while in the response the server returns the result of the operation.

Context root:

/EkaerManagementService

XSD:

hu\gov\nav\schemas\EKAER\1.0\ekaermanagement.xsd

The XML messages described by the xsd have to be sent to the server via POST method.

Entities used for communication are defined as elements in XSD.

The use and interpretation of the individual elements is also documented in XSD.

3.2. OPERATIONS

/customer/manageTradeCards: Management of operations.

/customer/queryTradeCards: Query of operations.

3.3. HTTP HEADERS

The following http headers have to be given in the request:

content-type=text/xml

accept=text/xml

3.4. HTTP STATUS CODES

The following HTTP status codes will function:

200 OK:

The service gives the appropriate business response to the given operation.

3.5. RESULT ELEMENT IN THE RESPONSE MESSAGE

The result element is there in every response message. This always reflects the uniformed success of the business response.

funcCode: can be OK, WARNING, ERROR. It simply shows that the business execution failed, resulted in an error, or in case of "warning" succeeded party (where applicable).

reasonCode: The result code of execution. **Values to be used here are defined in xsd,**

Enumerated type.

msg: Text description of the result defined by the reasonCode. More accurate description of the error. In case of successful execution not to be filled in, can be omitted.

3.5.1. ReasonCode Enumerated types

The XSD contains a description for the following Enumerated types. The following types and resultCodes has to be interpreted in accordance with the given business process at each operation. Not every reasonCode has a meaning in every operation, this is only a general list.

4. ANNEX

The XSD describing the service and some example XMLs can be found in the annex.

XSD:

ekaermanagement.xsd

common.xsd

The example XMLs cover complete http requests and responses. Besides the XML they contain what http header fields the calls and responses contained.

4.1. EXAMPLE XMLS

The example XMLs can be found on the EKAER FAQ page.

validation_sample:

Request sample for validation. For validation the create example is sent.

create_sample:

Example for a successful creation of a request. Request and response as well. Contains two items.

modify_sample:

Example for the modification of the request created in the create request.

Modifies header and items, and records a new item.

4.2. INTERFACE VERSIONS

The caller can regulate which interface is used by the appropriate filling of the requestVersion element within the header element in the header of the request. By this, backward compatibility is guaranteed as well as the appropriate adjustment of users between the versions. The service behaves in accordance with the version of the request (e.g. does not return an element introduced in a new version, when the version of the request is earlier than the one in which the given element appeared. The same applies to the enumerated types, such as reasonCode. In case of earlier request version no newly introduced reasonCode-ot is returned)

4.2.1. Version “1.0”

Until version number 1.5 of the documentation in the requestVersion in the header 1.0 was expected, or when this optional element did not arrive the server supposes version 1.0. Up to version 1.5 of the documentation the service worked accordingly, in accordance with the contents of the documentation and the xsd attached. This service can be accessed in the system at the URL “Old 1.0 requestVersion”.

The old 1.0 URL is not available from 30 June 2015!

Service address:

TEST: <https://import-test-b.ekaer.nav.gov.hu/TradeCardService>

PROD: <https://import.ekaer.nav.gov.hu/TradeCardService>

4.2.2. “Version 1.6”

With the 1.6 document version the access URL of the service also changed. At the access of the system, at the URL marked with “New 1.0 and 1.6 requestVersion, backward compatible” the service working appropriately with the requests marked with version number 1.6 and above can be accessed.

With the 1.6 version, **TradeCardService changed to TradeCardManagementService in the access.**

Following the start-up of the new service the service accessible at the old URL is still available, but the new options will not be available there, it will work in the future in accordance with the 1.0 requestVersion (, defined up to the 1.5 document change).

Service address:

TEST: <https://import-test-b.ekaer.nav.gov.hu/TradeCardManagementService>

PROD: <https://import.ekaer.nav.gov.hu/TradeCardManagementService>

4.2.3. Version 1.7

New functions and enumerated ReasonCodeType can be accessed for more accurate use. A big difference compared to earlier operation that certain modifications have to be substantiated, i.e. in case of modification the reason of modification has to be inserted in a dedicated field.

Version 1.7 is compatible with 1.6, service works with the default values of the new, optional elements. Only elements matching the version are included in the responses. The service works with the validation according to the new regulation, consequently it has become more strict.

The new reasonCodes introduced in 1.7, in case of a response given to a request with a lower version number, are mapped back by the system to a reasonCode existing in that version, so that the response can be correct based on the earlier xsd version.

4.2.3.1. New reasonCodes from version 1.7

TC_MOD_REASON_MISSING: The reason of the modification of the request head is compulsory!

TCI_MOD_REASON_MISSING: The reason of the modification of the item is compulsory!

TC_SELLER_VATNUMBER_MUST_BE_CUSTOMERS: The VAT number of the reporting party (customer) must be identical with the VAT number of seller (sellerVatNumber)! Can occur in case of no addressee report! (isSellerDelivery=true)

TC_SELLER_DELIVERY_MOD_NOT_ALLOWED: isSellerDelivery cannot be modified!

TC_FINALIZE_NOT_ALLOWED: Finalization, closing not allowed! Typically, Export trade cards cannot be closed manually, it is closed automatically with the expiry of the EKAER number!

TC_UNLOAD_LOCATION_COMPANY_INFO_MISSING: In import direction (tradeType=I), when hazardous goods are delivered, when the unload address (takeover, unloadLocation) is not identical with the addressee (isDestinationCompanyIdentical=false, destinationVatNumber, destinationName), the VAT number and name of the takeover company has to be given (unloadLocation.VATNumber, unloadLocation.name)!

TC_IS_DESTINATION_COMPANY_IDENTICAL_MISSING: Does not occur on XML interface. isDestinationCompanyIdentical element is treated with default false value!

TC_IS_DESTINATION_COMPANY_REQUIRED: On the XML interface this error code cannot occur, as TC_UNLOAD_LOCATION_COMPANY_INFO_MISSING! occurs earlier. These two error codes here cover two identical cases!

TC_NOT_ALLOWED_DATA_MODIFICATION: Data modification not allowed. The caller receives an error code like this when the caller tries to modify data in the report, which is not allowed to be modified for some reason!

4.2.3.2. In case of load addresses GPS position can also be given

GPS position can be given instead of topographical lot number or street + house number, in WGS84 format. Optionalelement.

4.2.3.3. Changes related to report data

isSellerDelivery field: optional logical field. Indicates that the sender provides for delivery (in the earlier logic it was always true, therefore the default value will be true in the future. If not given, the system interprets it as true!).

Starting from 1st of January 2021 addressee submission will no longer be available for submission. Although the element "isSellerDelivery" should be used properly when managing TradeCards that received their EKAER number before that.

After 1st of January 2021 addressee submissions will be rejected, the request will result in an ERROR.

isDestinationCompanyIdentical field: optional logical field. Indicates that the addressee and the takeover company (the company operating at the unload address) are identical, i.e. the addressee and the unload location are the same. When the value is true, unloadLocation.VATNumber and unloadLocation.name fields do not have to be filled in, can be omitted, because they are identical with destinationVatnumber and destinationName.

plateNumberModReasonText: In case of registration plate number modification the reason of modification has to be given. Optional field, has to be submitted if the given operation would modify the plate number. Free text field, the reason has to be given.

tradeCardType: Field indicating the type of the report. In earlier versions the reports had no type. From this version, simplified reporting is introduced and accordingly, this field had to be introduced. It can have two values: N and S, as (N)ormal and (S)imple. The Normal report works as earlier. The data content of the simplified report is much more narrow, and there is no related item. Simplified reporting

is dealt with in a separate chapter.

statusChangeModReasonText: In case of deletion, the reason of the deletion of the report with an active EKAER number has to be given. This has to be given, and it is returned by the system in queries. The value has to be given in tradeCardOperation, when operation is delete.

4.2.3.4. New fields at report items

valueModReasonText: In case the value of the reported item is modified, the reason of modification has to be given in this field, on an item level.

weightModReasonText: In case the value of the reported item is modified, the reason of modification has to be given in this field, on an item level.

The item list belonging to the report does not have to contain element, when the given report is simplified(tradeCardType=S)! The normal report has to contain at least one element.

4.2.3.5. Report by addressee

Starting from 1st of January 2021 addressee submission will no longer be available for submission.

4.2.3.6. Simplified reporting

Simplified contains a lot less data compared to normal. No item belongs to it, and the range of data to be given is much more narrow in the head record.

Simplified reporting can only be performed by authorized persons. The authorized persons can make a declaration on the WEB interface why and how they are authorized. Following the successful declaration simplified reporting can be performed.

Minimum requirements for declaration:

- The tax subject is in the database of tax subjects without public debt
- Tax registration number status cannot be suspended
- In case of certain declaration, the sales revenue must reach the legally binding limit (at present 50 Bn).

In case of simplified reporting loadLocation and unloadLocation data and the isDestinationCompanyIdentical field does not have to be given.

No items have to be given in simplified reporting.

4.2.3.7. Changes in normal reporting

In case of tradeType=N (when the element does not occur, it is regarded as Normal)

- In every relation (tradeType I, D, E) load and unload address is compulsory (loadLocation, unloadLocation)
- At the address data VatNumber, phone, email, name are not compulsory

- In unloadLocation vatNumber and name are compulsory, when tradeType=I (i.e. from the Community to Inland) and the isDestinationCompanyIdentical = false.

4.2.4. “Version 1.8”

4.2.4.1. Introducing a new list in the tradecard

deliveryPlans: contains deliveryPlans.

In the new version address data are not to be given in the head data, but in the newly introduced deliveryPlan. A normal type report has to contain at least one deliveryPlan.

The deliveryPlan contains the load and unload address data. Any number of deliveryPlans can be recorded to a report.

Items element allocated to the Tradecard cannot be given, only allocated to a deliveryPlan! I.e. all the items planned to be carried on the given itinerary have to be defined.

DeliveryPlans cannot be deleted, even if all the items are deleted in the given deliveryPlan.

A new item can only be allocated to an existing deliveryPlan, a new deliveryPlan cannot be recorded to an active report.

Backward compatibility support:

In versions earlier than 1.8 address data has to be given in the head data as earlier, and no deliveryPlans element can be used. In this case the old process is valid, and only one load and unload address can be recorded.

When a version earlier than 1.8 is used, the system responds according to the old structure.

An interface in a version earlier than 1.8 cannot serve a request aiming to report several address data by earlier requests. I.e. when an interface with a version earlier than 1.8 is used, only reports can be requested, where there is only one load and unload address given.

4.2.4.2. New reasonCodes

'TC_GPS_DATA_NOT_ALLOWED_WITH_RISKY_ITEM': In case of hazardous items giving the GPS coordinates only is not allowed, exact address data are necessary.

'INVALID_TRANSACTION_STATE': operation not allowed in the current status of the report.

4.2.4.3. New fields in items:

On items level two optional modification reasons were introduced:

'statusModReasonText': reason of item status modification (deletion, creating new)

'productModReasonText': reason of item vtsz or name modification

4.2.5. Version “1.9”

Providing modification reason when adding (creating new item)

statusModReasonText compulsory in these cases. Due to this the item management process is modified. In case of a CREATE operation the process does not change, in case of MODIFY operation the new operation field of the item has to be submitted every time.

The ID of earlier registered items has to be filled (except for the creation of new item)! When new item is added, itemOperation = ‘create’

When an existing item is modified, itemOperation = ‘modify’

When an existing item is deleted, itemOperation = ‘delete’

The items to be deleted have to be included in the request!

When the data of the items in the tradecard modification request do not change, nevertheless the ‘modify’ value has to be set in the itemOperation!

To provide this operation, a shift for the 1.9 version is necessary!

However, in spite of the date advised earlier (30th of June), the compulsory use of the 1.9 version is due on August 15th.

Vehicle country value set regulation

- in the vehicle and vehicle2 element, in the country field the values listed in 2.3.2.7 are approved by the system!

The check is service level, independent of interface version.

The TradecardInfoType was added a modDate field. **Optional, the system serves it as a response from version 1.9.**

The TradeCardItemType was added the following optional fields:
insdate, insUser, modDate, modUser

The system serves it as a response from version 1.9.

weight type modification: **the value can be set up to 3 decimals**

4.2.5.1. New reasonCodes from 1.9:

TCI_ITEM_OPERATION_MISSING – no itemOperation arrived in the item

TC_UNKNOWN_LICENCE_PLATE_COUNTRY_CODE - vehicle/country field is not in accordance with the approved list

NO_VALID_MASTER_USER - in case of a secondary user it might occur that when the given registration has no valid primary user, the secondary users cannot perform reporting operations

TCI_PRODUCT_MOD_NOT_ALLOWED – The user submitting the request has no permission to modify the products in the trade card.

TCI_CREATE_NOT_ALLOWED – The user submitting the request has no permission to create new products in the trade card.

TCI_DELETE_NOT_ALLOWED – The user submitting the request has no permission to delete the

products in the trade card.

LOW_BALANCE – no financial coverage

TC_INACTIVE_CPA_FOUND – The trade card contains items with invalid VTSZ numbers

4.2.6. Version 2.0

IMPORTANT! After the live introduction of the request version 2.0, a new restriction will take place regarding the requestVersion element. The restriction is the following: Any tradecard can only be modified by a request that has the same or a higher requestVersion. For example: A trade card created with requestVersion 1.9 can only be modified if the modifying request's requestVersion is 1.9 or 2.0 or higher.

4.2.6.1. RequestVersion became compulsory

From 2.0 the requestVersion element became compulsory in the header of the request. The default value of the element being 1.0 will no longer be the case therefor if the element is empty an application error will be given. The element is enumerated and has the following values:

- 1.0
- 1.1
- 1.2
- 1.3
- 1.4
- 1.5
- 1.6
- 1.7
- 1.8
- 1.9
- 2.0

4.2.6.2. Trade reason new validation

New validation was implemented on the tradeReason element. The new or already existing domestic trade cards can only contain items that's tradeReason element is ("S") Sale/Procurement

4.2.6.3. NAVValidations response element

The element is given in the manageTradeCardsResponse if the request fits one of the validations.

Important: These validations will always be run by the server on the requests even if the requestVersion is below 2.0, but the result will only be given in the response if the requestVersion was 2.0 or above. More info: [2.4.1.3](#)

4.2.6.4. WarningListType element

The element is given in the manageTradeCardsResponse if the request fits one of the validations.

More info: [2.4.1.4](#)

4.2.6.5. Foreign VAT number validations

- If tradeType = E the destinationVatNumber will be validated according to the given country's rules that is given in the first two letters of the VAT number.
- if tradeType = I the sellerVatNumber will be validated according to the given country's rules that is given in the first two letters of the VAT number.

The allowed country codes are listed in the [2.3.2.6](#) point of this document. In case if a Greek VAT number is given it can have GR or EL prefix and the server will still be able to validate it.

If the CDV check determines that the given VAT number is not valid or the country given in the prefix is not in the allowed countries list or the country code in the VAT number'S prefix is not the same as their respected data partner sellerCountry or the destinationCountry the request will result in an INVALID_INPUT error or from 2.0 and above a VAT_NUMBER reason code.

To check the validity of the VAT number you can use the following link:
http://ec.europa.eu/taxation_customs/vies/

4.2.6.6. Weight and value validations

The system validates the given plate numbers and the summed-up value and weight of the products and gives a warning in the NAVValidations element if the trade card has different weight and value data than the average. Too low or too high weight and or value data is validated.

4.2.6.7. Hungarian postal code validation

The Hungarian postal codes and cities in the loading and unloading addresses should be given according to the postal code list which could be found on the following URL:

https://ekaer.nav.gov.hu/faq/?page_id=9

If the postal code and the city is not matched correctly the response will contain a NAVValidation result element if the requestVersion is 2.0 or above: TC_WRONG_ZIP_CITY_WARN

If the city name contains space or parenthesis (like "Gárdony (Agárd)") the city element should only contain the data up until the first space and/or the parenthesis, because the system only takes the first part into account during the validation.

If the trade card has more than one loading and unloading location the response will contain every validation result that is occurred during the process.

4.2.6.8. loadDate and arrivalDate changes

- **Export:** If the time of loading (loadDate) is not being sent to the server it will result in a warnings element being placed in the response which will not make the request failed.
- **Import or Domestic:** If the time of unloading is being sent to the server and the operation = create the request will result in a TC_ARRIVALDATE_TIME_ERROR application error, because the arrivalDate can no longer be given in a create operation.
Important: From the interface version 2.0 the arrivalDate can only be given if the operation = finalize and therefor can no longer be sent if the operation = modify or create.

IMPORTANT! Sending the loadDate and arrivalDate elements regarding a trade card is not necessary and should not be done so according to the applicable law.

- **The loadDate/loadDateOnly element should only be sent when the tradeType = E**
- **The arrivalDate/arrivalDateOnly element should only be sent when the tradeType = I or D**

Requests that are sent in with requestVersion 2.0 should never contain both loadDate/loadDateOnly and arrivalDate/arrivalDateOnly elements in the same trade card because it will result in an application error.

4.2.6.9. Others

- QueryParams: sellerVatNumber and destinationVatNumber elements can be optional filter elements
- The item element of the manageTradeCardsResponse now has the productVtszGroupName element which contains the VTSZ group name of the product's VTSZ number. More info: [2.3.2.8.1](#)
- The member state postal code elements max length has been increased from 7 to 10.

4.2.6.10. New reasonCodes in 2.0

- TC_DESTINATION_VAT_NUMBER_CDV_ERROR – Destination VAT number is wrong More info: [4.2.6.5](#)
- TC_SELLER_VAT_NUMBER_CDV_ERROR – Seller VAT number is wrong More info: [4.2.6.5](#)
- TC_FOREIGN_VAT_NUMBER_COUNTRY_CODE_MISMATCH – The country code in the VAT number and the respected country element is not the same More info: [4.2.6.5](#)
- TC_LOW_TOTAL_VALUE_WARN – The items on the trade card has too low summed-up value
- TC_HIGH_TOTAL_VALUE_WARN – The items on the trade card has too high summed-up value
- TC_LOW_TOTAL_WEIGHT_WARN – The items on the trade card has too low summed-up weight
- TC_HIGH_TOTAL_WEIGHT_WARN – The items on the trade card has too high summed-up weight
- TC_WRONG_ZIP_CITY_WARN – The Hungarian postal code and city is not the same
- TC_LOAD_LOCATION_ERROR – The load location is wrong!
- TC_UNLOAD_LOCATION_ERROR - The unload location is wrong!
- TC_LOAD_AND_UNLOAD_LOCATION_ERROR - The load and unload locations are wrong!
- TC_LOADDATE_TIME_WARN – The time of load is undefined
- TC_ARRIVALDATE_TIME_ERROR – The time of arrival can not be defined when the operation is create!
- TC_CARRIER_HIBERNATED – The Carrier is under process of hibernation!
- TC_CUSTOMER_HIBERNATE_DENIED – The customer cannot be hibernated.
- INVALID_REASON_WITH_TRADE_TYPE – The tradeType determines which tradeReason can be used.
- TC_INVALID_COUNTRY_CODE – When an inactive or such country code is being used in the loading and unloading address that is not in the country list.
- TC_INVALID_VAT_NUMBER_COUNTRY_CODE – When an inactive or such country code is being used in a VAT number element that is not in the country list.
- TC_FINALIZED_MOD_NOT_ALLOWED – The modification of the finalized trade card is not allowed (operation = correction).
- TC_FINALIZED_CARRIER_MOD_NOT_ALLOWED – The carrier cannot modify the finalized trade card. (operation = finalize)

- TC_FINALIZED_EXPORT_MOD_NOT_ALLOWED – When the tradeType of a trade card is export it cannot be modified after finalization. (operation = correction)
- TC_FINALIZED_NO_MORE_MOD_ATTEMPTS – The finalized trade card cannot be modified more than the given amount of times. (operation = correction)
- TC_FINALIZED_MOD_INVALID_DATA_CHANGE – Only those data types can be changed that are listed in the corresponding law. (operation = correction)
- TC_FINALIZED_ITEM_DELETE_NOT_ALLOWED – Modifying a finalized trade card cannot result in a product being deleted from the trade card. (operation = correction)
- TC_FINALIZED_ITEM_CREATE_NOT_ALLOWED - Modifying a finalized trade card cannot result in a product being added to the trade card. (operation = correction)
- TC_FINALIZED_MOD_NO_DATA_CHANGE – The modification does not contain any data change. (operation = correction)
- TC_VAT_NUMBER_WARN – If the seller or the destination VAT number contains a HU prefix.
- TC_VAT_NUMBER_ERROR – The seller and destination VAT number cannot be the same.

4.2.6.11. XSD validation tightening

Because of the technological upgrades from requestVersion 2.0 and upwards the XSD validation will be much tighter. For example: every element under a sequence element should maintain the exact order given in the XSD, if not and the for example the element switches places in the request yet both declared and well formed the request will still result in an error.

4.2.6.12. Forbidding inactive country codes when operation = create

When operation = create and a new trade card is being created the system will examine the following country elements in the request looking for country codes that are 1) not in the above mentioned country list [2.3.2.6](#) or 2) it is in the country list but it is no longer active meaning the Country is no longer a member state of the European Union. Affected elements:

- Seller and Destination country – if an inactive country is found below 2.0 a server will give an INVALID_INPUT reasoncode but from 2.0 and above it will give TC_INVALID_COUNTRY_CODE
- The prefix in the VAT number elements (when a country code is in the VAT number) – if an inactive country is found below 2.0 a server will give an INVALID_INPUT reasoncode but from 2.0 and above it will give TC_INVALID_VAT_NUMBER_COUNTRY_CODE

4.2.6.13. Load and arrival date and time splitting

From requestVersion 2.0 and above, the load and arrival date elements' accuracy is entrusted to the user. Therefore if the user wants to give the system the exact date and time when the vehicle has arrived to the designated unloading place the user can use the arrivalDate (xsd:dateTime) element. If the user only wants to send the date of arrival then it can be sent in the arrivalDateOnly (xsd:date) element.

The “old” arrivalDate and loadDate elements have been placed under a choice element each having their own set of pairs.

- Choice - loadDate (time of load xsd:dateTime) or loadDateOnly (date of load xsd:date)
- Choice – arrivalDate (time of arrival xsd:dateTime) or arrivalDateOnly (date of arrival xsd:date)

4.2.6.14. Changes in the finalization process of trade cards

Starting from requestVersion 2.0 the date or time of arrival (arrivalDate/arrivalDateOnly) can no longer be sent in the request when the operation is “create” or “modify”. If the request contains one of these elements and the operation is “create” or “modify” it will result in a TC_ARRIVALDATE_TIME_ERROR reasonCode with the following message: „A Kirakodás időpontja csak a megérkezés bejelentésekor, az EKAER szám lezáráskor adható meg!”.

Therefore the date or time of arrival should be declared in the request when the operation = finalize and the requestVersion is 2.0. More info: [2.3.1.4](#)

IMPORTANT: Below requestVersion 2.0 the date or time of arrival cannot be sent in the request when the operation = finalize. Meaning if the user’s system does not support the new 2.0 requestVersion they should use the old method they give the system the date or time of arrival with a modification request and then sending the finalization request.

4.2.6.15. Finalized trade card modification

The system gives the opportunity for the users to modify a trade card after it has been finalized by the user. This operation is called correction and can only be used from requestVersion 2.0 and above. More info: [2.3.1.5](#)

Using this operation type below requestVersion 2.0 will result in a INVALID_INPUT reasonCode and the following error message: "A correction operáció csak 2.0 requestVersion-től küldhető!".

4.2.7. Version 2.1

Introduction of the new element vatRateAssuranceExemption

Starting from requestVersion 2.1 a new element can be sent in the tradeCardItem section which is a user statement about the items VAT rate.

The system will determine by the VTSZ number given in the productVtsz element if the item can be affected by 5 percent VAT rate or not.

- If the item can be affected by 5 percent VAT rate, then the request will be accepted and the given item will not be taken into consideration during the assurance calculation.
- If the item cannot be affected by 5 percent VAT rate, then the request will result in an application error. **TCI_INVALID_ASSURANCE_STATEMENT.**
- If the new vatRateAssuranceExemption is not given in the request, then it will be considered as false and the request will be processed accordingly.

4.2.7.1. New reasonCodes in requestVersion 2.1

TCI_INVALID_ASSURANCE_STATEMENT – the given VTSZ number’s 5 percent VAT rate affection cannot be stated in the request therefore the vatRateAssuranceExemption element cannot be true.

4.3. ACCESSIBILITY OF THE TEST SYSTEM

URL: <https://import-test.ekaer.nav.gov.hu/TradeCardManagementService/customer/manageTradeCards>

To access the test system appropriate registration is needed, and the user creating the XML has to have a secret signature code, which is necessary to create the

requestSignature.

The service has an operation supporting development, which only performs the validation of the XML, but does not generate a real business process. The structure of the request and the response is identical with the one defined at the operation actually managing the requests. Therefore the TradeCardsRequest defined in xsd expects a TradeCardsRequest element and provides a manageTradeCardsResponse element.

Validation operation URL:

<https://import-test.ekaer.nav.gov.hu/TradeCardManagementService/customer/validateTradeCardRequest>

Query operation URL:

<https://import-test.ekaer.nav.gov.hu/TradeCardManagementService/customer/queryTradeCards>

4.4. AVAILABILITY OF THE LIVE SYSTEM

<https://import.ekaer.nav.gov.hu/TradeCardManagementService/customer/manageTradeCards>

Validation operation URL:

<https://import.ekaer.nav.gov.hu/TradeCardManagementService/customer/validateTradeCardRequest>

Query operation URL:

<https://import.ekaer.nav.gov.hu/TradeCardManagementService/customer/queryTradeCards>