National Tax
and Customs Administration

The NAV Online Invoice System

Invoice Data Reporting, Description of the REST API Interface & Developer's Documentation

National Tax
and Customs Administration

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Glossary & Abbreviations

Term	Description
Data Export	Tax authority supervision data reporting as described in Section 11/A of Decree No. 23/2014. (VI. 30.) NGM on the Tax Identification of Invoices and Receipts, and on the Supervision by the Tax Authority of Electronically Stored Invoices.
Taxpayer	A taxpaying entity registered in the Hungarian tax system who is obligated by the relevant regulations to the online reporting of invoice data.
AES-128	Symmetric encryption algorithm (Advanced Encryption Cypher, RFC3826).
Data Reporter	The natural or legal person actually performing the taxpayer's data reporting duty. The Data Reporter may be the taxpayer themselves, their representative delegated as per the VAT Act (if invoicing by a representative), the taxpayer's customer (if self-invoicing).
Signature Key	For the purposes of the present document, a signature key shall be defined as a string of characters used to amend – "sign" – another string of characters or symbols.
API	Application Programming Interface
VAT Act	Act CXXVII of 2007 on value added tax.
RTA Act	Act CLI of 2017 on Tax Administration and the Regulation of Tax Administration
BASE64	A content-encoding system based on a 64-character alphabet, used to turn data containing binary and special characters into ASCII character strings (Binary-to-text encoding, RFC3548).
Primary User	The user of the Online Invoice System who is the Taxpayer's statutory or permanent representative, and is, in this capacity, authorised to register the Taxpayer, and bears full authority to use the system in any other regard. The sole exception to this authority is that of data reporting via the REST API, which can only be performed via a technical user created by the Primary User.
Endpoint	A path to access the service provided by the operation.
Original Invoice	An invoice as defined in the VAT Act, which is the subject of the Amending Document (Amendment).
Child Element	An element contained within a Parent Element.
Manufacturer	A natural or legal person developing the Invoicing Programme or the data reporting module thereof, or a user of the Invoicing Programme in question.
Excise Duty Act	Act LXVIII of 2016 on excise duty
Amending Document (Amendment)	A document that meets the criteria set in Section 170 of the VAT Act, and is, beyond doubt, in reference to and amending or annulling, the original invoice.
NAV	The National Tax and Customs Authority.
Operation	A collective term of information technology procedures and services available for request via the offered REST web service.
REST	A Representational State Transfer (REST) web service, also called RESTful.
SHA-256	A 256-bit Secure Hash Algorithm (Secure Hash Algorithm 3, RFC6234).
SHA-512	A 512-bit Secure Hash Algorithm (Secure Hash Algorithm 3, RFC6234).
SHA3-512	A 512-bit Secure Hash Algorithm with Keccak encryption (FIPS-202)[1]

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[1] https://nvlpubs.nist.gov/nistpubs/FIPS/NIST.FIPS.202.pdf

Invoice	In the context of the present document: an invoice issued via the Invoicing Programme in accordance with the provisions of the VAT Act, excluding invoice-equivalent documents.
Invoicing Programme	A standalone software or software group used by the Data Reporter to issue invoices for the taxpayer as the product/service supplier, and simultaneously perform their data reporting obligation as mandated by relevant regulations.
Parent element	An item in the schema file containing other items within itself.
Technical User	A user required for the data report process using the REST API; the Technical User is created in the system by the Primary User.
Product Charge Act	Act LXXXV of 2011 on environmental product charges.
Token	A single-use ticket for performing data reporting.
XML	eXtensible Markup Language (W3C standard https://www.w3.org/TR/xml/).
XSD	XML Schema Definition (XML Schema Definition, W3C standard https://www.w3.org/TR/xmlschema11-1/).
Web Service	A collection of protocols and standards for inter-application data exchange.
Ordinary tax regime	Sale of goods and provision of services for which the seller or service provider is taxable.
Reverse charge	Sale of goods and provision of services for which the purchaser of the goods or services is taxable.

Document History

Date	Author	Version	Amendment
11/01/2018	KCS, RD, MA	1.0	First issue
22/01/2018	KCS	1.0	Text modifications and clarifications
11/03/2018	KCS, MA	1.0	Introduction of new answer types, clarification, disambiguation, transfer of taxpayer feedback
19/04/2018	KCS	1.0	Compression, queryInvoiceData conversion, paging, clarification
23/05/2018	KCS	1.0	Transfer of warnings, clarifications
30/05/2018	KCS	1.0	Transfer of published schema change, server clock, maintenance message, new WARN messages
14/06/2018	KCS	1.0	Application of legal regulations that have entered into force, text corrections
06/12/2018	KCS, CZ, MA	1.1	Application of interface version 1.1 changes, tracking changes, see: Section 5.2.
05/02/2019	KCS	1.1	Phasing out INVALID_UNIT_OF_MEASURE_OWN validation; defining exchangeRate more precisely in the aggregate invoice
12/07/2019	KCS	1.1	Introduction of new blocking validation, fixing quantity units and misspellings related to WARN
29/08/2019	KCS	2.0	Application of changes in interface version 2.0 over the entire document; tracking changes, see: Section 5.3.
18/09/2019	KCS	2.0	Content improvements in Chapter 5.3
14/10/2019	KCS	2.0	Github improvement remarks rollover, implementation of 1 new batchInvoice processing

			ERROR and new WARN messages for 2.0, processingResult tag numerosity change due to new API XSD
11/12/2019	KCS	2.0	Github improvement remarks rollover, description of technical annulment approval
06/02/2020	HS, KCS	2.0	2.0 default value deprecation, queryInvoiceChainDigest and queryTransactionList query services introduction, queryTaxpayerResponse amendment, queryInvoiceDigestRequest tax number search option for query in either direction, queryServiceMetrics metrics service introduction
30/09/2020	HS	3.0	Application of changes in interface version 3.0 over the entire document; tracking changes, see: Section 5.4
02/11/2020	HS	3.0	Introduce new blocking sync validation (INVALID_TIMESTAMP), add rate limiting and reference implementation, update legal environment, correct type
03/12/2020	HS	3.0	Schema changes (CustomerVatStatusType, vatRateType), new validations, SHA-512 clarification, natural person holding a VAT ID distinction
25/03/2021	HS	3.0	Introduction of INVALID_INVOICE_NUMBER, DOMESTIC_TAXNUMBER_EXPECTED_REVERSE_CHARGE blocking validations, upgrading WARN definitions of version 3.0

INTRODUCTION

As per Items No. 1 & 6 of Schedule 10 of Act CXXVII of 2007 on value added tax (entering into effect on 4 January 2021):

"1. The taxpayer is obliged to provide the tax and customs authority with data on invoices and invoice-equivalent documents issued for the provision of goods and services performed by the taxpayer and subject to the provisions of this Act pursuant to Section 158/A., excepting the provision of services performed in another Member State of the Community with respect to which the taxpayer satisfies its tax obligation under the special rules of the Act on the Rules of Taxation for taxpayers providing services remotely.

"6. The provision of data pursuant to Items 1–5 shall be performed via an electronic platform provided for this purpose by the National Tax and Customs Authority. The electronic platform may be used after requesting data uniquely identifying the taxpayer. The identification data shall be requested by the taxpayer or their Permanent Representative, in accordance with RTA."

Objective

The purpose of the present document is to describe the operation of /invoiceService, which is responsible for the business functionality of the online invoice data reporting interface, to present the XML message structure used by the function, and to provide support for integrating invoicing programmes into the interface.

This document includes the business and technical content for the following schema definitions.

Schema	Content
common.xsd	Generic types, catalogue elements and primitives describing NAV communication
invoiceBase.xsd	Specific data types of the Online Invoice System
invoiceApi.xsd	REST API operations (submission and query functions)
invoiceData.xsd	Business content of invoice data reporting
invoiceAnnulment.xsd	Business content of technical annulment
serviceMetrics.xsd	Operations metrics structure and content of the Online Invoice System

The policies regarding the InvoiceApi schema definitions are included in the "**DESCRIPTION OF THE INVOICE DATA REPORTING REST API**" section, and the policies regarding the InvoiceData and invoiceAnnulment schema descriptions are included in the "**DESCRIPTION OF THE INVOICE DATA REPORTING BUSINESS CONTENT**" section.

The operation of /metricService for retrieving system diagnostic data, the rules for the serviceMetrics schema definition and the structure of XML messages are described in the section "**System Diagnostics**".

Conditions of use for taxpayers

1) The Taxpayer obliged to perform data reporting shall have a valid registration in the Online Invoice System. The registration process can be launched on the Online Invoice System web interface.

2) The Taxpayer obliged to perform data reporting, must create a technical user in the Online Invoice System to be able to use the data reporting interface. The invoice reporting interface is not available for (primary or secondary) web users. Only primary users can create technical users on the Online Invoice System web interface. The Taxpayer can, at their sole discretion, determine how many technical users they require for performing their data reporting duty.

3) A signature key and a replacement key must be generated for the technical user in the Online Invoice System. These keys can only be generated by the primary user on the Online Invoice System web interface. The signature key is required for calculating the requestSignature value, which is needed for signing messages; the replacement key is required for the server-side encoding and client-side decoding of the data report token.

4) The primary user shall determine whether a given technical user is authorised to query the submitted invoice data.

> The above-mentioned requirements apply per system level, meaning that a registration made in the test environment will not be valid in the live working environment, and technical users and keys created and generated in the test environment likewise cannot be used in the live working environment.

Technologies to implement for establishing a connection

- HTTPS – Secure HTTP
- Webservice
- WADL – Web Application Description Language
- REST API – REST interface required for the data reporting process
- XML – eXtensible Markup Language
- Encoding and encryption algorithms

Technical requirements for invoicing programmes

1) The data reporting interface is accessible to any invoicing programme capable of sending HTTP messages and creating schema-conformant XML, as specified in the present specification.

2) Beyond the invoice data, the invoicing programme must also submit authentication data for the technical user of taxpayer for each data reporting session. The required implementation can be freely

determined by the invoicing programme, but the data reporting process must take place automatically, without any human intervention within the system.

3) The invoicing programme must implement the following encoding and encryption algorithms for successful authentication:

- BASE64 encode/decode (RFC3548)
- SHA-512 encode (RFC6234)
- SHA3-512 encode (FIPS 202)
- AES-128 ECB decode (RFC3826)
- GZIP compress/decompress (RFC1952) (optional)

1 DESCRIPTION OF THE INVOICE DATA REPORTING REST API

The invoice data reporting interface implements the following operations.

- **/manageAnnulment:** operation used for submitting the technical annulment code
- **/manageInvoice:** operation used for submitting the reported invoice data, including options for submitting the data of the invoice or amending document to NAV
- **/queryInvoiceChainDigest:** operation for querying a digest of invoice chain
- **/queryInvoiceCheck:** operation used for checking successful invoice data reporting
- **/queryInvoiceData:** operation used for querying the complete set of invoice data, based on the invoice reference number
- **/queryInvoiceDigest:** operation used for querying a digest of invoice data, based on mandatory and optional search parameters
- **/queryTransactionList:** query of submitted transactions within a specified time interval
- **/queryTransactionStatus:** operation used for querying the processing results of invoice data reporting and technical annulment
- **/queryTaxpayer:** integrated in the invoice generation process and required for the verification of domestic tax numbers, this operation can report data on the authenticity and validity of tax numbers based on the NAV database
- **/tokenExchange:** operation issuing single-use data reporting tokens preceding the invoice data reporting and technical annulment processes

For detailed information on the how these operations work as well as their query-response structures, please see the section "**Business operations**".

1.1 Invoice data reporting process

The invoicing programme must request a single-use data reporting token at the dedicated endpoint, using any one of the technical users assigned to the taxpayer with data reporting obligations. A separate token must be requested for each data reporting session. The data reporting token is assigned to a specific taxpayer, and is valid only for the period indicated in the reply – currently 5 minutes within the issuance of the token. This validity period is subject to change, however. The system issues the data reporting token, encoded with the replacement key of the requesting technical user. The token is only usable if it is returned to the server with the correct decoded value.

Invoices may be submitted one by one, or in batches. The schema definition puts the current data reporting submission limit to 100 invoices per process – this is the maximum number of invoices that can be included in a single data report or a single HTTP query, using a single data reporting token. We recommend the parametrisation of this value, as part of the client-side implementation. Data reporting may be performed within the validity period of the data reporting token, or until the submission limit is reached (should that happen before the expiration of the token). The exact expiration time for the token is based on server time, therefore any time discrepancy between the server and client sides should be taken into consideration with batch reporting sessions. Accepted solutions for batch reporting sessions also include requesting the data reporting token simultaneously with the issuance of the invoice, followed by the batched submission of the data for all other invoices issued within the

validity period of the token and warranting data reporting, using the same token, within its period of validity.

The invoice data are embedded in the data report XML file encoded to BASE64 format, therefore the request verification and authentication parts of the server-side data process take place synchronously, while the actual invoice data processing is done asynchronously.

If the data report is successful, the server returns a transaction ID. This transaction ID allows the client to query the process status of the transaction as many times and as often as required. For completed transactions, the server sends an itemised process result report for each invoice the request contains. The process status report for an invoice may contain:

- blocking errors (technical or critical business errors blocking the acceptance of reported data => ERROR type is returned)
- warnings (business errors which do not block the acceptance of reported data, but may invalidate the content of the invoice and/or the data report thereof=> WARN type is returned)
- information messages (INFO type is returned)
- confirmation messages (the data reporting was correct and the data has been validated => OK type is returned)

Data reporting is only considered complete after the client has confirmed successful completion of the asynchronous process, and has received the confirmation message for the invoice.

1.2   General structure of XML messages

The invoice data reporting interface has the number of root element pairs stipulated in the section "**Business operations**". Some of the pairs are request type, while the others are response type, describing the request-response structure of the relevant operation.

1.3   BasicOnlineInvoiceRequestType

BasicOnlineInvoiceRequestType is a mandatory part of each request element. The complex type header and user nodes are from common.xsd, while the software node type is described in invoiceApi.xsd. The type header contains the technical data regarding the message exchange, the user part contains the data regarding authentication, while the software part contains the data of the invoicing programme performing the operation.
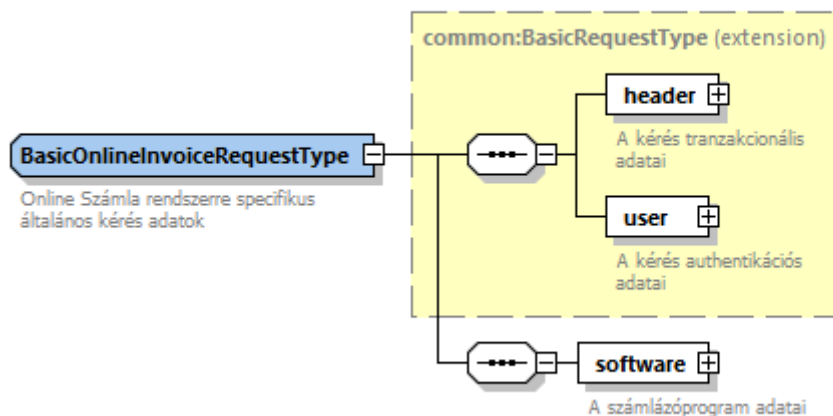
1 Structure of the BasicOnlineInvoiceRequestType element

1.3.1 BasicHeaderType

Within the requests, the header element is implemented by the BasicHeaderType element.
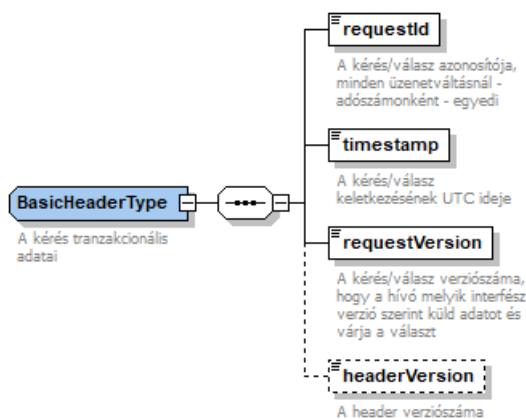
2 Structure of the BasicHeaderType element

Tag	Type	Mandatory	Content
requestId	xs:string	yes	Unique request ID
timestamp	xs:dateTime	yes	Client-side time of request (UTC)
requestVersion	xs:string	yes	Request version number
headerVersion	xs:string	no	Header version number

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
requestId	EntityIdType	[+a-zA-Z0-9_]{1,30}	-	-
timestamp	GenericTimestampType	\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(.\d{1,3})?Z	-	-
requestVersion	AtomicStringType15	-	-	-
headerVersion	AtomicStringType15	-	-	-

Definition and related requirements

1) requestId is the identification code of the request. requestId can be of any value that matches the pattern and does not violate the uniqueness constraint. The requestId must be unique for each request, with regards to the specific taxpayer and within the timestamp tolerance. This uniqueness constraint is only required for the IDs of successfully processed requests, as opposed to those that were unsuccessful or have been rejected by the server – those IDs can be reused until the first successful transaction (before the HTTP 200 response). The requestSignature value includes the tag value.

2) The timestamp contains the client-side time that the request was submitted. The timestamp in the request must be received in UTC time and the proper format. For Hungarian time zones, this translates to:

   GMT + 1 hour for DT (winter time)
   GMT + 2 hours for DST (daylight saving time) The requestSignature value includes the tag value.

   The allowed timestamp tolerance compared to the server time is ±1 day.

   For more information on dates, please see the section "**Converting local time to UTC**".

3) requestVersion identifies the structure of the request. Subsequent interface modifications will refer back to this tag, meaning that requestVersion defines the structure of both the request and the response as well, as well as the related validations and verifications. Its value is to be filled in accordance with the value defined in the supported version. The value is checked through business validation, it has no xsd level enum value set. The only currently accepted value: 3.0

4) headerVersion is an optional element of the request. It serves as the tag that subsequent structures and related verifications will refer back to, should request structures undergo any fundamental changes in the future. The value is checked through business validation, it has no xsd level enum value set. The only currently accepted value: 1.0

1.3.2 UserHeaderType

Within the requests, the user element is implemented by the UserHeaderType element.
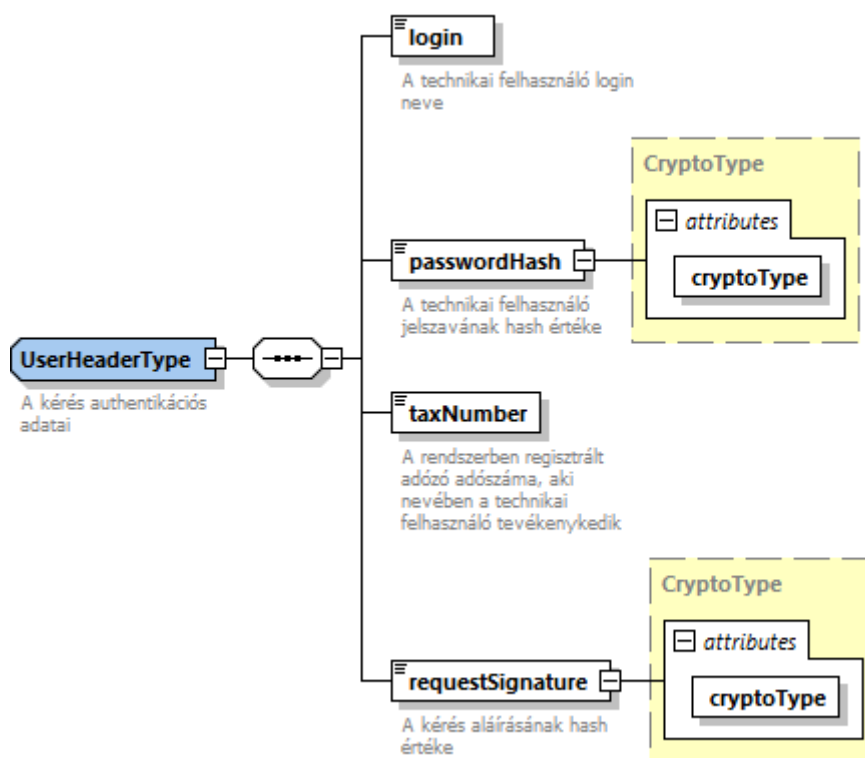
3 Structure of the UserHeaderType element

Tag	Type	Mandatory	Content
login	xs:string	yes	Technical user's login name
passwordHash	xs:complexType	yes	Technical user's password hash value
taxNumber	xs:string	yes	The first 8 digits of the tax number of the taxpayer who uses the interface service, and to whom the technical user is assigned
requestSignature	xs:complexType	yes	Request signature hash value

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
login	LoginType	[a-zA-Z0-9]{6.15}	-	-
passwordHash	CryptoType	-	-	-
taxNumber	TaxpayerIdType	[0-9]{8}	-	-
requestSignature	CryptoType	-	-	-

Definition and related requirements

1) The login tag contains the technical user's name. The login name consists of 15 characters, and is randomly generated by the system when the technical user is created. The login tag is one of the elements used for authentication.

2) The passwordHash is the SHA-512 hash value, **in capital letters**, of the technical user password contained within the login tag. The string literal for the password is provided by the Primary User who created the technical user, on the web interface of the Online Invoice System. passwordHash is one of the elements of the authentication.

3) taxNumber is the first 8 digits of the tax number for the taxpayer represented by the technical user, and to whom the technical user is assigned. Only Hungarian tax numbers are allowed.

4) requestSignature is the message signature, generated by the client. Each request must have an assigned requestSignature. Based on the data in the request, the server calculates its own requestSignature, and only accepts the request if the stored and received data resolve to the correct value. For more about the calculation of requestSignature, please see the section **"Calculating requestSignature"**.

5) The complex type of passwordHash and requestSignature is the cryptoType. cryptoType is a required attribute of the type, and must specify the hash-generating algorithm used. The value is checked through business validation, it has no xsd level enum value set.

6) Due to its type, the passwordHash tag is supplemented with a new mandatory attribute called cryptoType. Its only currently accepted value: SHA-512

7) Due to its type, the requestSignature tag is supplemented with a new mandatory attribute called cryptoType. Its only currently accepted value: SHA3-512

1.3.3 SoftwareType

Within the requests, the software element is implemented by the SoftwareType element.
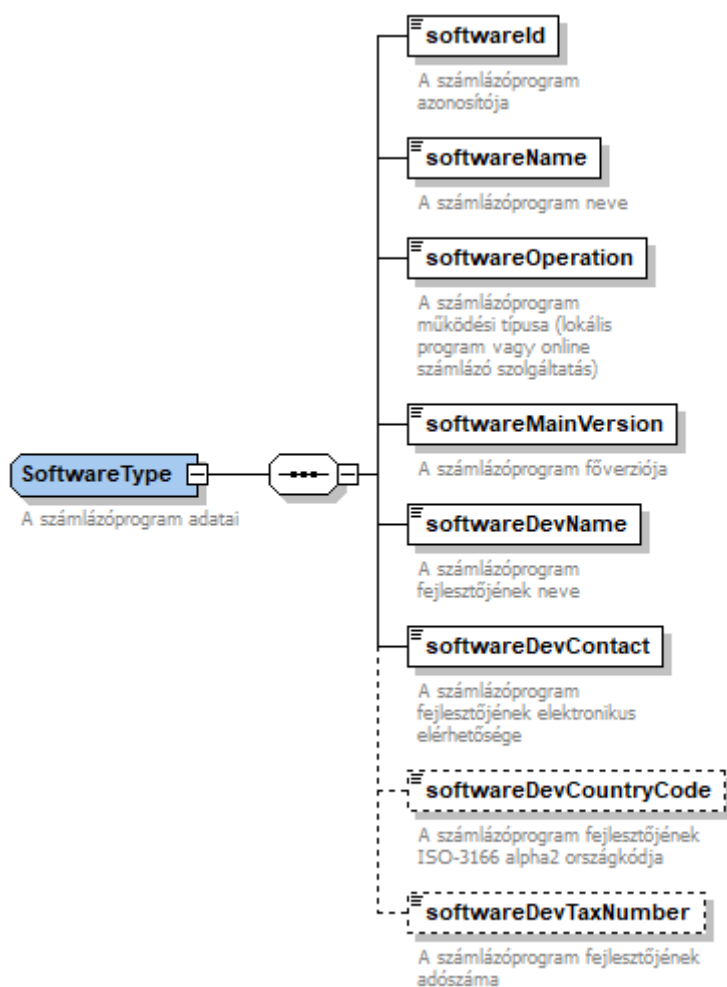
4 *Structure of the SoftwareType element*

Tag	Type	Mandatory	Content
softwareId	xs:string	yes	Invoicing programme ID
softwareName	xs:string	yes	Invoicing programme name
softwareOperation	xs:string	yes	Operation type for the invoicing programme
softwareMainVersion	xs:string	yes	Main version of the invoicing programme
softwareDevName	xs:string	yes	Name of the invoicing programme's developer
softwareDevContact	xs:string	yes	Active email address of the invoicing programme's developer
softwareDevCountryCode	xs:string	no	Country code of the invoicing programme's developer
softwareDevTaxNumber	xs:string	no	Tax number of the invoicing programme's developer

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
softwareId	SoftwareIdType	[0-9A-Z\-]{18}	-	-
softwareName	SimpleText50NotBlankType	.*[^\s].*	-	-
softwareOperation	SoftwareOperationType		LOCAL_SOFTWARE ONLINE_SERVICE	-
softwareMainVersion	SimpleText15NotBlankType	.*[^\s].*	-	-
softwareDevName	SimpleText512NotBlankType	.*[^\s].*	-	-
softwareDevContact	SimpleText200NotBlankType	.*[^\s].*	-	-
softwareDevCountryCode	CountryCodeType	[A-Z]{2}	-	-
softwareDevTaxNumber	SimpleText50NotBlankType	.*[^\s].*	-	-

Definition and related requirements

The types contain information regarding the software performing data reporting.

softwareId is an 18-length string used to identify the invoicing program used.

Recommendation for generating softwareId: The first two characters of the ID should be the country code of the software developer, as per ISO 3166 alpha-2. Additional characters of the identifier should include the tax registration number of the developer company, with the appropriate number of digits (in some countries, the length of the tax registration number may differ significantly from the 8 digits used in Hungary).

Additional characters of the identifier shall be generated by the developer in such a way as to ensure the identifier's uniqueness. The developer may decide to create separate identifiers for different versions of a particular software product, or for instances running at different customers. The same instance of the same software version must report the same softwareId.

If multiple software development companies are involved in the development of the invoicing program (or its individual modules), the identifier should include the data of one of them, based on mutual agreement.

The softwareId and the email address of the developer company (sofwareDevContact) are used to identify and notify the developer of potential operational problems.

1.4 BasicOnlineInvoiceResponseType

BasicOnlineInvoiceResponseType is a mandatory part of every response element. The complex type header and user nodes are from common.xsd, while the software node type is described in invoiceApi.xsd. Within the type, the header contains the transaction data for the response, the result contains the result of the process and the software contains the data of the invoicing programme performing the operation.

> The header and software data contained within the response will be identical to the header and software tags contained within the request, both in structure and in content.
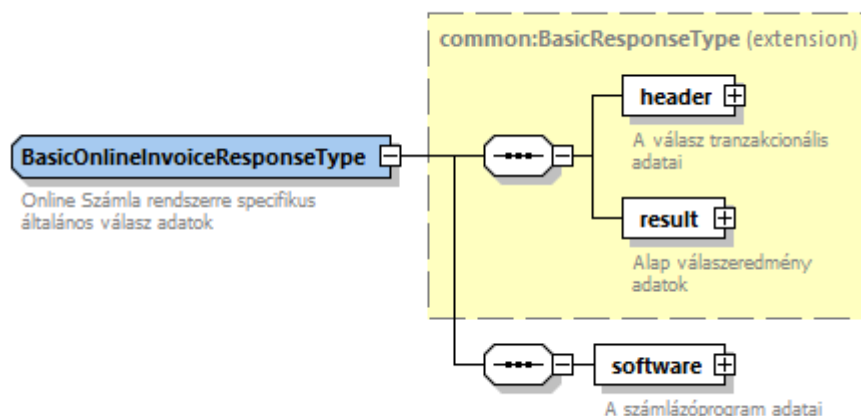
5 *Structure of the BasicOnlineInvoiceResponseType element*

1.4.1 BasicResultType

In the responses, processing results are implemented by the BasicResultType element.
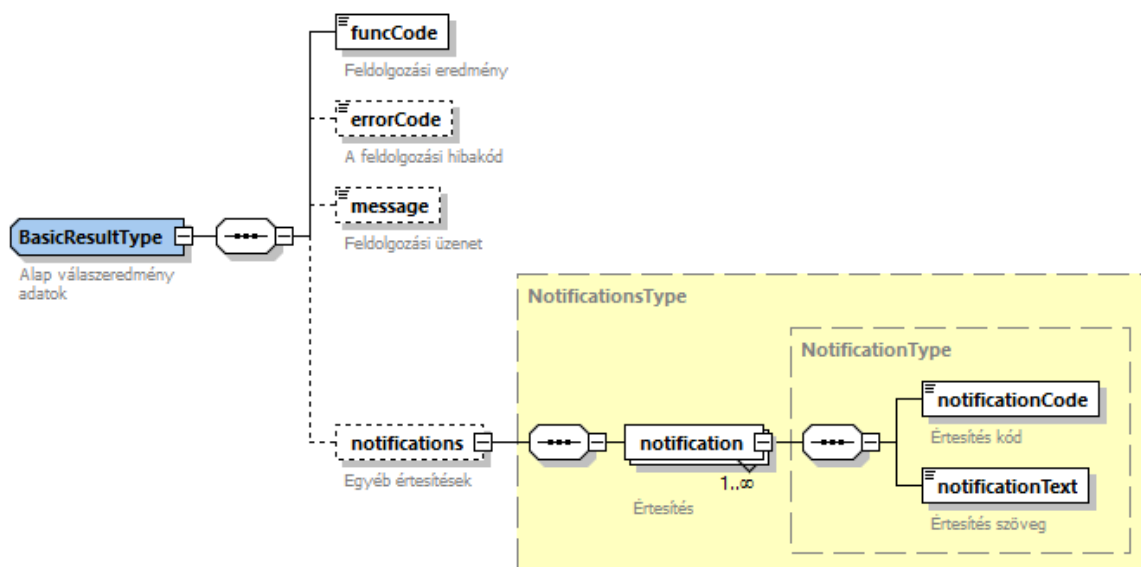
6 *Structure of the BasicResultType element*

Tag	Type	Mandatory	Content
funcCode	xs:string	yes	Processing result
errorCode	xs:string	no	Processing error code

message	xs:string	no	A text-based message attached to the processing result or error code
notification/notificationCode	xs:string	no	Notification code
notification/notificationText	xs:string	no	Notification text

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
funcCode	FunctionCodeType	-	OK ERROR	-
errorCode	SimpleText50NotBlankType	.*[^\s].*	-	-
message	SimpleText1024NotBlankType	.*[^\s].*	-	-
notification/ notificationCode	SimpleText100NotBlankType	.*[^\s].*	-	-
notification/notificationText	SimpleText1024NotBlankType	.*[^\s].*	-	-

Definition and related requirements

1) funcCode is the status given by the server for executing the operation contained by the request. Its interpretation may vary depending on the business operation in question, but it should always be interpreted together with the full response.

2) errorCode is returned when the value of the funcCode is ERROR. It contains the unique error code; this element can be used on the client side to map the error message. For more information on the errorCode value set, please consult the error code chart in the "**ERROR MANAGEMENT**" section.

3) message is an optional text-based message attached to the funcCode or errorCode. It is a human-readable message, to aid comprehension.

4) NAV will use the notification node to convey informational messages via API calls in the future, using a key–value structure.

1.5 Calculating requestSignature

requestSignature is a key element of the interface authentication. Its function is to prevent unauthorised persons making modifications to the system. The server side checks the hash value for each request of each operation, and only executes the operation if the correct value can be calculated from the stored and received data.

1.5.1 Calculations for manageInvoice and manageAnnulment operations

For the manageInvoice and manageAnnulment operations comprising the core of requestSignature, requestSignature is calculated using partial authentication, concatenating the hash values for indices 1-100 as well as additional SHA3-512 hash operations. The partial authentication can be derived by concatenating the following values:

- requestId value
- UTC timestamp tag value using a YYYYMMDDhhmmss mask
- string literal of the technical user's signature key

When concatenating, the date and time separators as well as the time zone must be removed for timestamp masking.

The index hash valued can be derived from the uppercase SHA3-512 hash values following the concatenation of the operation and base64 content for the individual indices:

- literal value of invoiceOperation or annulmentOperation
- base64 content in the invoiceData or invoiceAnnulment tag

The calculated hash values should be appended after the partial hash, in the order corresponding to the indices. The SHA3-512 hash result (in capitals) of the string thus concatenated yields the requestSignature value.

A fictitious example for request data:

- requestId = TSTKFT1222564
- timestamp = 2017-12-30T18:25:45.000Z
- technical user's signature key = ce-8f5e-215119fa7dd621DLMRHRLH2S
- the index#1 invoice data items
  - invoiceOperation = CREATE
  - invoiceData = QWJjZDEyMzQ=
- the index#2 invoice data items
  - invoiceOperation = MODIFY
  - invoiceData = RGNiYTQzMjE=
- partial authentication value = TSTKFT122256420171230182545ce-8f5e-215119fa7dd621DLMRHRLH2S
- the first index hash =
  - hash base = CREATEQWJjZDEyMzQ=
  - lowercase hash = 4317798460962869bc67f07c48ea7e4a3afa301513ceb87b8eb94ecf92bc220a89c480f87f0860e85e29a3b6c0463d4f29712c5ad48104a6486ce839dc2f24cb
  - uppercase hash = 4317798460962869BC67F07C48EA7E4A3AFA301513CEB87B8EB94ECF92BC220A89C480F87F0860E85E29A3B6C0463D4F29712C5AD48104A6486CE839DC2F24CB
- the second index hash =
  - hash base = MODIFYRGNiYTQzMjE=
  - lowercase hash = a881218238933f6ffb9e167445cb4daa9749bcf484fde48ab7649fd25e8b634a4736a65a7c4a8e2831119f739837e006566f97370415aad55e268605206f2a6c
  - uppercase hash = A881218238933F6FFB9E167445CB4DAA9749BCF484FDE48AB7649FD25E8B634A4736A65A7C4A8E2831119F739837E006566F97370415AAD55E268605206F2A6C

Thus, the base for the entire requestSignature is:

TSTKFT12225642017123018254 5ce-8f5e-
215119fa7dd621DLMRHRLH2S4317798460962869BC67F07C48EA7E4A3AFA301513CEB87B8EB94ECF
92BC220A89C480F87F0860E85E29A3B6C0463D4F29712C5AD48104A6486CE839DC2F24CBA881218
238933F6FFB9E167445CB4DAA9749BCF484FDE48AB7649FD25E8B634A4736A65A7C4A8E2831119F7
39837E006566F97370415AAD55E268605206F2A6C

Value of requestSignature after SHA3-512 hashing and converting to uppercase:

60BC80609EE3B8F42FE904200A49A1921A1DADA08D55319ACD40C59F626514B74EEA49011D37260
0A10DBCF8199D590DA9C2841D987308F2D83DAE17C2470C42

Due to its type, the requestSignature tag is supplemented with a new mandatory attribute called cryptoType. Its only currently accepted value: SHA3-512

1.5.2 Calculation outside manageInvoice and manageAnnulment operations

As there is no data submission involved, requestSignature for any operations other than manageInvoice and manageAnnulment will equal the SHA3-512 hash value for partial authentication, which can be determined by concatenating the following values:

- requestId value
- UTC timestamp tag value using a YYYYMMDDhhmmss mask
- string literal of the technical user's signature key

The SHA3-512 hash result (in capitals) of the string thus concatenated yields the requestSignature value.

Due to its type, the requestSignature tag is supplemented with a new mandatory attribute called cryptoType. Its only currently accepted value: SHA3-512

1.5.3 Converting local time to UTC

The generation of the correct client-side requestSignature value requires that the local time be converted to UTC. This can be done by adding or subtracting from local time in the client-side time zone, the number of hours that particular time zone is offset from UTC mean time. For time zones divided into summer and winter time (daylight saving), take this into account for the addition and subtraction as well.

For more information on establishing the correct UTC time, please see the section "**Self-check**".

1.6 Technical specifications of the service

The /invoiceService is a RESTful type stateless web service. The service has the following technical specifications.

1.6.1 General technical specifications

The service must send the proper XML request in the body, using the HTTP POST method, to which request the server sends a response with XML in the body. The requester defines the operation they

wish to have executed by addressing the proper endpoint and assembling properly formatted, valid XML. Depending on whether or not the request is formatted correctly, the server will either send a business XML, or just a standard HTTP response.

Context root:

/invoiceService/v3

XSD:

common.xsd
invoiceBase.xsd
invoiceApi.xsd
invoiceData.xsd
invoiceAnnulment.xsd
The definitions of common elements can be found in common.xsd and invoiceBase.xsd. The element definitions required for communication are defined in the invoiceApi schema definition, the business model and element definitions for the invoices are defined in the invoiceData schema definition, while the technical annulment data are defined in the invoiceAnnulment schema definition.

1.6.2 Resources
/manageAnnulment
/manageInvoice
/queryInvoiceChainDigest
/queryInvoiceCheck
/queryInvoiceData
/queryInvoiceDigest
/queryTransactionList
/queryTransactionStatus
/queryTaxpayer
/tokenExchange

1.6.3 HTTP headers
The request must specify the following HTTP header fields:

content-type=application/xml
accept=application/xml

The save to database and the response will always be UTF-8, regardless of the encoding specified in the inquiry, therefore it is advised to use this type of encoding in the query.

1.6.4 HTTP status codes
For correct requests, the service will always return a HTTP 200 response. This does not necessarily indicate that the business execution of the content of the request was successful, it merely indicates that the request was correctly formatted, and the resource addressed was able to read and validate it. As the error codes managed by the service are mapped, error responses are also considered successful responses. This means a HTTP 200 response may also contain a message with error codes.

For an explanation of responses for incorrect requests and other technical errors, please consult the error code chart in the section **"Error management"**.

1.6.5   Compression and file size limit

The HTTP POST body sent to the service cannot be larger than 10 megabytes for any of the operations.

If an internal XML exceeding this file size limit must be sent as part of the data report, the invoice XML must be compressed prior to the BASE64 encoding. In such cases, the files must be compressed in GZIP format. The server is capable of handling a maximum uncompressed file size of 15 megabytes per invoice when processing compressed files. If, after server-side BASE64 decoding, the size of the uncompressed internal invoice XML is greater than what is allowed server-side, the processing of the invoice will be rejected, and the system will indicate a technical error. For client-side compression, please use the quickest, lowest-compression option, with a compression ratio of 1 ("gzip -1 [FILE]"). Requests containing compressed files created using a higher compression rate will be automatically sent to the end of the process queue.

Invoices sent in a compressed format will also be returned by the server compressed in response to the /queryInvoiceData operation (and likewise, uncompressed invoices will always be returned in an uncompressed format). Thus the compression of the files is optional, but if the taxpayer uses the incoming invoice query in its own business processes (e.g. implements automated or machine-assisted accounting), we recommend preparing the system for receiving compressed content.

For invoices still exceeding the size limit after compression, combining the data content of the individual items is possible. The detailed procedure can be found in the section Reporting **of large invoices**.

1.6.6   Response time, timeout

The typical response time of the server is under 200ms. The blocking timeout value for synchronous requests is 5000ms. Please only consider response times to be timeouts on the client side if they exceed the above values.

The absolute timeout value is 60 sec. Failure to respond to a data report due to a 60-second timeout does not indicate a submission failure.

The queryTransactionList operation can be used to track extreme cases of not receiving a response (timeout). The query can be used to query all successfully received data within the specified time interval. If the transaction ID received in response does not exist any of the data report submitted on the client side, it can be identified using this query. A detailed description of the query operation can be found in the section **/queryTransactionList operation**. In these cases, if the data provided cannot be found in the response to the query operation, the submission can be repeated.

1.6.7   Server clock, NTP

The server receives time settings from a closed NTP server that is not accessible to the outside world. On the client side, synchronisation with server time is not a requirement, however, optionally, the following time synchronisation is possible: http://www.pool.ntp.org/zone/hu (connection requires an NTP client).

1.6.8   Maintenance method

The server is able to run in two types of maintenance modes. The first one is typically used with version changes which require no pending, unprocessed data reporting in the system (e.g. schema change, new mandatory validations etc.). This mode impedes token requests only in the invoice reporting

interface, while the other operations of the interface continue to operate. This allows for tokens already requested to be used, but once they expired no new data supplies may be sent to the system. The other method impedes the function of all operations of the interface. In maintenance mode, the error indicated in the "**Error Management**" chapter is returned.

1.6.9 Version Control

For service-related purposes, the version is defined in the URL, while the version for the business data model is defined by the value of the requestVersion tag in the HTTP body.

Major versions are defined as the versions between which the backward compatibility of the business data model cannot be guaranteed. Minor versions are versions within a single major version where compatibility is retained for business data.

New major versions will always have a new URL and a new XML namespace. Minor versions will inherit the URL and namespace data of their major versions.

As two different versions of the XML API will remain in operation during the migration period, it is important to define certain correlations in general terms regarding the relationships between the various versions. These correlations are as follows.

1) The tokens used by the different major versions are incompatible. (e.g. an existing 2.x token cannot be used to submit 3.x invoice data, and vice versa)
2) The process status of submitted /manageInvoice and /manageAnnulment operations can only be queried using the requestVersion query with a version number at least equal to the submitted operation's version number, never a requestVersion with a lower version number. (e.g. a 3.0 query can be used to check the process status of a 2.0 /manageInvoice operation, but not vice versa)
3) Any successfully received invoice can be queried in its entirety if the requestVersion value for the query matches the value of the currently supported major version. However, there is no forward compatibility between major versions, meaning earlier versions can only query their own submissions. (e.g. 3.x queries will find all 1.x, 2.x and 3.x invoice data, but 2.x queries will not see 3.x data).
4) The requestVersion value for data reports modifying or cancelling invoices attached to a base invoice must be at least equal to the requestVersion of the base invoice itself, never lower. (e.g. it is possible to submit a 3.0 cancelling data report for a 2.0 base invoice, but not vice versa).

1.6.10 Character conversion

When saving the received invoices, xsd version 2.0 and earlier systems will carry out an uppercase-conversion of the data contained within the following tags:

- o supplierName, customerName, fiscalRepresentativeName, obligatedName
- o every element of every address defined by the AddressType type
- o the values of every productCodeOwnValue tag
- o lineDescription
- o unitOfMeasure

- o discountDescription
- o the values of every vatExemption tag
- o brand, serialNum, engineNum
- o every EKÁER ID defined by the EkaerIdsType type

For version 2.0 or earlier invoices, the system will always return the contents of the above fields in uppercase, regardless of the format they were received in. As of version 3.0, this uppercase conversion will be **phased out**.

1.6.11 Traffic restriction

Traffic restriction affects specific endpoints of the XML API. Every client on an endpoint under traffic restriction may only send to the server 1 query per second per IP address. All further queries are delayed by +4000 ms in the network layer compared to the delay of the previous query. If the queueing queries of a client reach the 60 second threshold, every query that has been waiting for more than 60 seconds will be terminated on the server-side after receipt. List of endpoints under traffic restriction:

- v1 endpoints
    - o /tokenExchange
    - o /manageInvoice
    - o /queryInvoiceData
    - o /queryInvoiceStatus
    - o /queryTaxpayer

1.7   Key elements of the API schema definition

Below are the key complex element nodes of the service. They typically contain several atomic elements and complex type nodes, to allow for the flexible assembly of request-response messages used by the operations.

Request elements

ManageAnnulmentRequest – root element of the POST /manageAnnulment REST operation request
ManageInvoiceRequest – root element of the POST /manageInvoice REST operation request
QueryInvoiceChainDigestRequest – root element of the POST /queryInvoiceChainDigest REST operation request
QueryInvoiceCheckRequest – root element of the POST /queryInvoiceCheck REST operation request
QueryInvoiceDataRequest – root element of the POST /queryInvoiceData REST operation request
QueryInvoiceDigestRequest – root element of the POST /queryInvoiceDigest REST operation request
QueryTransactionListRequest – root element of the POST /queryTransactionList REST operation request
QueryTransactionStatusRequest – root element of the POST /queryTransactionStatus REST operation request
QueryTaxpayerRequest – root element of the POST /queryTaxpayer REST operation request
TokenExchangeRequest – root element of the POST /tokenExchange REST operation request

Response elements

ManageAnnulmentResponse – root element of the POST /manageAnnulment REST operation response

ManageInvoiceResponse – root element of the POST /manageInvoice REST operation response

QueryInvoiceChainDigestResponse – root element of the POST /queryInvoiceChainDigest REST operation response

QueryInvoiceCheckResponse – root element of the POST /queryInvoiceCheck REST operation response

QueryInvoiceDataResponse – root element of the POST /queryInvoiceData REST operation response

QueryInvoiceDigestResponse – root element of the POST /queryInvoiceDigest REST operation response

QueryTransactionListResponse – root element of the POST /queryTransactionList REST operation response

QueryTransactionStatusResponse – root element of the POST /queryTransactionStatus REST operation response QueryTaxpayerResponse – root element of the POST /queryTaxpayer REST operation response

TokenExchangeResponse – root element of the POST /tokenExchange REST operation response

1.8 Business operations

This section details the technical specifications of the /invoiceService service, which delivers the invoice data reporting interface functions, and presents the operations, request-response structures and definition root elements.

1.8.1 /manageAnnulment operation

The /manageAnnulment operation is used for submitting technical annulment codes. Technical annulment can only be submitted for data reports that have already been received and given the DONE status by NAV.

1.8.1.1 ManageAnnulmentRequest

The structure of the /manageAnnulment operation request is contained within the ManageAnnulmentRequest element.
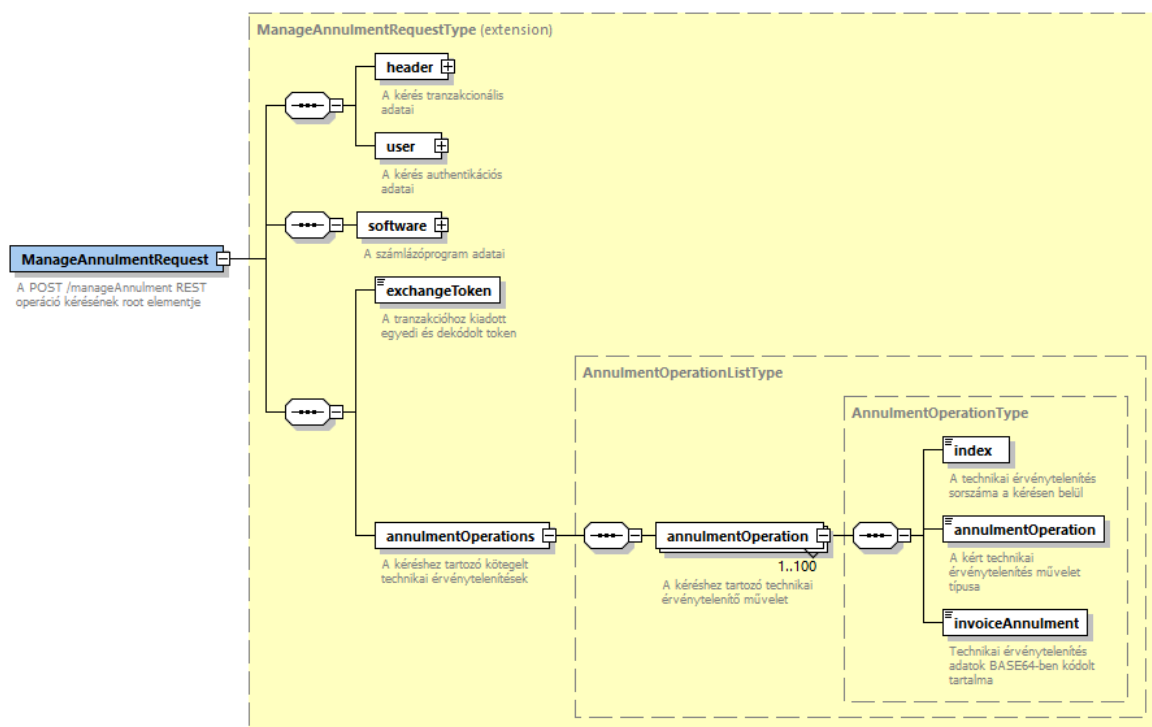
7 Structure of the ManageAnnulmentRequest element

This type extends the BasicOnlineInvoiceRequestType, meaning that beyond the elements typically contained it will also incorporate the data reporting token and a list type with the technical annulment data to be reported.

Tag	Type	Mandatory	Content
exchangeToken	xs:string	yes	Data reporting token
index	xs:int	yes	The technical annulment position within the request
annulmentOperation	xs:string	yes	Indication of the requested technical annulment operation
invoiceAnnulment	xs:base64Binary	yes	Technical annulment data encoded as BASE64

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
exchangeToken	SimpleText50NotBlankType	.*[^\s].*	-	-
index	InvoiceIndexType	minInclusive = 1 maxInclusive = 100	-	-
annulmentOperation	ManageAnnulmentOperationType	-	ANNUL	-
invoiceAnnulment	-	-	-	-

Definition and related requirements

1) The decoded token value requested in the /tokenExchange operation must be sent within the exchangeToken tag prior to data submission. The decoding must be done using the AES-128 ECB encryption algorithm on the technical user's replacement key. The token must be valid on the server side at the time of sending the request – no data reporting can be performed with an expired and/or improperly decoded token. As the token is assigned to the taxpayer and not the technical user, a token requested by a different technical user can also be used, provided the decoding was carried out using the replacement key of the user who had requested the token previously.

2) The index indicates the position of the data submission within the request. It serves as the means for linking the processing response to the specific data submissions. As the index has an implicit effect on the generation of the requestSignature value, it must be consistently numbered, in ascending order and with no gaps in the numeration. Requests indexed not in accordance with this will be rejected by the server.

3) The annulmentOperation tag defines whether the data submission for the position in question qualifies as technical annulment (currently, the tag can contain one single value only.) The section "**Technical annulment of previous data report**" further details the rules for technical annulment.

4) The invoiceAnnulment tag contains a separate XML encoded in BASE64 format. The XML in the invoice element must be properly formatted and must conform to the invoiceAnnulment.xsd schema. The processing of the technical annulment data is carried out in an asynchronous fashion; the processing results can be queried in the /queryTransactionStatus operation.

1.8.1.2   ManageAnnulmentResponse

The structure of the /manageAnnulment operation response is contained within the ManageAnnulmentResponse element.

8 Structure of the ManageAnnulmentResponse element

The type extends the TransactionResponseType. In addition to the BasicOnlineInvoiceResponseType, the type also contains a transaction ID.

Tag	Type	Mandatory	Content
transactionId	xs:string	yes	The ID of the validated data report

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
transactionId	EntityIdType	[+a-zA-Z0-9_]{1,30}	-	-

Definition and related requirements

1) A transactionId is a unique server-side identifier for a query containing a data submission (invoice data reporting or a technical annulment). Transaction IDs are only issued once the synchronous processing of the request has been successfully completed. However, the issuing of the transaction ID does not in itself indicate that the transaction was successfully processed, as the analysis and processing of the submitted data has still yet to be done at that point. This transaction ID can be used to query the processing results of the submitted data within the /queryTransactionStatus operation.

1.8.2   /manageInvoice operation

/manageInvoice is the operation used for submitting the reported invoice data to NAV, which includes those for the original, modifying or cancelling invoices.

1.8.2.1 ManageInvoiceRequest

The structure of the /manageInvoice operation request is contained within the ManageInvoiceRequest element.
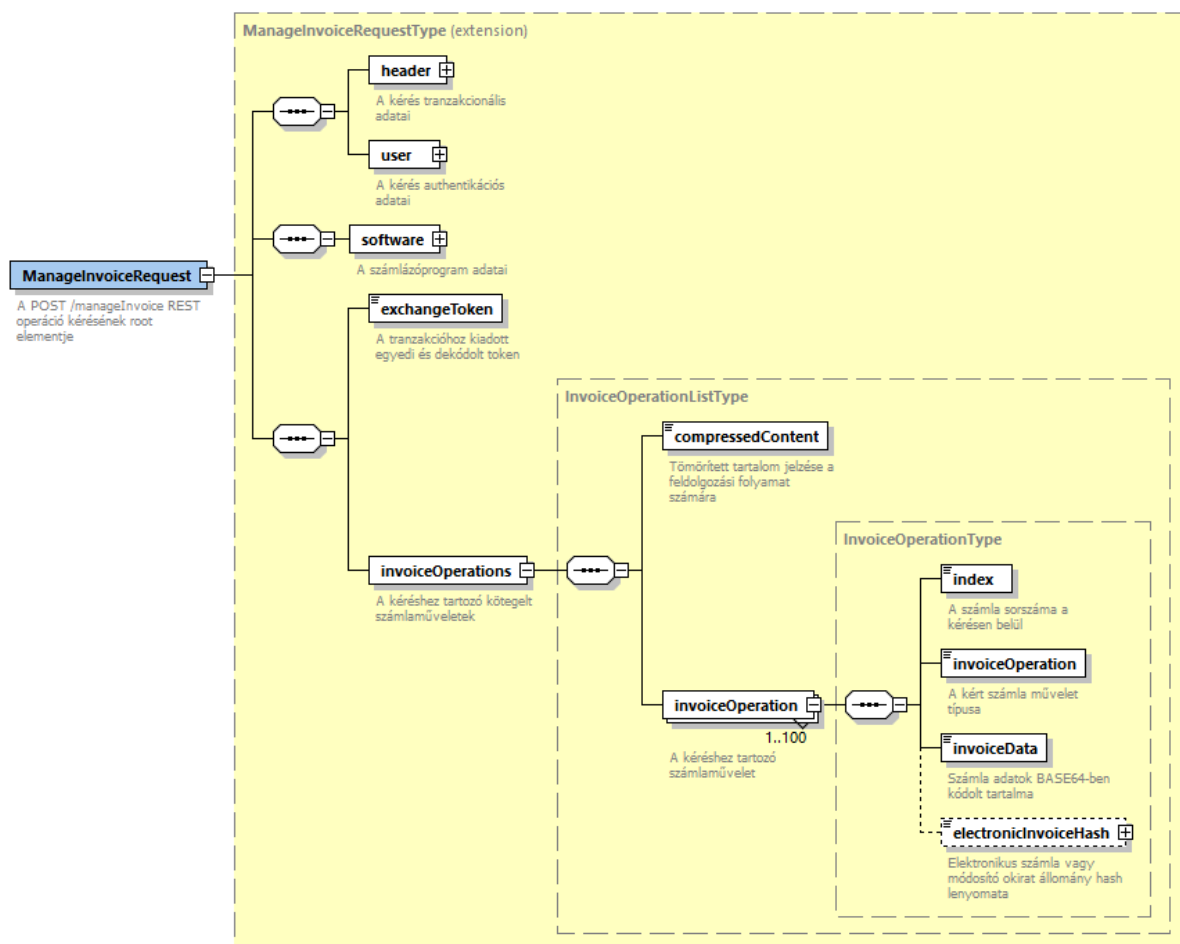
9Structure of the ManageInvoiceRequest element

This type extends BasicOnlineInvoiceRequestType, meaning that beyond the elements it typically contains, it will also incorporate the data reporting token and a list type with the business invoice data to be reported.

Tag	Type	Mandatory	Content
exchangeToken	xs:string	yes	Data reporting token
compressedContent	xs:boolean	yes	Indication of compressed content for the processing operation
index	xs:int	yes	Invoice position within the request
invoiceOperation	xs:string	yes	Indication of invoice operation
invoiceData	xs:base64Binary	yes	Invoice data in BASE64 encoding
electronicInvoiceHash	xs:string	no	Hash of invoice file

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
exchangeToken	SimpleText50NotBlankType	.*[^\s].*	-	-
compressedContent	-	-	-	false
index	InvoiceIndexType	minInclusive = 1 maxInclusive = 100	-	-
invoiceOperation	ManageInvoiceOperationType	-	CREATE MODIFY STORNO	-
invoiceData	-	-	-	-
electronicInvoiceHash	CryptoType	.*[^\s].*	-	-

Definition and related requirements

1) The decoded token value requested in the /tokenExchange operation prior to data reporting must be sent within the exchangeToken tag. The decoding must be done using the AES-128 ECB encryption algorithm on the technical user's replacement key. The token must be valid on the server side at the time of sending the request – no data reporting can be performed with an expired and/or improperly decoded token. As the token is assigned to the taxpayer and not the technical user, a token requested by a different technical user can also be used, provided the decoding was carried out using the replacement key of the user who had requested the token previously.

2) The compressedContent tag is used to indicate whether or not the requested invoice data reports contain compressed XML files. As the tag is query-level, all data reports in the query must uniformly be either compressed or uncompressed. Please refer to section "**Compression and file size limit**" for a detailed description of the correct use of compression.

3) The index indicates the position of data reporting for a specific invoice within the request. It serves as the means for linking the processing response to the specific invoice data reports. As the index has an implicit effect on the generation of the requestSignature value, it must be consistently numbered, in ascending order and with no gaps in the numeration. Requests indexed not in accordance with this will be rejected by the server.

4) The invoiceOperation tag indicates whether the invoice in the given position is considered an original invoice, a modifying invoice or a cancelling invoice. For the detailed rules of modification, cancelling and annulment, please check the section "**Data reporting of invoice-equivalent documents**".

5) The invoiceData tag contains a separate XML, encoded in BASE64 format. The XML in the invoice element must be properly formatted, and must conform to the invoiceData.xsd schema. The processing of the invoice data is carried out in an asynchronous fashion; the processing results can be queried in the /queryTransactionStatus operation.

6) The electronicInvoiceHash tag is contained in the complex type InvoiceOperationType. Specifying a hash is optional at the schema level, but is required if the completenessIndicator flag is set to true. Due to its type, the electronicInvoiceHash tag is supplemented with a new mandatory attribute called cryptoType. Its accepted value depends on the value of completenessIndicator (the data provided being the invoice itself) tag for the given invoice.

If the value of completenessIndicator is true, the only accepted value is SHA3-512. In such cases the capital letter version of the hash value is to be submitted. If the value of completenessIndicator flag is false, the accepted values are: SHA3-512, SHA-256.

1.8.2.2 ManageInvoiceResponse

The structure of the /manageInvoice operation response is contained within the ManageInvoiceResponse element.

10 *Structure of the ManageInvoiceResponse element*

The type extends the TransactionResponseType. In addition to the BasicOnlineInvoiceResponseType, the type also contains a transaction ID.

Tag	Type	Mandatory	Content
transactionId	xs:string	yes	The ID of the validated data report

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
transactionId	EntityIdType	[+a-zA-Z0-9_]{1,30}	-	-

Definition and related requirements

1) A transactionId is a unique server-side identifier for a query containing a data submission (invoice data reporting or a technical annulment). Transaction IDs are only issued once the synchronous processing of the request has been successfully completed. However, the issuing of the transaction ID does not in itself indicate that the transaction was successfully processed, as the analysis and processing of the submitted data has still yet to be done at that point. This transaction ID can be used to query the processing results of the submitted data within the /queryTransactionStatus operation.

1.8.3   /queryInvoiceChainDigest operation

/queryInvoiceChainDigest is a query operation based on an invoice number, usable from both the supplier and customer side of the invoice. The operation returns a pageable invoice list matching the query parameters provided. The items in the list are the items in the invoice chain for the specified base invoice. The response will not contain all the business data contained in the invoices, only a digest, primarily regarding the modification and the number of line items.

1.8.3.1   QueryInvoiceChainDigestRequest

The structure of the /queryInvoiceChainDigest operation request is contained within the QueryInvoiceChainDigestRequest element.
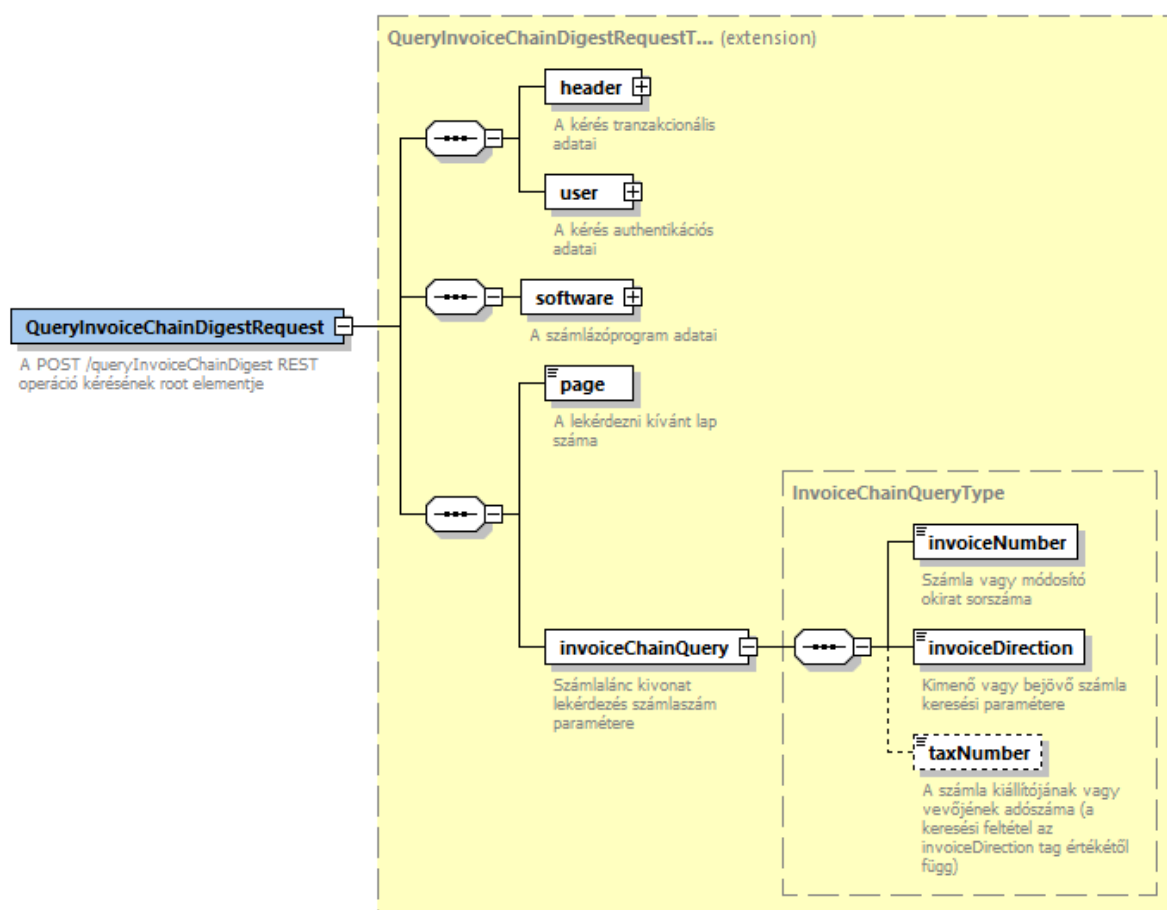
11 *Structure of the QueryInvoiceChainDigestRequest element*

This type extends the BasicOnlineInvoiceRequestType, meaning that in addition to the elements it contains, it also expects a number of mandatory search parameters: the invoice number of the queried base invoice, the direction of the search, and optionally the supplier's/customer's tax number.

Tag	Type	Mandatory	Content
page	xs:int	yes	The page number to be queried
invoiceNumber	xs:string	yes	The invoice number of the queried invoice

| invoiceDirection | xs:string | yes | The direction of searching. The search can be performed both as the supplier and as the customer |
| taxNumber | xs:string | no | Supplier's/customer's tax number |

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
page	RequestPageType	minInclusive = 1	-	-
invoiceNumber	SimpleText50NotBlankType	.*[^\s].*	-	-
invoiceDirection	InvoiceDirectionType	-	OUTBOUND INBOUND	-
taxNumber	TaxpayerIdType	[0-9]{8}	-	-

Definition and related requirements

1) The invoiceNumber tag should include the number of the queried base invoice. The operation is also prepared to list modifications that have no history, so it is not required for the specified invoice number to actually exist in the system, but modifying invoice without history must refer to the queried value.

2) It is mandatory to include the direction of search in the invoiceDirection tag. The direction of search can be from the supplier's side (OUTBOUND) or from the customer's side (INBOUND). When searching as a supplier, the invoice should include the tax number assigned to the technical user initiating the query on the supplier side. Similarly, when searching as a customer, the invoice should have the tax number assigned to the technical user initiating the query on the customer side. Invoices without the customer's tax number cannot be searched for from the customer side, only from their own supplier's side.

1.8.3.2   QueryInvoiceChainDigestResponse

The structure of the /queryInvoiceChainDigest operation response is contained within the QueryInvoiceChainDigestResponse element.
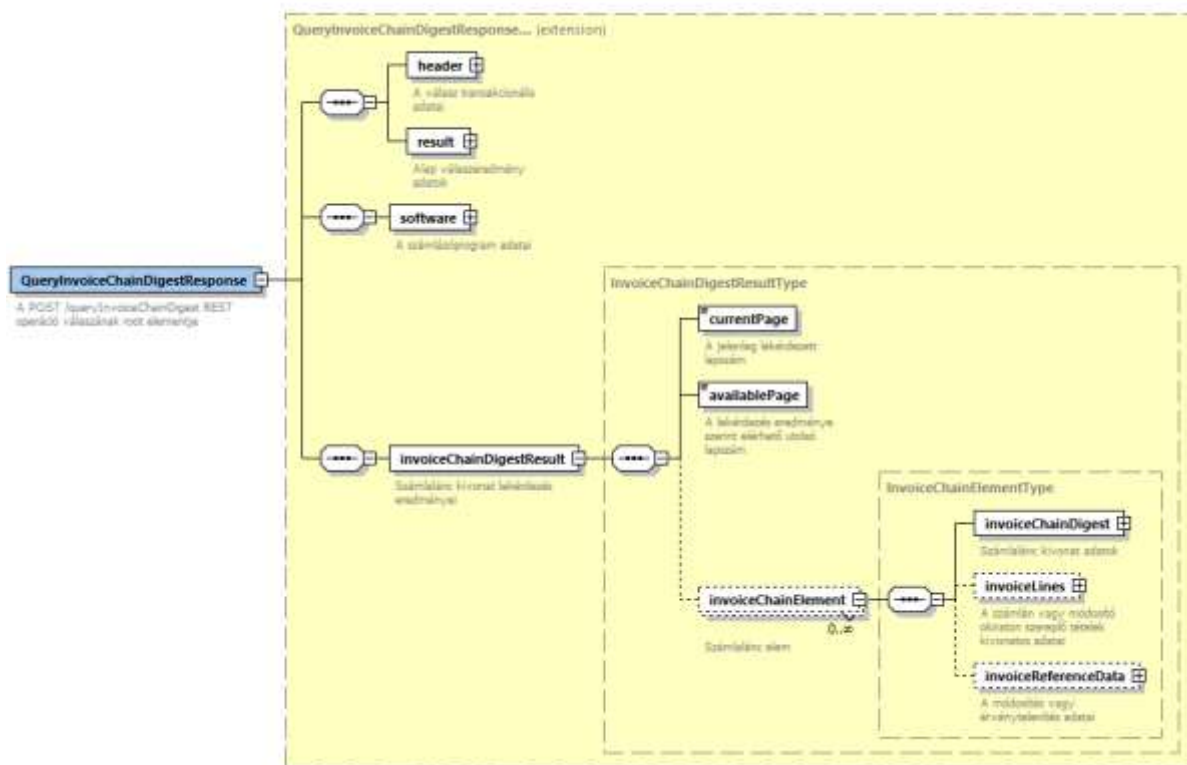
12 *Structure of the QueryInvoiceChainDigestResponse element*
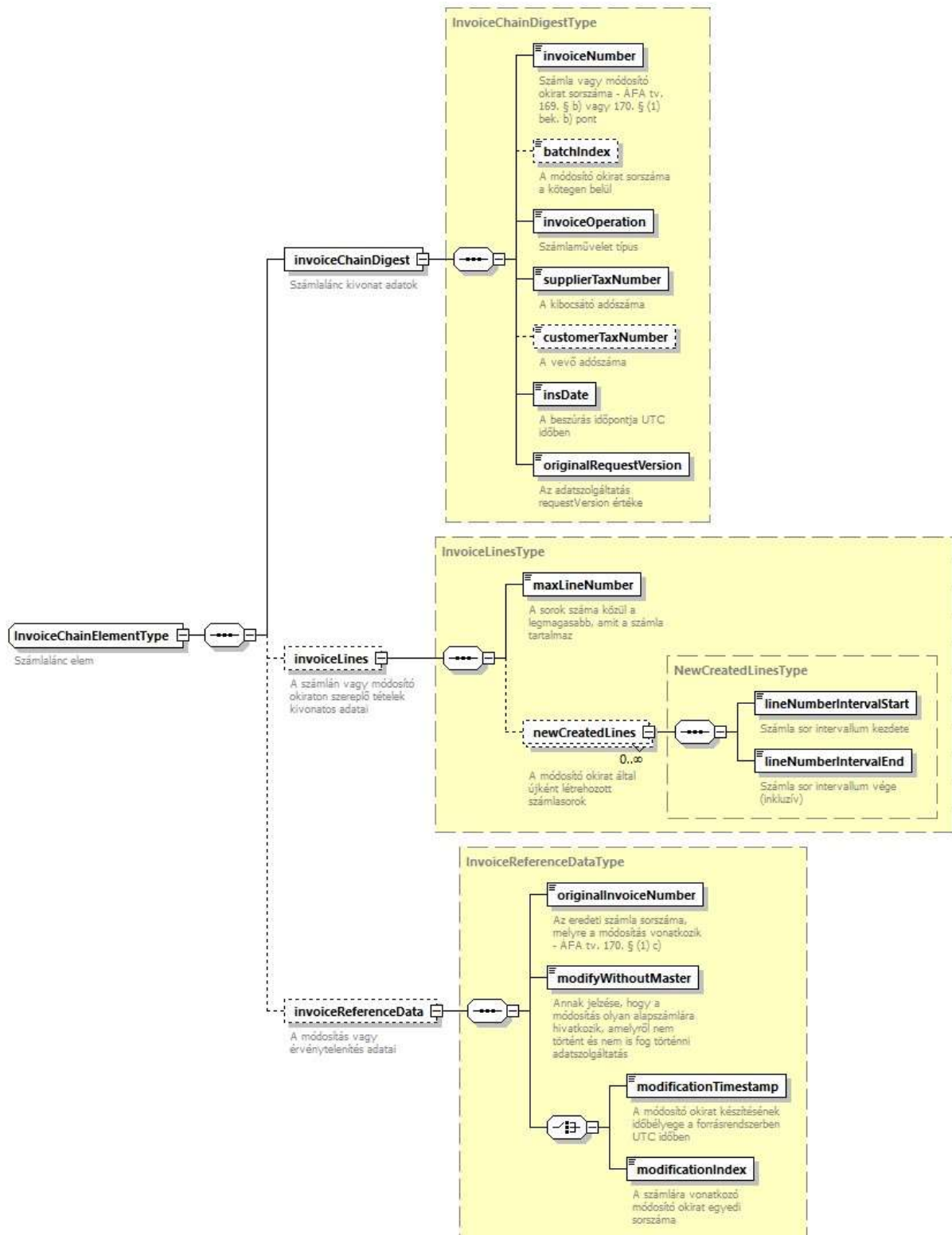
13 *Structure of the InvoiceChainElementType element*

This type extends the BasicOnlineInvoiceResponseType, meaning that in addition to the elements it contains, it will also contain a digest of the invoice chain elements if at least one match is found. In addition to the basic information of the invoices, the digests contain primarily the line number of the invoice and the details of the modification.

Tag	Type	Mandatory	Content
currentPage	xs:int	yes	The value of the currently queried page
availablePage	xs:int	yes	The value of the highest available page

invoiceChainElement/invoiceChainDigest level

Tag	Type	Mandatory	Content
invoiceNumber	xs:string	yes	Serial number of the invoice or modifying document – as per Section 169 b) or 170 (1) b) of the VAT Act
batchIndex	xs:int	no	The serial number of the amending document, for batch modifications
invoiceOperation	xs:string	yes	Invoice operation
supplierTaxNumber	xs:string	yes	Tax number of the invoice supplier
customerTaxNumber	xs:string	no	Customer's tax number
insDate	xs:dateTime	yes	Save time of invoice data reporting
originalRequestVersion	xs:string	yes	Data report requestVersion value

invoiceChainElement/invoiceLines level

Tag	Type	Mandatory	Content
maxLineNumber	xs:nonNegativeInteger	yes	Highest line number in the invoice
newCreatedLines/lineNumberIntervalStart	xs:nonNegativeInteger	yes	Line interval start of the added invoice
newCreatedLines/lineNumberIntervalEnd	xs:nonNegativeInteger	yes	Inclusive line interval end of the added invoice

invoiceChainElement/invoiceReferenceData level

Tag	Type	Mandatory	Content
originalInvoiceNumber	xs:string	yes	The serial number of the original invoice amended by the modification
modifyWithoutMaster	xs:boolean	yes	Indication of modification with no original invoice
modificationTimestamp	xs:dateTime	yes	Timestamp of modifying invoice
modificationIndex	xs:int	yes	The unique serial number of the amending document referencing the invoice

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
currentPage	ResponsePageType	minInclusive = 0	-	-
availablePage	ResponsePageType	minInclusive = 0	-	-

invoiceChainElement/invoiceChainDigest level

Tag	SimpleType	Pattern	Enum	Default
invoiceNumber	SimpleText50NotBlankType	.*[^\s].*	-	-
batchIndex	InvoiceUnboundedIndexType	minInclusive = 1	-	-
invoiceOperation	ManageInvoiceOperationType	-	CREATE MODIFY STORNO	
supplierTaxNumber	TaxpayerIdType	[0-9]{8}	-	-
customerTaxNumber	TaxpayerIdType	[0-9]{8}	-	-
insDate	InvoiceTimestampType	\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}.\d{3}Z minInclusive = 2010-01-01T00:00:00Z	-	-
originalRequestVersion	OriginalRequestVersionType	-	1.0 1.1 2.0 3.0	-

invoiceChainElement/invoiceLines level

Tag	SimpleType	Pattern	Enum	Default
maxLineNumber	LineNumberType	-	-	-
newCreatedLines/lineNumberIntervalStart	LineNumberType	-	-	-
newCreatedLines/lineNumberIntervalEnd	LineNumberType	-	-	-

invoiceChainElement/invoiceReferenceData level

Tag	SimpleType	Pattern	Enum	Default
originalInvoiceNumber	SimpleText50NotBlankType	.*[^\s].*	-	-
modifyWithoutMaster	-	-	-	false
modificationTimestamp	InvoiceTimestampType	\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(.\d{1,3})?		

		Z minInclusive = 2010-01-01T00:00:00Z		
modificationIndex	InvoiceUnboundedIndexType	minInclusive = 1	-	-

Definition and related requirements

1) The currentPage tag always returns the value of the page parameter specified in the request. The availablePage tag also contains the page numbers of all other queryable pages. If the search returns no results, the value of availablePage will be 0, and the invoiceChainElement tag will be empty. No more than 100 items can be included on a single page.

2) The maxLineNumber tag contains the highest lineNumber for the given invoice (not to be confused with the value /line/lineModificationReference/lineNumberReference).

3) The newCreatedLines node is created only for modifying and cancelling invoices, and only if the given invoices contains new lines (where lineOperation = CREATE). Since line continuity is not guaranteed within an invoice, the number of generated newCreatedLines will match the number of relevant intervals in the invoice. The end of the interval is inclusive, so the value of the lineNumberIntervalEnd tag is still included in the number of defined lines.

4) The invoiceReferenceData is also created only for modifying and cancelling invoices, the loading of the modificationTimestamp and modificationIndex elements within a node depends on the version of the given invoice. For versions 1.0 and 1.1, the modificationTimestamp will be loaded, while from version 2.0 onwards, the modificationIndex will be loaded.

1.8.4 /queryInvoiceCheck operation

/queryInvoiceCheck is a query operation based on an invoice number, usable from both the supplier and customer side of the invoice. The operation checks whether a data report exists in the system for the invoice number provided, without returning the entire data content of the invoice.

1.8.4.1 QueryInvoiceCheckRequest

The structure of the /queryInvoiceCheck operation request is contained within the QueryInvoiceCheckRequest element.

14 *Structure of the QueryInvoiceCheckRequest element*

This type extends the BasicOnlineInvoiceRequestType, meaning that in addition to the elements it contains, it also expects a number of mandatory search parameters: the invoice number of the queried invoice, the direction of the search, and optionally the index of the amending document for batch modifications, as well as the supplier's tax number.

Tag	Type	Mandatory	Content
invoiceNumber	xs:string	yes	The invoice number of the queried invoice
invoiceDirection	xs:string	yes	The direction of searching. The search can be performed both as the supplier and as the customer
batchIndex	xs:int	no	The serial number of the amending document, for batch modifications
supplierTaxNumber	xs:string	no	The supplier's tax number, for customer-side searches

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
invoiceNumber	SimpleText50NotBlankType	.*[^\s].*	-	-
invoiceDirection	InvoiceDirectionType	-	OUTBOUND INBOUND	-
batchIndex	InvoiceUnboundedIndexType	minInclusive = 1	-	-
supplierTaxNumber	TaxpayerIdType	[0-9]{8}	-	-

Definition and related requirements

1) The invoiceNumber tag should include the number of the queried invoice or amending document.

2) It is mandatory to include the direction of search in the invoiceDirection tag. The direction of search can be from the supplier's side (OUTBOUND) or from the customer's side (INBOUND). When searching as a supplier, the invoice should include the tax number assigned to the technical user initiating the query on the supplier side. Similarly, when searching as a customer, the invoice should have the tax number assigned to the technical user initiating the query on the customer side. Invoices without the customer's tax number cannot be searched for from the customer side, only from their own supplier's side.

3) For batch modifications, it is possible to optionally narrow the search to the invoice at the position corresponding to the batchIndex. If the queried invoice number corresponds to a batch modification invoice, customer-side searching can only be done by providing both the correct invoice number and the batchIndex. If the queried invoice number is not a batch modification but the batchIndex tag is filled out, or vice versa, and if the queried invoice number is a batch modification but the batchIndex tag for a customer-side search is empty, the system will return a specific error code. For more information on the error code, see the section "**Error Management**".

4) The supplierTaxNumber tag can only be provided for customer-side queries. If several suppliers have issued the queried invoice with the same reference number, then the tag can be used to narrow down the search to a single element. If the tag is not filled out for a customer-side query and there are multiple results, the system will return a specific error code. The list of possible supplier tax numbers is available through the /queryInvoiceDigest operation. If the search is not initiated from the customer side and the supplierTaxNumber tag is filled out, the system will return a specific error code. For more information on the error code, see the section "**Error Management**".

1.8.4.2 QueryInvoiceCheckResponse

The structure of the /queryInvoiceCheck operation response is contained within the QueryInvoiceCheckResponse element.
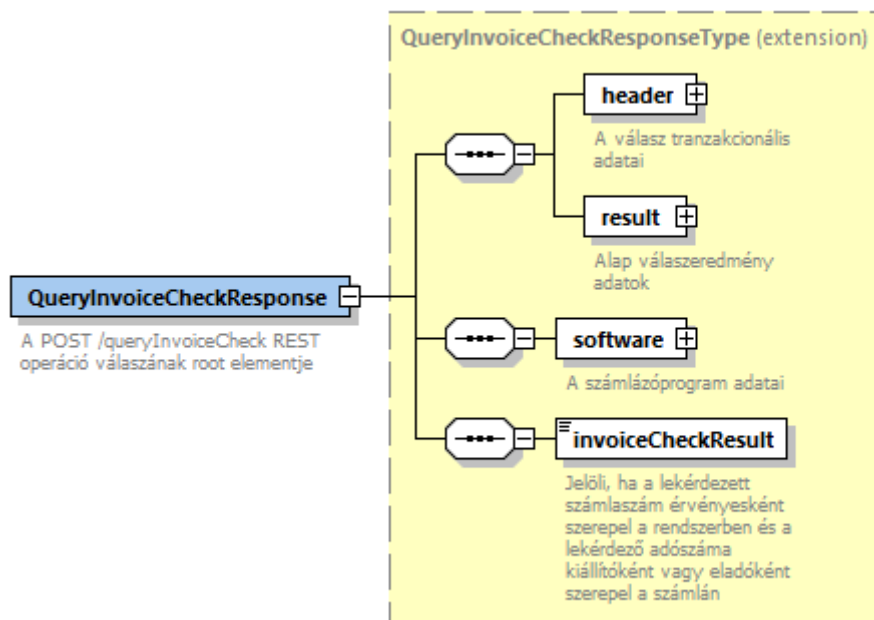
15 Structure of the QueryInvoiceCheckResponse element

This type extends the BasicOnlineInvoiceResponseType, meaning that in addition to the elements it contains, it will also incorporate a boolean value named invoiceCheckResult.

Tag	Type	Mandatory	Content
invoiceCheckResult	xs:boolean	yes	Contains the boolean result of the check.

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
invoiceCheckResult	-	-	-	false

Definition and related requirements

1) The invoiceCheckResult tag contains the results of the check. The tag value is true if the system contains precisely one valid element with the queried invoice number. If there are multiple valid instances of the queried invoice number in the system due to an error, the response will contain a new error code. For more information on the error code, see the section "**Error Management**". The value of the tag is false in every other instance.

1.8.5 /queryInvoiceData operation

/queryInvoiceData is a query operation based on an invoice number, usable from both the supplier and customer side of the invoice. The operation returns the entire data content of the invoice for the invoice number given.

1.8.5.1 QueryInvoiceDataRequest

The structure of the /queryInvoiceData operation request is contained within the QueryInvoiceDataRequest element.

16 *Structure of the QueryInvoiceDataRequest element*

This type extends the BasicOnlineInvoiceRequestType, meaning that in addition to the elements it contains, it also expects a number of mandatory search parameters: the invoice number of the queried invoice, the direction of the search, and optionally the index of the amending document for batch modifications, as well as the supplier's tax number.

Tag	Type	Mandatory	Content
invoiceNumber	xs:string	yes	The invoice number of the queried invoice
invoiceDirection	xs:string	yes	The direction of searching. The search can be performed both as the supplier and as the customer
batchIndex	xs:int	no	The serial number of the amending document, for batch modifications

| supplierTaxNumber | xs:string | no | The supplier's tax number, for customer-side searches |

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
invoiceNumber	SimpleText50NotBlankType	.*[^\s].*	-	-
invoiceDirection	InvoiceDirectionType	-	OUTBOUND INBOUND	-
batchIndex	InvoiceUnboundedIndexType	minInclusive = 1	-	-
supplierTaxNumber	TaxpayerIdType	[0-9]{8}	-	-

Definition and related requirements

1) The meaning and operation of every search parameter are identical to those of the tags in the query for the /queryInvoiceCheck operation.

1.8.5.2 QueryInvoiceDataResponse
The structure of the /queryInvoiceData operation response is contained within the QueryInvoiceDataResponse element.
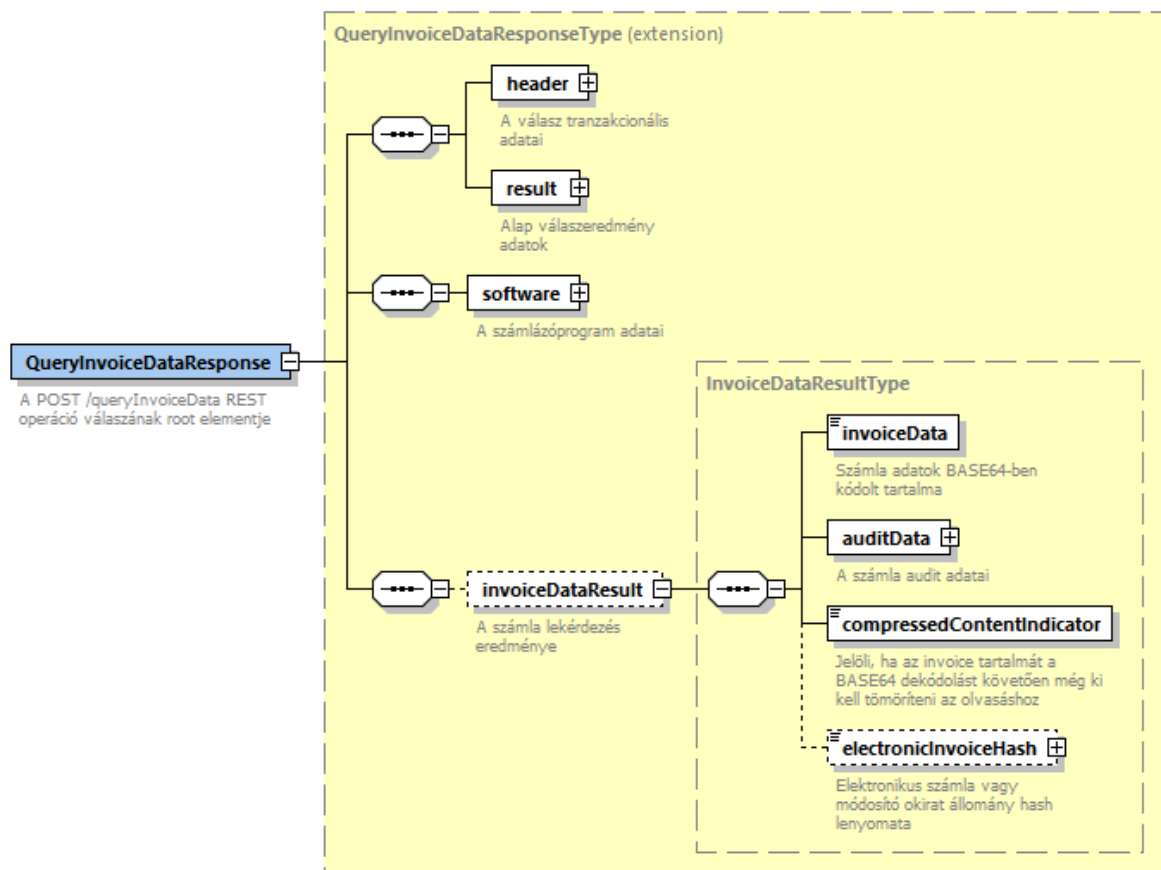
17 *Structure of the QueryInvoiceDataResponse element*
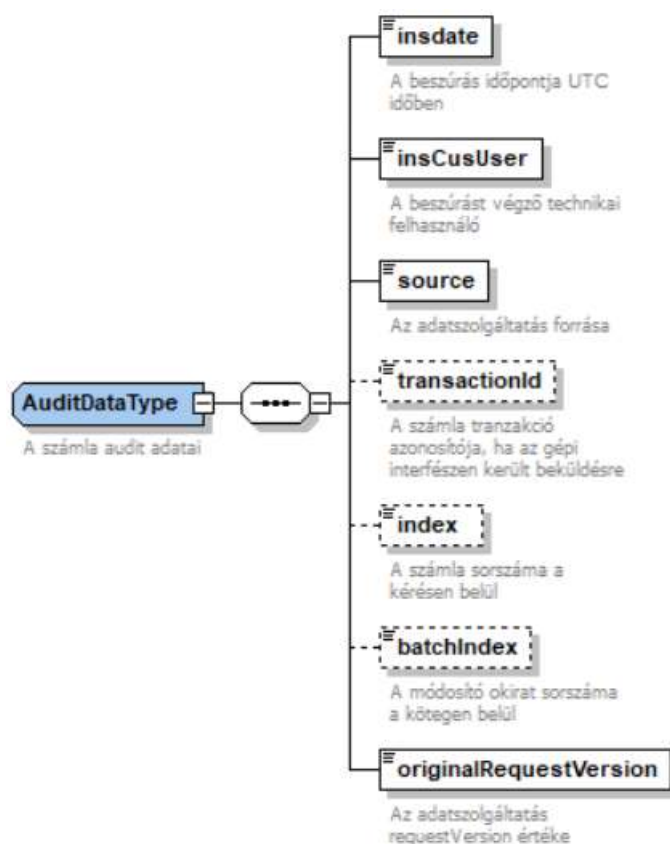
18 *Structure of the AuditDataType element*

The type extends the BasicOnlineInvoiceResponseType. In addition to the elements contained in a hit, it will also contain the invoice data encoded in base 64, a node named auditData with the invoice audit data, and boolean information denoting the compression of the invoice data.

Tag	Type	Mandatory	Content
invoiceData	xs:base64Binary	yes	Invoice data in BASE64 encoding
auditData/insDate	xs:dateTime	yes	Save time of invoice data reporting
auditData/insCusUser	xs:string	yes	Name of the technical user submitting the invoice data report
auditData/source	xs:string	yes	Invoice data report source
auditData/transactionId	xs:string	no	Invoice data report transaction ID, if the report was submitted via the computer interface
auditData/index	xs:int	no	Transaction index content of invoice data reporting
auditData/batchIndex	xs:int	no	The index number of the amending document within the batch

auditData/originalRequestVersion	xs:string	yes	Data report requestVersion value
compressedContentIndicator	xs:boolean	yes	It marks whether the invoiceData content requires decompressing after BASE 64 decoding, to render the content readable
electronicInvoiceHash	xs:complexType	no	Hash of the electronic invoice or amending document file

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
invoiceData	-	-	-	-
auditData/insDate	InvoiceTimestampType	\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(.\d{1,3})?Z minInclusive = 2010-01-01T00:00:00Z	-	-
auditData/insCusUser	LoginType	[a-zA-Z0-9]{6.15}	-	-
auditData/source	SourceType	-	WEB XML M2M OPG	-
auditData/transactionId	EntityIdType	[+a-zA-Z0-9_]{1,30}	-	-
auditData/index	InvoiceIndexType	minInclusive =1 maxInclusive = 100	-	-
auditData/batchIndex	InvoiceUnboundedIndexType	minInclusive =1		
auditData/originalRequestVersion	OriginalRequestVersionType	-	1.0 1.1 2.0 3.0	-
compressedContentIndicator	-	-	-	false
electronicInvoiceHash	CryptoType	-	-	-

Definition and related requirements

1) The invoiceDataResult node containing the business data of the invoice is only included in the response if there is exactly one valid instance found in the system of the invoice queried on the supplier or customer side. If there are no hits, or if the tax number used for the search is not found on the invoice in the location specified by invoiceDirection, the system will return an empty business response (BasicOnlineInvoiceResponseType) and a <funcCode>OK</funcCode> message. If the system finds multiple valid instances of the queried invoice number, the system will return a specific error code. For more information on the error code, see the section "**Error Management**".

2) The electronicInvoiceHash is included in the submission outside the invoiceData node. For this reason, the queryInvoiceData response is also outside the invoiceData node, because the hash value is calculated from the BASE64 value of the invoiceData node.

1.8.6 /queryInvoiceDigest operation

/queryInvoiceDigest is a query operation based on business search parameters, usable from both the supplier and customer side of the invoice. The operation returns a pageable invoice list matching the query parameters provided. The response will not contain all of the business data contained in the invoices, but only a digest. If required, the /queryInvoiceData operation can be used to query the full data content of any of the invoices in the list, searching by invoice number.

1.8.6.1 QueryInvoiceDigestRequest

The structure of the /queryInvoiceDigest operation request is contained within the QueryInvoiceDigestRequest element.
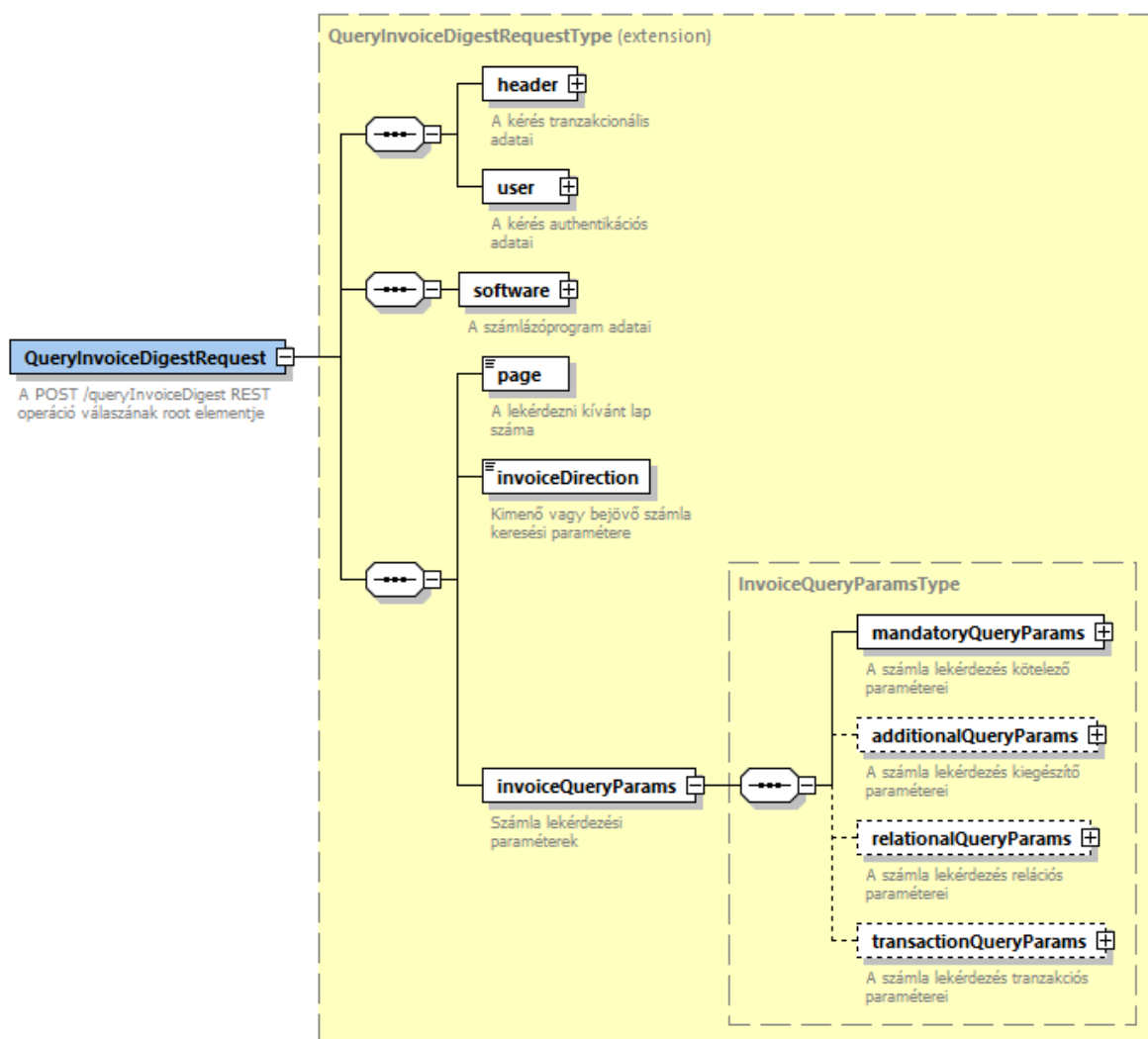
19 *Structure of the QueryInvoiceDigestRequest element*
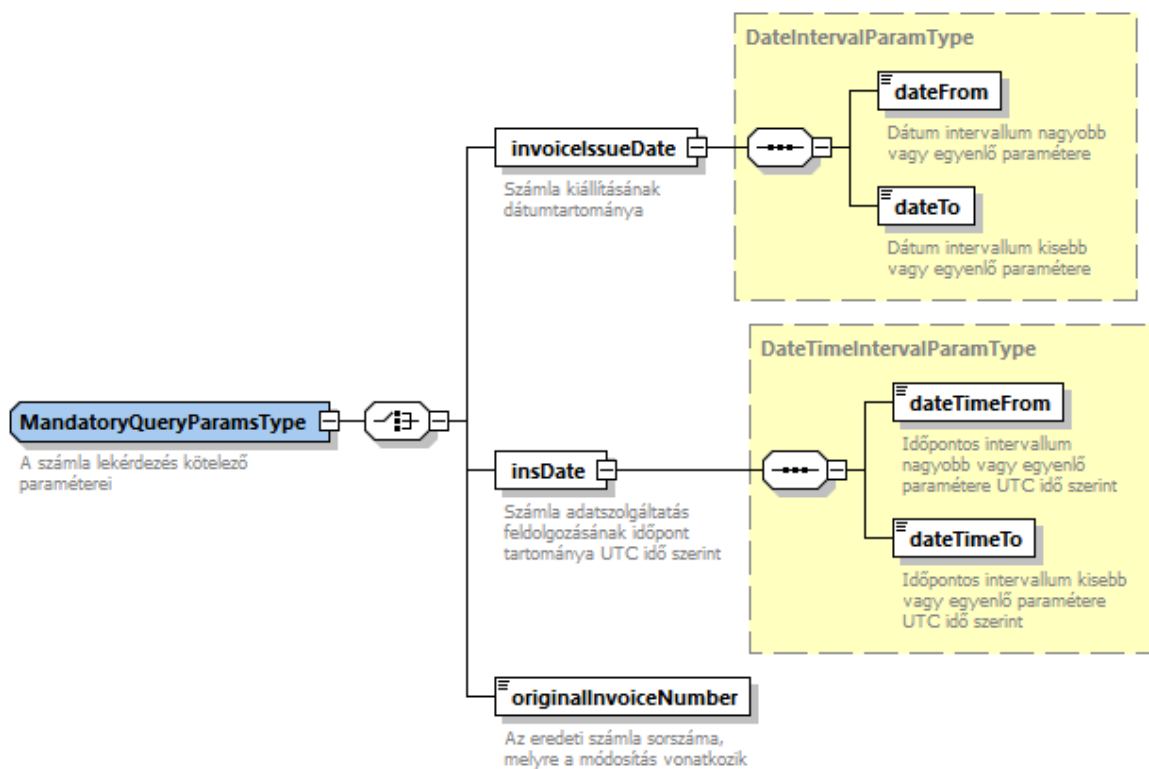
20 *Structure of the MandatoryQueryParamsType element*
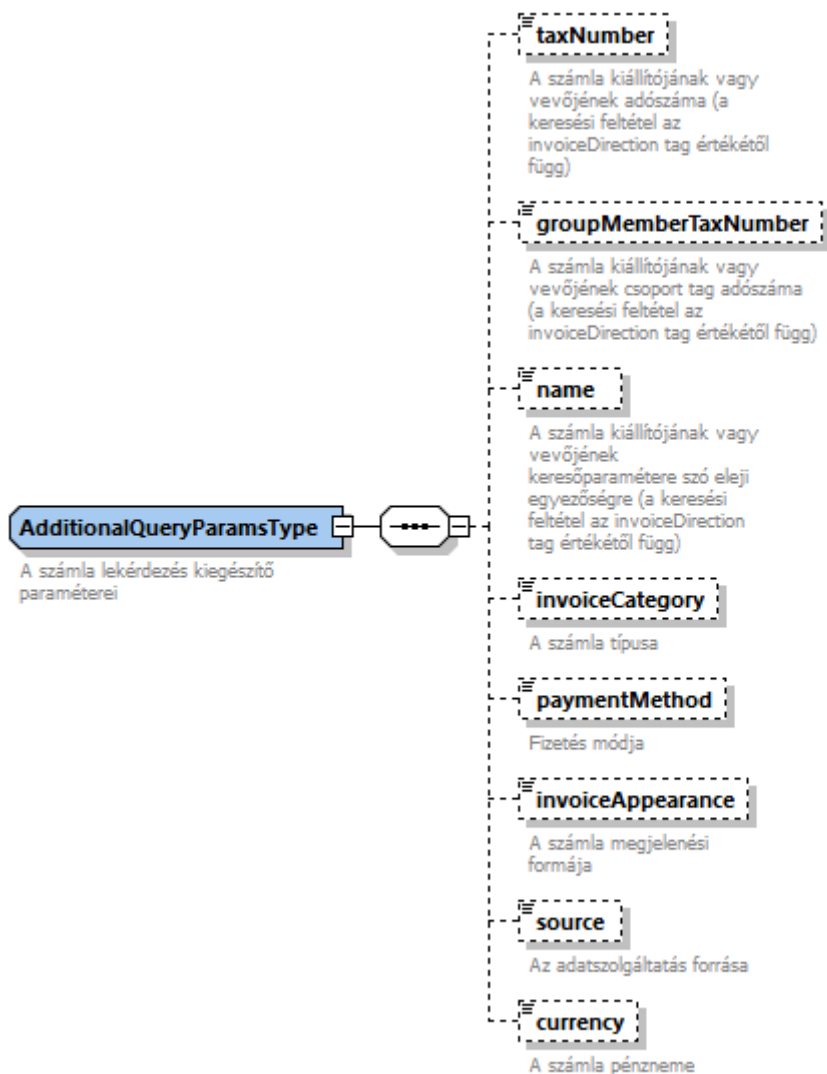
21 *Structure of the AdditionalQueryParamsType element*
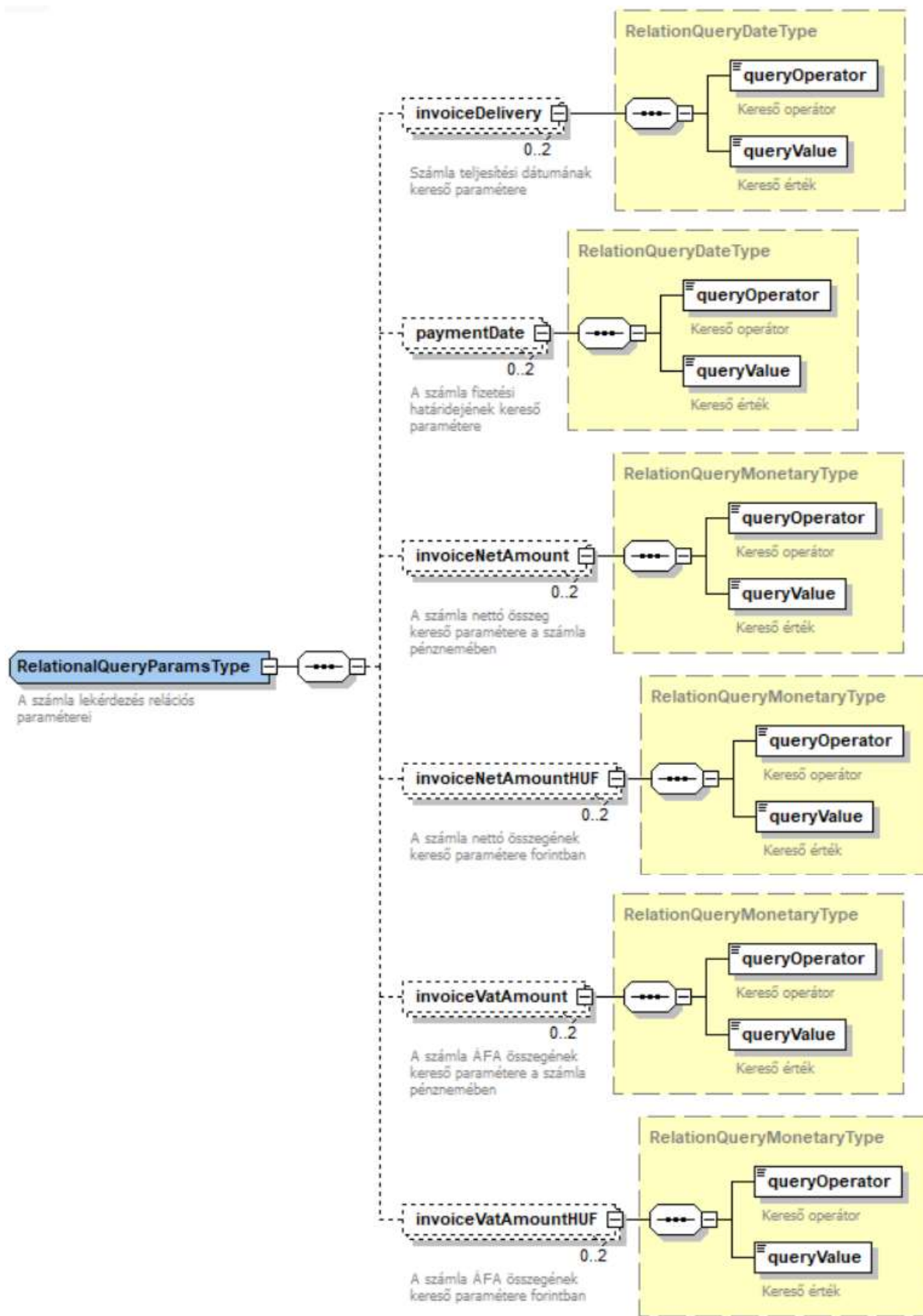
22 *Structure of the RelationalQueryParamsType element*
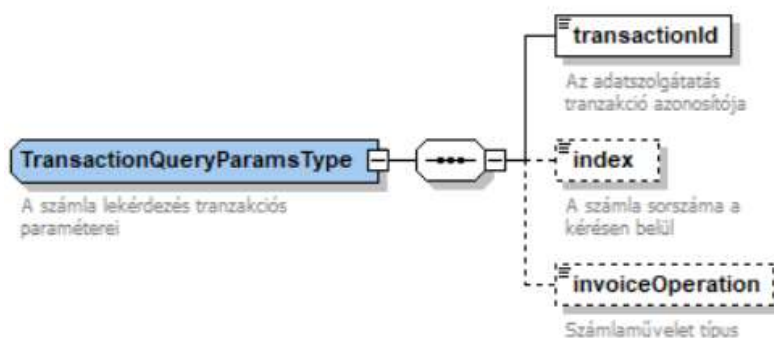
23 *Structure of the TransactionQueryParamsType element*

This type extends the BasicOnlineInvoiceRequestType, meaning that in addition to the elements it contains, it also expects a number of mandatory search parameters: the searched page number, the direction of the search, and one of the mandatory search parameters. In addition, optional search parameters may also be used to further narrow the list of results for the mandatory search parameters. All search conditions are conjunctive, the logical "or" operator is not available.

Root element level

Tag	Type	Mandatory	Content
page	xs:int	yes	The page number to be queried
invoiceDirection	xs:string	yes	The direction of searching. The search can be performed both as the supplier and as the customer
invoiceQueryParams	xs:complexType	yes	Request search parameters

invoiceQueryParams level

Tag	Type	Mandatory	Content
mandatoryQueryParams	xs:complexType	yes	Mandatory search parameters
additionalQueryParams		no	Additional search parameters
relationalQueryParams		no	Relational search parameters
transactionQueryParams		no	Transactional search parameters

mandatoryQueryParams level

Tag	Type	Mandatory	Content
invoiceIssueDate/dateFrom	xs:date	yes	Greater-than or equal search parameter for the invoice issue date
invoiceIssueDate/dateTo	xs:date	yes	Smaller-than or equal search parameter for the invoice issue date

insDate/dateTimeFrom	xs:timestamp	yes	Greater-than or equal search parameter for the invoice processing date, by UTC time
insDate/dateTimeTo	xs:timestamp	yes	Smaller-than or equal search parameter for the invoice processing date, by UTC time
originalInvoiceNumber/originalInvoiceNumber	xs:string	yes	Invoice chain search parameter using the base invoice number

additionalQueryParams level

Tag	Type	Mandatory	Content
taxNumber	xs:string	no	Tax number of the invoice supplier or customer
groupMemberTaxNumber	xs:string	no	Tax number of group member for the invoice supplier or customer
name	xs:string	no	Left side text matching for the invoice supplier or customer search parameter
invoiceCategory	xs:string	no	Invoice category type
paymentMethod	xs:string	no	Payment method
invoiceAppearance	xs:string	no	Appearance of the invoice
source	xs:string	no	Data report source
currency	xs:string	no	Invoice currency

relationalQueryParams level

Tag	Type	Mandatory	Content
invoiceDelivery/queryOperator	xs:string	yes	Relational search operator
invoiceDelivery/queryValue	xs:date	yes	The searched value
paymentDate/queryOperator	xs:string	yes	Relational search operator
paymentDate/queryValue	xs:date	yes	The searched value
invoiceNetAmount/queryOperator	xs:string	yes	Relational search operator
invoiceNetAmount/queryValue	xs:decimal	yes	The searched value
invoiceNetAmountHUF/queryOperator	xs:string	yes	Relational search operator
invoiceNetAmountHUF/queryValue	xs:decimal	yes	The searched value
invoiceVatAmount/queryOperator	xs:string	yes	Relational search operator
invoiceVatAmount/queryValue	xs:decimal	yes	The searched value
invoiceVatAmountHUF/queryOperator	xs:string	yes	Relational search operator
invoiceVatAmountHUF/queryValue	xs:decimal	yes	The searched value

transactionQueryParams level

Tag	Type	Mandatory	Content
transactionId	xs:string	no	The searched transaction ID

index	xs:int	no	Index of the searched invoice within the transaction
invoiceOperation	xs:string	no	Invoice operation search parameter

Facets and definitions

Root element level

Tag	SimpleType	Pattern	Enum	Default
page	RequestPageType	minInclusive = 1	-	-
invoiceDirection	InvoiceDirectionType	-	OUTBOUND INBOUND	-
invoiceQueryParams	-			

invoiceQueryParams level

Tag	SimpleType	Pattern	Enum	Default
mandatoryQueryParams	-			
additionalQueryParams				
relationalQueryParams				
transactionQueryParams				

mandatoryQueryParams level

Tag	SimpleType	Pattern	Enum	Default
invoiceIssueDate/dateFrom	InvoiceDateType	minInclusive = 2010-01-01 \d{4}-\d{2}-\d{2}	-	-
invoiceIssueDate/dateTo	InvoiceDateType	minInclusive = 2010-01-01 \d{4}-\d{2}-\d{2}	-	-
insDate/dateTimeFrom	InvoiceTimestampType	\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(.\d{1,3})?Z minInclusive = 2010-01-01T00:00:00Z	-	-
insDate/dateTimeTo	InvoiceTimestampType	\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(.\d{1,3})?Z minInclusive = 2010-01-01T00:00:00Z	-	-
originalInvoiceNumber/originalInvoiceNumber	SimpleText50NotBlankType	.*[^\s].*	-	-

additionalQueryParams level

Tag	SimpleType	Pattern	Enum	Default
taxNumber	TaxpayerIdType	[0-9]{8}	-	-
groupMemberTaxNumber	TaxpayerIdType	[0-9]{8}	-	-
name	QueryNameType	minlength = 5	-	-

		.*[^\s].*		
invoiceCategory	InvoiceCategoryType	-	NORMAL SIMPLIFIED AGGREGATE	-
paymentMethod	PaymentMethodType	-	TRANSFER CASH CARD VOUCHER OTHER	-
invoiceAppearance	InvoiceAppearanceType	-	PAPER ELECTRONIC EDI UNKNOWN	-
source	SourceType	-	WEB XML MGM OPG	-
currency	CurrencyType	[A-Z]{3}	-	-

relationalQueryParams level

Tag	SimpleType	Pattern	Enum	Default
invoiceDelivery/queryOperator	QueryOperatorType	-	EQ GT GTE LT LTE	-
invoiceDelivery/queryValue	InvoiceDateType	minInclusive = 2010-01-01 \d{4}-\d{2}-\d{2}	-	-
paymentDate/queryOperator	QueryOperatorType	-	EQ GT GTE LT LTE	-
paymentDate/queryValue	InvoiceDateType	minInclusive = 2010-01-01 \d{4}-\d{2}-\d{2}	-	-
invoiceNetAmount/queryOperator	QueryOperatorType	-	EQ GT GTE LT LTE	-
invoiceNetAmount/queryValue	MonetaryType	totalDigits = 18, fractionDigits = 2	-	-
invoiceNetAmountHUF/queryOperator	QueryOperatorType	-	EQ	-

			GT GTE LT LTE	
invoiceNetAmountHUF/queryValue	MonetaryType	totalDigits = 18, fractionDigits = 2	-	-
invoiceVatAmount/queryOperator	QueryOperatorType	-	EQ GT GTE LT LTE	-
invoiceVatAmount/queryValue	MonetaryType	totalDigits = 18, fractionDigits = 2	-	-
invoiceVatAmountHUF/queryOperator	QueryOperatorType	-	EQ GT GTE LT LTE	-
invoiceVatAmountHUF/queryValue	MonetaryType	totalDigits = 18, fractionDigits = 2	-	-

transactionQueryParams level

Tag	SimpleType	Pattern	Enum	Default
transactionId	EntityIdType	[+a-zA-Z0-9_]{1,30}	-	-
index	InvoiceIndexType	minInclusive =1 maxInclusive = 100	-	-
invoiceOperation	ManageInvoiceOperationType	-	CREATE MODIFY STORNO	-

Definition and related requirements

1) The page tag is used to provide the page number for the queried page. The value of the page tag cannot be less than 1. The response to the query will include the number of pages in the query result. If the query is re-submitted with the same parameters but a higher page number, the system will always return the next page of the results. The client cannot modify either the page size or the result sorting parameters – these are always determined by the server.

2) One of the three mandatory search parameters must be selected for the mandatoryQueryParams type. Accordingly, the search can use:
   a. invoiceIssueDate for the issue date of the invoice or amending document
   b. insDate for the server-side processing time (UTC) of the invoice or amending document
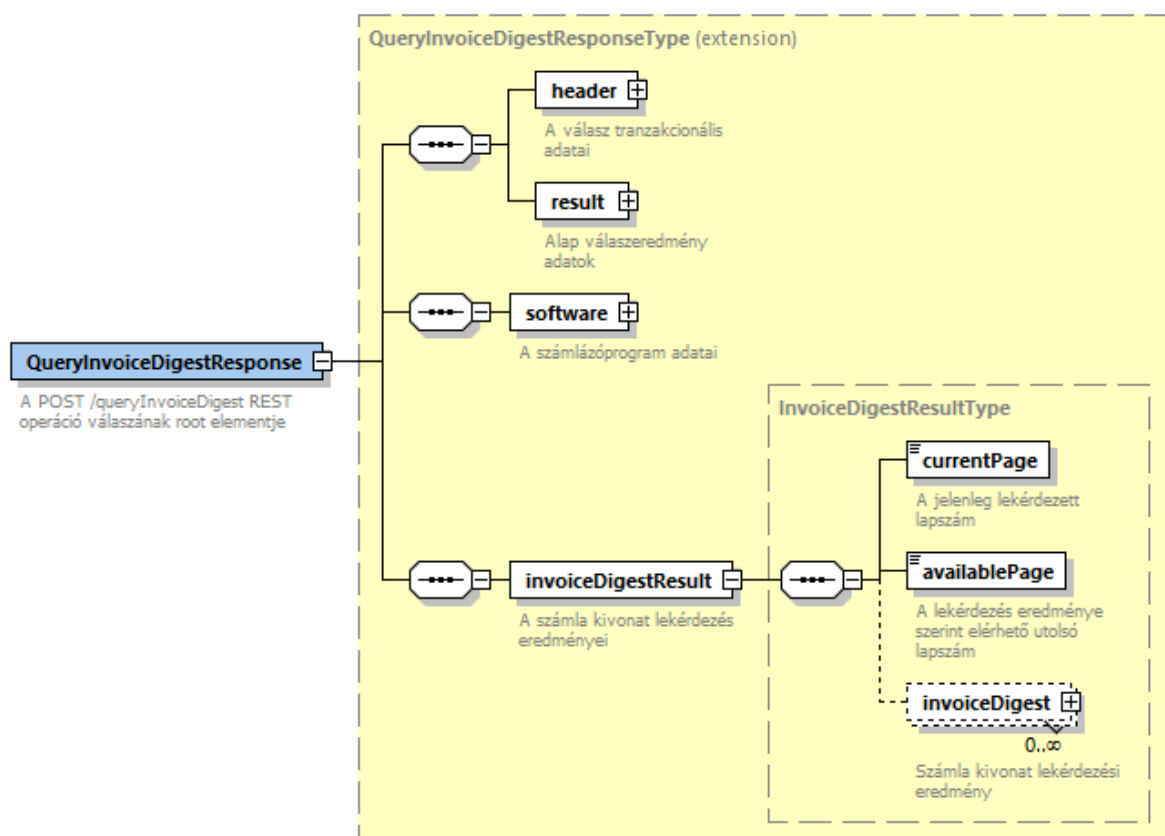   c. originalInvoiceNumber for invoice chains

3) If invoiceIssueDate and insDate are the search parameters used, the difference between the times given cannot exceed 35 days (or 840 hours). For searches failing this condition, the system will return a specific error code. For more information on the error code, see the section "**Error Management**".

4) If invoiceIssueDate and insDate are the search parameters used, and the two internal search parameters (from-to) are equal, the system will search for the 24-hour period within the day given for invoiceIssueDate, or the exact time for insDate. The two internal search parameters (from-to) cannot overlap. For searches failing this condition, the system will return a specific error code. For more information on the error code, see the section "**Error Management**".

5) If originalInvoiceNumber is the search parameter used, the system will use the invoice number provided to find the corresponding base invoice or any amending documents referencing the invoice number in the search condition. The result set can be a complete invoice chain, or a partial chain with a missing base invoice, and with all amending documents marked as missing a prior document.

6) The list of found invoices can be narrowed down by adding the individual search parameters to the additionalQueryParams type. This will narrow down the result set by matching the business data with the corresponding search parameters provided in the request. Within the type, taxNumber, groupMemberTaxNumber and the name tags are "double-value" search parameters. This means that depending on the value of the invoiceDirection field, supplier-side searches (invoiceDirection = OUTBOUND) will search within the customer-side data, and customer-side searches (invoiceDirection = INBOUND) will have the fields search the supplier-side data.

7) The name search parameter will perform left-side text matching if the search parameter provided is at least 5 characters long. The system will convert the search parameter to uppercase before searching, meaning that the client side will not have to distinguish between uppercase and lowercase.

8) The list of found invoices can be narrowed down by adding the individual search parameters to the relationalQueryParams type. Every search will attempt to locate the business data stored in the external type (e.g. invoiceDelivery, paymentDate, etc.)

9) Searches using the relationalQueryParams type can match single values (equalities) or ranges, as per the following:
   a. if the search applies to an equality, the external node may only be generated once, and the queryOperator must have the value EQ. The queried value will then become the value of the queryValue tag.
   b. if the search applies to a range, the external node should be generated twice, and the queryOperator tags may only have LT or LTE, or alternately GT or GTE value pairs. In this case, the queried range will be defined by the queryValue tag values corresponding to the LT or LTE, or alternately GT or GTE pairs.
   c. any queries that do not meet the above conditions will prompt the system to return a specific error code. For more information on the error code, see the section "**Error Management**".

10) The list of found invoices can be narrowed down using the transactionQueryParams type by including the individual search parameters. This will narrow down the result set by matching the transaction data with the corresponding search parameters provided in the query.

1.8.6.2 QueryInvoiceDigestResponse

The structure of the /queryInvoiceDigest operation response is contained within the QueryInvoiceDigestResponse element.

24 *Structure of the QueryInvoiceDigestResponse element*

invoiceNumber

batchIndex

invoiceOperation

invoiceCategory

invoiceIssueDate

supplierTaxNumber

supplierGroupMemberTaxNumber

supplierName

customerTaxNumber

customerGroupMemberTaxNumber

customerName

paymentMethod

paymentDate

invoiceAppearance

InvoiceDigestType

source

invoiceDeliveryDate

currency

invoiceNetAmount

invoiceNetAmountHUF

invoiceVatAmount

invoiceVatAmountHUF

transactionId

index

originalInvoiceNumber

modificationIndex

insDate

completenessIndicator

25 *Structure of the InvoiceDigestType element*

This type extends the BasicOnlineInvoiceResponseType, meaning that in addition to the elements it contains, it will also contain a digest of the invoice data if at least one match is found. As a main rule, the digest will contain every element that can be used as a search parameter.

Tag	Type	Mandatory	Content
currentPage	xs:int	yes	The value of the currently queried page
availablePage	xs:int	yes	The value of the highest available page
invoiceDigest/invoiceNumber	xs:string	yes	Serial number of the invoice or modification document
invoiceDigest/batchIndex	xs:int	no	For batch modifications, the index of the invoice within the batch
invoiceDigest/invoiceOperation	xs:string	yes	Invoice operation type
invoiceDigest/invoiceCategory	xs:string	yes	Invoice type
invoiceDigest/invoiceIssueDate	xs:date	yes	Issue date of the invoice or amending document
invoiceDigest/supplierTaxNumber	xs:string	yes	Tax number of the invoice supplier
invoiceDigest/supplierGroupMemberTaxNumber	xs:string	no	VAT group identifier of the invoice supplier
invoiceDigest/supplierName	xs:string	yes	Invoice supplier name
invoiceDigest/customerTaxNumber	xs:string	no	Customer's tax number
invoiceDigest/customerGroupMemberTaxNumber	xs:string	no	Customer's VAT group identifier
invoiceDigest/customerName	xs:string	no	Customer's name
invoiceDigest/paymentMethod	xs:string	no	Payment method
invoiceDigest/paymentDate	xs:date	no	Deadline for payment
invoiceDigest/invoiceAppearance	xs:string	no	Appearance of the invoice
invoiceDigest/source	xs:string	no	Data report source
invoiceDigest/invoiceDeliveryDate	xs:date	no	Invoice delivery date
invoiceDigest/currency	xs:string	no	Invoice currency
invoiceDigest/invoiceNetAmount	xs:decimal	no	Net total of the invoice in the currency of the invoice
invoiceDigest/invoiceNetAmountHUF	xs:decimal	no	Invoice net amount in HUF
invoiceDigest/invoiceVatAmount	xs:decimal	no	Total VAT for the invoice in the currency of the invoice
invoiceDigest/invoiceVatAmountHUF	xs:decimal	no	Total VAT for the invoice in HUF

invoiceDigest/transactionId	xs:string	no	The data report transaction ID
invoiceDigest/index	xs:int	no	Invoice serial number within the request
invoiceDigest/originalInvoiceNumber	xs:string	no	The serial number of the original invoice amended by the modification
invoiceDigest/modificationIndex	xs:int	no	The unique serial number of the amending document referencing the invoice
invoiceDigest/insDate	xs:timestamp	yes	Time of receipt in the system (UTC time)
invoiceDigest/completenessIndicator	xs:boolean	no	The data report is the electronic invoice itself

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
currentPage	ResponsePageType	minInclusive = 0	-	-
availablePage	ResponsePageType	minInclusive = 0	-	-
invoiceDigest/invoiceNumber	SimpleText50NotBlankType	.*[^\s].*	-	-
invoiceDigest/batchIndex	InvoiceUnboundedIndexType	minInclusive = 1	-	-
invoiceDigest/invoiceOperation	ManageInvoiceOperationType	-	CREATE MODIFY STORNO	-
invoiceDigest/invoiceCategory	InvoiceCategoryType	-	NORMAL SIMPLIFIED AGGREGATE	-
invoiceDigest/invoiceIssueDate	InvoiceDateType	minInclusive = 2010-01-01	-	-
invoiceDigest/supplierTaxNumber	TaxpayerIdType	[0-9]{8}	-	-
invoiceDigest/supplierGroupMemberTaxNumber	TaxpayerIdType	[0-9]{8}	-	-
invoiceDigest/supplierName	SimpleText512NotBlankType	.*[^\s].*	-	-
invoiceDigest/customerTaxNumber	TaxpayerIdType	[0-9]{8}	-	-
invoiceDigest/customerGroupMemberTaxNumber	TaxpayerIdType	[0-9]{8}	-	-
invoiceDigest/customerName	SimpleText512NotBlankType	.*[^\s].*	-	-

invoiceDigest/paymentMethod	PaymentMethodType	-	TRANSFER CASH CARD VOUCHER OTHER	-
invoiceDigest/paymentDate	InvoiceDateType	minInclusive = 2010-01-01	-	-
invoiceDigest/invoiceAppearance	InvoiceAppearanceType	-	PAPER ELECTRONIC EDI UNKNOWN	-
invoiceDigest/source	SourceType	-	WEB XML MGM OPG	-
invoiceDigest/invoiceDeliveryDate	InvoiceDateType	minInclusive = 2010-01-01	-	-
invoiceDigest/currency	CurrencyType	[A-Z]{3}	-	-
invoiceDigest/invoiceNetAmount	MonetaryType	totalDigits = 18, fractionDigits = 2	-	-
invoiceDigest/invoiceNetAmountHUF	MonetaryType	totalDigits = 18, fractionDigits = 2	-	-
invoiceDigest/invoiceVatAmount	MonetaryType	totalDigits = 18, fractionDigits = 2	-	-
invoiceDigest/invoiceVatAmountHUF	MonetaryType	totalDigits = 18, fractionDigits = 2	-	-
invoiceDigest/transactionId	EntityIdType	[+a-zA-Z0-9_]{1,30}	-	-
invoiceDigest/index	InvoiceIndexType	minInclusive = 1 maxInclusive = 100	-	-
invoiceDigest/originalInvoiceNumber	SimpleText50NotBlankType	.*[^\s].*	-	-
invoiceDigest/modificationIndex	InvoiceUnboundedIndexType	minInclusive = 1	-	-
invoiceDigest/insDate	InvoiceTimestampType	\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(.\d{1,3})?Z minInclusive = 2010-01-01T00:00:00Z	-	-
invoiceDigest/completenessIndicator	-	-	-	false

Definition and related requirements

1) The currentPage tag always returns the value of the page parameter specified in the request. The availablePage tag also contains the page numbers of all other queryable pages. If the

search returns no results, the value of availablePage will be 0, and the invoiceDigest tag will be empty. No more than 100 items can be included on a single page.

2) Uniquely among query operations, this operation will also list invoices with more than one valid instances. The transactionId can be used to distinguish between the individual items, as duplicated data reports can only be submitted in separate transactions. This is always a sign of a client-side error, meaning that any invoices retrieved in this way should be technically annulled, and once the annulment has been approved, the data report should be re-submitted with the correct data.

1.8.7 /queryTransactionList operation

The /queryTransactionList is used to list the invoice data services sent for the technical user's tax number within the time interval specified in the request.

1.8.7.1 QueryTransactionListRequest

The structure of the /queryTransactionList operation request is contained within the QueryTransactionListRequest element.
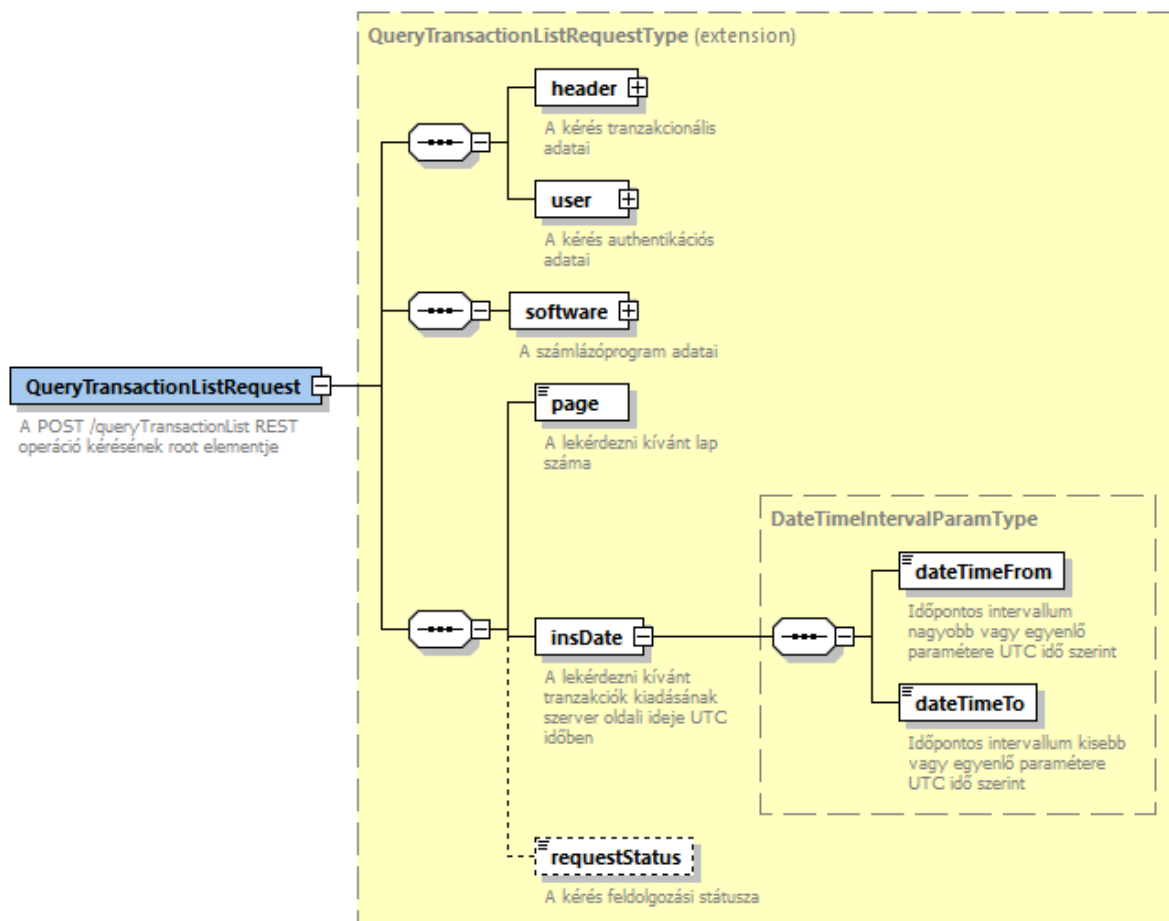
26 Structure of the QueryTransactionListRequest element

This type extends BasicOnlineInvoiceRequestType, meaning that in addition to the elements it contains, it will also incorporate the starting and end date of the queried interval.

Tag	Type	Mandatory	Content
dateTimeFrom	xs:dateTime	yes	Greater-than or equal parameter for the time interval, according to UTC time
dateTimeTo	xs:dateTime	yes	Smaller-than or equal parameter for the time interval, according to UTC time
requestStatus	xs:string	no	The status of the transaction

Facets and definitions

| Tag	SimpleType	Pattern	Enum	Default
dateTimeFrom	InvoiceTimestampType	\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(.\d{1,3})?Z	-	-

		minInclusive = 2010-01-01T00:00:00Z		
dateTimeTo	InvoiceTimestampType	\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(.\d{1,3})?Z minInclusive = 2010-01-01T00:00:00Z	-	-
requestStatus	RequestStatusType	-	RECEIVED, PROCESSING, SAVED, FINISHED, NOTIFIED	-

Definition and related requirements

1) If dateTimeFrom and dateTimeTo are the search parameters used, the difference between the times given cannot exceed 35 days (or 840 hours). For searches failing this condition, the system will return a specific error code. For more information on the error code, see the section "**Error Management"**.

2) In the query it is possible to filter by transaction status, in the requestStatus tag which may have the following values:
   a. RECEIVED
   b. PROCESSING
   c. SAVED
   d. FINISHED
   e. NOTIFIED

1.8.7.2   QueryTransactionListResponse

The structure of the /queryTransactionList operation response is contained within the QueryTransactionListResponse element.
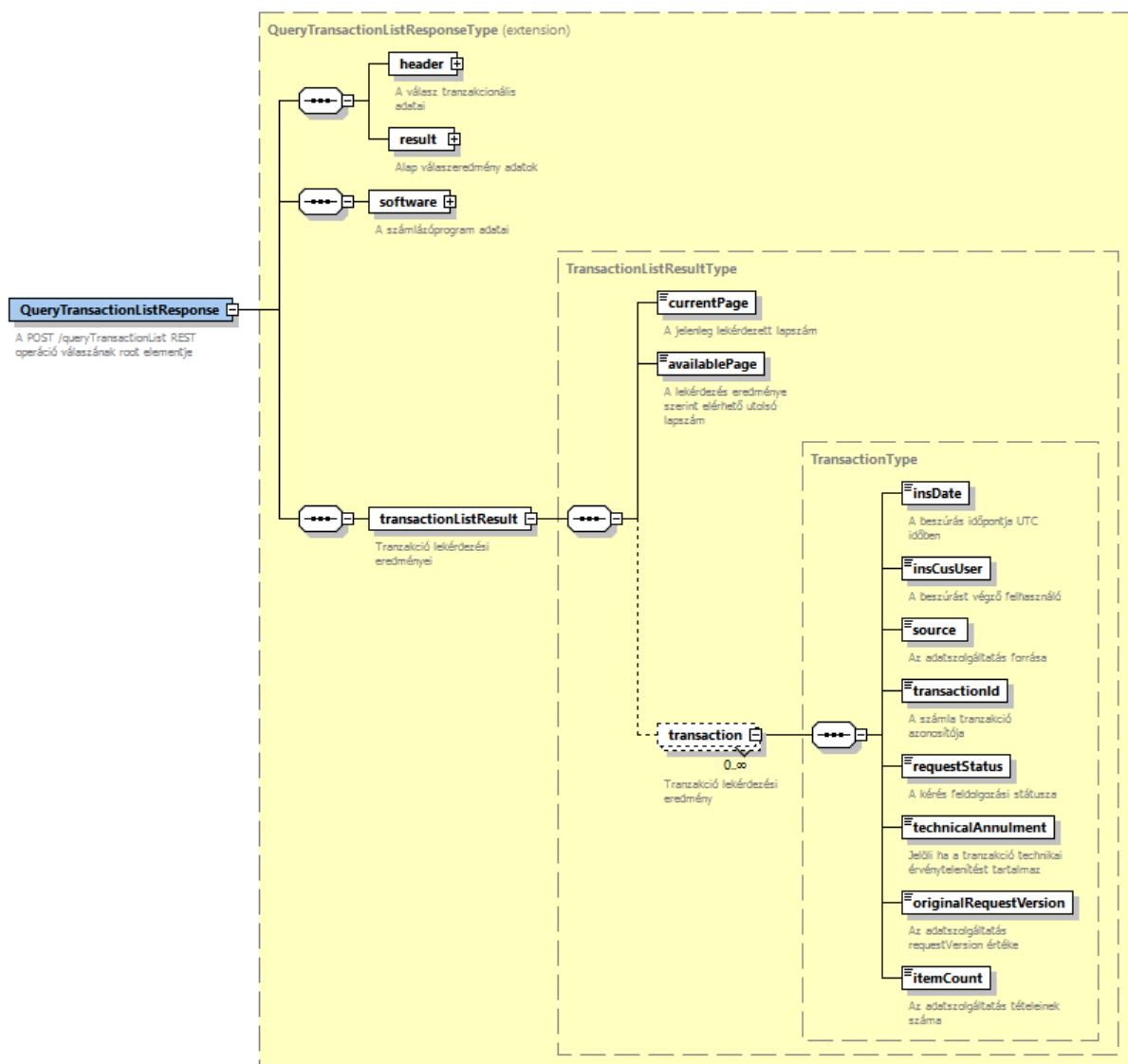
27 Structure of the QueryTransactionListResponse element

This type extends BasicOnlineInvoiceResponseType, meaning that in addition to the elements it contains, it will also incorporate the generated invoice data reports within the interval specified in the request.

Tag	Type	Mandatory	Content
currentPage	xs:int	yes	The value of the currently queried page
availablePage	xs:int	yes	The value of the highest available page
transaction/insDate	xs:dateTime	yes	Save time of invoice data reporting

transaction/insCusUser	xs:string	yes	Name of the technical user submitting the invoice data report
transaction/source	xs:string	yes	Invoice data report source
transaction/transactionId	xs:string	yes	Transaction ID of invoice data reporting
transaction/requestStatus	xs:string	yes	The status of the transaction
transaction/technicalAnnulment	xs:boolean	yes	It indicates that the transaction contains technical annulment
transaction/originalRequestVersion	xs:string	yes	requestVersion value of the invoice data report
transaction/itemCount	xs:int	yes	Number of items of invoice data reporting

Facets and definitions

Tag	SimpleType	Pattern	Enum	Defau lt
currentPage	ResponsePageType	minInclusive = 0	-	-
availablePage	ResponsePageType	minInclusive = 0		
transaction/insDate	InvoiceTimestampType	\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(.\d{1,3})?Z minInclusive = 2010-01-01T00:00:00Z	-	-
transaction/insCusUser	LoginType	[a-zA-Z0-9]{6.15}	-	-
transaction/source	SourceType	-	WEB XML M2M OPG	-
transaction/transactionId	EntityIdType	[+a-zA-Z0-9_]{1,30}	-	-
transaction/requestStatus	RequestStatusType	-	RECEIVED, PROCESSI NG, SAVED, FINISHED, NOTIFIED	-
transaction/technicalAnnulm ent	-	-	-	false
transaction/originalRequestV ersion	OriginalRequestVersio nType	-	1.0 1.1 2.0 3.0	-
transaction/itemCount	InvoiceIndexType	minInclusive =1 maxInclusive = 100	-	-

Definition and related requirements

1) The list returns all data report transactions submitted by the taxpayer, regardless of source.
2) The values of the requestStatus in the response:

- RECEIVED
- PROCESSING
- SAVED
- FINISHED
- NOTIFIED

1.8.8 /queryTransactionStatus operation

/queryTransactionStatus is an operation required for the querying the status and results of the invoice data reporting process.

1.8.8.1 QueryTransactionStatusRequest

The structure of the /queryTransactionStatus operation request is contained within the QueryTransactionStatusRequest element.
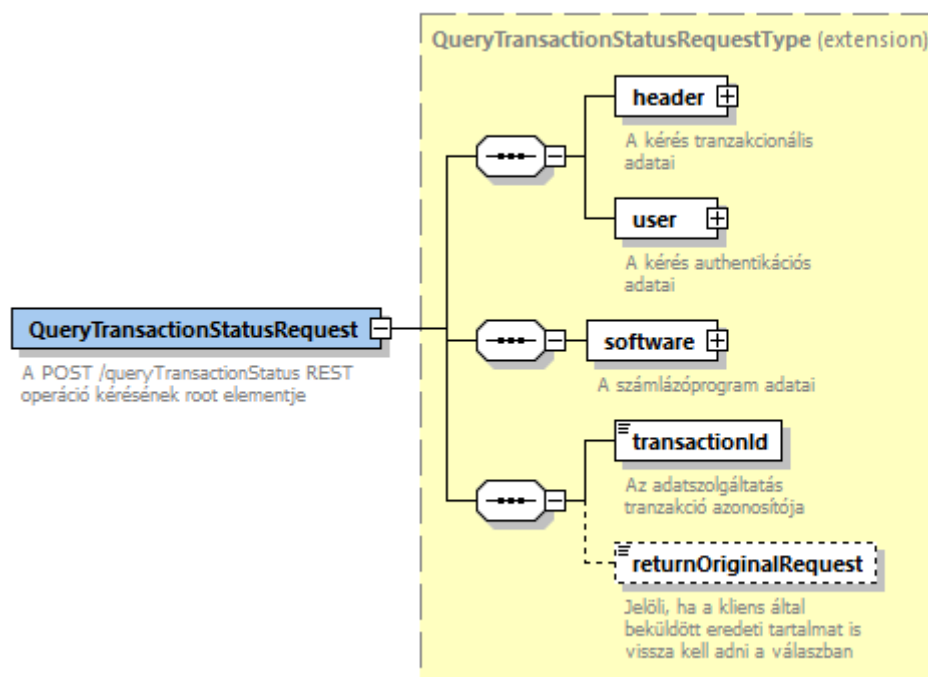
28 *Structure of the QueryTransactionStatusRequest element*

This type extends BasicOnlineInvoiceRequestType, meaning that in addition to the elements it contains, it will also incorporate the ID of the transaction queried.

| Tag	Type	Mandatory	Content
transactionId	xs:string	yes	The ID of the transaction queried
returnOriginalRequest	xs:boolean	no	The marker of the query for the original content

Facets and definitions

| Tag	SimpleType	Pattern	Enum	Default
transactionId	EntityIdType	[+a-zA-Z0-9_]{1,30}	-	-
returnOriginalRequest	-	-	-	false

Definition and related requirements

1) The transactionId is a unique identifier of the requested transaction, and is assigned by the server. A transactionId can refer to a technical annulment or an invoice data report as well.
2) The operation can retrieve the reported data of the original invoice submitted by the client, should such retrieval be requested – even for requests with "processed" status. This fact must be indicated in the returnOriginalRequest tag.

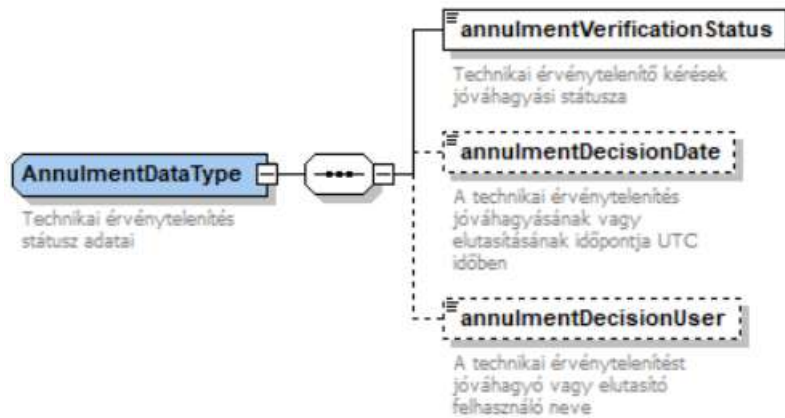#### 1.8.8.2   QueryTransactionStatusResponse
The structure of the /queryTransactionStatus operation response is contained within the QueryTransactionStatusResponse element.
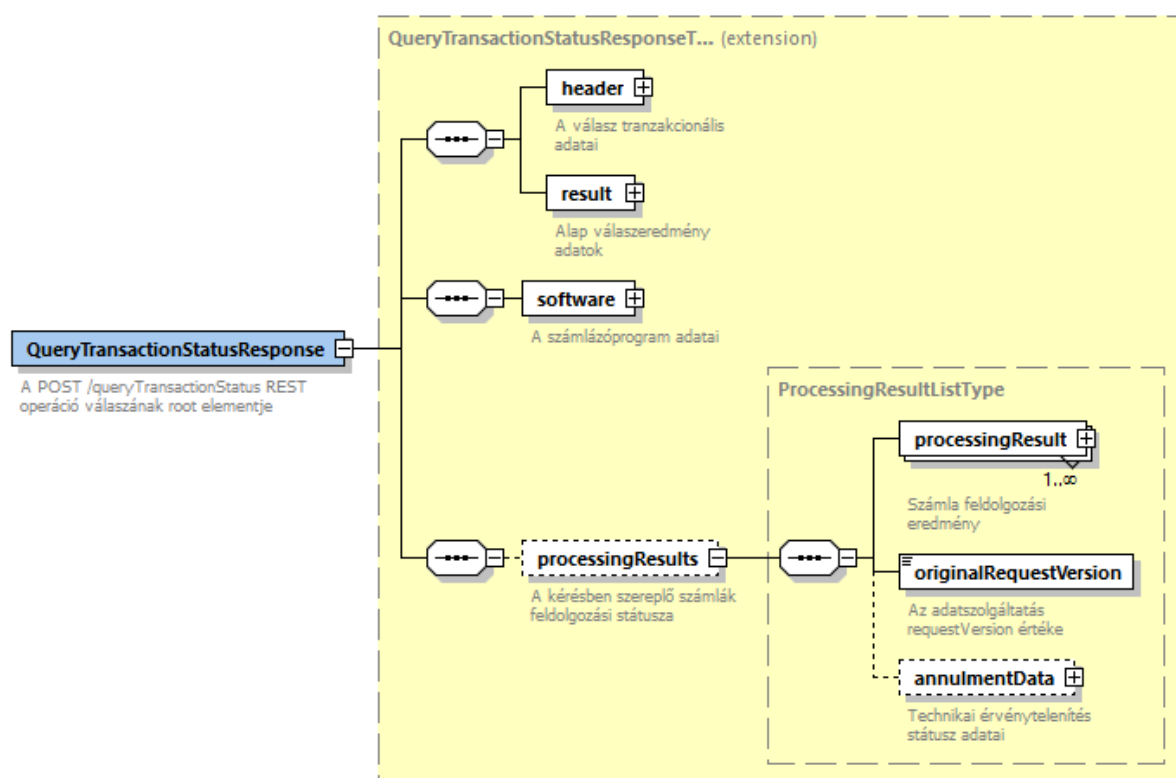
29 Structure of the QueryTransactioneStatusResponse element
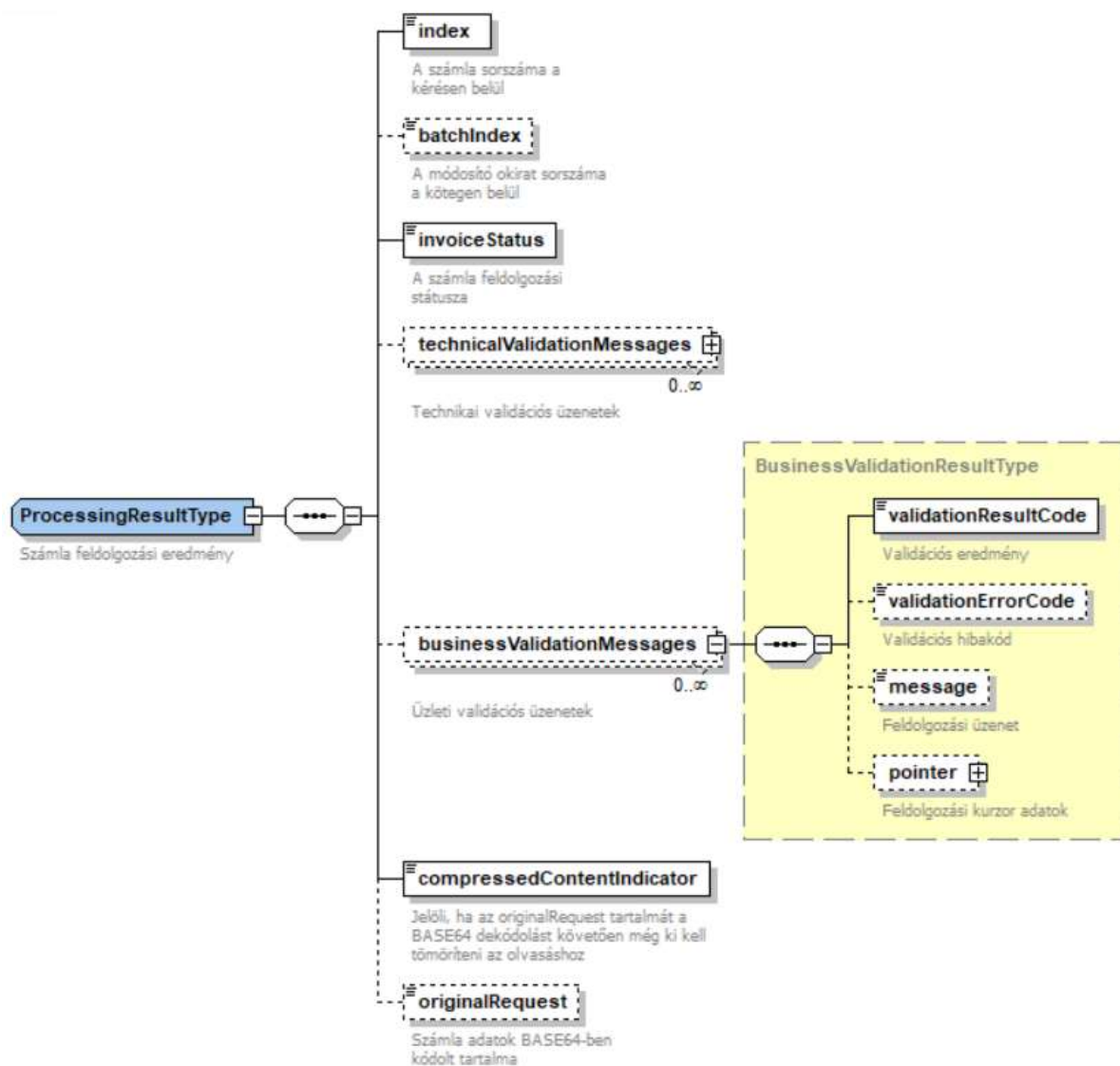
30 *Structure of the ProcessingResultType element*

31 *Structure of the AnnulmentDataType element*

This type extends the BasicOnlineInvoiceResponseType, meaning that in addition to the elements it contains, it will also incorporate the itemised processing results of the invoices attached to the transaction ID indicated in the request, and may optionally also contain the approval data for the technical annulment.

Tag	Type	Mandatory	Content
index	xs:int	yes	Transaction index content of invoice data reporting
batchIndex	xs:int	no	For batch modifications, the index of the invoice within the batch
invoiceStatus	xs:string	yes	Invoice processing status
technicalValidationMessages/validationResultCode	xs:string	yes	Result of the technical validation
technicalValidationMessages/validationErrorCode	xs:string	no	Validation error code
technicalValidationMessages/message	xs:string	no	Processing message
businessValidationMessages/validationResultCode	xs:string	yes	Business validation result
businessValidationMessages/validationErrorCode	xs:string	no	Validation error code
businessValidationMessages/message	xs:string	no	Processing message
businessValidationMessages/pointer/tag	xs:string	no	Tag reference
businessValidationMessages/pointer/value	xs:string	no	Value reference

businessValidationMessages/pointer/line	xs:nonNegativeInteger	no	Line reference
businessValidationMessages/pointer/originalInvoiceNumber	xs:string	no	For batch invoice operations, the serial number of the original invoice amended by the modification
compressedContent	xs:boolean	yes	It marks whether the originalRequest content requires decompressing after BASE 64 decoding, to render the content readable
originalRequest	xs:base64Binary	no	Data of the original invoice
originalRequestVersion	xs:string	yes	Data report requestVersion value
annulmentData/annulmentVerificationStatus	xs:string	yes	Approval status of the technical annulment requests
annulmentData/annulmentDecisionDate	xs:dateTime	no	UTC time of the approval or rejection of the technical annulment
annulmentData/annulmentDecisionUser	xs:string	no	Name of the user approving or denying the technical annulment

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
index	InvoiceIndexType	minInclusive =1 maxInclusive = 100	-	-
batchIndex	InvoiceUnboundedIndexType	-	-	-

invoiceStatus	InvoiceStatusType	-	RECEIVED PROCESSING SAVED DONE ABORTED	-
technicalValidationMessages/validationResultCode	TechnicalResultCodeType	-	CRITICAL ERROR	-
technicalValidationMessages/validationErrorCode	SimpleText100NotBlankType	.*[^\s].*	-	-
technicalValidationMessages/message	SimpleText1024NotBlankType	.*[^\s].*	-	-
businessValidationMessages/validationResultCode	BusinessResultCodeType	-	ERROR WARN INFO	-
businessValidationMessages/validationErrorCode	SimpleText100NotBlankType	-	-	-
businessValidationMessages/message	SimpleText1024NotBlankType	.*[^\s].*	-	-
businessValidationMessages/pointer/tag	SimpleText1024NotBlankType	.*[^\s].*	-	-
businessValidationMessages/pointer/value	SimpleText1024NotBlankType	.*[^\s].*	-	-
businessValidationMessages/pointer/line	LineNumberType	minInclusive =1	-	-
businessValidationMessages/pointer/originalInvoiceNumber	SimpleText50NotBlankType	.*[^\s].*	-	-
compressedContentIndicator	-	-	-	false
originalRequest	InvoiceType	-	-	-
originalRequestVersion	OriginalRequestVersionType		1.0 1.1 2.0 3.0	-
annulmentData/annulmentVerificationStatus	AnnulmentVerificationStatusType	-	NOT_VERIFIABLE VERIFICATION_PENDING VERIFICATION_DONE VERIFICATION_REJECTED	-
annulmentData/annulmentDecisionDate	InvoiceTimestampType	\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(.\d{1,3})?Z minInclusive = 2010-01-01T00:00:00Z	-	-
annulmentData/annulmentDecisionUser	LoginType	[a-zA-Z0-9]{6.15}	-	-

Definition and related requirements

1) If taxpayer has not executed a transaction meeting the query parameters, the system will only send an <funcCode>OK</funcCode> message.
2) For batch reports, the processing result of the data report regarding the specified invoice can be matched to the data contained by the response, by the index position indicated in the query.
3) invoiceStatus indicates the processing status of the data reports for each invoice.

   RECEIVED = the data report regarding the invoice indicated by the specified index has been received

   PROCESSING = the procession of the data report regarding the invoice indicated by the specified index has begun

   SAVED = no blocking error occurred during the processing of the data report regarding the invoice, the invoice was saved but the processing has not yet been completed

   DONE = the procession of the data report regarding the invoice indicated by the specified index has been completed

   ABORTED = the procession of the data report regarding the invoice indicated by the specified index has failed

Only invoice data reports with an invoiceStatus value of DONE are considered completed. Of the completed invoice data reports, only those with a response not containing a businessValidationMessages list element can be considered correct from a business logic point of view.

4) As the analysis of the schematic validity for each invoice data report is asynchronous, the operation will create an itemised list of schema violations and other technical errors found within these data, the same way synchronous processing operations do. The value and value set of the node are identical to the value set contained by the referenced GeneralErrorResponseType type.
5) If the original data report has been queried, the system will return it encoded in BASE64 format. If the content was received by the system in a compressed format, the response will likewise be compressed. The compressedContentIndicator tag is used to indicate such cases.
6) The message tag returns the technical error message (for technical validations) or the business definition of the blocking error (ERROR) or warning (WARN) (for business validations). The validation result localisation observes the contact language of the technical user making the query.
7) The pointer tag contains the relevant tag, value and optionally, the item number which is the subject of the warning (WARN).
8) AnnulmentVerificationStatus indicates the approval status of the data reports for each technical annulment.

NOT_VERIFIABLE = any index received an ERROR value during the asynchronous processing of the annulment request (in this case, the full technical invalidation will be rejected for the other indexes as well, submission has to be repeated after the necessary corrections).

VERIFICATION_PENDING = the asynchronous procession of the annulment request returned DONE result on all indexes, from this point on the technical invalidation can be approved/rejected on the screen.

VERIFICATION_DONE = once the request has been successfully approved on the screen (this status indicates that the technically invalid invoice numbers can be resubmitted for the given taxpayer).

VERIFICATION_REJECTED = if the primary user did not approve, but rejected the technical annulment (in which case nothing happened, everything was restored to its original state, the containing invoice numbers are still valid in the system).

For more information on the businessValidationMessages value set, please see the section "**Validation error messages**".

1.8.9 /queryTaxpayer operation

Integrated in the invoice generation process and required for the verification of domestic tax numbers, the /queryTaxpayer operation can report data on the authenticity and validity of tax numbers based on the NAV database

1.8.9.1 QueryTaxpayerRequest

The structure of the /queryTaxpayer operation request is contained within the QueryTaxpayerRequest element.
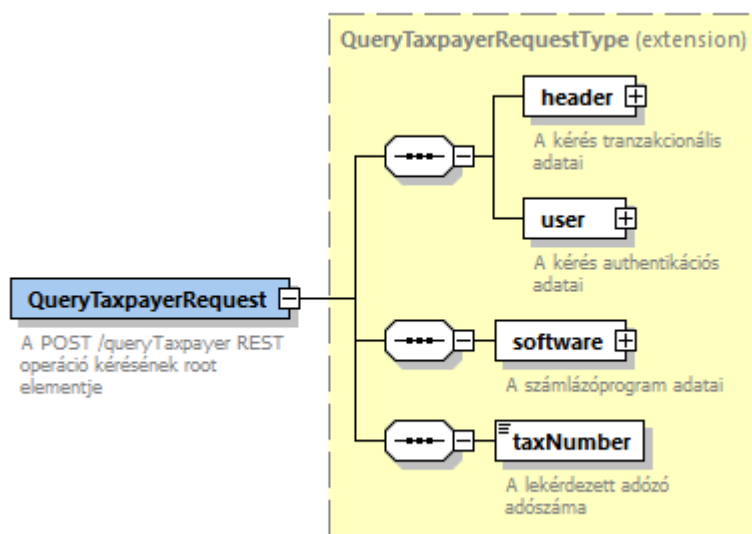
32 Structure of the QueryTaxpayerRequest element

This type extends BasicOnlineInvoiceRequestType, meaning that in addition to the elements it contains, it will also incorporate the queried Hungarian tax number.

Tag	Type	Mandatory	Content
taxNumber	xs:string	yes	The first 8 digits of the Hungarian tax number queried

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
taxNumber	TaxpayerIdType	[0-9]{8}	-	-

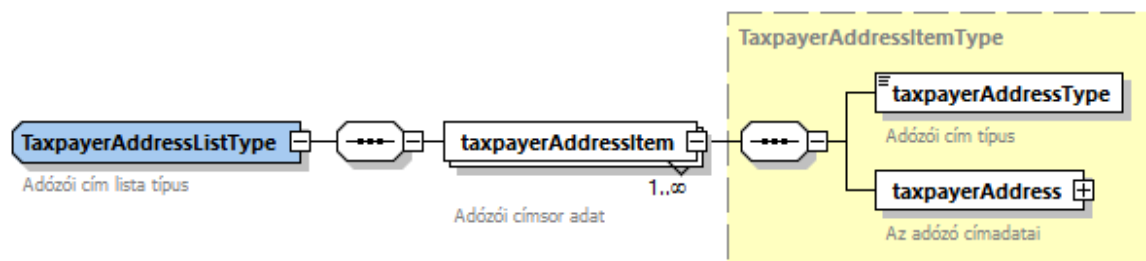**Definition and related requirements**

1) The service only supports queries for Hungarian tax numbers – this is a technical restriction set in the pattern.
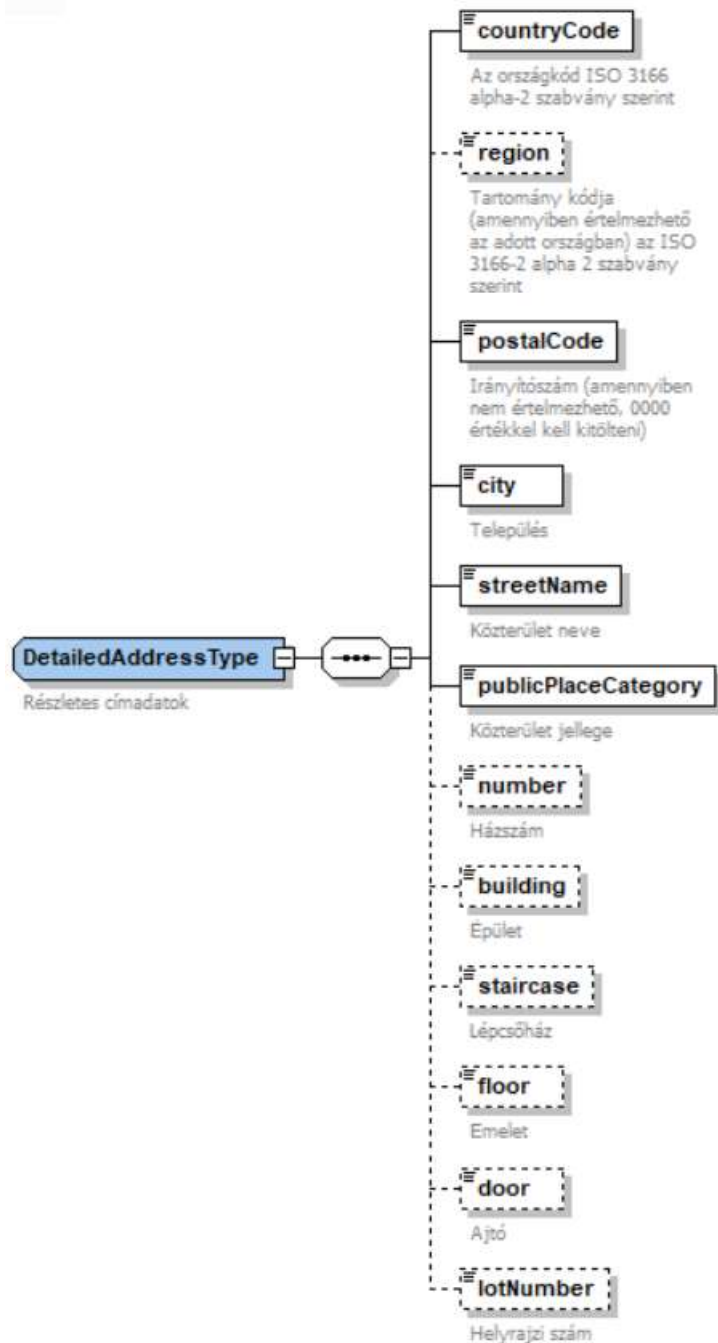
1.8.9.2   QueryTaxpayerResponse
The structure of the /queryTaxpayer operation response is contained within the QueryTaxpayerResponse element.
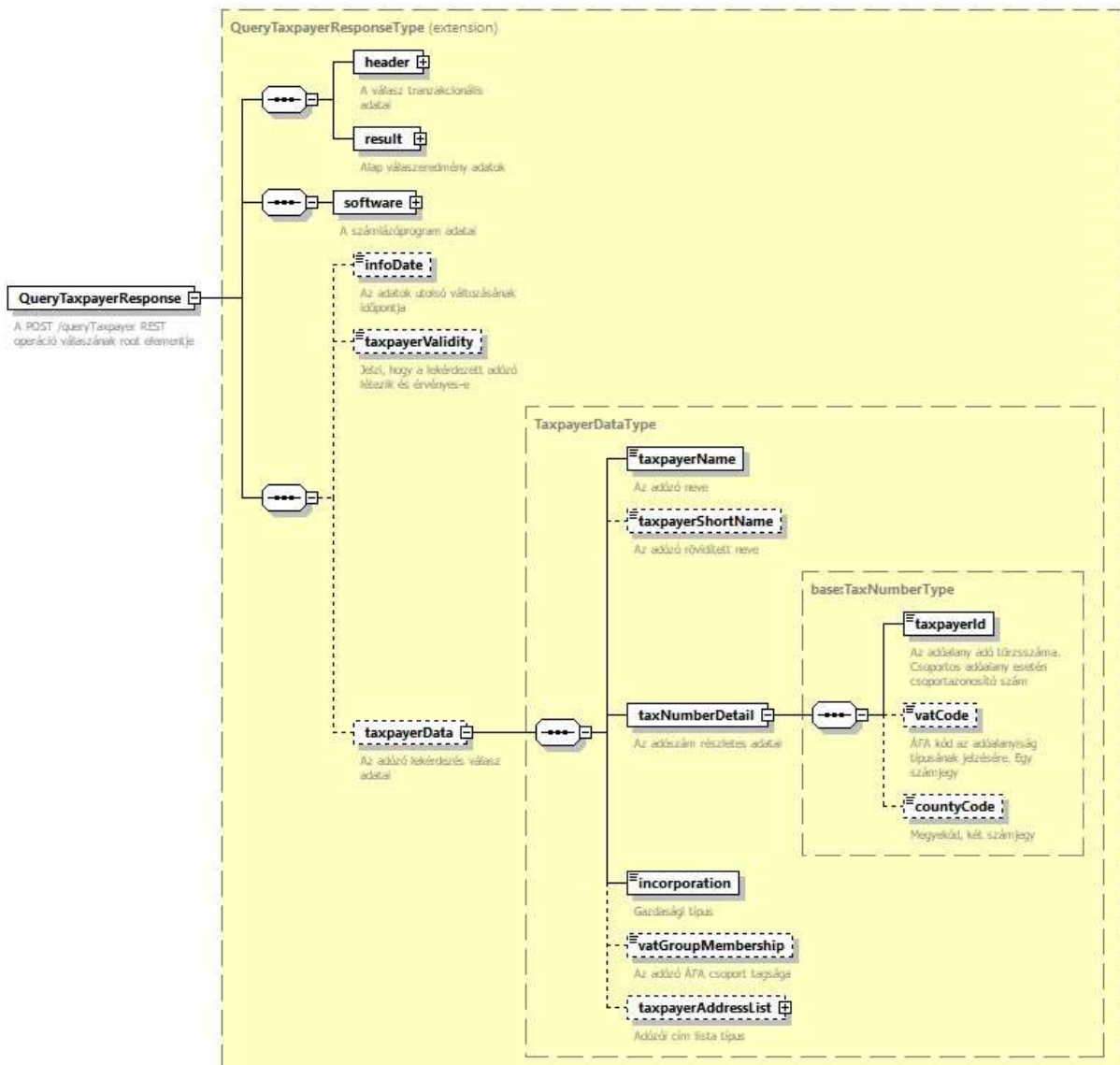
33 *Structure of the QueryTaxpayerResponse element*

34 *Structure of the TaxpayerAddressListType element*

35 *Structure of the DetailedAddressType element*

This type extends the BasicOnlineInvoiceResponseType; in addition to the elements it contains, it also optionally incorporates the status of the Hungarian tax number queried, and in case the query yields a hit, the name, VAT group and address data of the taxpayer.

Tag	Type	Mandatory	Content
infoDate	xs:dateTime	no	Last modification

			date of the queried tax number
taxpayerValidity	xs:boolean	no	The validity status of the tax number queried (provided the specified tax number exists)
taxpayerData/taxpayerName	xs:string	yes	Name of taxpayer queried
taxpayerData/taxpayerShortName	xs:string	no	Taxpayer's short name
taxNumberDetail/taxpayerId	xs:string	yes	The taxpayer's tax registration number
taxNumberDetail/vatCode	xs:string	no	VAT code for indicating the taxation status
taxNumberDetail/countyCode	xs:string	no	County code
taxpayerData/incorporation	xs:string	yes	Business type
taxpayerData/vatGroupMembership	xs:string	no	VAT group membership of taxpayer
taxpayerAddressItem/taxpayerAddressType	xs:string	yes	Taxpayer address type
taxpayerAddressItem/taxpayerAddress/countryCode	xs:string	yes	Country code as per the ISO 3166 alpha-2 standard
taxpayerAddressItem/taxpayerAddress/region	xs:string	no	Region code as per the ISO 3166 alpha-2 standard
taxpayerAddressItem/taxpayerAddress/postalCode	xs:string	yes	Postal code
taxpayerAddressItem/taxpayerAddress/city	xs:string	yes	Settlement
taxpayerAddressItem/taxpayerAddress/streetName	xs:string	yes	Name of public space
taxpayerAddressItem/taxpayerAddress/publicPlaceCategory	xs:string	yes	Type of public space
taxpayerAddressItem/taxpayerAddress/number	xs:string	no	Street number
taxpayerAddressItem/taxpayerAddress/building	xs:string	no	Building
taxpayerAddressItem/taxpayerAddress/staircase	xs:string	no	Staircase
taxpayerAddressItem/taxpayerAddress/floor	xs:string	no	Floor
taxpayerAddressItem/taxpayerAddress/door	xs:string	no	Door
taxpayerAddressItem/taxpayerAddress/lotNumber	xs:string	no	Topographical lot number

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
infoDate	-	-	-	-
taxpayerValidity	-	-	-	-
taxpayerData/taxpayerName	SimpleText512NotBlankType	.*[^\s].*	-	-
taxpayerData/taxpayerShortName	SimpleText200NotBlankType	.*[^\s].*	-	-
taxNumberDetail/taxpayerId	TaxpayerIdType	[0-9]{8}	-	-
taxNumberDetail/vatCode	VatCodeType	[1-5]{1}	-	-
taxNumberDetail/countyCode	CountyCodeType	[0-9]{2}	-	-
taxpayerData/incorporation	IncorporationType	-	ORGANIZATION, SELF_EMPLOYED, TAXABLE_PERSON	
taxpayerData/vatGroupMembership	TaxpayerIdType	[0-9]{8}	-	-
taxpayerAddressItem/taxpayerAddressType	TaxpayerAddressTypeType	-	HQ, SITE, BRANCH	-
taxpayerAddressItem/taxpayerAddress/countryCode	CountryCodeType	[A-Z]{2}	-	-
taxpayerAddressItem/taxpayerAddress/region	SimpleText50NotBlankType	.*[^\s].*	-	-
taxpayerAddressItem/taxpayerAddress/postalCode	PostalCodeType	[A-Z0-9]{4.10}	-	-
taxpayerAddressItem/taxpayerAddress/city	SimpleText255NotBlankType	.*[^\s].*	-	-
taxpayerAddressItem/taxpayerAddress/streetName	SimpleText255NotBlankType	.*[^\s].*	-	-
taxpayerAddressItem/taxpayerAddress/publicPlaceCategory	SimpleText50NotBlankType	.*[^\s].*	-	-
taxpayerAddressItem/taxpayerAddress/number	SimpleText50NotBlankType	.*[^\s].*	-	-
taxpayerAddressItem/taxpayerAddress/building	SimpleText50NotBlankType	.*[^\s].*	-	-
taxpayerAddressItem/taxpayerAddress/staircase	SimpleText50NotBlankType	.*[^\s].*	-	-
taxpayerAddressItem/taxpayerAddress/floor	SimpleText50NotBlankType	.*[^\s].*	-	-
taxpayerAddressItem/taxpayerAddress/door	SimpleText50NotBlankType	.*[^\s].*	-	-

| taxpayerAddressItem/taxpayerAddress/lotNumber	SimpleText50NotBlankType	.*[^\s].*	-	-

Definition and related requirements

1) The value of the taxpayerValidity tag is "true" only if the queried tax number exists. If the queried tax number is invalid or does not exist, the returned value will be "false".
2) The response will only generate the taxpayerData node if the queried tax number exists. The taxpayer's full name is always provided.
3) The system currently does not yet return the taxpayerShortName tag containing the taxpayer's short name. This tag may be uploaded later, as a result of further development.
4) The vatGroupMembership tag contains the VAT group membership of the queried taxpayer, if the taxpayer in question is a member of a VAT group.
5) The client-side can decide at their own discretion to what extent they will incorporate the retrieved information into their invoicing process.
6) InfoDate shows the last change in taxpayer information.
7) The taxNumberDetail node contains the complete tax number of the queried taxpayer, in the format described in the invoiceData schema definition.
8) Taxpayer address information is listed because one taxpayer may have more than one piece of address data. Address type correlation: HQ=registered seat, SITE=establisment, BRANCH=branch office
9) The incorporation tag indicates the business type of the queried taxpayer. Its possible values are:
   - ORGANIZATION: business organization,
   - SELF_EMPLOYED: self-employed
   - TAXABLE_PERSON: natural person holding a VAT ID.

1.8.10 /tokenExchange operation

/tokenExchange is an operation issuing single-use data reporting tokens preceding the invoice data reporting process.

1.8.10.1 TokenExchangeRequest

The structure of the /tokenExchange operation request is contained within the TokenExchangeRequest element.
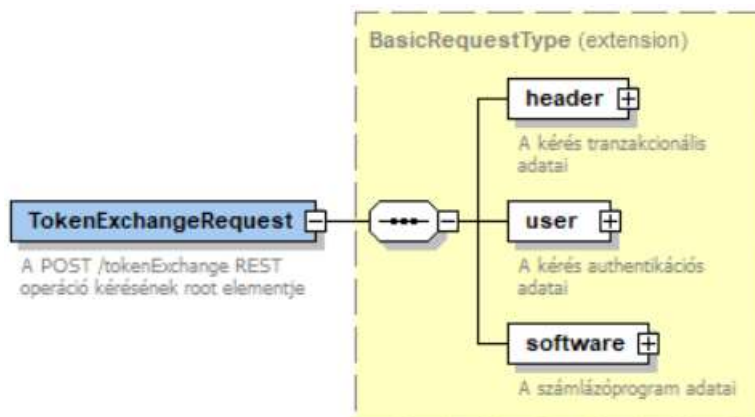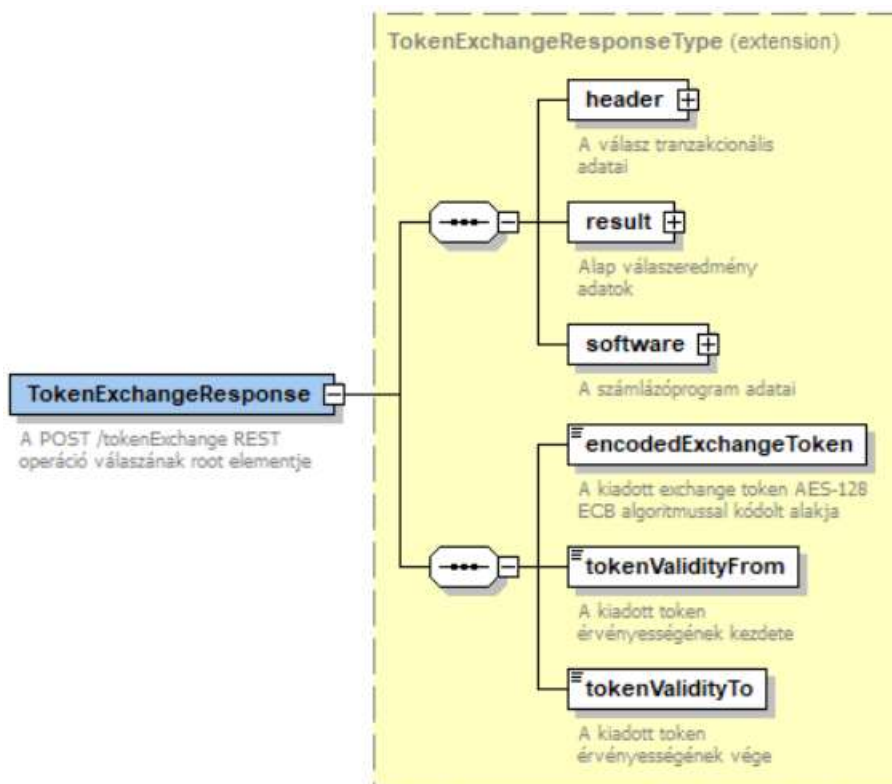
36 *Structure of the TokenExchangeRequest element*

This type extends BasicOnlineInvoiceRequestType, but the operation does not require any additional parameters. The client can indicate its request for a data reporting token simply by addressing the endpoint, and completing authentication.

1.8.10.2 TokenExchangeResponse

The structure of the /tokenExchange operation response is contained within the TokenExchangeResponse element.

37 *Structure of the TokenExchangeResponse element*

This type extends BasicOnlineInvoiceResponseType, meaning that in addition to the elements it contains, it will also incorporate the data reporting token encoded with the AES-128 encryption algorithm, as well as the validity period for said token.

Tag	Type	Mandatory	Content
encodedExchangeToken	xs:base64Binary	yes	Encoded data reporting token
tokenValidityFrom	xs:dateTime	yes	Starting date and time of the data reporting token validity period
tokenValidityTo	xs:dateTime	yes	End date and time of the data reporting token validity period

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
encodedExchangeToken	-	-	-	-
tokenValidityFrom	InvoiceTimestampType	\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(.\d{1,3})?Z minInclusive = 2010-01-01T00:00:00Z	-	-
tokenValidityTo	InvoiceTimestampType	\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(.\d{1,3})?Z minInclusive = 2010-01-01T00:00:00Z	-	-

Definition and related requirements

1) AES-128 is an asynchronous key encryption method. The ID of the issued data reporting token will be encoded with the replacement key of the technical user having requested the operation, and will be decoded with the same key. The /manageInvoice operation can only be used with the decoded token value, the token in itself does not authorise any operation while encoded.
2) The starting and end dates of the issued data reporting token is defined in UTC time, so clients in any time zone can clearly identify the correct validity period. Noting this validity period is especially crucial for batch reporting.

1.9   Logical reference implementation

This section contains the recommendations that include a possible and legal solution for the legally and/or technically complex issue of data reporting.

1.9.1   Managing immediacy, data report batching

The invoice is deemed issued with the date and time the invoicing programme finalises the data of the created invoice. It means the data report has to be submitted at the time from which no data may be overwritten on the relevant invoice number and data content can only be modified with a modifying or cancelling invoice issued under a new invoice number.

Of course, immediacy must be interpreted subject to the principle of reasonability. For example if a taxpayer's own business processes are set up in way that the data of hundreds of invoices are approved and closed at the same time, and such data are transferred upon invoice closing, transfer will be considered immediate even if transfer takes several hours.

Another similarly acceptable method is when, upon the closing of the first invoice subject to data reporting the invoicing system immediately requests a token, without human intervention (/tokenExchange call), from the Online Invoice System, but otherwise delays the submission of the data report (/manageInvoice call) until the end of the expiry of the token or until the maximum number of invoices defined by to the schema is reached so that all other invoices to be closed during the validity period, but otherwise subject to data reporting, can be reported as a batch. This method is only legal if there is no human intervention into the process, but is scheduled by software logic which at most tries to submit the data report during the validity period of the first token request. If the submission proves to be unsuccessful, the data report has to be repeated immediately.

1.9.2 Lost transaction ID management, prevention of double data reports

The timeout value on the boundary protection tool of the Online Invoice System is 60 seconds. This means that if the system cannot respond to a submitted data report within 60 seconds due to slowdown or overload, no transaction ID will be returned to the clients with respect to such report. And this will render any query regarding the processing results impossible. However, the submitted data are still live on the server side (at the end of the 60th second from the time of submission), and they are queued there for processing or saving. The system allows 5 minutes for saving the data in the database, so the outcome (commit or rollback) is not yet decided definitively.

If the invoicing programme has received no response to the data report due to timeout, the data report does not need to be repeated immediately. The following method is accepted: in case of a missing transaction ID the invoicing programme waits for 5 minutes from submission (/manageInvoice or /manageAnnulment call), and when the 5 minutes passes it lists the transactions of the previous period (/queryTransactionList call). The search interval of the listing should be set to a minimum (considering that the cause itself typically occurs during a slowdown – this may speed up the listing), but it should be more than sysdate-5 minutes – for example the past 10 minutes. If the list contains one or more transaction IDs that are unknown to the client, a process result query (/queryTransactionStatus, but making sure that the value of the returnOriginalRequest tag is true) can be performed to call back the invoice data submitted, through which it can be the invoices and the transaction ID can be matched in the invoicing programme database based on the data of the response. Then the query of the process result can be performed as usual, if necessary. If the transaction listing identifies no unknown transaction ID for the relevant period (in which case the transaction was refused for sync error), the given data reports have to be repeated immediately. This method is only legal if there is no human intervention into the process, but is scheduled by software logic which immediately performs the transaction listing, matching, and the repetition of the data report, provided that the right conditions prevail.

2 DESCRIPTION OF THE BUSINESS CONTENT OF INVOICE DATA REPORTING

This section describes in detail the expected content of the Invoice element (of type InvoiceDataType) used to describe the invoice or a modification in the online data reports submitted by invoicing programmes.

The invoice data content of the data report must be embedded, encoded in BASE64 format, in the ManageInvoiceRequest/invoiceoperations/invoiceOperation/InvoiceData element discussed in the section "**The /manageInvoice operation**".

The InvoiceData element contains information on data reporting regarding an invoice/modification (the invoice element) or may contain information referring to multiple amending documents under a single invoice serial number (batchInvoice element).
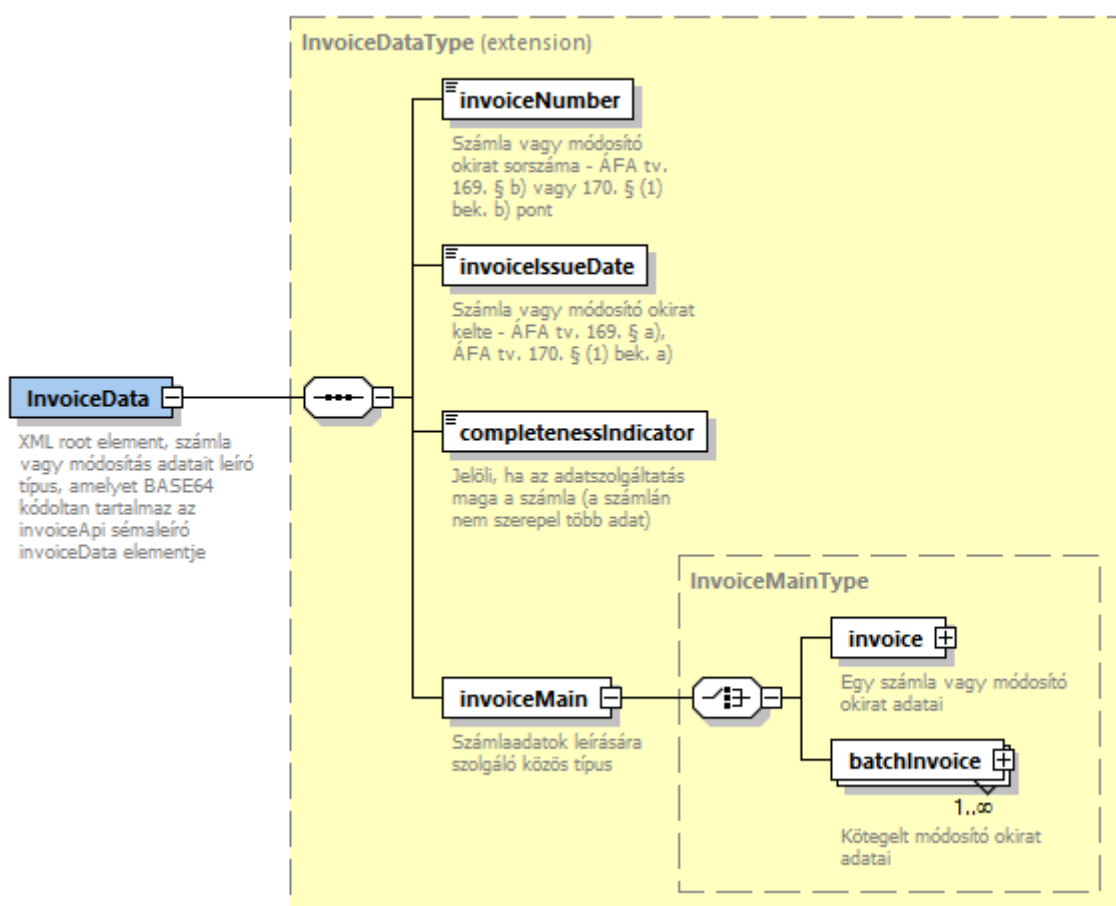
38 *InvoiceDataType*

If the data report contains information regarding the invoice (invoiceOperation = CREATE) or regarding only a single amending document (invoiceOperation = MODIFY, STORNO), the invoice element should be generated within the invoiceMain node. If the data report contains batch modifications (at least

two different invoices are modified under a single invoice number), then and only then should the batchInvoice element be generated within the invoiceMain node.

This section provides a detailed description of invoice data reports regarding invoices/modifications. The rules governing batch modifications can be found in the section "**Data report regarding the modification of multiple invoices**", the technical annulment of prior data reports is discussed in the section "**Technical annulment of previous data report**".

2.1 General properties of the invoice/modification schema

This section discusses the general properties of the schema to define invoices and deeds of modification. The detailed contents of the schema are discussed in the section "**Detailed content of the invoice/modification schema**".

2.1.1 Structure of the InvoiceDataType complex type

The invoiceData element contains the top-level data of the invoice or document under the same view as the invoice, the serial number of the invoice or amending document, and the issue date of the invoice or amending document. It is important to list the aforementioned data separately, because batch modifications can cause the internal content of the invoice to change with every modification, while the invoice number and the issue date will remain the same for every modification.

Tag	Type	Mandatory	Content
invoiceNumber	xs:string	Yes	Serial number of the invoice or modifying document – as per Section 169 b) or 170 (1) b) of the VAT Act
invoiceIssueDate	xs:date	Yes	Date of the invoice or amending document – Article 169 a) and Section 170 (1) a) of the VAT Act
completenessIndicator	xs:boolean	Yes	Indicates whether the data report is the invoice itself

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
invoiceNumber	SimpleText50NotBlankType	.*[^\s].*	-	-
invoiceIssueDate	InvoiceDateType	\d{4}-\d{2}-\d{2} minInclusive = 2010-01-01	-	-
completenessIndicator	-	-	-	false

Each of the node's elements has its own type, which may be complex (complexType), or simple (simpleType). The specific invoice data are contained within simple type (simpleType) elements.

2.1.2 Mandatory report data

Of the data typically included in invoices, the relevant regulation (Decree No. 23/2014. (VI.30.) of the NGM) regarding online data provision only makes the reporting of only part of the data, i.e. particularly the data mandated to be reported by the VAT Act. However, data items beyond these compulsory items may also be included in the reports. The schema definition is constructed in a way that the

definition can cover the full data content of the invoice. As a rule of thumb, the data specified by the VAT Act as mandatory data content of invoices/modification documents must be included in the data reports. However, some data items specified as compulsory to include in the data report, must only be included in the invoice in specific cases. Such data items include the indication of reverse charge mechanism which is only compulsory to include if an item in the invoice is subject to reverse charge (e.g. grain). Such data items must only be included in the invoice data report if they are relevant for the invoice / deed of modification in question.

The regulations regarding the inclusion of various data in the invoices usually only define that a specific item must be included in the invoice. Depending on its content, a specific item of data may pertain to the whole invoice – the currency of the invoice, as an example – or only to specific items within the invoice (for example, a product to which reverse charging applies.) Such items are always specified on their corresponding invoice or invoice item level.

The taxpayer, at their sole discretion, may opt to include non-mandatory data in their invoice data report, for example because they also – once again, at their sole discretion – use the data content generated for data reporting and sent to the NAV for other purposes as well (e.g. electronic invoicing, customer notifications, as temporary files for their own processing system etc.).

The schema file (invoiceData.xsd) describing the invoice data content allows for the inclusion of further data (e.g. data mandated to be reported by tax regulations[2] or data that the taxpayer included in the invoice voluntarily). This means the schema file may contain several items that are not mandatory for any of the invoice data reports. The legal regulation allows for invoicing programmes to comply with the data export obligation also by creating the file using this same schema. As a result, the optional elements of online data reporting may be mandatory in data export. It should be noted that the schema will only designate an item mandatory (in the technical sense) if the VAT Act designates said item as a mandatory data in the invoice or in the data report, if it is relevant for every invoice and modification, and if it is mandatory to include in the data report. And example of such data item is the unique reference number of the invoice. If a specific invoice data item listed as mandatory by the VAT Act (such as the fiscal representative information) is not necessarily included in each invoice and modification document with correct data content, the data element in question will not be deemed mandatory by the schema.

The schema definition will often not define a parent element as mandatory, but will so regarding one of its child elements. Examples include the fiscal representative information parent element (FiscalRepresentativeInfo) and its child elements. In this particular case, the parent element is not mandatory to include (as it is not necessarily meaningful for a particular invoice), but if the parent element is included, its child elements that are defined as mandatory must also be included.

The data must be included in the element of the invoice description XML designated for this purpose by the annotations of the relevant XSD and the present document.

In order to facilitate developer work, the table contained in Annex 2 to this document summarises which data are stipulated as compulsory by the VAT Act.

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[2] Examples include the excise duty act, Product Charge Act etc.

2.1.3 Address data in the schema

Address data can and/or must be included in several elements of the invoice data report. These include the supplier's (Seller's) data, the customer's data, the fiscal representative's data (if applicable) as well as other elements in some special cases.

The address data is defined via the AddressType complex type (found in invoiceBase.xsd), which may contain a simple address (simpleAddress element of type SimpleAddressType) or a detailed address (detailedAddress element of type DetailedAddressType).
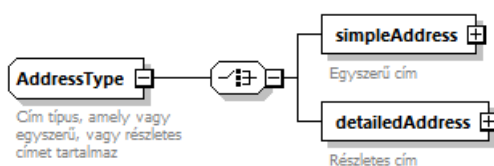
39 *Structure of the AddressType element*

Since there are multiple address data items in the schema, the type is detailed here.

The data report must include the address data of the invoice, broken down by address type.

2.1.3.1 Simple addressdata
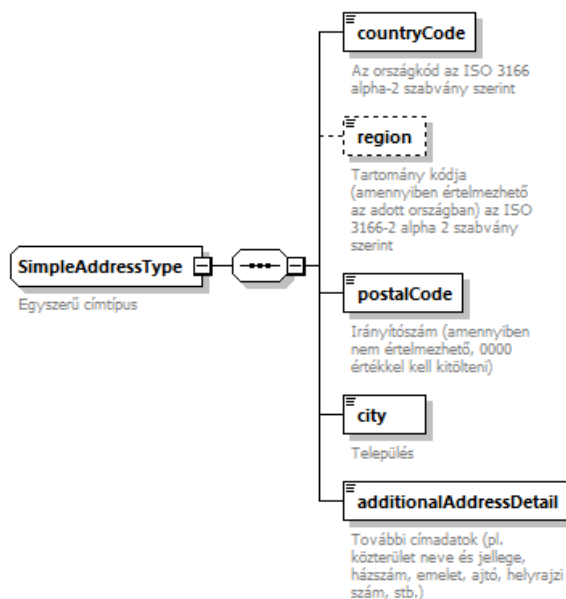
40 *Structure of the SimpleAddressType element*

Tag	Type	Mandatory	Content
countryCode	xs:string	Yes	Country code as per the ISO 3166 alpha-2 standard
region	xs:string	No	Province code (if applicable to the specified country) as per the ISO 3166-2 alpha 2 standard.
postalCode	xs:string	Yes	Postal code (the value shall be set to 0000 if not applicable)

| city | xs:string | Yes | Settlement |
| additionalAddressDetail | xs:string | Yes | Further address data (including the name and type of public space, street number, floor, door number, land register reference etc.) |

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
countryCode	CountryCodeType	[A-Z]{2}	-	HU
region	SimpleText50NotBlankType	.*[^\s].*	-	-
postalCode	PostalCodeType	[A-Z0-9][A-Z0-9\s\-]{1,8}[A-Z0-9]	-	-
city	SimpleText255NotBlankType	.*[^\s].*	-	-
additionalAddressDetail	SimpleText255NotBlankType	.*[^\s].*	-	-

In some cases, address data cannot be broken down by type in the data report. A typical example is a taxpayer in the VAT system registered in a country where the address syntax does not contain street names and street numbers (e.g. Costa Rica), or the language of the country does not allow the separation of the name and type of the public place (e.g. Beispielstrasse or Hillakatu).

Another possible scenario is when breaking down the customer's address data stored in the data reporting taxpayer's system by type would require disproportionately large amount of resources. In such cases, the address can be included in the invoice data report, typed as a simple address.

Certain countries (e.g. the Republic of Ireland) don't use a zip code system – in such cases the postal code (PostalCode) element shall have a value of 0000. For example, the postal code format also supports postal codes with only 3 characters, or ones containing spaces and hyphens. In other special cases, the accurately specified postal code of the given country is deemed invalid according to the schema, it is expedient to convert the postal code into a format that is valid as per the schema.

It should be noted that the seat address (as registered by NAV) of companies with Hungarian tax numbers may be queried via M2M connection at any time. For details, please check "The /queryTaxpayer operation" section.

2.1.3.2 Detailed address data
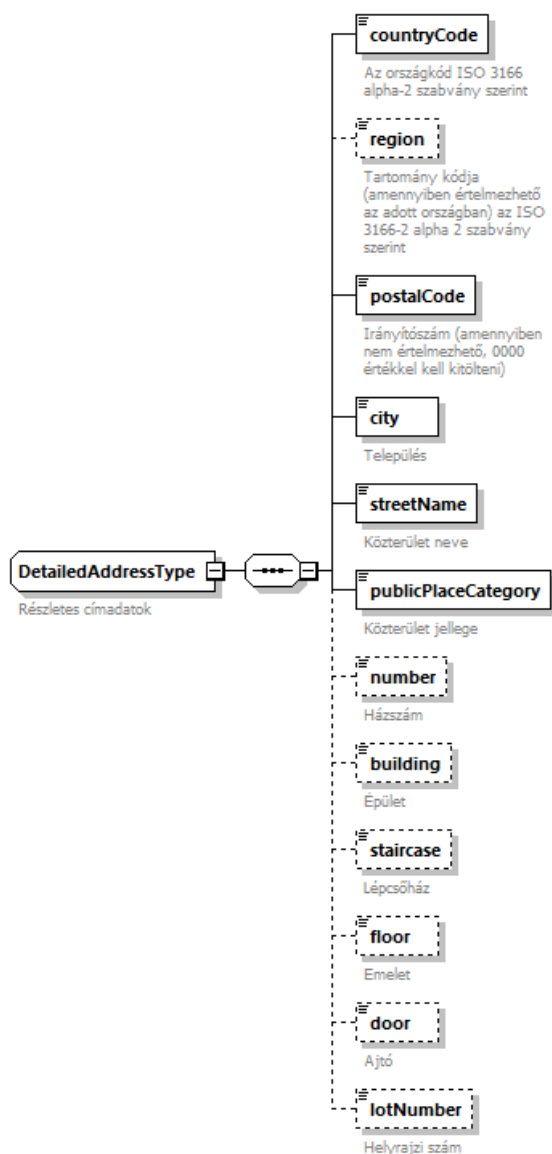
41 Structure of the DetailedAddressType element

Tag	Type	Mandatory	Content
countryCode	xs:string	Yes	The country code as per the ISO 3166 alpha-2 standard
region	xs:string	No	Province code (if applicable to the specified country) as per the ISO 3166-2 alpha 2 standard.
postalCode	xs:string	Yes	Postal code (the value shall be set to 0000 if not applicable)
city	xs:string	Yes	Settlement
streetName	xs:string	Yes	Name of public space
publicPlaceCategory	xs:string	Yes	Type of public space
number	xs:string	No	Street number

building	xs:string	No	Building
staircase	xs:string	No	Stairway
floor	xs:string	No	Floor
door	xs:string	No	Door number
lotNumber	xs:string	No	Topographical lot number

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
countryCode	CountryCodeType	[A-Z]{2}	-	HU
region	SimpleText50NotBlankType	.*[^\s].*	-	-
postalCode	PostalCodeType	[A-Z0-9][A-Z0-9\s\-]{1,8}[A-Z0-9]	-	-
city	SimpleText255NotBlankType	.*[^\s].*	-	-
streetName	SimpleText255NotBlankType	.*[^\s].*	-	-
publicPlaceCategory	SimpleText50NotBlankType	.*[^\s].*	-	-
number	SimpleText50NotBlankType	.*[^\s].*	-	-
building	SimpleText50NotBlankType	.*[^\s].*	-	-
staircase	SimpleText50NotBlankType	.*[^\s].*	-	-
floor	SimpleText50NotBlankType	.*[^\s].*	-	-
door	SimpleText50NotBlankType	.*[^\s].*	-	-
lotNumber	SimpleText50NotBlankType	.*[^\s].*	-	-

In some cases (with taxpayers registered in the VAT system, for example,) the region within the country must be included in the address data, as many countries have multiple settlements with the same name but located in different administrative units (provinces, counties etc.). In such cases, the address is only unambiguous with the region's name included.

2.1.4 Tax numbers in the schema

The tax numbers of the two parties involved in a business event – the supplier (seller) and the customer – are considered key data of the invoice or modification specifying said business event.

The tax number(s) are can/shall be included in the following places of the data structure describing the invoice or modification:

- along with the supplier's (seller's) data,
- along with the customer's data,
- along with the fiscal representative's data,[3] should one be appointed
- or, in special cases, along with the data of the party obliged to pay the product charge.

The supplier's (seller's) data must include the tax number on the invoice under which the business event was carried out (the supplierTaxNumber element of type TaxNumberType). If the seller is registered in the group VAT system, then – pursuant to the provisions of the VAT Act – the seller, as a taxable person constitutes the group. The group member's tax number must be featured in the groupMemberTaxNumber element (type: TaxNumberType), if it is included in the invoice. The EU VAT

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[3] Sections 148 & 149 of the VAT Act

number of the supplier can be included in the communityVatNumber element (of type CommunityVatNumberType), if it is indicated on the invoice.

Under version 3.0 of the invoice and the legislation in force as of 4 January 2021, **customer** data, including the tax number entry method, is different from previous versions, and will be explained in the next separate subsection.

It should be noted that EU VAT numbers and non-EU country tax numbers are mainly important for data export purposes before 4 January 2021. As of 4 January 2021, due to changes in the VAT Act, these invoices will also be subject to mandatory data reporting. For intra-Community exempt sales, providing the Community tax number is mandatory on both the invoice and the data report on the side of the seller and the buyer as well. When selling to buyer in a non-EU country there is no legal obligation to include the seller tax number. Nevertheless, the schema has a dedicated tag for this tax number.

The fiscal representative's data must contain a Hungarian tax number in the fiscalRepresentativeTaxNumber element (of type TaxNumberType).
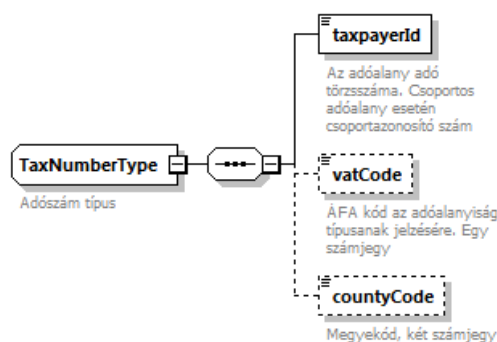
42 *Structure of the TaxNumberType element*

Tag	Type	Mandatory	Content
taxpayerId	xs:string	Yes	The taxpayer's tax registration number. The group ID for group VAT taxpayers
vatCode	xs:string	No	VAT code indicating taxation status. Single digit
countyCode	xs:string	No	County code, two digits

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
taxpayerId	TaxpayerIdType	[0-9]{8}		
vatCode	VatCodeType	[1-5]{1}		
countyCode	CountyCodeType	[0-9]{2}		

For all invoices subject to a data reporting obligation, the supplier (seller) disposes of a Hungarian tax number. In all cases, this Hungarian tax number must be indicated in the supplierInfo/supplierTaxNumber element. If the supplier (seller) is registered in the group VAT system, their group ID number (VAT code: "5") must be included in the supplierInfo/supplierTaxNumber element, whereas the group member's "own" tax number (VAT code: "4") must be included in the supplierInfo/groupMemberTaxNumber element.

2.1.4.1   Customer tax number

The mandatory indication on the invoice of the inland tax number and EU VAT number of the party purchasing the product or using the service is regulated by Section 169 subsection d) of the VAT Act. Pursuant to point (d), for domestic sales, the first eight digits of the taxable customer's tax number and, for group VAT, the first eight digits of the group identification number must also be included in the invoice and thus in the data report. Exceptions to this rule are invoice issuers that are not headquartered in Hungary for economic purposes, or, if no economic headquarters are established, their main abode or place of residence is not in Hungary (they have only VAT registration). They are under no obligation to indicate the tax number of the domestic customer (but may do so if they wish), thus, the domestic customer's tax number will not necessarily appear in the data report for this group of taxable persons either.

In comparison with the above, for domestic reverse charge invoices, the customer's tax number must be indicated on the invoice in full (as opposed to only the first eight digits), and it must also be included in the data report. If the transaction is not subject to the rules of reverse charge mechanism domestically (as per Section 142 of the VAT Act), but is subject to the reverse charge mechanism as a transaction completed in another Member State or non-EU country (as per Sections 139 & 140 of the VAT Act), the tax number of the party acquiring the goods or services in a non-EU country (if applicable), or its EU VAT number in another Member State has to be indicated in the invoice.

For intra-Community exempt sale of goods or services, the VAT Act requires, as a rule of thumb, the inclusion of the Community tax number on the invoice, rendering it a mandatory element of the data reporting.

From 4 January 2021, the provision of invoices issued to non-taxable private persons is also mandatory. For such invoices, only the indication of the private person customer type (customerVatStatus = PRIVATE_PERSON) is mandatory, no other customer data may be included in the data report. The mandatory data content of the invoice is the private customer's name and address. However, in this case the content of the data report will differ from the invoice data. If the customer is a private individual (customerVatStatus = PRIVATE_PERSON), the tax authority system will not accept a data report containing a customer name and/or address information, regardless of the actual content of those fields.

The domestic tax number is contained within the customerTaxNumber element (of type CustomerTaxNumberType). If the customer status is domestic taxable person (customerVatStatus = DOMESTIC), the VAT registered issuer of the invoice has to indicate the tax number of the domestic taxable person, save for transactions subject to direct taxation. If the customer is a domestic taxable person (customerVatStatus = DOMESTIC) and no domestic tax number is indicated

((customerTaxNumber), the data report will not be accepted by the tax authority system (save for VAT registered sellers).

If the customer is a domestic group VAT subject, then – in accordance with the VAT Act – the customer's tax number should be the group identification number, and the group member's tax number should be entered into the groupMemberTaxNumber element (type: TaxNumberType), provided it is included in the invoice. The EU VAT number of the customer can be included in the communityVatNumber element (of type CommunityVatNumberType), if it is included in the invoice. Third-country tax numbers of third-country parties can be included in the thirdStateTaxId element (of type SimpleText50NotBlankType), if it is included in the invoice.

Only one of the three tax numbers can be included in the data report. If the invoice contains several customer tax numbers (e.g. a domestic tax number and a community tax number), the data report shall contain the tax number mandated for inclusion on the invoice by the VAT Act subject to the particular features of the specific transaction.
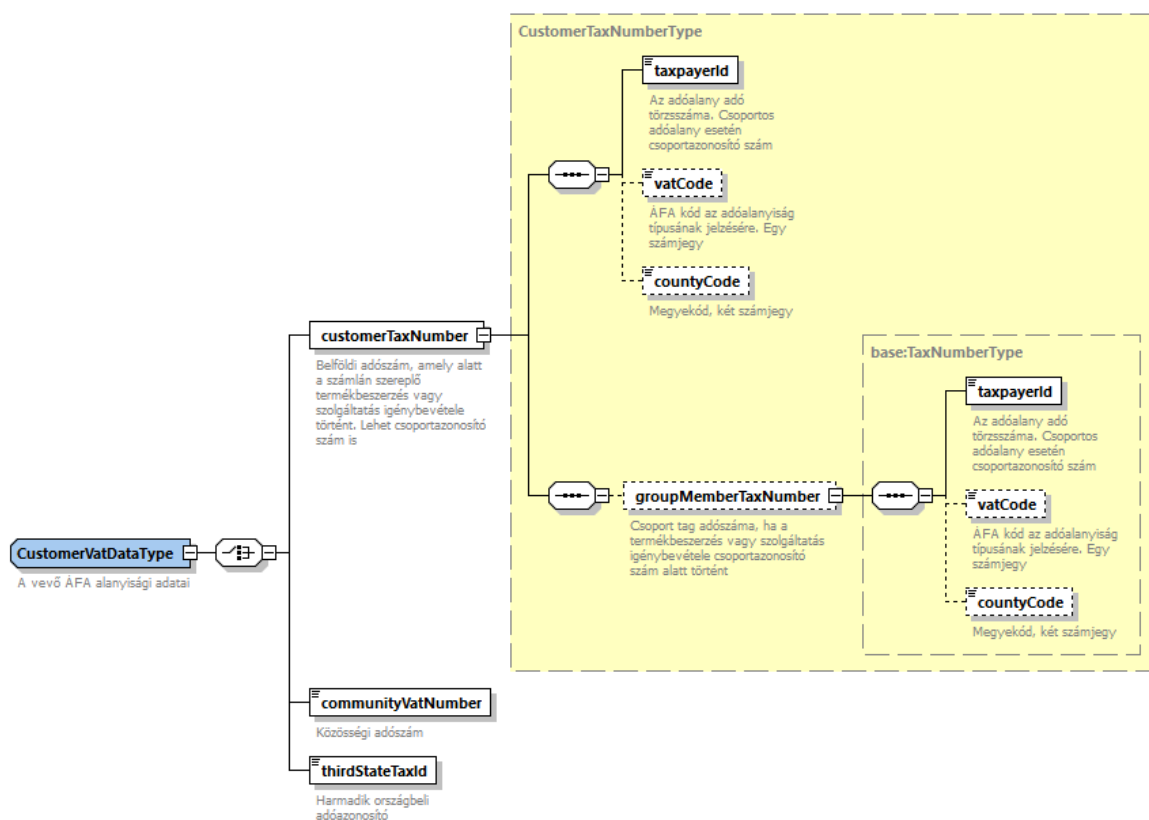
43 *Structure of the CustomerVatDataType element*

Tag	Type	Mandatory	Content
customerTaxNumber/taxpayerId	xs:string	Yes	The taxpayer's tax number registration number. The group ID for group VAT taxpayers
customerTaxNumber/vatCode	xs:string	No	VAT code indicating taxation status. Single digit
customerTaxNumber/countyCode	xs:string	No	County code, two digits
customerTaxNumber/ groupMemberTaxNumber/ taxpayerId	xs:string	Yes	The taxpayer's tax number registration number. The group ID for group VAT taxpayers
customerTaxNumber/ groupMemberTaxNumber/vatCode	xs:string	No	VAT code indicating taxation status. Single digit
customerTaxNumber/ groupMemberTaxNumber/ countyCode	xs:string	No	County code, two digits
communityVatNumber	xs:string	Yes	EU VAT number
thirdStateTaxId	xs:string	Yes	Tax number of third country

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
customerTaxNumber/taxpayerId	TaxpayerIdType	[0-9]{8}	-	-
customerTaxNumber/vatCode	VatCodeType	[1-5]{1}	-	-
customerTaxNumber/countyCode	CountyCodeType	[0-9]{2}	-	-
customerTaxNumber/ groupMemberTaxNumber/ taxpayerId	TaxpayerIdType	[0-9]{8}	-	-
customerTaxNumber/ groupMemberTaxNumber/vatCode	VatCodeType	[1-5]{1}	-	-
customerTaxNumber/ groupMemberTaxNumber/ countyCode	CountyCodeType	[0-9]{2}	-	-
communityVatNumber	CommunityVatNumberType	[A-Z]{2}[0-9A-Z]{2,13}	-	-
thirdStateTaxId	SimpleText50NotBlankType	.*[^\s].*	-	-

The typical cases in respect of the inclusion of the customer's tax number are summarised in the table below.

Number	Case	Include tax number and fill out customerVatStatus
1.	The customer is registered in the	customerVatStatus = DOMESTIC Their group ID number (VAT code: "5") must be included in the customerInfo/customerVatData/customerTaxNumber/taxpayerId element, whereas the group member's own tax number (VAT code: "4") must be included in the

	group VAT system in Hungary, and the inclusion of their tax number on the invoice is mandatory.	customerInfo/customerVatData/customerTaxNumber/groupMemberTaxNumber/taxpayerId element.
2.	The customer is registered in the (non-group) VAT system in Hungary, and the inclusion of their tax number on the invoice is mandatory.	customerVatStatus = DOMESTIC At least the first eight digits (registration number) of the tax number must be included in the customerInfo/customerVatData/customerTaxNumber element.
3.	The customer is a private individual	customerVatStatus = PRIVATE_PERSON The customerVatData node may not be filled out in this case.
4.	Customer is a taxable person registered in another EC Member State, and the transaction is an EC exempt supply	customerVatStatus = OTHER customerInfo/customerVatData/communityVatNumber is mandatory.

5.	Customer is a taxable person registered in another EC Member State, and the transaction has a VAT rate of 27%, 18% or 5%.	customerVatStatus = OTHER customerInfo/customerVatData/communityVatNumber is not mandatory, but may be provided.
6.	The customer is registered in a non-EU country, and does not participate in the transaction as taxable person registered in another Member State.	customerVatStatus = OTHER customerInfo/customerVatData/thirdStateTaxId is not mandatory, but may be provided.
7.	The customer is not a taxable person, but it is not a private individual either	customerVatStatus = OTHER no element of customerInfo/customerVatData can be provided since the customer has no tax number.

2.1.5 Displaying undefined data

The type definition allows for the inclusion of data undefined in the schema (hereinafter referred to as extra data). Naturally, the inclusion of this type of data is never mandatory.

The inclusion of extra data may be necessary when the taxpayer performing the invoice data reporting, decides to also use the XML files generated for the invoice data reports in their own processes, and therefore requires the extra data for completeness and easier processing. It may be useful for the parties to include the invoice or the conventional data in a structured format, for example in the XML file sent to the customer for information. Also, the weight and/or volume of the shipped goods included on the invoice may be useful to include in the data if these facilitate the efficiency of the seller/customer's own processes. Only extra data contained by the invoice may be included in the invoice data report.

The schema allows the subsequent inclusion of data for both the whole invoice or for specific items thereof. The elements required are:

Logical unit	Element name	Element type
Whole invoice	additionalInvoiceData	AdditionalDataType
Invoice item	additionalLineData	AdditionalDataType

The AdditionalDataType element incorporates the following sub-elements:
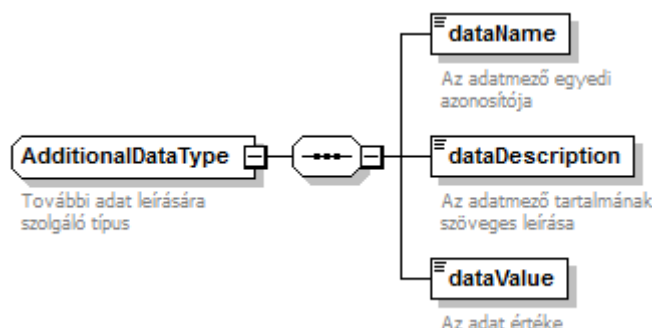
44 *Structure of the AdditionalDataType element*

Tag	Type	Mandatory	Content
dataName	xs:string	Yes	Unique ID of data field Example: A00001_RENDELES_SZAM X00002_SHIPMENT_ID X00999_SHIPMENT_VOLUME_ M3
dataDescription	xs:string	Yes	Written description of data field's content
dataValue	xs:string	Yes	Data value

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
dataName	DataNameType	[A-Z][0-9]{5}[_][_A-Z0-9]{1,249}	-	-
dataDescription	SimpleText255NotBlankType	.*[^\s].*	-	-
dataValue	SimpleText512NotBlankType	.*[^\s].*	-	-

2.1.6   Inclusion of conventional, named data

For the reasons mentioned in the previous chapter, the fields for indicating conventional, named data have been introduced in xsd version 3.0.

The schema allows the inclusion of conventional, named data for both the whole invoice or for specific items thereof. The elements required are:

Logical unit	Element name	Element type
Whole invoice	conventionalInvoiceInfo	ConventionalInvoiceInfoType
Invoice item	conventionalLineInfo	ConventionalInvoiceInfoType
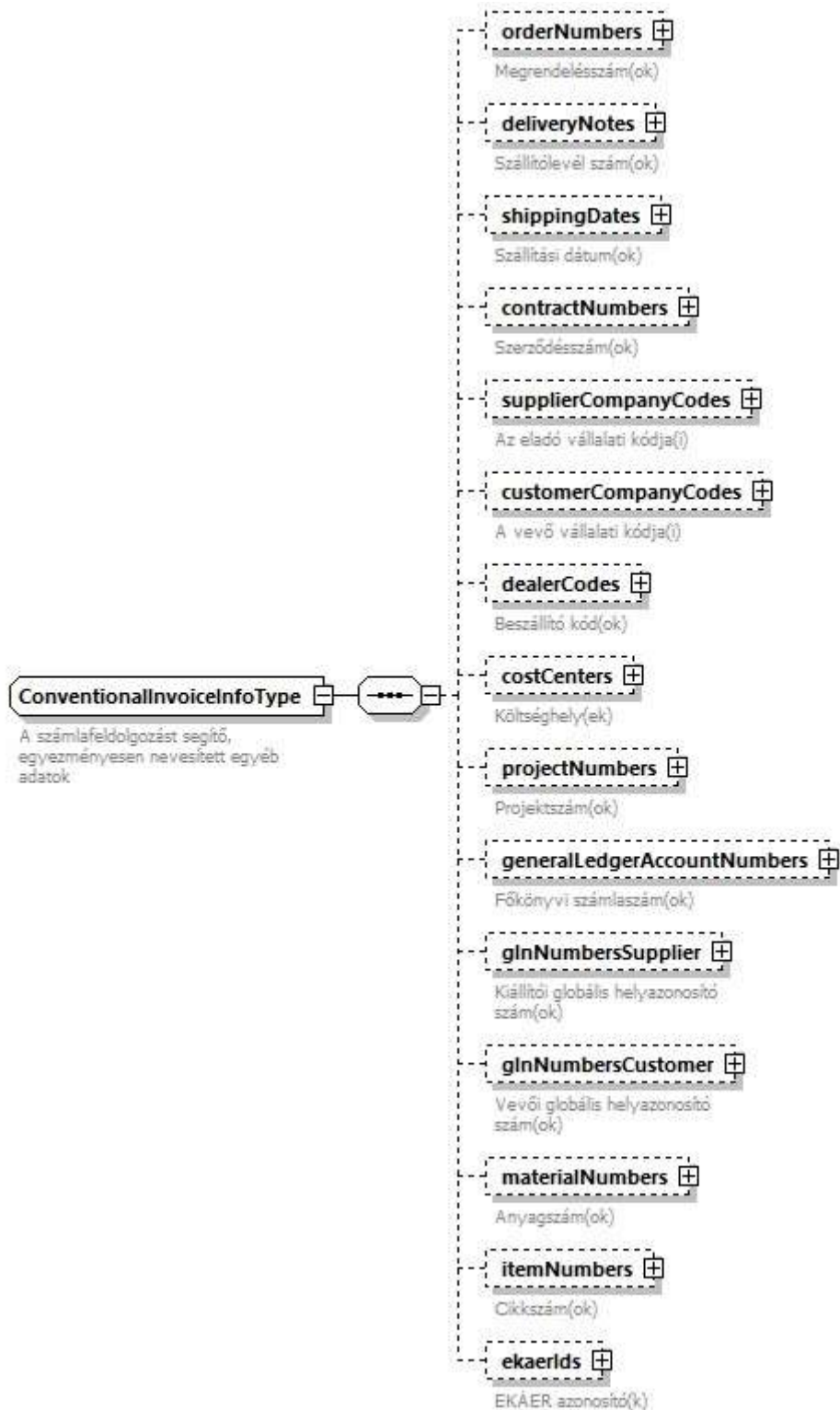
45 *Structure of the ConventionalInvoiceInfoType element*

Each node is optional, and there is no restriction on repetition within the node.

Tag	Type	Mandatory	Content
orderNumbers/orderNumber	xs:string	Yes	Order No
deliveryNotes/deliveryNote	xs:string	Yes	Delivery note number
shippingDates/shippingDate	xs:string	Yes	Shipping date
contractNumbers/contractNumber	xs:string	Yes	Contract number
supplierCompanyCodes/supplierCompanyCode	xs:string	Yes	Supplier's company code
customerCompanyCodes/customerCompanyCode	xs:string	Yes	Customer's company code
dealerCodes/dealerCode	xs:string	Yes	Dealer code
costCenters/costCenter	xs:string	Yes	Cost center
projectNumbers/projectNumber	xs:string	Yes	Project number
generalLedgerAccountNumbers/generalLedgerAccountNumber	xs:string	Yes	General ledger account number
glnNumbersSupplier/glnNumber	xs:string	Yes	Global location number of the issuer
glnNumbersCustomer/glnNumber	xs:string	Yes	Global location number of the customer
materialNumbers/materialNumber	xs:string	Yes	Material number
itemNumbers/itemNumber	xs:string	Yes	Article number
ekaerIds/ekaerId	xs:string	Yes	EKÁER identification number

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
orderNumber	SimpleText100NotBlankType	.*[^\s].*	-	-
deliveryNote	SimpleText100NotBlankType	.*[^\s].*	-	-
shippingDate	SimpleText100NotBlankType	.*[^\s].*	-	-
contractNumber	SimpleText100NotBlankType	.*[^\s].*	-	-
supplierCompanyCode	SimpleText100NotBlankType	.*[^\s].*	-	-
customerCompanyCode	SimpleText100NotBlankType	.*[^\s].*	-	-
dealerCode	SimpleText100NotBlankType	.*[^\s].*	-	-
costCenter	SimpleText100NotBlankType	.*[^\s].*	-	-
projectNumber	SimpleText100NotBlankType	.*[^\s].*	-	-
generalLedgerAccountNumber	SimpleText100NotBlankType	.*[^\s].*	-	-
glnNumber	SimpleText100NotBlankType	.*[^\s].*	-	-
materialNumber	SimpleText100NotBlankType	.*[^\s].*	-	-
itemNumber	SimpleText100NotBlankType	.*[^\s].*	-	-
ekaerId	EkaerIdType	[E]{1}[0-9]{6}[0-9A-F]{8}	-	-

It is important to note that in the pre-3.0 schema, the ekaerIds node was still included in the items. As this data got rolled into the conventionalInvoiceInfo node, the separate node was phased out of the line.

2.1.7 Decimal separators

Decimal points should be used for decimal separation as per the XML 1.0 standard, regardless of whether the actual invoice uses decimal points or commas for that purpose.

2.2 Detailed content of the invoice/modification schema

The invoice element contains 5 sub-elements, guaranteeing consistency regarding every operation the element type is relevant for.
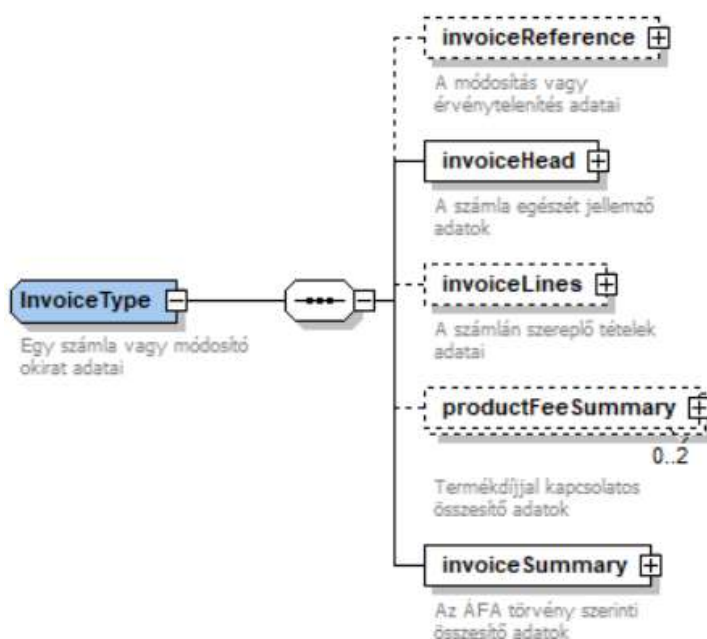
46 *Structure of the InvoiceType element*

2.2.1 invoiceReference

If the data report pertains to the modification of a previously issued invoice rather than an original invoice, the data of the modification document (e.g. modifying invoice, cancelling invoice etc.) shall be contained within the invoiceReference element (of type invoiceReferenceType).

This element may and must only be included in the data reporting of modifications (annulments).
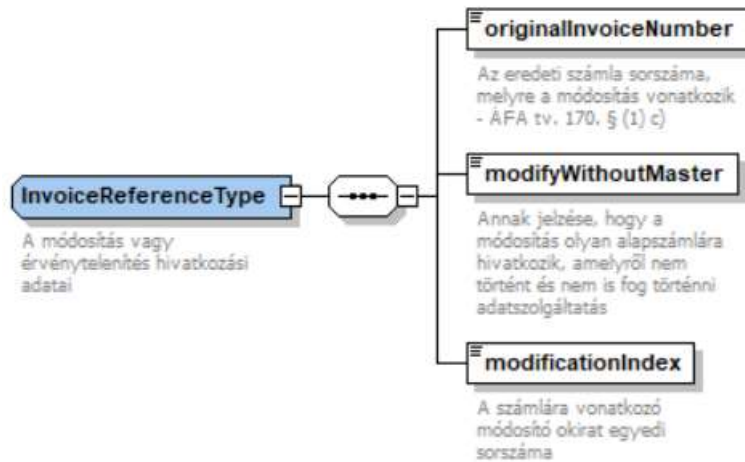
47 Structure of the InvoiceReferenceType element

Tag	Type	Mandatory	Content
originalInvoiceNumber	xs:string	Yes	The reference number of the original invoice amended by the modification – Section 170 (1) c) of the VAT Act
modifyWithoutMaster	xs:boolean	Yes	Indication of a modification for a base invoice with no completed or future data reporting
modificationIndex	xs:int	Yes	The unique serial number of the amending document referencing the invoice

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
originalInvoiceNumber	SimpleText50NotBlankType	.*[^\s].*	-	-
modifyWithoutMaster	-	-	-	false
modificationIndex	InvoiceUnboundedIndexType	minInclusive = 1	-	-

The originalInvoiceNumber element contains the reference number of the original invoice (where invoiceOperation = CREATE) (the invoiceNumber element of the data report of the original invoice) amended by the modification.

The modifying document's "own" reference number shall NOT be listed within the invoiceReference element, but rather in the invoiceNumber element.

In special cases, data reporting may be performed regarding a modifying document for an original invoice for which no data reporting has been, or will be, performed. This should be indicated by setting the value of the modifyWithoutMaster element to "true". Such cases may occur if:

- the original invoice was issued before 1 July 2018 and data reporting for the amending document is compulsory
- although the original invoice was issued after 1 July 2018, it was not yet mandatory to report at that time and was in fact not reported. However, reporting will become mandatory once the amending document is issued
- the original invoice was issued by the taxpayer's legal predecessor. While data reporting has been completed, the report is not available in the legal successor's data services.
- for public utilities, if the given settlement invoice also contains the data report on the fulfillment of the final period (see the operation of utilitySettlementIndicator)

The modificationIndex provides a unique description of the order of supplier-side modifications. Logically, modificationIndex = 1 value should be assigned to data pertaining to the first modification of the invoice. For any subsequent modifications, the element should denote the number of invoice modifications referenced by the data report for the amending document. The system uses the modificationIndex value to verify the uniqueness of the amending documents. The same modificationIndex value cannot be used for submitting data more than once. The system will not use modificationIndex to check the ordering.

Uniqueness verification also means that data reports with earlier version numbers (1.0, 1.1) and those pertaining to modifications or cancellations (where modificationIndex was not yet used) are not included in the uniqueness verification. However, version 2.0 invoices are already included in the uniqueness verification, because the modificationIndex field was introduced in that version. The system will not verify the ordering between earlier (version 1.0, 1.1) modification or cancellation invoices and modification or cancellation invoices in the new versions (2.0, 3.0). However, any logically inconsistent modifications (e.g. if the invoice already has 3 earlier 1.x modifications in the system, and a new 3.0 modification arrives with a modificationIndex of 1) may be used as inputs for the risk management system.

2.2.2 invoiceHead
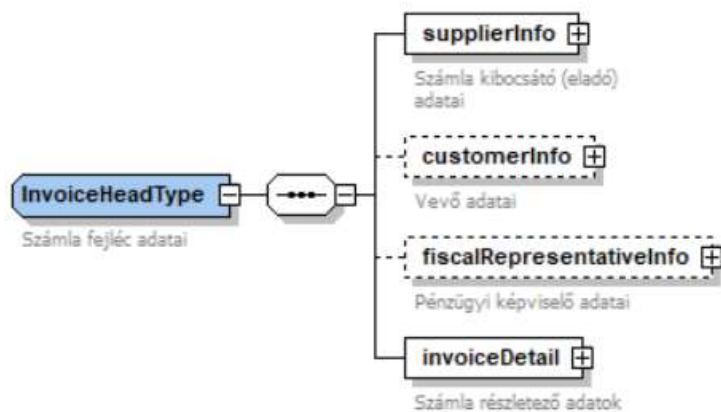
48 *Structure of the InvoiceHeadType element*

The invoiceHead element (of type InvoiceHeadType) contains data pertaining to the invoice as a whole (as opposed to the individual invoice items), in the following order.

Tag	Type	Mandatory	Content
supplierInfo	SupplierInfoType	Yes	Invoice issuer's (seller) data
customerInfo	CustomerInfoType	No	Customer's data
fiscalRepresentativeInfo	FiscalRepresentativeType	No	Fiscal representative's data
invoiceDetail	InvoiceDetailType	Yes	Invoice detail data

2.2.2.1 supplierInfo
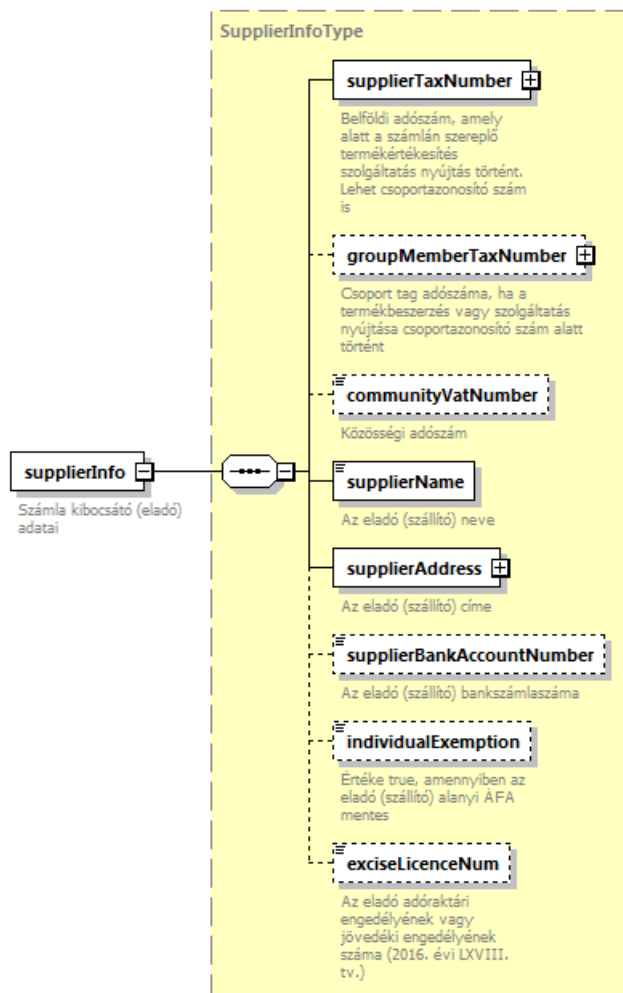
49 49 Structure of the SupplierInfoType element

Tag	Type	Mandatory	Content
supplierTaxNumber	xs:complexType	Yes	The domestic tax number under which the sales or service provision on the invoice was carried out. It can also be a group ID.
groupMemberTaxNumber	xs:complexType	No	The group member's tax number, if the sale of the product or provision of service was carried out using a group ID.
communityVatNumber	xs:string	No	The EU VAT number
supplierName	xs:string	Yes	Name of seller (supplier)
supplierAddress	xs:complexType	Yes	Address of seller (supplier)
supplierBankAccountNumber	xs:string	No	Bank account number of seller (supplier)

individualExemption	xs:boolean	No	The value is "true" if the invoice issuer (seller) has individual VAT exempt status
exciseLicenceNum	xs:string	No	The seller's tax warehouse/excise authorisation (as per Act LXVIII of 2016)

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
supplierTaxNumber	TaxNumberType	-	-	-
groupMemberTaxNumber	TaxNumberType	-	-	-
communityVatNumber	CommunityVatNumberType	[A-Z]{2}[0-9A-Z]{2,13}	-	-
supplierName	SimpleText512NotBlankType	.*[^\s].*	-	-
supplierAddress	AddressType	-	-	-
supplierBankAccountNumber	BankAccountNumberType	[0-9]{8}[-][0-9]{8}[-][0-9]{8}|[0-9]{8}[-][0-9]{8}|[A-Z]{2}[0-9]{2}[0-9A-Za-z]{11,30}	-	-
individualExemption	-	-	-	false
exciseLicenceNum	SimpleText50NotBlankType	.*[^\s].*	-	-

For a description of the BankAccountNumberType type please see the section "**Description of types in business content**".

The AddressType type was discussed in the section "**Address data in the schema**".

The TaxNumberType type was discussed in the section "**Tax numbers in the schema**".

2.2.2.2 customerInfo
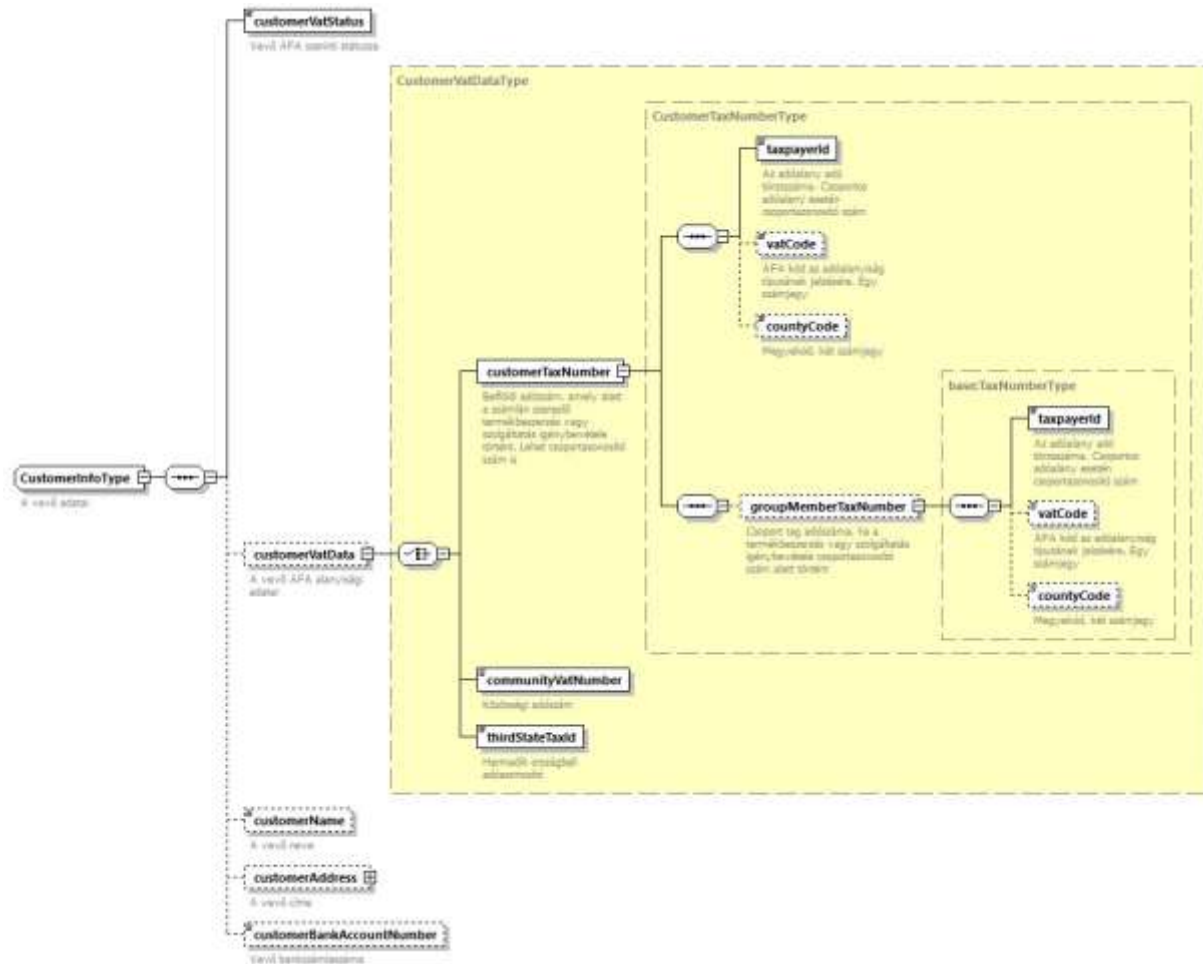
50 *Structure of the CustomerInfoType element*

Tag	Type	Mandatory	Content
customerVatStatus	xs:complexType	Yes	Customer VAT status
customerVatData	xs:complexType	No	Customer VAT details
customerName	xs:string	No	Customer's name
customerAddress	xs:complexType	No	Customer's address
customerBankAccountNumber	xs:string	No	Customer's bank account number

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
customerVatStatus	CustomerVatStatusType	-	DOMESTIC OTHER PRIVATE_PERSON	-
customerVatData	CustomerVatDataType	-	-	-
customerName	SimpleText512NotBlankType	.*[^\s].*	-	-

customerAddress	AddressType	-	-	-
customerBankAccountNumber	BankAccountNumberType	[0-9]{8}[-][0-9]{8}[-][0-9]{8}|[0-9]{8}[-][0-9]{8}|[A-Z]{2}[0-9]{2}[0-9A-Za-z]{11,30}	-	-

For a description of the BankAccountNumberType type please see the section "**Description of types in business content**".

The AddressType type was discussed in the section "**Address data in the schema**".

The CustomerVatDataType type was discussed in the section "**Tax numbers in the schema**".

Possible values of customerVatStatus:

- DOMESTIC: domestic VAT taxable person
- OTHER: Other (domestic non-VAT taxable person, non-natural person, foreign VAT taxable person and foreign non-VAT taxable person, non-natural person)
- PRIVATE_PERSON: Non-VAT taxable natural person (domestic or foreign)

2.2.2.3 fiscalRepresentativeInfo
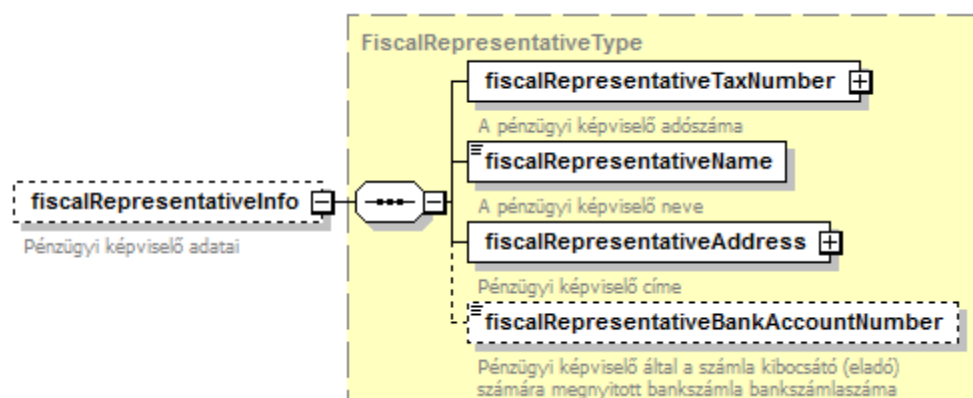
51 *Structure of the FiscalRepresentativeType element*

Tag	Type	Mandatory	Content
fiscalRepresentativeTaxNumber	xs:complexType	Yes	Fiscal representative's tax number
fiscalRepresentativeName	xs:string	Yes	Fiscal representative's name
fiscalRepresentativeAddress	xs:complexType	Yes	Fiscal representative's address

fiscalRepresentativeBankAccountNumber	xs:string	No	Bank account number opened by the fiscal representative for the invoice issuer (seller)

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
fiscalRepresentativeTaxNumber	TaxNumberType	-	-	-
fiscalRepresentativeName	SimpleText512NotBlankType	.*[^\s].*	-	-
fiscalRepresentativeAddress	AddressType	-	-	-
fiscalRepresentativeBankAccountNumber	BankAccountNumberType	[0-9]{8}[-][0-9]{8}[-][0-9]{8}|[0-9]{8}[-][0-9]{8}|[A-Z]{2}[0-9]{2}[0-9A-Za-z]{11,30}	-	-

For a description of the BankAccountNumberType type please see the section "**Description of types in business content**".

The AddressType type was discussed in the section "**Address data in the schema**".

The TaxNumberType type was discussed in the section "**Tax numbers in the schema**".

2.2.2.4   invoiceDetail

invoiceCategory

A számla típusa, módosító
okirat esetén az eredeti
számla típusa

invoiceDeliveryDate

Teljesítés dátuma (ha nem
szerepel a számlán, akkor
azonos a számla keltével) -
ÁFA tv. 169. § g)

invoiceDeliveryPeriodStart

Amennyiben a számla egy
időszakra vonatkozik, akkor az
időszak első napja

invoiceDeliveryPeriodEnd

Amennyiben a számla egy
időszakra vonatkozik, akkor az
időszak utolsó napja

invoiceAccountingDeliveryDate

Számviteli teljesítés dátuma. Időszak
esetén az időszak utolsó napja

periodicalSettlement

Annak jelzése, ha a felek a
termékértékesítés,
szolgáltatás nyújtás során
időszakonkénti
elszámolásban vagy
fizetésben állapodnak meg,
vagy a termékértékesítés,
szolgáltatás nyújtás
ellenértékét meghatározott
időpontra állapítják meg.

smallBusinessIndicator

Kisadózó jelzése

currencyCode

A számla pénzneme az ISO
4217 szabvány szerint

InvoiceDetailType

Számla részletező adatok

exchangeRate

HUF-tól különböző pénznem
esetén az alkalmazott
árfolyam: egy egység
értéke HUF-ban

utilitySettlementIndicator

Közmű elszámoló számla jelölése
(2013.évi CLXXVIII törvény
szerinti elszámoló számla)

selfBillingIndicator

Önszámlázás jelölése
(önszámlázás esetén true)

paymentMethod

Fizetés módja

paymentDate

Fizetési határidő

cashAccountingIndicator

Pénzforgalmi elszámolás jelölése,
ha az szerepel a számlán - ÁFA
tv. 169. § h). Értéke true
pénzforgalmi elszámolás esetén

invoiceAppearance

A számla vagy módosító
okirat megjelenési formája

conventionalInvoiceInfo ⊞

A számlafeldolgozást segítő,
egyezményesen nevesített egyéb
adatok

additionalInvoiceData ⊞

0..∞

A számlára vonatkozó egyéb
adat

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52 *Structure of the InvoiceDetailType element*

Tag	Type	Mandatory	Content
invoiceCategory	xs:string	Yes	Invoice type; in case of deed of modification the type of the original invoice
invoiceDeliveryDate	xs:date	Yes	Delivery date (identical with the issue date of the invoice if no delivery date is specified in the invoice) – as per Section 169 g) of the VAT Act
invoiceDeliveryPeriodStart	xs:date	No	Starting date of the time period, for invoices covering a time period
invoiceDeliveryPeriodEnd	xs:date	No	End date of the time period, for invoices covering a time period
invoiceAccountingDeliveryDate	xs:date	No	Accounting delivery date. End date of delivery, for invoices covering a time period
periodicalSettlement	xs:boolean	No	Denotes periodical settlement
smallBusinessIndicator	xs:boolean	No	Denotes a small taxpayer
currencyCode	xs:string	Yes	Invoice currency, as per the ISO 4217 standard
exchangeRate	xs:decimal	Yes	Exchange rate for currencies other than HUF: unit price in HUF
utilitySettlementIndicator	xs:boolean	No	Public Utility Settlement Invoice indication
selfBillingIndicator	xs:boolean	No	Indication of self-invoicing (set to "true" to indicate self-invoicing)
paymentMethod	xs:string	No	Payment method
paymentDate	xs:date	No	Deadline for payment
cashAccountingIndicator	xs:boolean	No	Accounting indicator, if one is included in the invoice – as per Section 169 h) of the VAT Act Set to "true" for cash accounting
invoiceAppearance	xs:string	Yes	Appearance type of the invoice or modification document
conventionalInvoiceInfo	xs:complexType	No	Other, conventionally named data, to assist in the processing of invoices
additionalInvoiceData	xs:complexType	No	Other invoice data

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default

invoiceCategory	InvoiceCategoryType		NORMAL SIMPLIFIED AGGREGATE	-
invoiceDeliveryDate	InvoiceDateType	\d{4}-\d{2}-\d{2} minInclusive = 2010-01-01	-	-
invoiceDeliveryPeriodStart	InvoiceDateType	\d{4}-\d{2}-\d{2} minInclusive = 2010-01-01	-	-
invoiceDeliveryPeriodEnd	InvoiceDateType	\d{4}-\d{2}-\d{2} minInclusive = 2010-01-01	-	-
invoiceAccountingDeliveryDate	InvoiceDateType	\d{4}-\d{2}-\d{2} minInclusive = 2010-01-01	-	-
periodicalSettlement	-	-	-	false
smallBusinessIndicator	-	-	-	false
currencyCode	CurrencyType	[A-Z]{3}	-	
exchangeRate	ExchangeRateType	minExclusive value="0" totalDigits value="14" fractionDigits value="6"	-	-
utilitySettlementIndicator	-	-	-	false
selfBillingIndicator	-	-	-	false
paymentMethod	PaymentMethodType	-	TRANSFER CASH CARD VOUCHER OTHER	-
paymentDate	InvoiceDateType	\d{4}-\d{2}-\d{2} minInclusive = 2010-01-01	-	-
cashAccountingIndicator	-	-	--	false
invoiceAppearance	InvoiceAppearanceType	-	PAPER ELECTRONIC EDI UNKNOWN	-
conventionalInvoiceInfo	ConventionalInvoiceInfoType	-	-	-
additionalInvoiceData	AdditionalDataType	-	-	-

The AdditionalDataType and ConventionalInvoiceInfoType types were discussed in sections **Displaying undefined data** and Inclusion **of conventional, named data**.

The InvoiceCategoryType, CurrencyType, ExchangeRateType, PaymentMethodType and InvoiceAppearanceType elements are described in the "**Description of types in business content**" section.

In case of invoice data reporting, the delivery date must be specified in each case (invoiceDeliveryDate). If the invoice has no explicit data relating to the delivery date, then pursuant to the VAT Act the delivery date shall be the date of issuance (invoiceIssueDate), therefore the invoiceDeliveryDate element must contain the same date as the one included in the invoiceIssueDate element.

In the case of an aggregate invoice (invoiceCategory=AGGREGATE), the delivery dates corresponding to the individual items are shown at the items. The invoice delivery date (invoiceDeliveryDate) must be included for an aggregate invoice as well, which date is the highest (latest) from among the delivery dates (lineDeliveryDate) for the various items in an aggregate invoice.

Data reporting on the invoice or the modifying document must always specify the currency (currencyCode) and the exchange rate (exchangeRate). For HUF-denominated invoices, 1 must be entered. If the modifying invoice does not contain an invoice line, but it is necessary to enter the exchange process again because of changes in the invoice heading, the last valid value preceding the modification must be entered in the exchangeRate tag. The exchange rate is not a mandatory data item in the invoice, however, pursuant to Sections 2 and 4 of Annex 10 of the VAT Act in effect as of 4 January 2021, it is a mandatory item in the data report. As of 4 January 2021 data report shall mean data report on the exchange rate under Sections 80 and 80/A of the VAT Act. As a result of the change in law, the exchange rate used to convert the net value of the invoice has to be indicated as a mandatory item not only for data reports that include output tax, but also for data reports that do not include output tax.

For aggregate invoices using a currency other than HUF, the conversion rate must be indicated for each invoice item (the aggregateInvoiceLineData/lineExchangeRate element), not collectively for the whole invoice, in the exchangeRate element. For a summary invoice issued in a foreign currency, the exchange rate must be entered in the invoice header as well, as the quotient of the net amount expressed as a HUF-denominated sum in the invoice summary and the net amount expressed in the currency of the invoice. (The value of invoiceSummary/summaryNormal/invoiceNetAmountHUF divided by the value of invoiceSummary/summaryNormal/invoiceNetAmount). If the data report does not include an invoice line when modifying the summary invoice issued in a foreign currency, and as a result the invoice total does not change, the last quotient calculated as above should be used for the exchange rate.

For more information on using the utilitySettlementIndicator, see the subsection **Public Utility Settlement Invoice Reporting**. The value of this field must be true for submissions regarding the settlement invoice of public utility service providers on regular performance (e.g. basic fees).

2.2.3 invoiceLines
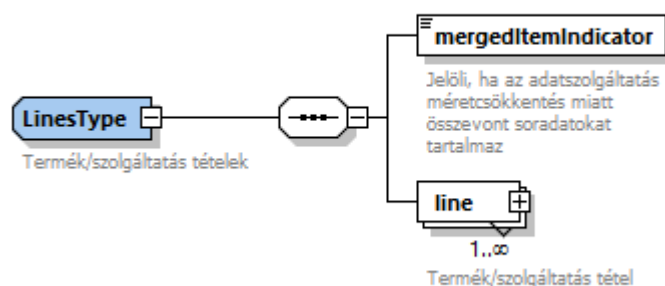
53 *Structure of the LinesType element*

The invoiceLines element (of type LinesType) is used to include the item data for the invoice/modification in the data report. The number of line elements contained by this element (of type LineType) equals the number of product/service items in the invoice/modification.

The issue of large-size data supplies with a POST body size larger than 10MB has been practically left unaddressed since the beginning of the project. The detailed procedure of submitting such invoices can be found in the section Reporting **of large invoices**.

Tag	Type	Mandatory	Content
mergedItemIndicator	xs:boolean	Yes	Indicates whether the data report contains aggregated item data to decrease its size
line	xs:complexType	Yes	Product/service item

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
mergedItemIndicator	-	-	-	-
line	LineType	-	-	-

2.2.3.1 line
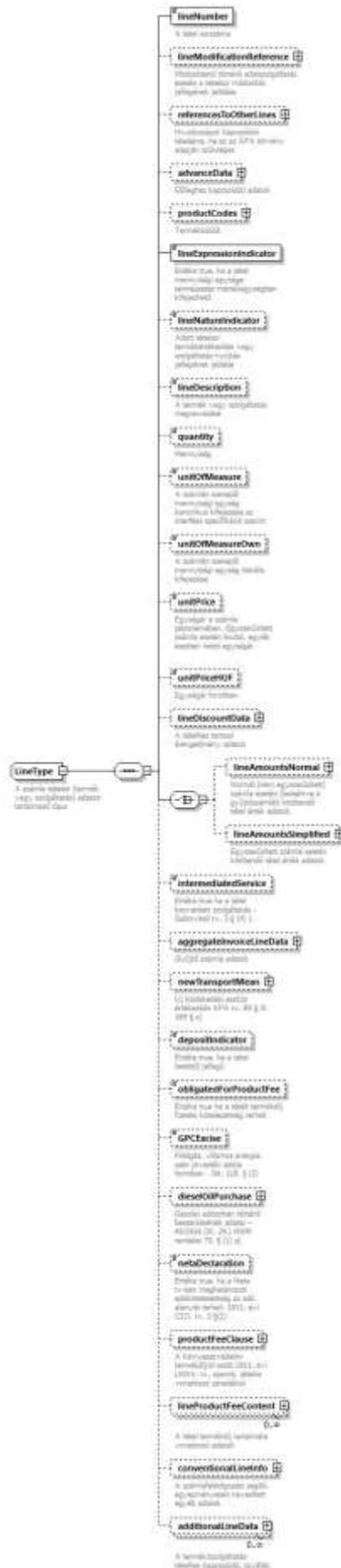
The line element (of type LineType) contains the item information in the invoice/modification. The line element contains the value data of the particular item. The value data change depends on whether the invoice (or the original invoice, if the data report references its modification) is simplified or not.

Tag	Type	Mandatory	Content
lineNumber	xs:nonNegativeInteger	Yes	Item number
lineModificationReference	xs:complexType	No	Indicating the item line level modifications for a modified invoice
referencesToOtherLines	xs:complexType	No	References to related items if required by the VAT Act
advanceData	xs: complexType	No	Data related to advance payment
productCodes	xs:complexType	No	Product codes
lineExpressionIndicator	xs:boolean	Yes	It is set to "true" if the quantity unit of the item can be expressed as a natural unit of measurement.
lineNatureIndicator	xs:string	No	Denotes sale of product or provision of service
lineDescription	xs:string	No	Name of product or service
quantity	xs:decimal	No	Quantity
unitOfMeasure	xs:string	No	Quantity unit
unitOfMeasureOwn	xs:string	No	Own quantity unit
unitPrice	xs:decimal	No	Unit price in the currency of the invoice Gross unit price for a simplified invoice, otherwise net unit price
unitPriceHUF	xs:decimal	No	Unit price in HUF. Gross unit price for a simplified invoice, otherwise net unit price.
lineDiscountData	xs:complexType	No	Discount data for the item
lineAmountsNormal	xs:complexType	No	Line item values to be filled in for a regular (not simplified) invoice (including aggregate invoices)
lineAmountsSimplified	xs:complexType	No	Line item values to be filled in for a simplified invoice
intermediatedService	xs:boolean	No	Set to "true" if indirect service – Section 3 (4) 1 of the Accounting Act
aggregateInvoiceLineData	xs:complexType	No	Aggregate invoice data
newTransportMean	xs:complexType	No	Sale of new means of transport – Sections 89 and 169 o) of the VAT Act

depositIndicator	xs:boolean	No	Set to "true" if the line item is a deposit
obligatedForProductFee	xs:boolean	No	Set to "true" if a product fee obligation applies to the line item
GPCExcise	xs:decimal	No	Excise tax on natural gas, electricity or coal in HUF – Tax Act 118. § (2)
dieselOilPurchase	xs:complexType	No	Data on post-tax purchase of diesel oil – Section 75 (1) a) of Decree No. 45/2016 (XI. 29.) NGM
netaDeclaration	xs:boolean	No	Set to "true" if the tax liability determined in the Public Health Product Tax falls on the taxpayer. Section 3 (2) of Act CIII of 2011
productFeeClause	xs:complexType	No	Clauses in line with Act LXXXV of 2011 on environmental product charges
lineProductFeeContent	xs:complexType	No	Data on product fee content of the item
conventionalLineInfo	xs:complexType	No	Other, conventionally named data, to assist in the processing of invoices
additionalLineData	xs:complexType	No	Additional data in connection with the product/service item

* filling in the tags marked with a blue background, which are optional as per the schema, is mandatory under certain conditions. If this requirement is not met, the system returns a validation error for data reporting, see the section "Error management"

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
lineNumber	LineNumberType	-	-	-
lineModificationReference	LineModificationReferenceType	-	-	-
referencesToOtherLines	ReferencesToOtherLinesType	-	-	-
advanceData	AdvanceDataType	-	-	-
productCodes	ProductCodesType	-	-	-
lineExpressionIndicator	-	-	-	false
lineNatureIndicator	LineNatureIndicatorType	-	PRODUCT SERVICE OTHER	-
lineDescription	SimpleText512NotBlankType	.*[^\s].*	-	-
quantity	QuantityType	-	-	-
unitOfMeasure	UnitOfMeasureType	-	PIECE KILOGRAM TON KWH DAY HOUR MINUTE	-

			MONTH LITRE KILOMETER CUBIC_METER METER LINEAR_METER CARTON PACK OWN	
unitOfMeasureOwn	SimpleText50NotBlankType	.*[^\s].*	-	-
unitPrice	QuantityType	-	-	-
unitPriceHUF	QuantityType	-	-	-
lineDiscountData	DiscountDataType	-	-	-
lineAmountsNormal	LineAmountsNormalType	-	-	-
lineAmountsSimplified	LineAmountsSimplifiedType	-	-	-
intermediatedService	-	-	-	false
aggregateInvoiceLineData	AggregateInvoiceLineDataType	-	-	-
newTransportMean	NewTransportMeanType	-	-	-
depositIndicator	-	-		false
marginSchemeIndicator	MarginSchemeType	-	TRAVEL_AGENCY SECOND_HAND ARTWORK ANTIQUES	-
obligatedForProductFee	-	-	-	false
GPCExcise	MonetaryType	total digits:18, fraction digits:2	-	-
dieselOilPurchase	DieselOilPurchaseType	-	-	-
netaDeclaration	-	-	-	false
productFeeClause	ProductFeeClauseType	-	-	-
lineProductFeeContent	ProductFeeDataType	-	-	-
conventionalLineInfo	ConventionalInvoiceInfoType	-	-	-
additionalLineData	AdditionalDataType	-	-	-

The lineNumber element is an ordinal number assigned for data reporting on each invoice or modification, in a sequence containing no recurrence or omission, starting at 1.

For the proper use of the lineModificationReference element please check the section "**Data reporting of invoice-equivalent documents**".

While the unitPrice element contains monetary values, its type is QuantityType due to the necessary number of decimals. If the six-decimal length allowed by the QuantityType element is insufficient to express the quantity or unit price on the invoice, it is recommended to manage the problem by the appropriate choice of the quantity unit (e.g. '1000 pieces' instead of 'piece').

If the description of the product or service on the invoice is longer than allowed in the lineDescription element, the description must be cropped in the data report at the maximum possible character length.

2.2.3.1.1 lineModificationReference
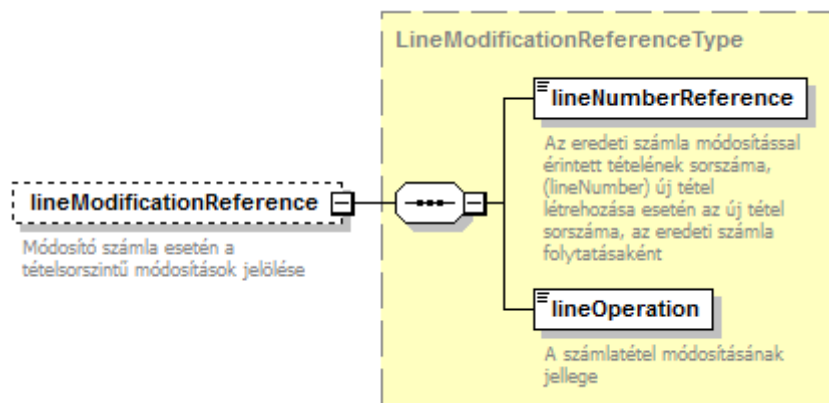
55 55 Structure of the LineModificationReferenceType element

Tag	Type	Mandatory	Content
lineNumberReference	xs:nonNegativeInteger	Yes	The item number of the modified original invoice (lineNumber). The new item number when creating a new line item, continuing the original invoice
lineOperation	xs:string	Yes	Modification type of the invoice item

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
lineNumberReference	LineNumberType	-	-	-
lineOperation	LineOperationType	-	CREATE MODIFY	-

The lineModificationReference element is and can be used for data reporting on a modification. If the value of the lineOperation element is "CREATE", the lineNumberReference element will be the continuation of the ordinal numbering created from the original invoice and all previous modifications thereof. If the value of the lineOperation element is "MODIFY", the lineNumberReference element will contain the line item number (lineNumber) of the item in the original invoice, or the line item number of the new item created in a previous modifying document (the lineNumberReference element of the previous modifying document), which is the subject of the modification.

For data reporting on an amending document, if no data reporting has been or will be performed on the original invoice (modifyWithoutMaster = "true"), it is acceptable to start the ordinal numbering in the lineNumberReference elements from a specific value (even 1), even though they do not refer to the proper line item of the original invoice, which was not subject to mandatory data reporting.

2.2.3.1.2 referencesToOtherLines
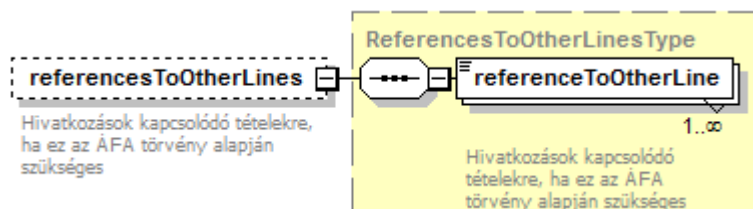
56 *Structure of the ReferencesToOtherLinesType element*

Tag	Type	Mandatory	Content
referenceToOtherLine	xs:nonNegativeInteger	Yes	References to related items if required by the VAT Act

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
referenceToOtherLine	LineNumberType	-	-	-

The purpose of the referenceToOtherLines element: for costs increasing the tax base of an item/items as per Section 70 subsection 1 of the VAT Act, it is advisable to indicate items falling under the same category of tax liability; for instance, the legality of the applied tax rate can be clearly verified. For example, this may apply to the sale of items in the invoice falling under different tax rates when determining the VAT on additional costs (shipment costs). In such cases, it is possible for the taxpayer to divide the shipment costs among the items to be sold via transactions performed by them (on the basis of, for instance, product weight, dimensions or value); but it is also acceptable for the company to aggregate the costs, rather than determining or sharing the costs for individual products, and to classify them as the taxable amount for the transactions in question applying the highest (27%) tax rate.

2.2.3.1.3 advanceData
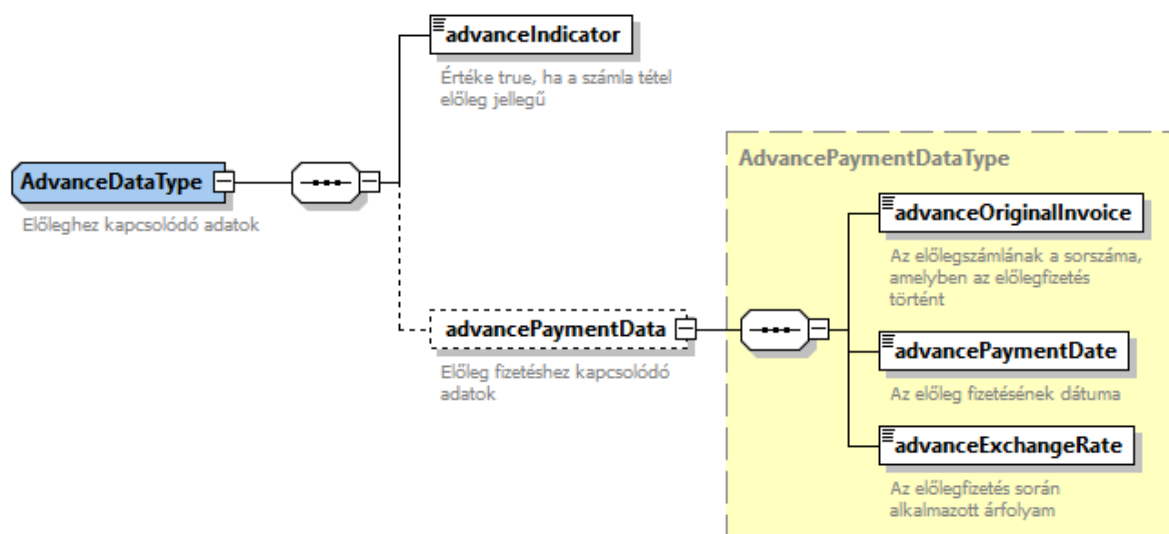
57 The structure of AdvanceDataType

Tag	Type	Mandatory	Content
advanceIndicator	xs:boolean	Yes	Indication that the item is of the advance type
advancePaymentData/advanceOriginalInvoice	xs:string	Yes	The serial number of the advance payment account into which the advance payment was made
advancePaymentData/advancePaymentDate	xs:string	Yes	Payment date of advance payment
advancePaymentData/advanceExchangeRate	xs:string	Yes	Currency rate for advance payment

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
advanceIndicator	-	-	-	false
advancePaymentData/advanceOriginalInvoice	SimpleText50NotBlankType	.*[^\s].*	-	-
advancePaymentData/advancePaymentDate	InvoiceDateType	minInclusive = 2010-01-01 \d{4}-\d{2}-\d{2}	-	-
advancePaymentData/advanceExchangeRate	ExchangeRateType	minExclusive value="0" totalDigits value="14"	-	-

		fractionDigit s value="6"		

For invoice items, it is possible to indicate that a given item is of the advance type. If the value of the advanceIndicator flag is true, i.e. the item is of advance type, it is possible to specify the advancePaymentData node for the final invoice. In this case, all data related to the advance payment must be filled in. If the advance invoice data is provided, only advanceIndicator = true can be used to indicate the advance payment. For a detailed description of the use of the node please see the section "**Data provision of advance invoice, final invoice**".

2.2.3.1.4 productCodes
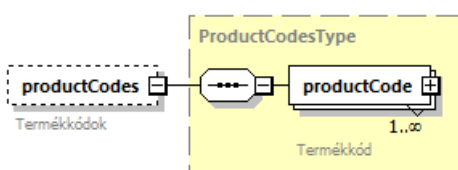
5858 Structure of the ProductCodesType element
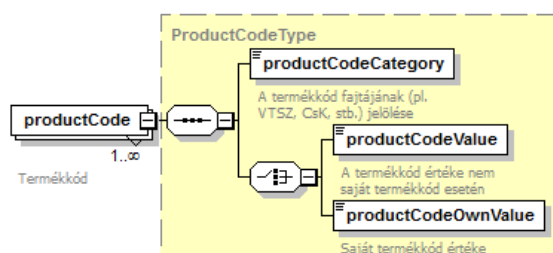
5959 Structure of the ProductCodeType element

Tag	Type	Mandatory	Content
productCode	xs:complexType		Product code
productCodeCategory	xs:string	Yes	Product code value for non-own product codes
productCodeValue	xs:string	Yes	Product code value
productCodeOwnValue	xs:string	Yes	Value of own product code

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
ProductCodeCategory	ProductCodeCategoryType	-	VTSZ SZJ KN AHK CSK KT EJ	-

			TESZOR OWN OTHER	
productCodeValue	ProductCodeValueType	[A-Z0-9]{2.30}	-	-
productCodeOwnValue	SimpleText255NotBlankType	.*[^\s].*	-	-

Several different types of code may be used for a particular item on the invoice by using the ProductCode element multiple times within the ProductCodes element. There is no restriction stating that one type of product code (e.g. VTSZ code, CsK code) may only be used once per item, since in certain cases, listing different values for the same code type may prove necessary.

The type contains a dedicated element for the data report on own product codes. If the productCodeCategory value is OWN, the product code data must be included in the productCodeOwnValue element.

The individual codes (with the exception of the product code) must be indicated using only capital letters and numbers – as per the schema –, even if the codes themselves contain other types of characters (e.g. full stop, hyphen, space etc.).

2.2.3.1.5   lineDiscountData
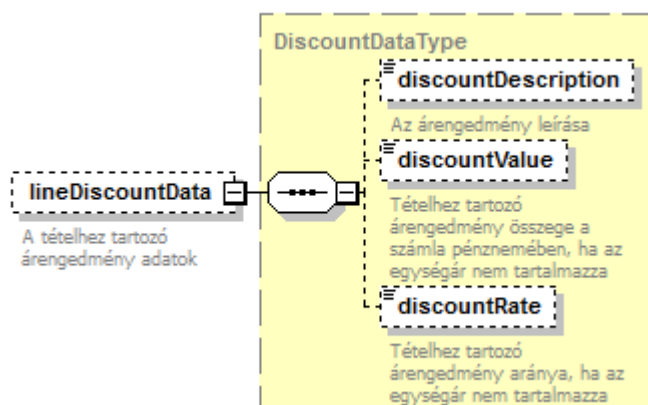
60 *Structure of the DiscountDataType element*

Tag	Type	Mandatory	Content
discountDescription	xs:string	No	Discount description
discountValue	xs:decimal	No	Total discount applied to the item, in the currency of the invoice, unless included in the unit price

discountRate	xs:decimal	No	The item discount rate in percentage points, unless included in the unit price

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
discountDescription	SimpleText255NotBlankType	.*[^\s].*	-	-
discountValue	MonetaryType	total digits:18, fraction digits:2	-	-
discountRate	RateType	minInclusive value="0" maxInclusive value="1" totalDigits value="5" fractionDigits value="4"	-	-

The lineDiscountData element contains the amount of the discount as a positive number. For this, the following equation must hold, assuming that none of the elements regarding the specific line item in the expression is empty:

For regular and aggregate invoice,

$$quantity \cdot unitPrice - discountValue = lineNetAmount$$

In the case of a simplified invoice, the following equivalence must be true,

$$quantity \cdot unitPrice - discountValue = lineGrossAmountSimplified$$

 (If the line item containing the discount is also annulled, discountValue takes on a negative value and the equivalence continues to be true.)

If the seller offers multiple discounts for a single line item (e.g. 3% quantity discount, then a further 2% loyalty discount), the final total discount must be included in the data report as an aggregated figure. No more than one lineDiscountData element may be included in a line item.

If a discount is offered by the seller from the total amount of the invoice as a percentage or fixed amount as opposed to the line item itself, the discount should be included in the data reporting as a separate item, not included in the lineDiscountData element. If the invoice contains several items subject to different VAT rates, then it is necessary to split the discount between the final amounts for the different rates. Therefore, such a discount much be included as several items.

The lineDiscountData element does not serve to indicate a surcharge. As per the taxpayer's choice, the surcharge must either be integrated into the (unit) price of the given invoice item or shown as a separate item on the invoice and in the data report.

2.2.3.2 lineAmountsNormal
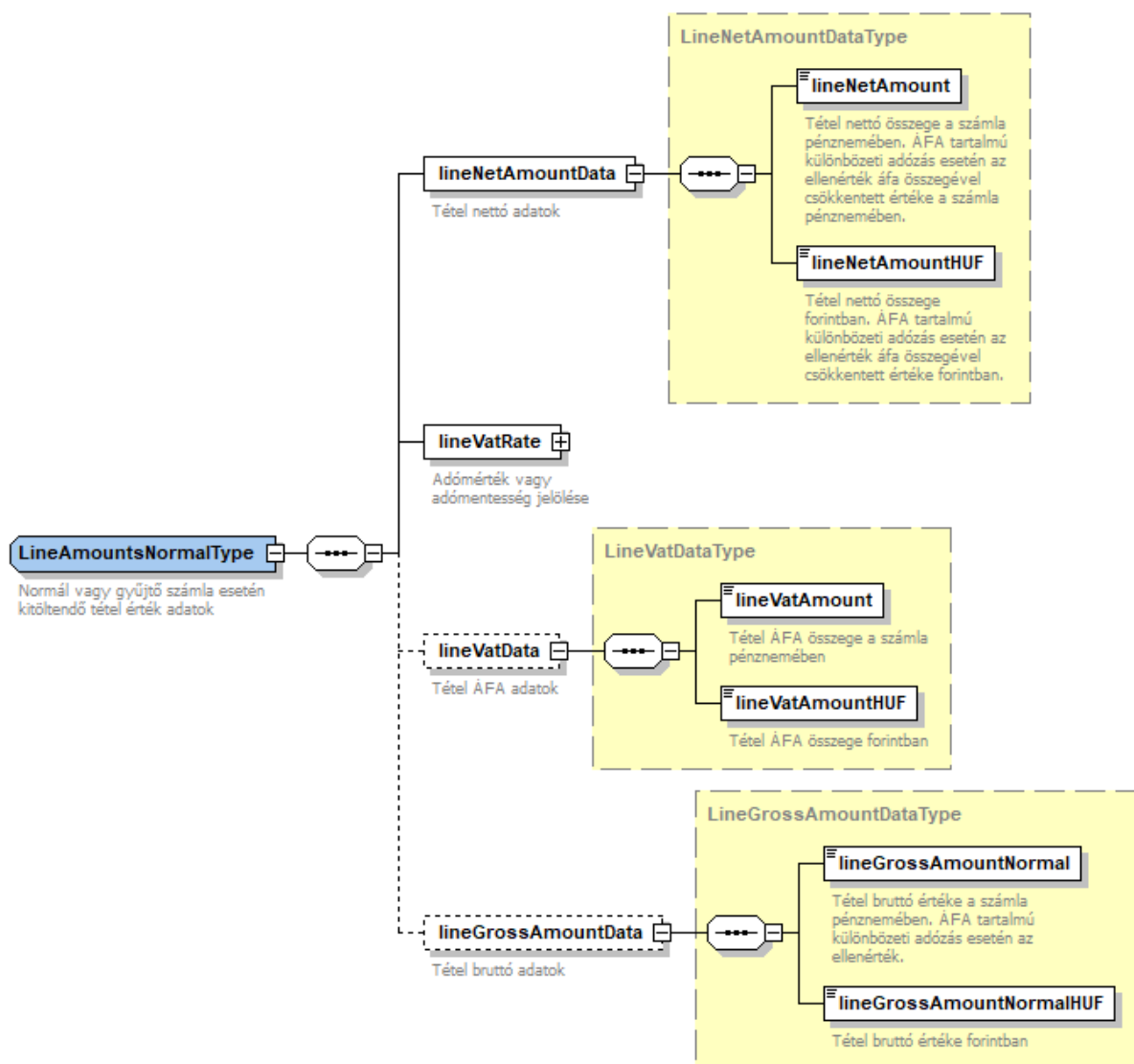
61 *Structure of the LineAmountsNormalType element*

The line element for a "normal" (not simplified) invoice contains exactly 1 lineAmountsNormal element (of type LineAmountsNormalType), and exactly 1 lineAmountSimplified element (of type LineAmountsSimplifiedType). For data reporting pertaining to a modification, the data report need not necessarily contain either element.

The HUF amounts have to be calculated and indicated in the data report based on the exchange rate stipulated in Sections 80 and 80/A of the VAT Act, as required in Section 4 of Annex 10 of the same act.

Tag	Type	Mandatory	Content
lineNetAmountData/lineNetAmount	xs:decimal	Yes	Net price of the item in the currency of the invoice, or the

			consideration in the case of margin scheme taxation
lineNetAmountData/ lineNetAmountHUF	xs:decimal	Yes	Item net total in HUF
lineVatRate	xs:complexType	Yes	Indicates tax rate or tax exemption
lineVatData/lineVatAmount	xs:decimal	No	VAT content of the item in the currency of the invoice
lineVatData/lineVatAmountHUF	xs:decimal	No	VAT total of the item in HUF
lineGrossAmountData/lineGrossAmountNormal	xs:decimal	No	Gross value of the item in the currency of the invoice
lineGrossAmountData/lineGrossAmountNormalHUF	xs:decimal	No	Gross value of item in HUF

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
lineNetAmountData/lineNetAmount	MonetaryType	total digits:18, fraction digits:2	-	-
lineNetAmountData/ lineNetAmountHUF	MonetaryType	total digits:18, fraction digits:2	-	-
lineVatRate	VatRateType	-	-	-
lineVatData/lineVatAmount	MonetaryType	total digits:18, fraction digits:2	-	-
lineVatData/lineVatAmountHUF	MonetaryType	total digits:18, fraction digits:2	-	-
lineGrossAmountData/lineGrossAmountNormal	MonetaryType	total digits:18, fraction digits:2	-	-
lineGrossAmountData/lineGrossAmountNormalHUF	MonetaryType	total digits:18, fraction digits:2	-	-

2.2.3.2.1 vatRate
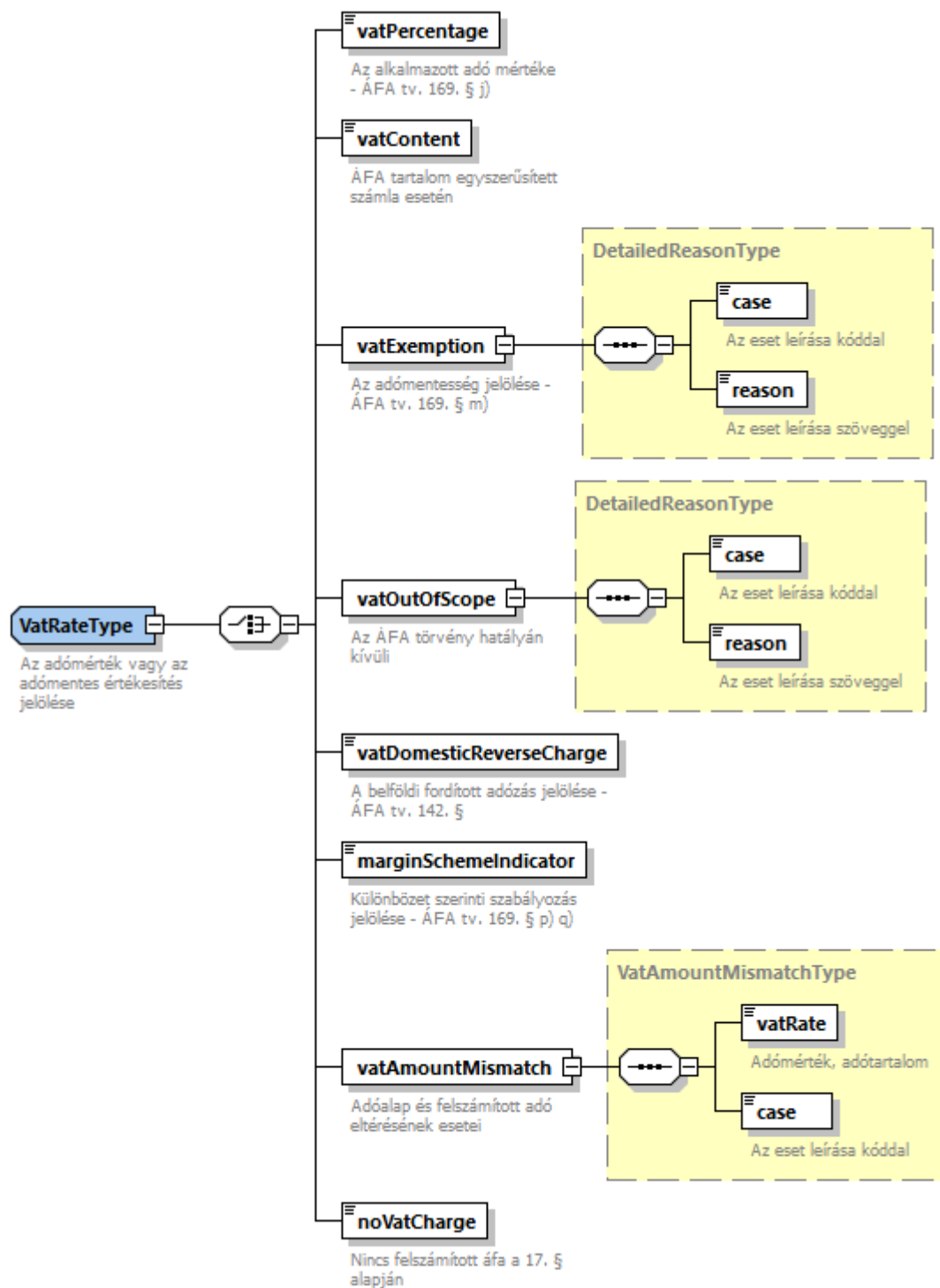
6262 Structure of the VatRateType element

This type can be used to indicate the VAT rate of an item in the invoice or for summary invoices (invoiceSummary), or to indicate that the item does not include VAT, for whatever reason. **The**

VatRateType type elements may contain exactly one of the following eight elements, in the order shown.

- VAT amount
- VAT content (for simplified invoice)
- indicate VAT exemption
- Outside the scope of the VAT Act
- inland reverse charge
- margin scheme taxation
- special cases where the VAT base and the charged tax are not based on from each other
- no VAT charged as per Section 17

Tag	Type	Mandatory	Content
vatPercentage	xs:decimal	Yes	Applied VAT rate - Section 169 j) of the VAT Act
vatContent	xs:decimal	Yes	VAT content for simplified invoice
vatExemption/case	xs:string	Yes	Code indicating tax exemption
vatExemption/reason	xs:string	Yes	Reasoning for tax exemption
vatOutOfScope/case	xs:string	Yes	Code indicating exemption from the scope of the VAT Act
vatOutOfScope/reason	xs:string	Yes	Reasoning for exemption from the scope of the VAT Act
vatDomesticReverseCharge	xs:boolean	Yes	Indicates domestic reverse charging - Section 142 of the VAT Act
marginSchemeIndicator	xs:complexType	Yes	Indication of a margin scheme regulation – Section 169 p) q) of the VAT Act
vatAmountMismatch/vatRate	xs:complexType	Yes	Tax rate, tax content
vatAmountMismatch/case	xs:string	Yes	Code for the difference between the tax base and the charged tax
noVatCharge	xs:boolean	Yes	No VAT charged as per Section 17

* the value set of tags marked with a blue background is examined by validation. If an invalid value is provided, the system returns a validation error for data reporting, see: section "Error management"

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
vatPercentage	RateType	minInclusive value="0" maxInclusive value="1" totalDigits value="5"	-	-

		fractionDigits value="4"		
vatContent	RateType	minInclusive value="0" maxInclusive value="1" totalDigits value="5" fractionDigits value="4"	-	-
vatExemption/case	SimpleText50NotBlankType	.*[^\s].*	-	-
vatExemption/reason	SimpleText200NotBlankType	-	-	-
vatOutOfScope/case	SimpleText50NotBlankType	-	-	-
vatOutOfScope/reason	SimpleText200NotBlankType	-	-	-
vatDomesticReverseCharge	-	-	-	false
marginSchemeIndicator	MarginSchemeType	-	TRAVEL_AGEN CY SECOND_HAND ARTWORK ANTIQUES	-
vatAmountMismatch/vatRat e	RateType	minInclusive value="0" maxInclusive value="1" totalDigits value="5" fractionDigits value="4"	-	-
vatAmountMismatch/case	SimpleText50NotBlankType	-	-	-
noVatCharge	-	-	-	false

The vatAmountMismatch/vatRate value is considered in a separate business validation. The currently accepted value set: 0.27, 0.18, 0.05, 0.2126, 0.1525, 0.0426.

For boolean type markers (vatDomesticReverseCharge and noVatCharge) the fixed:true attribute is forced on a schema level, because from a business point of view, it only makes sense to indicate that item here.

The cases vatExemption, vatOutOfScope and vatAmountMismatch (the various possible discrepancies between the tax base and the charged tax) are subdivided, and the case can be defined in a case field to provide a more accurate identification. The values of the vatExemption/case, vatOutOfScope/case, and vatAmountMismatch/case fields are checked by separate business validation processes. Possible values:

Type	Value set	Meaning:
vatExemption/case	AAM	Personal tax exemption
	TAM	"tax-exempt activity" or tax-exempt due to being in public interest or special in nature

	KBAET	intra-Community exempt supply, without new means of transport
	KBAUK	tax-exempt, intra-Community sales of new means of transport
	EAM	tax-exempt, extra-Community sales of goods (export of goods to a non-EU country)
	NAM	tax-exempt on other grounds related to international transactions
	UNKNOWN	it can be used for modifying and cancelling invoices referencing a pre-3.0 invoice or without any background, if the value cannot be established.
vatOutOfScope/case	ATK	Outside the scope of VAT
	EUFAD37	Based on section 37 of the VAT Act, a reverse charge transaction carried out in another Member State
	EUFADE	Reverse charge transaction carried out in another Member State, not subject to Section 37 of the VAT Act
	EUE	Non-reverse charge transaction performed in another Member State
	HO	Transaction in a third country
	UNKNOWN	it can be used for modifying and cancelling invoices referencing a pre-3.0 invoice or without any

		background, if the value cannot be established.
vatAmountMismatch/case	REFUNDABLE_VAT	VAT was charged under Section 11 or 14, and VAT must be refunded by the recipient of the invoice
	NONREFUNDABLE_VAT	VAT was charged under Section 11 or 14, and VAT does not need to be refunded by the recipient of the invoice
	UNKNOWN	it can be used for modifying and cancelling invoices referencing a pre-3.0 invoice or without any background, if the value cannot be established.

Because the normal and simplified tax rates are used in a complex type, a business validation process ensures that the vatContent field cannot be filled in for a normal invoice, and the vatPercentage field cannot be filled in for a simplified invoice.

There is a separate business validation for UNKNOWN value in case fields so that it can only be entered for referenced invoices without a history or of a version lower than 3.0. Case fields should be associated with the set of values of the invoicing programme. The table below provides help to the association:

Case value	VAT Act reference	Explanation, example for use
AAM	Section XIII	The issuer of the invoice has opted for personal tax exemption and is eligible to enforce exemption (and has not reached the legal limit)
TAM	Section 85, Section 86	The transaction is exempt from tax due to being in public interest or otherwise special in nature. (For example tax-exempt training, healthcare service).
KBAET	Section 89	Supply of goods or services to a taxable person registered in another Community Member State if the goods have been shipped to that Member State. The sale of new means of transport is a KBAUK case. The EU VAT number of the customer has to be included in the invoice as a mandatory element.
KBAUK	89. § (2)	The sale of new means of transport to another Member State. The customer is not necessary a taxable person, they could be a private individual,

		therefore the invoice does not necessarily include an EU VAT number. The data listed in Point 25 of Section 259 of the VAT Act are mandatory elements in an invoice.
EAM	Sections 98 to 109	Supply of goods or services performed domestically, as a result of which the goods or services leave for a non-EU country (export of goods or services). Pursuant to the law this includes special cases such as tax-exemption enforced under an international agreement.
NAM	Sections 110 to 118	These cases are listed by the law. Including tax-exempt brokerage activity, tax exemption of certain activities related to the international marketing of goods or services.
ATK	Sections 2 and 3	No invoice needs to be issued for transactions all outside the scope, but invoices may contain items that are outside the scope. These may include, for example, indemnity payments, public authority activities, public donations etc.
EUFAD37	37. § (1)	Services provided to taxable persons, the place of performance of which is defined by the residence of the customer for business purposes (or its domicile, habitual residence) pursuant to Section 37(1) of the VAT Act, which is in another Member State. The EU VAT number of the customer shall be included in the invoice as a mandatory element. These services shall be included in the summary.
EUFADE		Transactions completed in another Member State and are subject to reverse charge mechanism, where the place of performance is not established based on the case of the EUFAD37. In case of transactions within this case, the Hungarian taxpayer has no registration obligation in the Member State of the place of performance. An example is the sale of goods installed or assembled in another Member State.
EUE		A transaction completed in another EU Member State with respect to which the purchaser of the goods or services from another Member State has a tax liability (it is not included in the EUFAD37 and the EUFADE cases).
HO		Transaction with a place of performance, as defined in the VAT Act, is outside the EU. For example services performed in non-EU countries, services related to real estates located in non-EU countries.
REFUNDABLE_VAT	Sections 11 and 14	Supply of goods or services to a person other than a taxable person, that is deemed under the VAT

		Act as performed for a consideration, and thus creates tax liability for the taxable person. For example, a hotel service, otherwise available for a consideration, provided by the taxable person to the managing director and family free of charge while their own home is being renovated.
NONREFUNDABLE_VAT	Sections 11 and 14	The case under this heading is different from the previous one in that the person receiving the goods or services free of charge agrees in a contract or agreement concluded with the taxable person (which can be an oral agreement or contract) to reimburse the taxable person for the tax reported as VAT payable for the goods or services supplied free of charge.

Possible values for marginSchemeIndicator:

Entitlement	Value of the MarginSchemeType element
Travel agencies	TRAVEL_AGENCY
Second-hand items	SECOND_HAND
Artwork	ARTWORK
Collectible items and antiques	ANTIQUES

2.2.3.3 LineAmountsSimplified
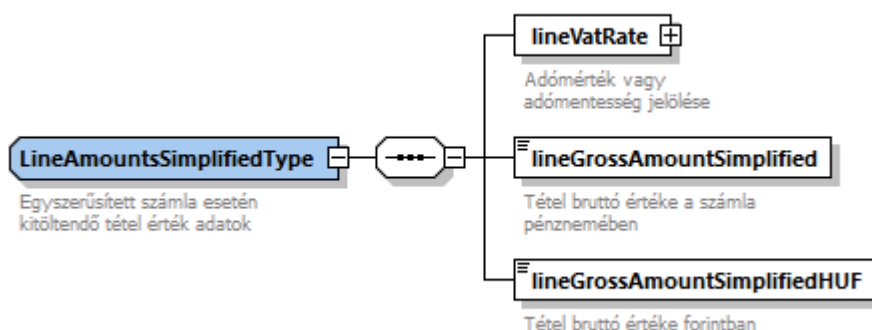
63 *Structure of the LineAmountsSimplifiedType element*

Tag	Type	Mandatory	Content

lineVatRate	xs:complexType	Yes	Indication of VAT content or other VAT case
lineGrossAmountSimplified	xs:decimal	Yes	Gross value of the item in the currency of the invoice
lineGrossAmountSimplifiedHUF	xs:decimal	Yes	Gross value of item in HUF

* the value set of tags marked with a blue background is examined by validation. If an invalid value is provided, the system returns a validation error for data reporting, see: section "Error management"

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
lineVatRate	VatRateType	-	-	-
lineGrossAmountSimplified	MonetaryType	total digits:18, fraction digits:2	-	-
lineGrossAmountSimplifiedHUF	MonetaryType	total digits:18, fraction digits:2	-	-

For the lineVatRate values that can be specified for a simplified invoice, see the previous section.

2.2.3.4 aggregateInvoiceLineData
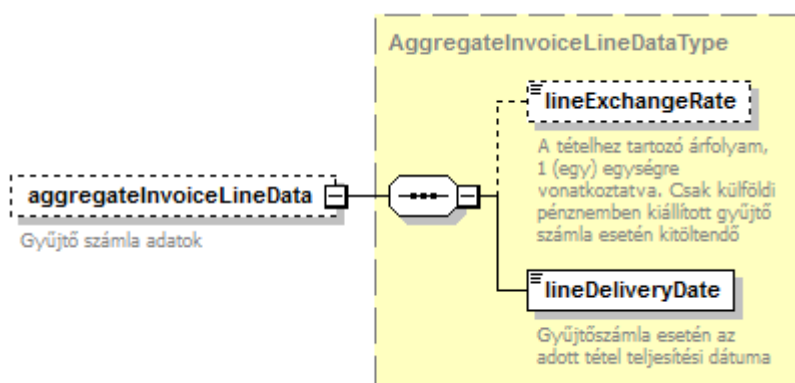
64 *Structure of the AggregateInvoiceLineDataType element*

Tag	Type	Mandatory	Content
lineExchangeRate	xs:decimal	No	The exchange rate of the item, applied to 1 (one) unit To be filled only for an aggregate invoice denominated in foreign currency
lineDeliveryDate	xs:date	Yes	Payment date of a particular item in an aggregate invoice

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
lineExchangeRate	ExchangeRateType	minExclusive value="0"	-	-

		totalDigits value="14" fractionDigits value="6"		
lineDeliveryDate	InvoiceDateType	\d{4}-\d{2}-\d{2} minInclusive = 2010-01-01	-	-

For data reporting on an aggregate invoice or its modification, the payment date must be entered for the item, as well as its exchange rate, for invoices not denominated in HUF.

2.2.3.5 newTransportMean
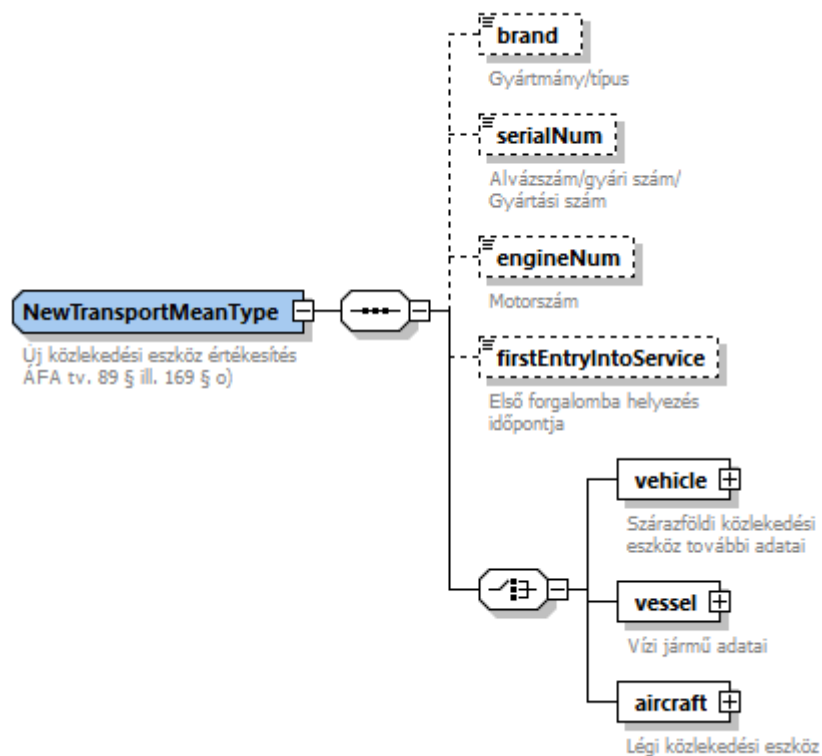
65 *Structure of the NewTransportMeanType element*

The NewTransportMeans element of the Line element contains data related to new transport vehicles.

Tag	Type	Mandatory	Content
brand	xs:string	No	Brand/model
serialNum	xs:string	No	Chassis number/manufacturer's number/serial number
engineNum	xs:string	No	Engine number
firstEntryIntoService	xs:date	No	Date and time of first entry into service

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
brand	SimpleText50NotBlankType	.*[^\s].*	-	-
serialNum	SimpleText255NotBlankType	.*[^\s].*	-	-
engineNum	SimpleText255NotBlankType	.*[^\s].*	-	-
firstEntryIntoService	InvocieDateType	\d{4}-\d{2}-\d{2} minInclusive = 2010-01-01	-	-

If the invoice item is the sale of a new means of transport in a different Member State, the following data shall be included in the invoice, as per the VAT Act. Note: these are not sold to domestic taxpayers and are VAT-exempt; therefore, for such invoices, the data reporting obligation shall be effective from 4 January 2021.

The content of NewTransportMeans element depends on whether the invoice item is a vehicle, a vessel or an aircraft. Precisely one of these can be selected.

2.2.3.5.1 vehicle
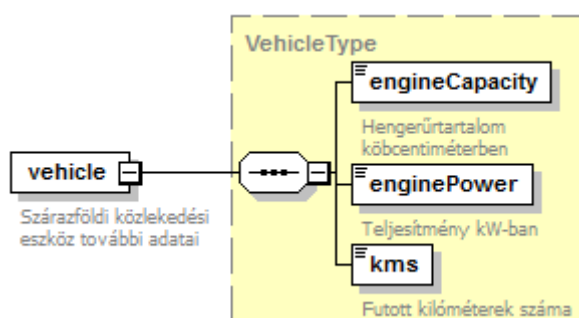
66 *66 Structure of the VehicleType element*

Tag	Type	Mandatory	Content
engineCapacity	xs:decimal	Yes	Engine cylinder capacity in cubic centimetres
enginePower	xs:decimal	Yes	Engine power in kW
kms	xs:decimal	Yes	Number of kilometres travelled

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
engineCapacity	QuantityType	totalDigits value="22" fractionDigits value="6"	-	-
enginePower	QuantityType	totalDigits value="22" fractionDigits value="6"	-	-
kms	QuantityType	totalDigits value="22" fractionDigits value="6"	-	-

2.2.3.5.2 vessel
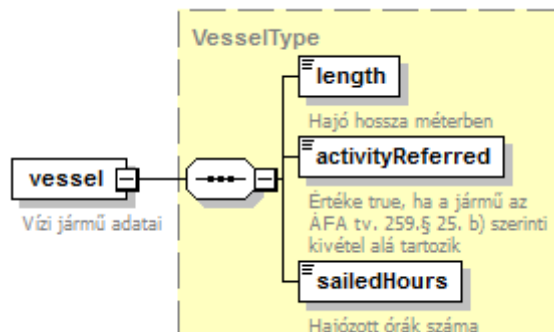
67 Structure of the VesselType element

Tag	Type	Mandatory	Content
length	xs:decimal	Yes	Length of vessel in metres
activityReferred	xs:boolean	Yes	Set to "true" if the vessel falls under the exceptions as per Section 259(25)b) of the VAT Act
sailedHours	xs:decimal	Yes	Number of hours sailed

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
length	QuantityType	totalDigits value="22" fractionDigits value="6"	-	-
activityReferred	-	totalDigits value="22" fractionDigits value="6"	-	false
sailedHours	QuantityType	totalDigits value="22" fractionDigits value="6"	-	-

2.2.3.5.3 aircraft
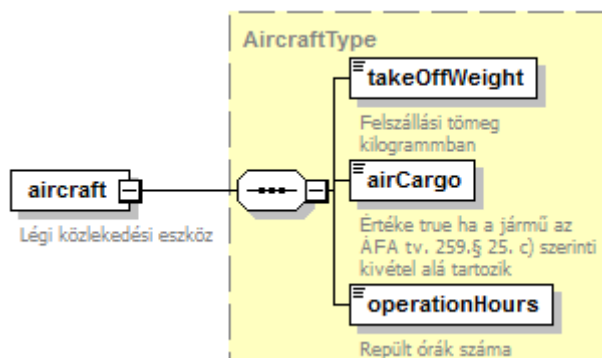
68 Structure of the AircraftType element

Tag	Type	Mandatory	Content
takeOffWeight	xs:decimal	Yes	Take-off weight in kilograms
airCargo	xs:boolean	Yes	Set to "true" if the vessel falls under the exceptions as per Section 259(25)c) of the VAT Act
operationHours	xs:decimal	Yes	Number of operation hours

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
takeOffWeight	QuantityType	totalDigits value="22" fractionDigits value="6"	-	-
airCargo	boolean	totalDigits value="22" fractionDigits value="6"	-	false
operationHours	QuantityType	totalDigits value="22" fractionDigits value="6"	-	-

2.2.3.6 dieselOilPurchase
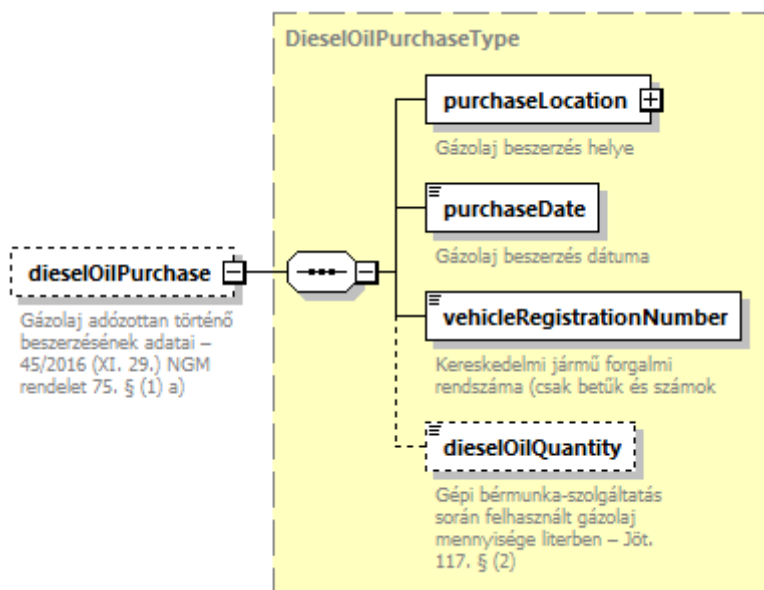
69 *Structure of the DieselOilPurchaseType element*

On the line item, it is possible to indicate the data on the after-tax purchase of diesel oil on the invoice in accordance with Section 75 (1) a) of the 45/2016 (XI. 29.) NGM decree.

Tag	Type	Mandatory	Content
purchaseLocation	xs:complexType	Yes	Purchase location of diesel oil
purchaseDate	xs:date	Yes	Purchase date of diesel oil
vehicleRegistrationNumber	xs:string	Yes	License plate number of commercial vehicle (letters and numbers only)

dieselOilQuantity	xs:decimal	No	Quantity of diesel oil used during machine contract work, in litres – Excise Tax Act 117. § (2)

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
purchaseLocation	SimpleAddressType	-	-	-
purchaseDate	InvoiceDateType	\d{4}-\d{2}-\d{2} minInclusive = 2010-01-01	-	-
vehicleRegistrationNumber	PlateNumberType	[A-Z0-9]{2.30}	-	-
dieselOilQuantity	QuantityType	totalDigits value="22" fractionDigits value="6"	-	-

2.2.3.6.1 purchaseLocation

purchaseLocation is typed as simpleAddressType. For details, see chapter "Address data in the schema".

2.2.3.7 productFeeClause
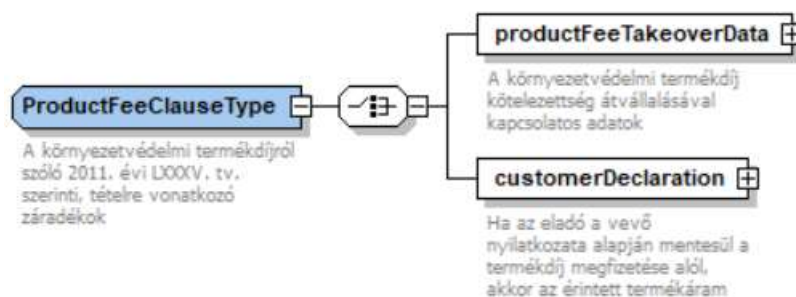
70 *Structure of the ProductFeeClauseType element*

The schema enables the inclusion of clauses mandated by the Product Charges Act. The Product Charges Act defines the following two, mutually exclusive cases for a particular item:

A. Assumption of environmental product obligation
B. The seller is exempted from payment of the product charges on the basis of the buyer's statement

Therefore the ProductFeeClause element contains exactly one of either the productTakeoverData or the customerDeclaration elements.

Tag	Type	Mandatory	Content

| productFeeTakeoverData | xs:complexType | Yes | Data related to the assumption of environmental product obligation |
| customerDeclaration | xs:complexType | Yes | If the seller is exempt from product charges on the basis of the buyer's declaration, then the product stream in question |

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
productFeeTakeoverData	ProductFeeTakeoverDataType	-	-	-
customerDeclaration	CustomerDeclarationType	-	-	-

2.2.3.7.1 productFeeTakeoverData
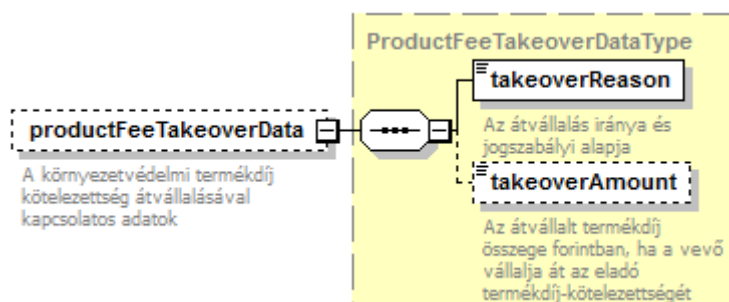
71 Structure of the ProductFeeTakeoverDataType element

Tag	Type	Mandat ory	Content
takeoverReason	xs:string	Yes	Direction and legal basis of assumption
takeoverAmount	xs:decimal	No	The amount of product charges taken over in HUF, provided that the buyer takes over the seller's liability for product charges

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
takeoverReason	TakeoverType	-	01 02_aa 02_ab 02_b 02_c 02_d 02_ea 02_eb 02_fa	-

				02_fb 02_ga 02_gb	
takeoverAmount	MonetaryType	total digits:18, fraction digits:2	-	-

The description of TakeOverType can be found in the section "**Description of types in business content**".

2.2.3.7.2   customerDeclaration
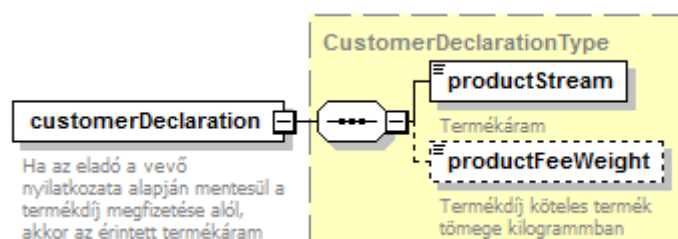
72 *Structure of the CustomerDeclarationType element*

Tag	Type	Mandatory	Content
productStream	xs:string	Yes	Product stream
productWeight	xs:decimal	No	Weight of the product, in kilograms, to which product charges apply

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
productStream	ProductStreamType	-	BATTERY PACKAGING OTHER_PETROL ELECTRONIC TIRE COMMERCIAL PLASTIC OTHER_CHEMICAL PAPER	-
productWeight	QuantityType	totalDigits value="22" fractionDigits value="6"	-	-

The description of the ProductStreamType can be found in the section "**Description of types in business content**".

2.2.3.8   lineProductFeeContent
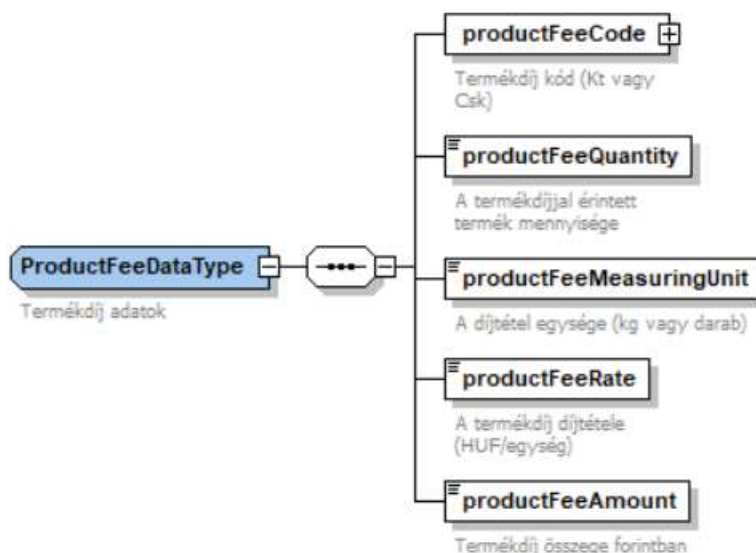
73 *Structure of the ProductFeeDataType element*

If it is included in the invoice, the schema enables the display of the product fee content for the item in the lineProductFeeContent element.

Tag	Type	Mandatory	Content
productFeeCode	xs:complexType	Yes	Product charge code (Kt or Csk)
productFeeQuantity	xs:decimal	Yes	Quantity of product to which product charges are applied
productFeeMeasuringUnit	xs:string	Yes	Unit type or product (kg or piece)
productFeeRate	xs:decimal	Yes	Rate of product fee (HUF/unit)
productFeeAmount	xs:decimal	Yes	Product fee total in HUF

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
productFeeCode	ProductCodeType	-	-	-
productFeeQuantity	QuantityType	-	-	-
productFeeMeasuringUnit	ProductFeeMeasuringUnitType	-	DARAB, KG	-
productFeeRate	MonetaryType	total digits:18, fraction digits:2	-	-
productFeeAmount	MonetaryType	total digits:18, fraction digits:2		

If the product code is included in the ProductFeeDataType, only the Csk or Kt codes can be selected.

2.2.3.8.1 productFeeCode

The element is of type ProductCodeType. See a detailed definition of this type in the "productCodes" section. If it is applied as a productFeeCode, the productCodeOwnValue branch cannot be used.

2.2.3.9 conventionalLineInfo

To display additional data pertaining to the item line of the invoice. For details, see the **Inclusion of conventional, named data** section.

2.2.3.10 additionalLineData

To display additional data pertaining to the item line of the invoice. For details see the **Displaying undefined data** section.

2.2.4 productFeeSummary
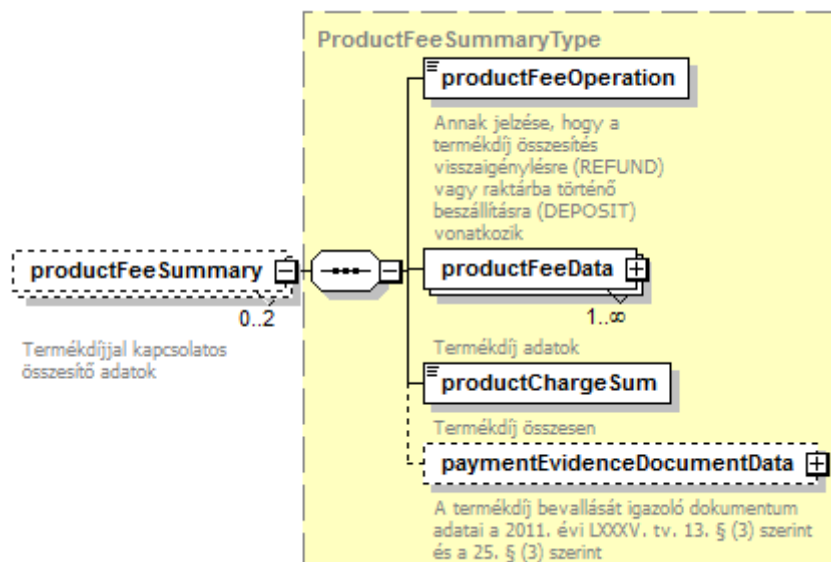
74 Structure of the ProductFeeSummaryType element

The schema allows for indicating the clauses under the Environmental Product Charges Act which must be included in the invoice for refunding product charges, as well as those for product charges on delivery to warehouse.

The productFeeSummary element (of type ProductFeeSummaryType) contains exactly one refundData (of type RefundDataType) element in the case of a product fee refund.

Tag	Type	Mandatory	Content
productFeeOperation	xs:string	Yes	Indication whether the product charge sum is for refunding (REFUND) or for deposition to storage (DEPOSIT)
productFeeData	xs:complexType	Yes	Product charge data
ProductChargeSum	xs:decimal	Yes	Product charge sum total

PaymentEvidenceDocumentData	xs:complexType	No	Data of the document certifying the payment of product charges, as per Sections 13 (3) and 25 (3) of Act LXXXV of 2011

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
productFeeOperation	ProductFeeOperationType	-	REFUND DEPOSIT	-
productFeeData	ProductFeeDataType	-		
ProductChargeSum	MonetaryType	total digits:18, fraction digits:2		
PaymentEvidenceDocumentData	PaymentEvidenceDocumentDataType	-	-	-

2.2.4.1.1 productFeedata

The type is identical to the one defined in the section "**lineProductFeeContent**"

2.2.4.1.2 paymentEvidenceDocumentData
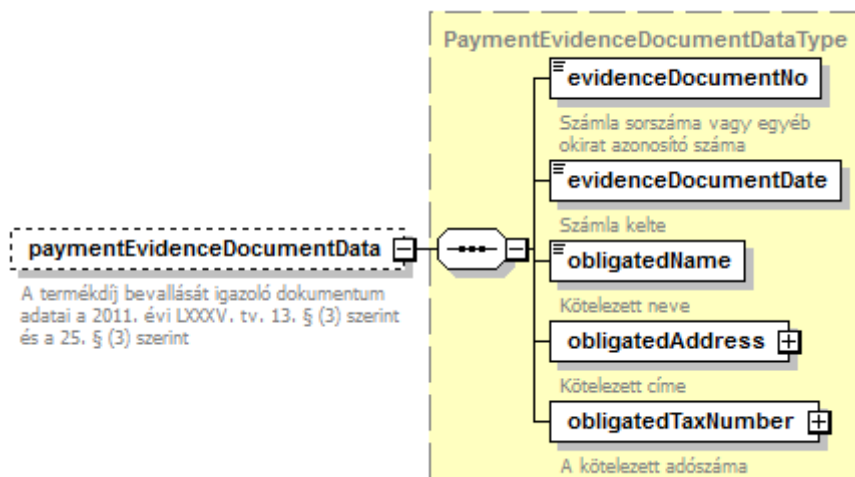
75 *Structure of the PaymentEvidenceDocumentDataType element*

The data report obligation does not necessarily apply to the document (invoice or other document) referred to in the paymentEvidenceDocumentData element; and it is usually not the same taxpayer who reporting the relevant data as the one including the refund clauses on the invoice.

Tag	Type	Mandatory	Content
evidenceDocumentNo	xs:string	Yes	Identification number of invoice or other official document
evidenceDocumentDate	xs:date	Yes	Date of invoice

obligatedName	xs:string	Yes	Name of obligated entity
obligatedAddress	xs:complexType	Yes	Address of obligor
obligatedTaxNumber	xs:complexType	Yes	Tax number of obligated entity

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
evidenceDocumentNo	SimpleText50NotBlankType	.*[^\s].*	-	-
evidenceDocumentDate	InvoiceDateType	\d{4}-\d{2}-\d{2} minInclusive = 2010-01-01	-	-
obligatedName	SimpleText255NotBlankType	.*[^\s].*	-	-
obligatedAddress	AddressType	-	-	-
obligatedTaxNumber	TaxNumberType	-	-	-

2.2.4.1.2.1 obligatedAddress

For the description of the Addresstype type, see the section "**Address data in the schema**".

2.2.5 invoiceSummary
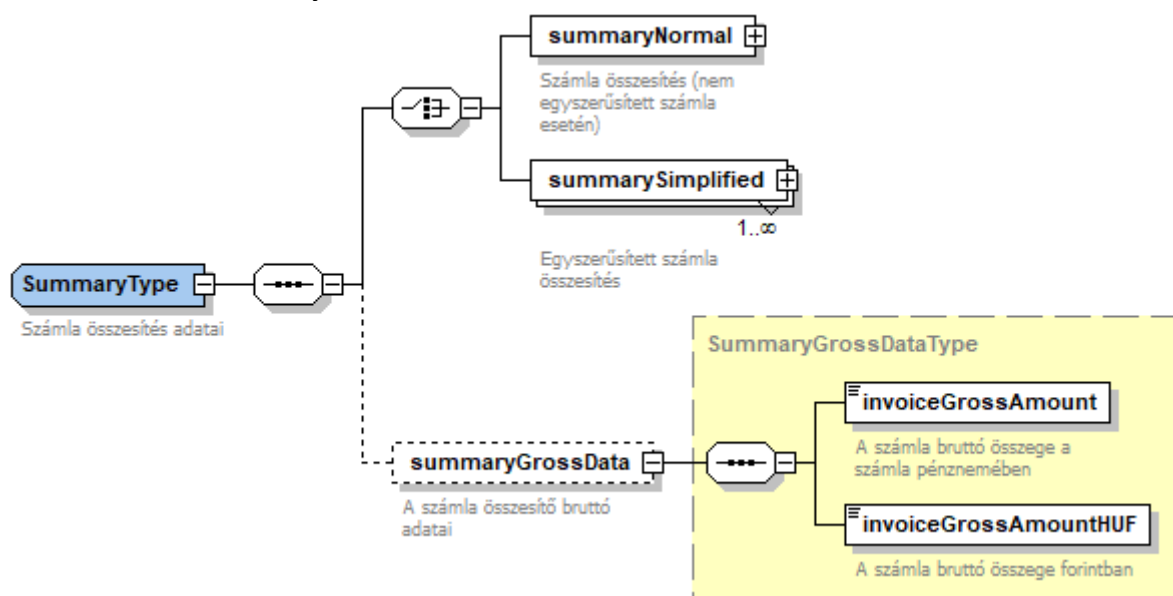
76 Structure of the SummaryType element

The data summary of the invoice is contained by the invoiceSummary element (type: SummaryType). The data content of the invoiceSummary element depends on whether the invoice (or modified original invoice) is non-simplified (normal or summary) invoice or a simplified invoice.

The invoiceSummary element contains the summaryNormal element for non-simplified invoices, and the summarySimplified element for simplified invoices.

For data reporting on an invoice modification, the invoiceSummary element includes the effect of the modification document on the collated data of the original invoice.

Tag	Type	Mandatory	Content
summaryGrossData/invoiceGrossAmount	xs:decimal	No	Gross total in the currency of the invoice
summaryGrossData/invoiceGrossAmountHUF	xs:decimal	No	Invoice gross amount in HUF

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
summaryGrossData/invoiceGrossAmount	MonetaryType	total digits:18, fraction digits:2	-	-
summaryGrossData/invoiceGrossAmountHUF	MonetaryType	total digits:18, fraction digits:2	-	-

2.2.5.1 summaryNormal
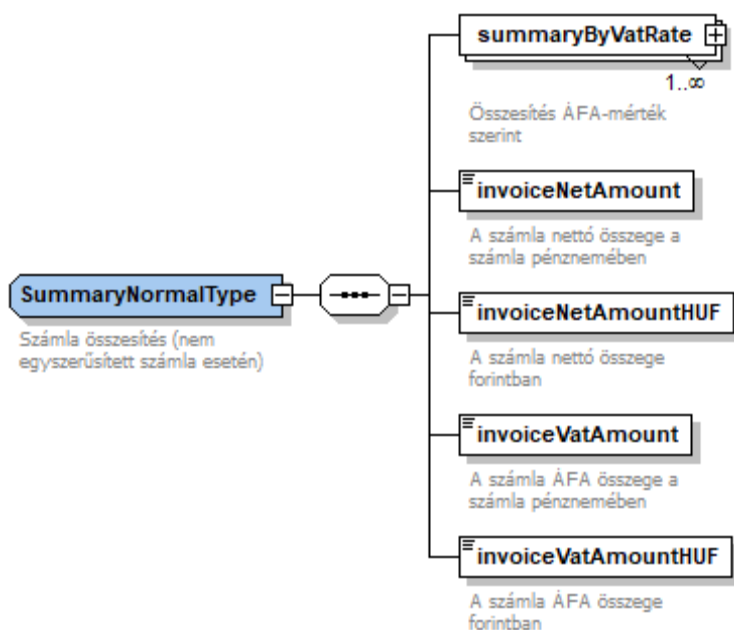
77 Structure of the SummaryNormalType element

Tag	Type	Mandatory	Content
summaryByVatRate	xs:complexType	Yes	Summary by VAT rate
invoiceNetAmount	xs:decimal	Yes	Net total of the invoice in the currency of the invoice
invoiceNetAmountHUF	xs:decimal	Yes	Invoice net amount in HUF
invoiceVatAmount	xs:decimal	Yes	Total VAT for the invoice in the currency of the invoice
invoiceVatAmountHUF	xs:decimal	Yes	Total VAT for the invoice in HUF

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
summaryByVatRate	SummaryByVatRateType	-	-	-
invoiceNetAmount	MonetaryType	total digits:18, fraction digits:2	-	-
invoiceNetAmountHUF	MonetaryType	total digits:18, fraction digits:2	-	-
invoiceVatAmount	MonetaryType	total digits:18, fraction digits:2	-	-
invoiceVatAmountHUF	MonetaryType	total digits:18, fraction digits:2	-	-

2.2.5.1.1   summaryByVatRate
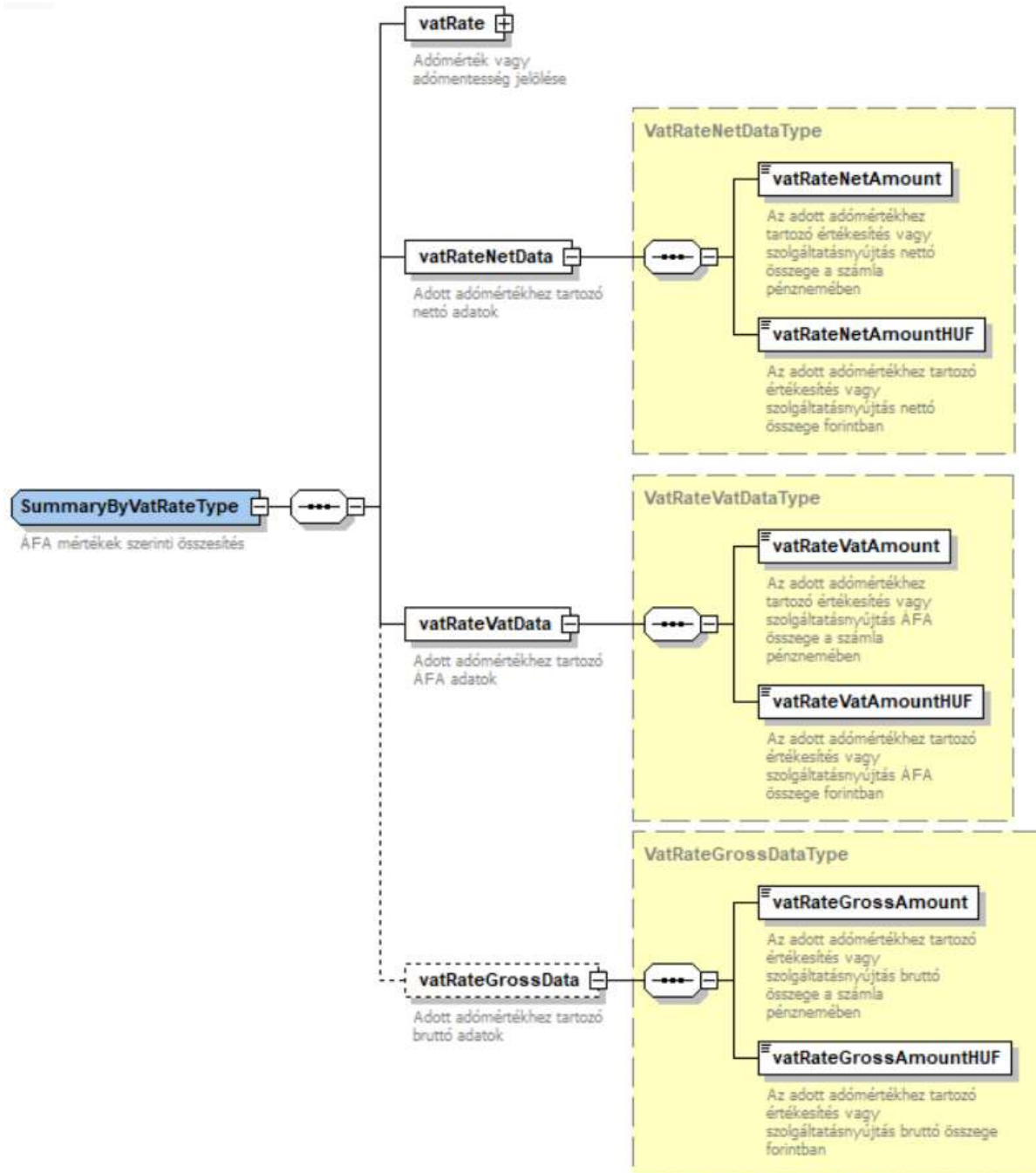
7878 Structure of the SummaryByVatRate element

Tag	Type	Mandat ory	Content
vatRate	xs:complexType	Yes	Indicates tax rate or tax exemption
vatRateNetData/vatRateNetAmoun t	xs:decimal	Yes	The net amount of a product sale or service provision for a

			given tax rate in the currency of the invoice
vatRateNetData/vatRateNetAmountHUF	xs:decimal	Yes	The net amount of a product sale or service provision for a given tax rate in HUF
vatRateVatData/vatRateVatAmount	xs:decimal	Yes	Amount of VAT for a product sale or service provision for a given tax rate in the currency of the invoice
vatRateVatData/vatRateVatAmountHUF	xs:decimal	Yes	VAT rate for a product sale or service provision for a given tax rate in HUF
vatRateGrossData/vatRateGrossAmount	xs:decimal	No	The gross amount for a product sale or service provision for a given tax rate in the currency of the invoice
vatRateGrossData/vatRateGrossAmountHUF	xs:decimal	No	The gross amount for a product sale or service provision for a given tax rate in HUF

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
vatRate	VatRateType	-	-	-
vatRateNetData/vatRateNetAmount	MonetaryType	total digits:18, fraction digits:285	-	-
vatRateNetData/vatRateNetAmountHUF	MonetaryType	total digits:18, fraction digits:285	-	-
vatRateVatData/vatRateVatAmount	MonetaryType	total digits:18, fraction digits:2	-	-
vatRateVatData/vatRateVatAmountHUF	MonetaryType	total digits:18, fraction digits:2	-	-
vatRateGrossData/vatRateGrossAmount	MonetaryType	total digits:18, fraction digits:2	-	-
vatRateGrossData/vatRateGrossAmountHUF	MonetaryType	total digits:18, fraction digits:2	-	-

2.2.5.1.2   vatRate

A detailed description of the vatRateType complex type can be found in the section "items (invoiceLines)". Aggregates use the same complex type, with the same values and rules for the invoice type.

In case of tax rates where there is a case-reason subdivision system ((vatExemption, vatOutOfScope), it is enough to indicate a summary in the data report for cases with the same case (but with different reason). Explanations indicated in the specification can be used as reason in the summary for each case value.

For the vatAmountMismatch node, summary is to be generated for every distinct case-vatRate pair shown among the items.

2.2.5.2   summarySimplified
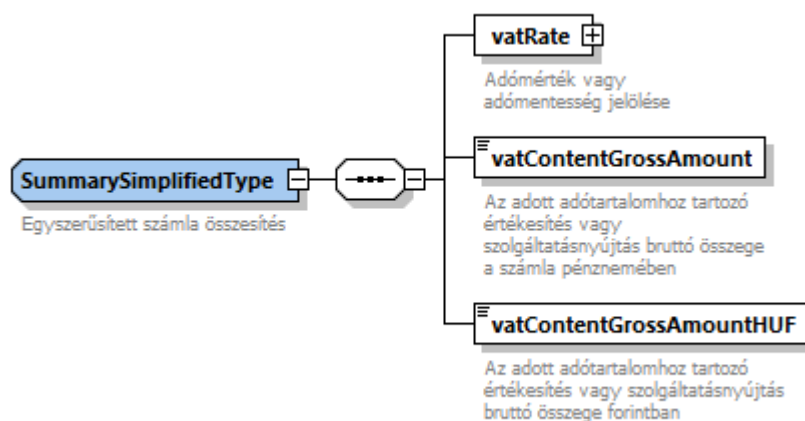
79Structure of the SummarySimplifiedType element

Tag	Type	Mandatory	Content
vatRate	xs:complexType	Yes	For simplified invoices, indicate the tax content or tax exemption
vatContentGrossAmount	xs:decimal	Yes	The gross total for a product sale or service provision for a given tax content in the currency of the invoice
vatContentGrossAmountHUF	xs:decimal	Yes	The gross total for a product sale or service provision for a given tax content in HUF

* the value set of tags marked with a blue background is examined by validation. If an invalid value is provided, the system returns a validation error for data reporting, see: Chapter 3.3.2

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
vatRate	VatRateType	-	-	-
vatContentGrossAmount	MonetaryType	total digits:18, fraction digits:2	-	-
vatContentGrossAmountHUF	MonetaryType	total digits:18, fraction digits:2	-	-

A detailed description of the vatRateType complex type can be found in the section "items (invoiceLines)". Aggregates use the same complex type, with the same values and rules for the invoice type.

2.3   Description of types in business content

This section includes the description of hitherto not discussed types mentioned in the section "**Detailed content of the invoice/modification schema**". The types are alphabetically ordered, based on the type names.

2.3.1   BankAccountNumberType (Bank Account Number Type)

The elements in this type may contain the following bank account formats:

a) A numerical sequence of two 8-digit strings divided with a hyphen (e.g. 12345678-12345678)
b) A numerical sequence of three 8-digit strings divided with a hyphen (e.g.12345678-12345678-12345678)
c) A two-letter country code + a two-digit verification number + a 11–30-digit domestic bank account number (International Bank Account Number or IBAN)

2.3.2   Boolean (Boolean value)

Boolean value, as per the XML 1.0 standard. Its value can be true or false.

2.3.3   InvoiceDateType (Date type)

Date type, as per the XML 1.0 standard. Its value is "YYYY-MM-DD", where "YYYY" is the year, "MM" the number of the month expressed with two digits, and "DD" is the day of the month, expressed with two digits. No value dated before 01.01.2010 may be entered.

2.3.4   ExchangeRateType (Exchange rate type)

The exchange rate type is used to describe various exchange rates. It can contain up to 14 digits, of which up to 6 can be to the right of the decimal point. It can only have a non-negative value.

2.3.5   InvoiceAppearanceType (Invoice Appearance Type)

The possible values of the element in this type are as follows:

Appearance type of the invoice	Value of the InvoiceAppearanceType element
Paper invoice	PAPER
Electronic, non-EDI invoice	ELECTRONIC
Electronic, EDI invoice	EDI
The software is unable to identify the type of invoice, or the type is unknown at the time the invoice was issued.	UNKNOWN

Electronic invoices are as defined in Section 259 (5) of the VAT Act. An EDI invoice is an electronic invoice created and transmitted as electronic data in the electronic data exchange system.

The "UNKNOWN" value can be used in the data report, for instance, if the invoicing software does not know or cannot identify the appearance of the invoice at the time of issue.

2.3.6   InvoiceCategoryType (Invoice Category Type)

Type indicating the invoice type, with the following possible values:

Invoice type	Value of the InvoiceCategoryType element
Normal (i.e. not simplified, not aggregate)	NORMAL
Simplified invoice	SIMPLIFIED
Summary invoice	AGGREGATE

2.3.7 MarginSchemeType (Margin Scheme Type)

For indicating the margin scheme entitlement.

Entitlement	Value of the MarginSchemeType element
Travel agencies	TRAVEL_AGENCY
Second-hand items	SECOND_HAND
Artwork	ARTWORK
Collectible items and antiques	ANTIQUES

2.3.8 MonetaryType (Monetary Type)

MonetaryType elements may contain up to 18 digits, of which up to 2 can be right of the decimal point. Its value can be negative.

2.3.9 PaymentMethodType (Payment Method Type)

The possible values of the element in this type are as follows:

Payment Method	Value of the PaymentMethodType element
Transfer	TRANSFER
Cash	CASH
Debit card, credit card, other cash substitute	CARD
Voucher, bill of exchange, other money substitution instrument	VOUCHER
Other	OTHER

2.3.10 ProductCodeCategoryType (Product Code Category Type)

The elements in this type can be used only once for any given item. Several different codes relevant to the given item may be used in this type, including several product or service code types, as needed.

Product Code Type	Value of the ProductCodeCategoryType element

Customs code VTSZ	VTSZ
Service registry number SZJ	SZJ
KN code (Combined Nomenclature, 2658/87/EEC decree, Annex I)	KN
e-TKO administrative reference code AHK as per the Excise Duty Act (Act LXVIII of 2016)	AHK
Packaging catalogue code (CsK code) as per the 343/2011 (XII. 29) Gov. decree, Annex No. 1 section A)	CSK
Environmental product code (Kt code) as per the 343/2011 (XII. 29) Gov. decree, Annex No. 1 section B)	KT
Building registry number	EJ
Classification system for products and services	TESZOR
Product code generated by the enterprise	OWN
Other	OTHER

2.3.11 ProductStreamType (Product Stream Type)

The item is categorized in the product stream based on environmental product charges, as per the relevant regulations. Its possible values are as follows:

Product stream	Value of the ProductStreamType element
battery	BATTERY
packaging	PACKAGING
other petroleum products	OTHER_PETROL
electrical or electronic equipment	ELECTRONIC
tire	TIRE
advertising paper	COMMERCIAL
other plastic product	PLASTIC
other chemical product	OTHER_CHEMICAL
office paper	PAPER

2.3.12 QuantityType (Quantity Type)

A QuantityType element may contain up to 22 digits, of which up to 6 can be to the right of the decimal point. Its value can be negative.

This type appears in the element on unit price as well, in addition to item quantity, because while unit price is a monetary value, but in practice it may be required with more decimals than permitted for the currency type (MonetaryType).

2.3.13 RateType (Arány típus)

The ratio-type element contains a number between 0 and 1, with a maximum of 4 digits after the decimal separator.

2.3.14 TakeoverType (Takeover Type)

The elements of the type indicate the direction and the legal basis for taking over product charges. Its possible values are as follows:

The direction and basis for taking over product charges	Value of the TakeoverType element
The seller (first placing on the domestic market) takes over the product charges liability of the buyer, as per Section 14 (4) of Act LXXXV of 2011.	01
The buyer contractually takes over the product charges liability of the seller, as per Section 14 (5) aa) of Act LXXXV of 2011.	02_aa
The buyer contractually takes over the product charges liability of the seller, as per Section 14 (5) ab) of Act LXXXV of 2011.	02_ab
The buyer contractually takes over the product charges liability of the seller, as per Section 14 (5) b) of Act LXXXV of 2011.	02_b
The buyer contractually takes over the product charges liability of the seller, as per Section 14 (5) c) of Act LXXXV of 2011.	02_c
The buyer contractually takes over the product charges liability of the seller, as per Section 14 (5) d) of Act LXXXV of 2011.	02_d
The buyer contractually takes over the product charges liability of the seller, as per Section 14 (5) ea) of Act LXXXV of 2011.	02_ea
The buyer contractually takes over the product charges liability of the seller, as per Section 14 (5) eb) of Act LXXXV of 2011.	02_eb
The buyer contractually takes over the product charges liability of the seller, as per Section 14 (5) fa) of Act LXXXV of 2011.	02_fa
The buyer contractually takes over the product charges liability of the seller, as per Section 14 (5) fb) of Act LXXXV of 2011.	02_fb
The buyer contractually takes over the product charges liability of the seller, as per Section 14 (5) ga) of Act LXXXV of 2011.	02_ga
The buyer contractually takes over the product charges liability of the seller, as per Section 14 (5) gb) of Act LXXXV of 2011.	02_gb

2.3.15 InvoiceTimestampType (timestamp type)

Timestamp type as per the XML 1.0 standard. Its value is "YYYY-MM-DDTHH24:MM:SS.sssZ", where "YYYY" is the year number, "MM" the serial number of the month expressed by two digits, and "DD" is the serial number of the day of the month expressed by two digits, T is the separator, HH24 is the hour expressed by two digits, MM is minutes expressed by two digits, SS.sss indicates the seconds expressed by 5 digits up to millisecond value, and Z marks UTC time. No value earlier than 2010.01.01T00:00:00.000Z may be entered.

2.3.16 UnitOfMeasureType (quantity unit type)

When specifying the invoice line, the quantity unit in the invoice must be included using the following value set, provided the selected quantity unit is allowed. There is an option to include a custom quantity unit, meaning the quantity unit included in the invoice.

Quantity unit	Value of the UnitOfMeasureType element
Piece	PIECE
Kilogram	KILOGRAM
Ton	TON
Kilowatt hour	KWH
Day	DAY
Hour	HOUR
Minute	MINUTE
Month	MONTH
Litre	LITRE
Kilometre	KILOMETER
Cubic meter	CUBIC_METER
Meter	METER
Linear meter	LINEAR_METER
Carton	CARTON
Package	PACK
Own	OWN

2.3.17 LineNatureIndicatorType (type denoting product/service)

The type contains an enumerator describing whether the item in the invoice line is a product, a service, or other. The basis of correctly determining the enum is having information available about the invoice line regarding whether the line in question refers to a product, a service, or a different type of sale. Generally speaking, it is not possible to correctly define the enum based only on this invoice line description.

Below, we will be demonstrating options for collating the correct data report if filling out the lineNatureIndicator tag is implemented by the invoicing software. Naturally, no such guide can provide

complete direction, and it is only meant to give ideas for determining the value of the lineNatureIndicator.

Separating product/service items

- If a product master list exists, then it might be possible to also create a service master list to go with it, which would allow for a clear way to determine whether a line item is a product or a service.
- The product master list can be expanded with a signifier denoting the product/service nature of the line item.
- If a company typically only provides either products or services, then one possible solution might be to have the programme fill out the type of sale as the default type for the company in question when issuing the invoice. The invoice supplier can change the default if needed, but this should only become necessary in the event that the nature of the sale is non-typical.
- For corporate governance systems, tax codes are a commonly used element. The definition of the tax code is different for every company, with no generally agreed-upon standard. If the structure of the tax code also defines the nature of the product/service, the tax code may also be a valid input for determining the correct value of the lineNatureIndicator.
- It is possible for the invoicing programme to not use a master list, or for it to be possible to add line items using data not included in the master list. In these cases, it would be expedient to add a field to the input screen which allows for defining the product/service nature of the line item.

Other

In addition to products and services, invoices can include line items that do not fit into any of those categories. These could, for example, be amounts that the taxpayer receives on a third party's behalf and benefit. This can include tourism tax.

The way this element is defined is entirely dependent on the software used. For example, in cases where the tourism tax is determined by invoicing software used in hotels, the software in question will typically handle such items separately. This can involve using a separate product code, which can be paired with the lineNatureIndicator element. It could even include internal logic for automatically calculating it. In these cases, lineNatureIndicator can be filled out when the internal logic is run.

If these types of line items are not determined using the described methods, then the methods described in the section titled "Separating product/service items" can be used to determine these data elements.

2.4   Technical annulment of previous data report

In connection with the online invoice data report, a technical annulment of a previous data report is permitted if the data report was performed with erroneous data as a result of a technical error.

It should be noted that the **technical annulment of a data report is NOT identical with the data report on the annulment of an invoice ("annulment invoice")**: the technical annulment should be used for cases when the invoice or the invoice-equivalent document correctly describes the economic event, but the data report includes erroneous data.

It is not possible to invalidate the data report if the data report is also the invoice, thus, the value of the <completnessIndicator> element is "true". It is also not possible to invalidate a data report if, while the base invoice does not qualify as an electronic invoice, a data report exists within the invoicing chain where the value of <completnessIndicator> is "true".

In the case of incorrect data report, a technical annulment may be performed manually as well: it is not limited to a machine-machine interface. This document does not cover the "manual" correction method of the data report performed by the user. However, it is important to point out that the technical annulment of the data report must be approved by a user with the appropriate authorization in the Online Invoice System.

Implementing the capability for technical annulment as a function in the invoicing programme is not mandatory, as manual correction always remains an option. This function is mainly recommended for invoicing systems where a high number of invoices are issued in a short amount of time, and without this possibility, in the event of a technical failure, the massive misstatement of erroneous data would create an impossible task for the operators of the system in question.
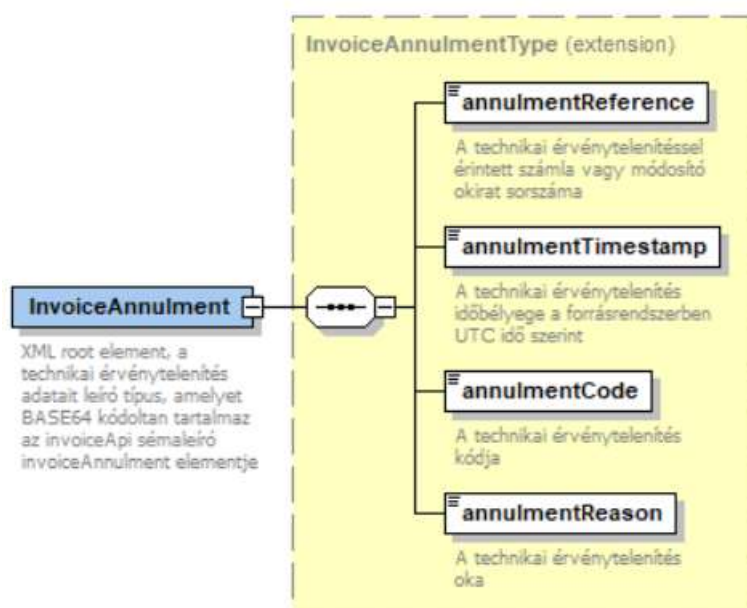
80Structure of the InvoiceAnnulmentType element

Tag	Type	Mandatory	Content
annulmentReference	xs:string	Yes	Reference number of the invoice or modification document subject to technical annulment
annulmentTimestamp	dateTime	Yes	UTC timestamp of the technical annulment in the source system
annulmentCode	xs:string	Yes	Technical annulment code
annulmentReason	xs:string	Yes	Reason for the technical annulment

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
annulmentReference	SimpleText50NotBlankType	.*[^\s].*	-	-
annulmentTimestamp	InvoiceTimestampType	\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(.\d{1,3})?Z minInclusive = 2010-01-01T00:00:00Z	-	-
annulmentCode	AnnulmentCodeType	-	ERRATIC_DATA ERRATIC_INVOICE_NUMBER ERRATIC_INVOICE_ISSUE_DATE ERRATIC_ELECTRONIC_HASH_VALUE	-
annulmentReason	SimpleText1024NotBlankType	.*[^\s].*	-	-

2.4.1 Regulations related to the technical annulment of data reporting

1. Technical annulment can only be used for previously submitted data reports where a confirmation receipt ("DONE") was received, and the return message contains solely warnings ("WARN"), or nothing at all.

2. Technical annulment is performed using the /manageAnnulment operation: each of the maximum 100 annulmentOperation elements contains a technical annulment. The internal base64 content most contain the elements defined in the invoiceAnnulment schema definition. The schema will now permit the submission of both a technical annulment and an "original" data report as part of the same operation.

3. Technical annulment can be applied to invoices and invoice-equivalent documents. The number of technical annulments is not restricted. On the other hand, technical annulment data may be used as input data for the risk analysis system.

4. The processing system applies technical annulment on the basis of the number for the invoice or the invoice-equivalent document (invoiceNumber element), which shall be stored in the annulmentReference element in the data report on the technical annulment.

5. If the technical annulment arrives on an invoice for which a data report on modification has been completed, then the technical annulment automatically applies to all data report on modification, without need for a separate request.

6. If the technical annulment applies to a modifying document, then the technical annulment shall pertain only to this document, not the original invoice or any other existing modifying documents.

7. For technical annulment, the value of the annulmentOperation tag must always be set to "ANNUL".

8. After the successful completion of the technical annulment, an approval from the web application is required for each individual technical annulment. For further details, see the user interface documentation.

9. The reference number of technically annulled documents (after the approval of technical annulment) can be reused.

10. Data reports with completenessIndicator = true, where the data service is the electronic invoice itself, cannot be technically annulled. This is monitored by a separate business validation process, see the "Error Management" section for details.

2.5 Data report on invoice-equivalent documents

The legal provisions mentioned in the Introduction explicitly state that the invoicing programme shall provide data on the modification, annulment of invoices (invoice-equivalent documents as per the VAT Act) issued by the invoicing programme, if the relevant conditions apply.

The schema describing the invoice was developed to enable the publication of data related to invoice modification, noting the following:

- The VAT Act considers the original invoice describing the economic event to be the invoice. All modifications or annulments to that invoice are considered invoice-equivalent documents. In the case of invoice annulment and the issuance of a new (correct) invoice, both the annulment document and the new invoice shall be considered as modification documents for the original invoice.
- Legislation does not prohibit issuing several modification documents for the same invoice.
- The mandatory data content of the modification document as defined in Section 170 (1) of the VAT Act:

  "a) the document's date of issue;
  b) a sequential number, which uniquely identifies the document;
  c) reference to the initial invoice that is being amended by this document;
  e) an indication of the detail that is being amended, and the reason for the amendment, including any revision of numbers, where applicable."

- Legislation does not prohibit the modification of several previously issued invoices by means of a single modifying document.
- The modifying document shall be issued within a reasonable period of time from the occurrence of the fact requiring the modification. In practice, the issuance (publication) of the modification document may take a significant time after the issuance (publication) of the original invoice.
- For the basic purpose of online invoice reporting, the data report on the modification must be made in such a manner that all data for the economic event to which the information obligation applies, as described by the original invoice and all related modification (annulment) documents, shall be clearly identifiable at all times in the NAV processing system.

The following options are available for data reporting on online invoices:

1. Data report on the invoice (original invoice)
2. Data report on the invoice modification (invoice-equivalent document)
3. Data report on invoice annulment (invoice-equivalent document)

The deed of modification itself cannot be modified. As per the VAT Act, if the deed of modification was issued containing erroneous data, any subsequent modification shall be considered a modification of the original invoice, and data reporting shall be performed accordingly.

In case of data report on modification or annulment, if there is already a data report on the referenced invoice, you should wait for the DONE status before submitting the modification. Since invoices are processed in an asynchronised manner, the order cannot be guaranteed for simultaneous data reports on the invoice and related data report.

2.5.1 Data report on invoice annulment

For the data report on the issuance of an annulment document for an invoice, the value of the invoiceOperation element shall be set to "STORNO" in the API XML; but in every other respect the data report on the issuance of an annulment document is performed in the same manner as the invoice data report.

The following elements are required in the XML describing the data of the annulment document:

1. InvoiceData/invoiceMain/invoice/invoiceReference/originalInvoiceNumber: the number of the original invoice to be annulled. (In the case of invoice version 1.x in the data report on the original invoice, this shall be the value of the invoiceHead/invoiceData/invoiceNumber element, while from version 2.0 onwards, it shall be the value of the InvoiceData/invoiceNumber element instead).
2. InvoiceData/invoiceMain/invoice/invoiceReference/modificationIndex: data denoting the logical ordering of the modification (should always be 1 for the first modification)
3. InvoiceData/invoiceIssueDate: issue date of the amending document (the annulment document, in this case.)
4. InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierTaxNumber/taxpayerId
5. InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierAddress: required data of the appropriate branch
6. InvoiceData/invoiceNumber: the annulment document's own serial number.
7. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/invoiceCategory: the type of the original invoice
8. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/invoiceDeliveryDate
9. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/currencyCode
10. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/exchangeRate
11. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/invoiceAppearance: appearance of the invoice
12. InvoiceData/invoiceMain/invoice/invoiceSummary

Moreover, all data modified in the original invoice (including any previous modification documents), must be included in the data report on annulment. For data reporting on an annulment document (if the invoice has not been modified previously), the data report on annulment shall be performed as follows:

- – It should contain the data of the line items of the original invoice, with opposite signs for all quantities (consequently, the total quantities for all line items tends to be negative).
- The reference number (lineNumberReference) of items with opposite signs (positive and negative) should be numbered in a continuous sequence, continuing the item numbering of the original invoice.
- The lineModificationReference/lineNumberReference element refers to a compensated item number, and the lineOperation value shall be "MODIFY", or the lineNumberReference element (in the invoice and all its modifications) refers to a new, consecutive item number and the lineOperation value shall be "CREATE".
- The amounts in the summary of the original invoice (invoiceSummary) shall be displayed with the sign which is the opposite of that of the original invoice and the result of all previous modifications.

2.5.2 Data report on invoice modification

For a data report on the issuance of an amending document for an invoice, the value of the invoiceOperation element shall be set to "MODIFY" in the API XML; but in every other technical aspect the data report on the issuance of an modification document is performed in the same manner as the invoice data report.

The following elements are required in the XML describing the data of the modification document:

1. InvoiceDate/invoiceMain/invoice/invoiceReference/originalInvoiceNumber: the serial number of the original invoice to be modified. (In the case of invoice version 1.x in the data report on the original invoice, this shall be the value of the invoiceHead/invoiceData/invoiceNumber element, while from version 2.0 onwards, it shall be the value of the InvoiceData/invoiceNumber element instead).
2. InvoiceData/invoiceMain/invoice/invoiceReference/modificationIndex: data denoting the logical ordering of the modification (should always be 1 for the first modification)
3. InvoiceData/invoiceIssueDate: the issue date of the amending document
4. InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierTaxNumber/taxpayerId
5. InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierAddress: required data of the appropriate branch
6. invoiceData/invoiceNumber: the annulment document's own serial number.
7. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/invoiceCategory: the type of the original invoice
8. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/invoiceDeliveryDate: delivery date of the original invoice, unless modified by the certificate
9. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/currencyCode
10. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/exchangeRate
11. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/invoiceAppearance: appearance of the invoice
12. InvoiceData/invoiceMain/invoice/invoiceSummary

Moreover, all data modified in the original invoice (including any previous modification documents), must be included in the data report on the modification, as per the following:

2.5.3 Data to be modified in the line items

For the data report on modification (annulment), if the modification document modifies data in any item line of the original invoice, a new data report is required for the line item affected by the modification, so that the data of the invoice describing an economic event and those of the modification document(s) shall be clear.

In the new data report of the line items, all numerical data (prices, quantities) shall be indicated as DIFFERENCES to the current value of the item to be modified. (The current value is generated by the original invoice, taking all previous changes into account.)

The lineNumber element is an ordinal number assigned for data reporting on each invoice or modification, without recurrence or omission, starting at 1.

In the data report on modification, the lines/line/lineModificationReference element shall contain references to the number of the affected items (lineNumberReference), while the lineOperation element shall contain the type of modification.

The value of the lineOperation element may be one of the following:

- CREATE: the modification adds a new line item to the sequence of the original invoice and any previous modification(s). In such cases the lineModificationReference element shall continue the numbering created for the original invoice (lineNumber) and previous modifications (lineNumberReference).
- MODIFY: the modification contains the data modified in the given line item. In such cases, the lineNumberReference element will contain the line item number (lineNumber) of the item in the original invoice or the line item number of the new item created in a previous modifying document (the lineNumberReference element of the previous modifying document), which is the subject of the modification.

In the same modifying document, the given line item of the original invoice can be referenced for only a single item (lineNumberReference).

2.5.4 Data to be submitted for modification

For data reporting on modifications (annulment), the combined content of the original invoice and the modification document needs to be re-mapped on the basis of machine-machine data report on the modification document. For this reason, if data is modified, it is necessary to re-publish the parent element of the element containing the data, or the parental element of the parent element itself, with full data content, as shown in the table below:

Data to be modified	Item to be included in the data supply, with full data content
Any supplier data	supplierInfo
Any customer data	customerInfo
Any data of the financial representative	fiscalRepresentativeInfo

any data contained in the invoiceDetail element or any of its child elements	invoiceDetail
Any data contained in a given line item	line (containing the data of the given line item)
Any product charges summary data	productFeeSummary
Data summary	invoiceSummary (with regards to 2.5.5)

2.5.5   Invoice summary data at modification

The invoiceSummary element must always be filled out for data reports on modifications (annulment). For data reports on modification, the effect of the modification document with regard to the invoice summary data must be published, i.e. by what rate the summary data of the original invoice increased or decreased as a result of the modification.

Therefore, for data reports on modification, it is explicitly forbidden to submit "edited", i.e. modified (new) statuses in the invoiceSummary element.

2.5.6   Data report on documents modifying multiple invoices

The InvoiceData/invoiceMain/invoice node describes the data of an invoice's or amending document's data within the schema. If an amending document is used to modify several earlier invoices, then and only then can the batchInvoice node be created in the data reporting XML.

The batchInvoice node reiterates the invoice node used for describing the invoice data reporting data. The individual modifications should be assigned their own batchIndex values. For data reporting purposes, it is irrelevant which batchIndex values are assigned to which modifications. However, the value of batchIndex needs to increase monotonically, starting from 1.
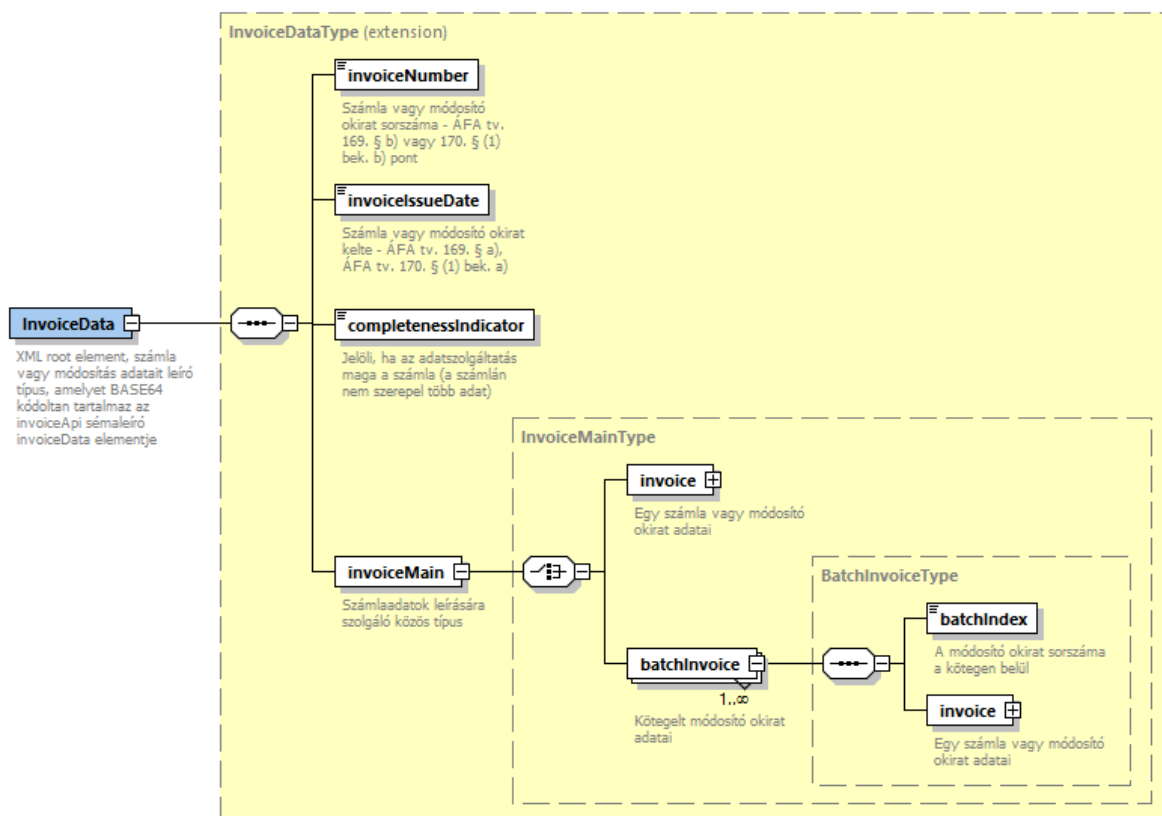
81 *Structure of the BatchInvoiceType element*

When processing batch (grouped) modifications, the system will perform the following additional checks, which must be adhered to during the data reporting:

- Only one single request containing a batchInvoice node can be submitted to the system in a single data reporting request. To put it another way, the index used in the API XML must be 1 for the /manageInvoice operation in all such cases. For requests where the system finds batchInvoice content when extracting the internal base64-encoded content, and it was not assigned the first and only index in the data reporting, the system will automatically reject all indices of the request, and will assign the ABORTED status to it.
- The internal base64-encoded content can only include a batchInvoice if the invoiceOperation in the API XML is either MODIFY or STORNO. The CREATE value is not acceptable. The system will reject the processing of any requests that fail to comply with the above rule, and will assign the ABORTED status to it.
- No upper limit is defined for the batchInvoice nodes within the base64 content. However, depending on the schema number, it must have no less than 2 batchInvoice nodes. Requests containing only a single batchInvoice node do not qualify as batch modifications, and the system will therefore refuse to process any such requests, and will assign the ABORTED status to them.
- The system will process the individual points of data under the corresponding batchInvoice nodes separately. The results of the processing can be assigned according to the batchIndex

value. If the processing of any of the amending documents listed under any batchIndex receives an ABORTED status during the processing of a batch modification operation, the system will automatically place the processing of all other batch modifications included in the same request into the ABORTED status as well.

- Batch modifications can only be applied to invoices with the same customer. The system will only verify that this condition is met during data reporting by checking that any customer tax numbers appearing in the data reporting pertaining to batch modifications are identical. The system will reject the processing of any requests that fail to comply with the above rule, and will assign the ABORTED status to it.

- Data reporting referencing batch modifications cannot include a single modification of a given invoice multiple times within a single request. To put this another way, both the invoice reference number (invoiceReference) and the element describing the ordering of the modification (modificationIndex) in the full XML must be unique. The system will reject the processing of any requests that fail to comply with the above rule, and will assign the ABORTED status to it.

- Successfully processed batch modifications are uniquely identified by the invoice number. From the customer side, the invoice number can therefore be used to query the full data content of an invoice. The response to the query will only show the customer the batchInvoice elements that include the customer tax number which matches the tax number of the customer performing the query.

2.5.7 Data report on multiple modifications

Frequently, an original invoice is modified by the taxpayer, then new circumstances come to light after issuing the modification document, causing the taxpayer to issue another modification document related to the original invoice.

For multiple modifications of an invoice the data report on each modification document must always include information on what has been modified by the modification document in question, in comparison to its previous state.

In the case of invoices with incorrect data, typically an annulment invoice is issued first, followed by a new invoice containing the correct data. (This method was explicitly required by the VAT Act in force until 31 December 2007, for modifications of invoices issued by use of invoicing programmes.) It should be noted that in this case, the invoice with the correct data is considered a modification document to the first (incorrect) invoice, since it refers to the economic event(s) contained therein. So the second modification document with the correct data content has to reference the original invoice.

2.5.8 Explanatory examples

Example 1 Modification options to correct an incorrect item

A taxpayer realizes that in a previously issued invoice consisting of five items, the fourth item is incorrect, with the incorrect product being listed. In the invoice, 4 units of "product D" are shown instead of the actually sold one unit of "product F".

The taxpayer has the following options to correct the error:

Option 1: The taxpayer issues a modifying invoice, containing -4 of "product D" and one unit of "product F" as modifying line items. In the data report on modification, the taxpayer submits -4 units of "product D" and one unit of "product F" as new items.

In the data report on this modification document:

a) In the first line item (lineNumber=1) of the XML describing the modification document, the value of the lineNumberReference element is "6" in the LineModificationReference element, the value of the lineOperation element is "CREATE", and this contains the data of the -4 units of "product D".

a) In the second item line (lineNumber=2) of the XML describing the modification document, the value of the lineNumberReference element is "7" in the LineModificationReference element, the value of the lineOperation element is "CREATE" and this contains the data of the 1 unit of "product F".

c) The complete invoiceSummary element of the XML describing the modification document is also included, containing the signed amounts for the modifications for each value.

Option 2: The taxpayer issues a annulment of the original invoice, then issues a new document with the correct data. The cancelling invoice data report is drafted according to section "**Data report on invoice annulment**". The new invoice with the correct data shall be issued as the modification of the original invoice. The data report on this shall contain the correct item data, also as a data report on modification.

Example 2 Modifying multiple original invoices with a single modifying document

The taxpayer realizes that the date of issue is incorrect in four of their previously issued invoices. As all four invoices were issued for the same customer, the mistake can be corrected by issuing a single modification document.

This batchInvoice will be used as four different modifications for the data report on the modifying document, with separate batchInvoice elements containing the modifying data for each invoice.

Example 3 Multiple modifications of an original invoice

The taxpayer realizes that one of the goods in the shipment is not listed on the original invoice, and the date of delivery is also incorrect. The taxpayer issues a modification document, indicating the missing goods on a line item, and including a correction of the date of performance.

A few days later, it turns out that the date of performance was in fact correct in the original invoice. Therefore, the taxpayer issues another modification document, indicating that the date in the original invoice was the correct one.

In the first line (lineNumber=1) of the data report on the first modification document, the value of the lineOperation element is "CREATE", containing the data of the product not included in the original invoice. Accordingly, the data report includes the invoiceSummary element, which contains the effect of the given goods on the data summary. The data report also includes the new date of delivery. In the data report on the second modification document, only the correct value of the date of delivery is included in the appropriate element.

Example 4 Annulment of modified invoice

The taxpayer issues an invoice for goods delivered. The customer has quality complaints, therefore the parties agree on a 40% discount; the taxpayer recognizes this by modifying the original invoice to record the quality discount for each line item in the modification document (negative unit price, positive quantity).

In the first line (lineNumber=1) of the data report on the modification, the value of lineOperation element is "CREATE". This line contains the data of the quality discount. Accordingly, the data report includes the invoiceSummary element, which contains the effect of the 40% discount on the data summary (40% reduction).

Later, the customer cancels the transaction due to further quality complaints, and the taxpayer annuls the invoice accordingly.

In the first item line of the annulment invoice, the original unit price of the product is indicated with a negative quantity. In the second item line, the discount with its negative unit price is indicated with a negative quantity.

In the data report on annulment, the value of the lineOperation element for both item lines is "CREATE". The invoiceSummary element is included in the data report, which, as a result of the negative original price and the negative discount, contains 60% of the original invoice amount with a negative sign.

2.6   Electronic invoicing support

Version 3.0 of XSD supports the adoption of electronic invoicing in two important respects, thereby increasing the efficiency of business administration:

2.6.1   Archiving

Uncertainties in interpreting the regulations related to the digital archiving of electronic invoices and the adequacy of the solutions used in practice could be identified as a significant obstacle to the spread of electronic invoicing.

ITM Decree 1/2018. (VI. 29.) introduced the possibility that the archiving of electronic invoices could be done via a hash code built into the data report, thereby protecting the data content of the electronic invoice, in addition to other methods listed in this legislation. Thus, the Online Invoice System provides the following solution:

During the invoicing process, an electronic invoice document (for example, a PDF file without an electronic signature or timestamp) is created on the seller's side. The seller's system generates a hash code for the file, using one of the hashing algorithms indicated in this specification. This hexadecimal number is communicated to NAV as part of the invoice data report (electronicInvoiceHash element in invoiceApi.xsd).

The electronic invoice issued on the seller's side and the electronic invoice received from the seller on the buyer's side must be stored on a suitable storage medium. If it is necessary to prove the authenticity and integrity of the electronic invoice (which is a file, specifically a PDF file in the example given) during a tax audit, the appropriate method would be comparing the hash value generated by

the algorithm indicated by the seller in the data report with the hash value generated by the algorithm for the file stored by the seller/buyer. Therefore, if the hash value generated by the algorithm during verification is the same as the one provided by the seller when issuing the invoice, the authenticity of the electronic invoice as required by the VAT Act (actually issued by the seller) and its integrity (the data content not modified since its creation) can be considered verified.

For electronic invoice data report, creating and including the hash value in the data report itself is not mandatory. This is an opportunity to effectively fulfil the digital archiving obligation associated with an electronic invoice.

2.6.2   Data reporting via electronic invoice

Since the introduction of Online Invoice data reporting in 2018, the invoicing programs of essentially all Hungarian VAT entities have been able to include the data content of the invoice or a part of it in the structure according to the schema required in the data report. This uniformity in the description of invoice data provides an excellent opportunity to provide IT support to taxpayers' business processes, thereby increasing their efficiency.

Version 3.0 of XSD provides the option for the seller to implement the data report by submitting an electronic invoice containing the full data content, given that this electronic invoice is precisely the XML file specified in accordance with the invoiceData.xsd schema as per this documentation.

The use of an electronic invoice containing full data content according to the schema used by all invoicing programmes enables a significant increase in the efficiency in taxpayers' business processes, due to the use of electronic invoicing, the use of tax authority services (for example, /queryInvoiceData operation on the customer side), and enabling machine processing options, made possible by the uniform format. It is not the purpose of this specification to describe these possibilities in more detail.

If the seller opts to submit the electronic invoice itself as the data report (at their own discretion), this fact must be indicated by including the invoiceApi.xsd <completenessIndicator> element with the value 'true'. Should the seller select this method of invoicing, special attention should be paid that the tax number of the domestic taxable person customer is correctly indicated. If the tax number of the customer is not correct, the customer will not be able to download the electronic invoice from the system.

When completing the data report with an electronic invoice, the following restrictions must be observed:

a)   The customer (the party acquiring the goods or services) cannot be a natural person (the (<customerVatStatus> cannot be PRIVATE_PERSON) and cannot be non-domestic taxable person or non-natural non-taxable person with no tax number (the (<customerVatStatus> cannot be OTHER, or if they are, the customerTaxNumber is completed),

b)   The invoice cannot contain line items merged with a document that is under consideration with an invoice (meaning that <mergedItemIndicator> cannot be 'true'). This can occur if the size of the XML file after issuance exceeds 10 MB. See: Section 2.7.).

c)   Cannot submit a document (amending or annulling invoice) with an invoice value <completenessIndicator> = 'true' that amends or annuls the data content of an invoice that was not reported by submitting an electronic invoice with <completenessIndicator> = 'true'.

d)   Electronic invoices may be submitted as a data report (<completenessIndicator> = 'true') 4 January 2021 the earliest.

e)   Although the electronic invoice, as a means of reporting data, can be found in the system of the tax authority, in this case the tax authority does not undertake to store it in accordance with archiving regulations. Electronic tax invoices must always be stored by the taxpayer.

f)   Under the VAT Act, the customer must consent to electronic invoicing. This must be agreed between the two partners, and the tax authority will not oversee any such agreement, even in part. According to the general regulations, the customer's consent to electronic invoicing may be made in writing, orally, or by implied conduct. However, this implies consent outside the Online Invoice System.

g)   If the data report is provided by submitting an electronic invoice, the seller is responsible for fulfilling the obligation to issue an invoice. The tax office will not assume any of the obligations and responsibilities of sellers and buyers as stipulated in the VAT Act. In the Online Invoice System, data reports qualifying as electronic invoices serve as an opportunity to reduce administrative burdens. However, both parties must consider the opportunities and risks inherent in this.

If the seller fulfills their obligation to provide a data report by submitting an electronic invoice, they must use the option described in section 2.6.1. Therefore, it is mandatory to generate a hash value for the electronic invoice serving as the data report. The hash must be generated using the SHA3-512 algorithm, and the resulting hash value must be included in the invoiceApi.xsd <electronicInvoiceHash> element. The correct generation of the hash value is verified during the processing of the electronic invoice as a data report. If the hash is improperly generated, the data reporting will fail. (See: Chapter 3.3.2)

2.7   Reporting of large invoices

The Online Invoice System cannot receive data reports exceeding 10 MB in size. For data reports of this size, the same product/service appears on several line items. In order to eliminate this problem, aggregation must be performed for the data report, which will result in a more compactly aggregated data report as compared to the actual data content of the invoice. The aggregation must be marked in the data report by setting <mergedItemIndicator> to 'true'.

The aggregation must be carried out by the taxpayer's system, in accordance with the following principles:

a)   During aggregation, identical products and services must be displayed in a single line item by aggregating the unit of quantity (provided that it can be quantified in a natural unit of measure).

b)   If the unit price is different for the same products and services, the sales must be included in the data report in a separate line item for each unit price.

c)   If the unit of quantity differs for a given product or service of the same kind, the sales must be included in the data provision in a separate line item for each unit of quantity.

d) The taxpayer's software does not necessarily need to aggregate the product and service line items by matching names; it can also be done based on the authentication codes registered in the taxpayer's system (e.g. article numbers, VTSZ, TESZOR etc.).

e) The aggregate data in the aggregated data report cannot deviate from the invoice aggregation data.

2.8 Public Utility Settlement Invoice Reporting

As per the industry regulations utility service providers are required to issue a settlement invoice about their public utility services that may include performance in the given period and amendments to previous periodic invoices (partial invoices). The delivery date of the relevant services shall be defined as per Section 58 of the VAT Act. Considering this, if the settlement invoice

- contains service value for the settled period which exceeds the total value of the partial invoices issued for the same period – i.e. the result of the settlement is a positive value (the party purchasing the service has further obligation to pay a consideration), then the settlement invoice has to be considered a standard invoice with a new delivery date defined pursuant to Section 58 of the VAT Act. In this case it is not the previously issued partial invoices that are modified, but a new invoice is issued with a new delivery date, and the data report thereof shall be generated with the CREATE operation.

- The value of the service provided in the settled period is less than the total of the partial invoices issued in the same period, i.e. the result of the settlement is a negative value (there is an amount to be reimbursed to the purchaser of the service or set off against a future payment liability), the previously issued invoices (partial invoices) need to be modified. Data reports of such invoices shall be submitted using the MODIFY operation.

For public utility settlement invoices, the data report of the latter is special since the settlement invoice has to include the modifications of the previous period, and also the delivery within the given period as required by industry regulations. For data reporting, these invoices must be submitted using the MODIFY operation as a batchInvoice invoice, as follows:

- for a given period of performance (e.g. basic fee), the data shall be reported as follows:
  o <originalInvoiceNumber> is the serial number of the current invoice,
  o <modifyWithoutMaster> is true,
  o <utilitySettlementIndicator> is true
  o <modificationIndex> is '1'.
- and the modifications for previous invoices should be reported as appropriate:
  o <originalInvoiceNumber> is the serial number of the partial invoice,
  o the <modifyWithoutMaster> value depending on whether there was data report submitted regarding the partial invoice,
  o <utilitySettlementIndicator> is false or unspecified
  o the value of <modificationIndex> is the index number of the next modification of the partial invoice in question.

The following is an example for the technical method:

Settlement invoice data:

- Basic fee for the last month: 100.
- partial invoice for month #11 200
- partial invoice for month #10 200
- After the deduction of the settled amount -500 (which means the adjustment of the last basic fee of a given period and the partial invoices for months 10 and 11).

The related data report is as follows:

- Data report about the basic fee for the last month (100): the invoice number reference (originalInvoiceNumber) is the settlement invoice number, the indicator value of the public utility settlement invoice is true (utilitySettlementIndicator=true).
- Data report on the reduction of the basic fee of the last month due to settlement (-100): the invoice number reference (originalInvoiceNumber) is the settlement invoice number, the indicator value of the public utility settlement invoice is true (utilitySettlementIndicator=true)
- Modification of partial invoice for month #11 (-200): the invoice number reference (originalInvoiceNumber) is the partial invoice number for month #11, the indicator value of the public utility settlement invoice is false (utilitySettlementIndicator=false)
- Modification of partial invoice for month #10 (-200): the invoice number reference (originalInvoiceNumber) is the partial invoice number for month #10, the indicator value of the public utility settlement invoice is false (utilitySettlementIndicator=false)

If the settlement invoice data are incorrect and need to be modified, the principles above have to be taken into consideration. If the settlement invoice is created using CREATE, the settlement invoice needs to be modified. If the settlement invoice is created using MODIFY then you have to go back to the partial invoices and modify those, provided that the modification is negative (for positive modifications a new invoice shall be issued instead of modifying the previous invoice).

2.9 Data reporting for advance payment invoices and final invoices

For a line item containing an advance payment, the value of <advanceIndicator> must be set to "true" and the <advancePaymentData> node must not be filled. This indicates that the line item in the invoice should be considered an advance payment.

The final invoice shall be compiled by including the total amount of the economic event, the advance invoice(s) to be deducted from this amount and, in the summary, the difference between the two. If the advance paid by the customer exceeds the full amount of the financial transaction, this difference must be settled in the advance payment invoice – rather than in the final invoice – by the issuer of the invoice (which means if the consideration payable for the transaction including tax is more than the advance payment received, the partial invoice is to be modified by the amount of the difference). If the final amount of the final invoice is negative, the system will mark the incorrect value with a warning. It is important to emphasize that in this case, the data content of the invoice is incorrect, meaning that it is the invoice that will require correction, not the data report.

For the final invoice data report, the value of <advanceIndicator> must be set to "true", and if it is included in the invoice (or it can be provided by the invoicing program), the <advancePaymentData> node can also be provided. Also note that when filling in the data related to the advance payment, all three fields under the node (advanceOriginalInvoice, advancePaymentData, advanceExchangeRate) must be filled in.

If the final invoice is issued in a foreign currency, the exchange rate of the invoice must be entered in the <exchangeRate> field below the invoiceHead node of the data report. The final invoice can only have a single exchange rate. It means this exchange rate must also be taken into account when crediting the advance payment paid earlier. However, the schema allows you to specify the exchange rate at the time of advance payment, in the advancePaymentData node. It is important to note that VAT law stipulates that this exchange rate is not relevant for the final invoice. It can be used for accounting purposes, however. In other words, specifying advanceExchangeRate is irrelevant with regards to VAT law, but may be useful for accounting purposes.

3 ERROR MANAGEMENT

The service operates on a common list of values and error codes from the value set enumerated on the server side. Unlike the result codes, error codes intentionally do not appear in the enumerations of the schema definition, so that their potential change or expansion shall not cause implementation dependency on the client side. The result codes may be returned in the funcCode tag of the BasicResultType node, whereas the error codes may be returned in the errorCode tag in the return message. The returned funcCode values should be interpreted in accordance with the requested business process.

3.1 General error codes

3.1.1 GeneralExceptionResponseType

In every operation of the service, the response to technically unprocessable messages (improperly formatted XML, incorrect namespace or incorrect context root) will contain a GeneralTechnicalException type error message.
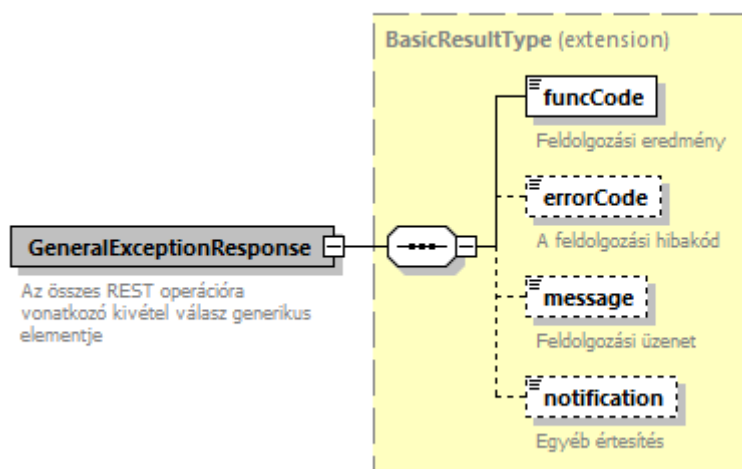
82Structure of the GeneralExceptionResponseType element

This type extends BasicResultType, but contains no other element.

3.1.2 GeneralErrorResponseType

The general error type message for each operation of the service is implemented by GeneralErrorResponseType.
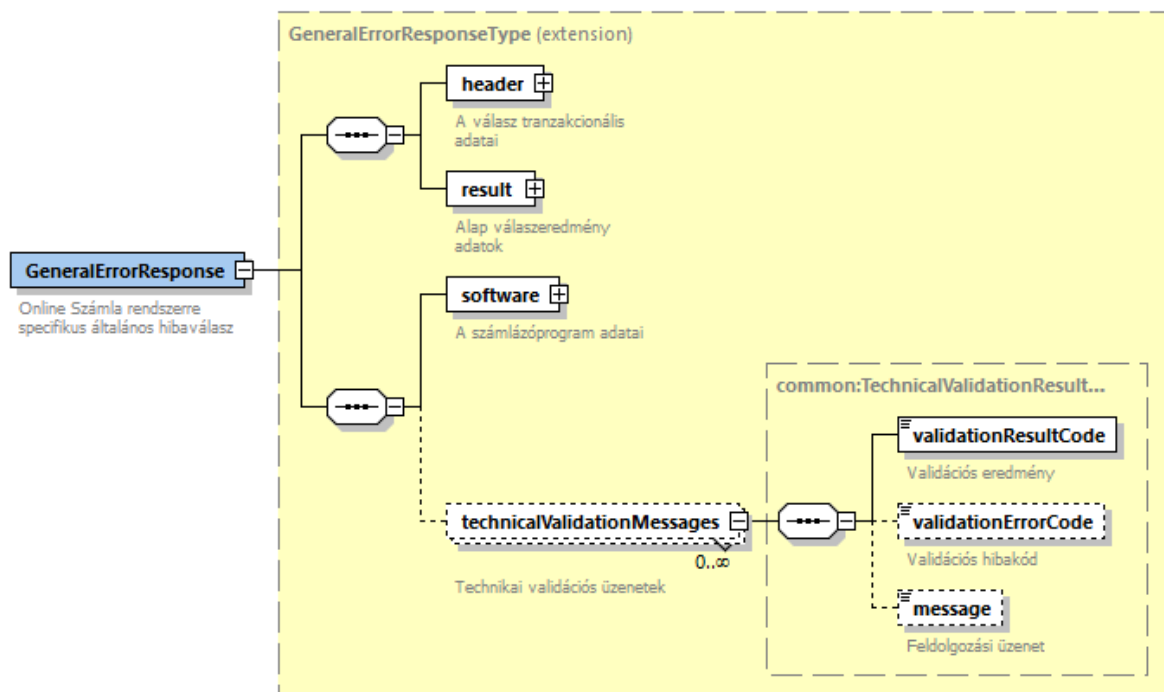
83*Structure of the GeneralErrorResponseType element*

This type extends BasicOnlineInvoiceResponseType, meaning that in addition to the elements it contains, it will also incorporate a technical validation list type. The list type contains an itemised list of all schema violations related to the invoiceApi schema definition (i.e. to the synchronous processing part of the interface) if the request contained at least 1 invalid schema tag.

Tag	Type	Mandatory	Content
validationResultCode	xs:string	Yes	Result of the technical validation
validationErrorCode	xs:string	No	The technical validation error code
message	xs:string	No	Text message pertinent to the result of the technical validation

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
validationResultCode	TechnicalResultCodeType	-	CRITICAL ERROR	-
validationErrorCode	SimpleText100NotBlankType	.*[^\s].*	-	-
message	SimpleText1024NotBlankType	.*[^\s].*	-	-

Definition and related requirements

1) If a technicalValidationMessages tag is generated, the value of the validationResultCode element can only be ERROR (CRITICAL is a value reserved in this type for potential future validations)
2) The validationErrorCode tag contains the error type code.
3) For schema violations, the message tag contains the name, value and expected value of the incorrect tag that failed technical validation; in other cases, it contains a text-based error message for the validationErrorCode tag

The technical error codes detailed in the next section are all returned in the GeneralTechnicalException or the GeneralErrorResponse response element. The response elements detailed in the "**Error management**" section are generated only if the synchronous processing has been validated on both the technical and business logic ends. Thus, any error tag received in the HTTP response body will always indicate some kind of error.

3.2 Technical error codes

The errorCode value set of the syncronous calls is listed in the following table.

Technical and authentication errors

#	HTTP response	Response body	funcCode	errorCode	requestVersion
1	HTTP 404 NOT_FOUND	-	-	-	1.0
2	HTTP 500 INTERNAL_SERVER_ERROR	Undertow message, Generic exception occurred!	-	-	1.0
3	HTTP 400 BAD_REQUEST	GeneralExceptionResponse XML tag	ERROR	INVALID_REQUEST	1.0
4	HTTP 400 BAD_REQUEST	GeneralErrorResponse XML tag	ERROR	INVALID_REQUEST	1.0
5	HTTP 401 UNAUTHORIZED	GeneralErrorResponse XML tag	ERROR	INVALID_SECURITY_USER	1.0
6	HTTP 500 INTERNAL_SERVER_ERROR	GeneralErrorResponse XML tag	ERROR	NOT_REGISTERED_CUSTOMER	1.0
7	HTTP 500 INTERNAL_SERVER_ERROR	GeneralErrorResponse XML tag	ERROR	INVALID_CUSTOMER	1.0
8	HTTP 500 INTERNAL_SERVER_ERROR	GeneralErrorResponse XML tag	ERROR	INVALID_USER_RELATION	1.0
9	HTTP 500 INTERNAL_SERVER_ERROR	GeneralErrorResponse XML tag	ERROR	FORBIDDEN	1.0
10	HTTP 400 BAD_REQUEST	GeneralErrorResponse XML tag	ERROR	REQUEST_ID_NOT_UNIQUE	1.0
11	HTTP 400 BAD_REQUEST	GeneralErrorResponse XML tag	ERROR	INVALID_REQUEST_SIGNATURE	1.0
12	HTTP 400 BAD_REQUEST	GeneralErrorResponse XML tag	ERROR	INDEX_NOT_SEQUENTIAL	1.0
13	HTTP 400 BAD_REQUEST	GeneralErrorResponse XML tag	ERROR	INVALID_EXCHANGE_TOKEN	1.0
14	HTTP 400 BAD_REQUEST	GeneralErrorResponse XML tag	ERROR	REQUEST_VERSION_NOT_ALLOWED	1.0
15	HTTP 527 SERVICE_UNAVAILABLE	GeneralErrorResponse XML tag	ERROR	MAINTENANCE_MODE	1.0
16	HTTP 500 INTERNAL_SERVER_ERROR	GeneralErrorResponse XML tag	ERROR	STATUS_QUERY_NOT_ALLOWED	1.1
17	HTTP 400 BAD_REQUEST	GeneralErrorResponse XML tag	ERROR	MULTIPLE_QUERY_RESULT_FOUND	2.0
18	HTTP 400 BAD_REQUEST	GeneralErrorResponse XML tag	ERROR	BAD_QUERY_PARAM_OVERLAP	2.0
19	HTTP 400 BAD_REQUEST	GeneralErrorResponse XML tag	ERROR	BAD_QUERY_PARAM_RANGE_EXCEEDED	2.0
20	HTTP 400 BAD_REQUEST	GeneralErrorResponse XML tag	ERROR	BAD_QUERY_PARAM_EQ_NOT_STANDALONE	2.0
21	HTTP 400 BAD_REQUEST	GeneralErrorResponse XML tag	ERROR	BAD_QUERY_PARAM_OPERATOR_COLLISION	2.0

22	HTTP 400 BAD_REQUEST	GeneralErrorResponse XML tag	ERROR	BAD_QUERY_PARAM_SUPPLIER_NOT_EXPECTED	2.0
23	HTTP 400 BAD_REQUEST	GeneralErrorResponse XML tag	ERROR	BAD_QUERY_PARAM_SUPPLIER_EXPECTED	2.0
24	HTTP 400 BAD_REQUEST	GeneralErrorResponse XML tag	ERROR	INVALID_TIMESTAMP	2.0
25	HTTP 400 BAD_REQUEST	GeneralErrorResponse XML tag	ERROR	INVALID_PASSWORD_HASH_CRYPTO	3.0
26	HTTP 400 BAD_REQUEST	GeneralErrorResponse XML tag	ERROR	INVALID_REQUEST_SIGNATURE_HASH_CRYPTO	3.0
27	HTTP 400 BAD_REQUEST	GeneralErrorResponse XML tag	ERROR	INVALID_REQUEST_VERSION	3.0
28	HTTP 400 BAD_REQUEST	GeneralErrorResponse XML tag	ERROR	INVALID_HEADER_VERSION	3.0

* the error code marked with blue is transformed by the network device behind the public end-point of the system into a HTTP 503 SERVICE_UNAVAILABLE message.

Error, actions

#	Cause of error	Action
1	incorrect service endpoint in request	For more information on addressing endpoints in various environments, see the section "**Environment Accessibility**"; check the URL.
2	incorrect HTTP method in request	The URL is correct, but the HTTP method is not POST. All operations of the interface must be sent with POST method.
3	non well-formed in XML in request body	A syntactically incorrect XML message cannot be considered XML or processed as such, as per the XML standard, and must be corrected.
4	not schema-valid XML in request body	The elements of the entered XML, listed in response, violate the restrictions of the invoiceApi.xsd, and must be corrected.
5	incorrect login + passwordHash in the request	This error message may be returned in various cases. Possible causes: no user under the entered login name, incorrect password, the login + passwordHash pair is semantically correct, but the password hash was not calculated correctly on the client side. The correctness of data and hashes should be checked; if necessary, the taxpayer using the technical user should be contacted.
6	the taxpayer specified in the request is not registered	The tax number included in the user tag does not belong to a registered taxpayer.
7	incorrect taxNumber in the request	The tax number in the user tag does not exist, or its status does not allow for performing invoice actions. The correctness of data should be checked; if necessary, the taxpayer should be contacted.
8	no connection between the entities in the request	There is no technical user with the entered login name and tax number, or the user status does not allow for performing that action any longer. The correctness of data should be checked; if necessary, the taxpayer should be contacted.

9	the technical user in the request does not have the rights to query the endpoint service	The primary users of the taxpayer allocate the rights to technical users. The taxpayer should be contacted, if necessary.
10	the requestId in the request is not unique	The requestId for the tax number in the request has already been used. A new ID meeting the uniqueness requirement should be given.
11	incorrect requestSignature in the request	The requestSignature calculation on the server side does not correspond with the value calculated on the client side. For more information about the calculation, see the section "**Calculating requestSignature**".
12	the index in the request is not contiguous	The indices under the invoiceOperations list element must be continuously ascending (no gaps in numbering). The request must be checked that there are no misnumbered, incorrect or recurring (appearing more than once) indices.
13	invalid data report token in the request	This error message may be returned in various cases. Possible causes: the token cannot be found in the system, the token has expired, the token was not issued for that particular taxpayer, or the AES decoding is missing or faulty on the client side. The correctness of the data and the decoding should be verified.
14	the value of the requestVersion tag in the request is no longer allowed	The requestVersion value of the request is a version that is no longer supported. This may occur when a newer version of the interface must be used due to a change in rules, where the earlier version can no longer be used from a given time. Must be corrected!
15	maintenance in progress	The requested operation is temporarily suspended due to maintenance. Please monitor the information on the interface, and repeat your request at a later time.
16	version number of status query too low	The requestVersion value for querying the processing status should not be lower than the requestVersion value of the queried transaction at the time it is submitted. Must be corrected!
17	the system contains multiple valid instances of the queried invoice number	This error message can be returned for /queryInvoiceData and /queryInvoiceCheck operations if the system contains multiple valid instances of the queried invoice number. In this case, the invoice number must be technically annulled, then once the operation is approved, data reporting must be repeated with the accurate data.
18	date overlap in the query parameters	This error message can be returned for the /queryInvoiceDigest operation if the dates in the mandatory search parameters (invoiceIssueDate or insDate) overlap. These parameters can be equal at most. Must be corrected!
19	query interval too large	This error message can be returned for the /queryInvoiceDigest operation if the difference between dates in the mandatory search parameters (invoiceIssueDate or insDate) is larger than 35 days. The queried interval should be narrowed down.
20	a query containing an equality comparison is not standalone	This error message can be returned for the /queryInvoiceDigest operation if one of the nodes for the relational query parameters is duplicated, and one of the two contains an EQ search operator. EQ may only be used as a standalone search operator in any given node. Must be corrected!

21	incorrect interval definition in the query	This error message can be returned for the /queryInvoiceDigest operation if one of the nodes for the relational query parameters is duplicated, and the search conditions include an open interval (e.g. paired GT and GTE, or alternately LT and LTE search operators.) Interval-based searches must always be assigned GT or GTE as one of the search operators, and LT or LTE as the other.
22	when searching as a supplier, filtering by the supplier's tax number is not permitted	This error message can be returned for both invoice query operations (queryInvoiceCheck and queryInvoiceData) if the invoice number is used for the query, the search is performed from the supplier side, and a filter condition is set for the supplier's tax number. The supplierTaxNumber tag must be deleted from the query!
23	ambiguous set of results when searching as a customer, needs to be filtered by the supplier's tax number	This error message can be returned for both invoice query operations (queryInvoiceCheck and queryInvoiceData) if the invoice number is used for the query, the search is performed from the customer side, and multiple suppliers have issued the queried account number for the customer in question. The request needs to include the supplierTaxNumber tag. The list of tax numbers than can be used for filtering can be determined using the /queryInvoiceDigest operation.
24	the timestamp indicated in the query is more than 1 day old	The error message can be returned in the operation containing all the authentication if the value of the timestamp indicated in the header node is outside the ± 1 day interval of the server time.
25	technical user password hash generation algorithm is incorrect	This error message can be returned if the value of user/passwordHash/cryptoType is not SHA-512.
26	the hash-generating algorithm used for signing the request is incorrect	This error message can be returned if the value of user/requestSignature/cryptoType is not SHA3-512.
27	request version is invalid	This error message can be returned if the value of header/requestVersion is not 3.0
28	header version is invalid	This error message can be returned if the value of /header/headerVersion is specified and not equal to 1.0

For more information on corrections, see the section "**Self-check**".

Errors in processing

#	HTTP response	Response body	funcCode	errorCode	requestVersion
1	HTTP 500 INTERNAL_SERVER_ERROR	GeneralErrorResponse	ERROR	OPERATION_FAILED	1.0
2	HTTP 500 INTERNAL_SERVER_ERROR	GeneralErrorResponse	ERROR	NOT_ALLOWED_EXCEPTION	3.0

Error, actions

#	Cause of error	Action
1	unexpected processing error	Fault tolerance of asynchronous operations is ensured on the server side. This error can occur only for synchronous requests; try repeating the operation after a short wait. If the operation is repeatedly unsuccessful in a live environment, the NAV helpdesk should be contacted; however, check the website first to make sure that there is no system outage or transient malfunction causing the error. Please note that there is no guaranteed availability in the user test environment; therefore, any errors occurring in the test system should not be reported. (The error code may also show up if a request is not sent to the endpoint of the appropriate operation, e.g. a schema valid invoice is sent to the /queryTaxpayer endpoint instead of the /manageInvoice.)
2	operation does not exist	This error message can occur if an endpoint is not called using the correct HTTP method. (e.g. a GET call is received for a manageInvoice expecting the POST method)

3.3 Validation error codes

Validation error codes can be returned only in the response message of the /queryTransactionStatus operation. A common feature of these error codes is that they appear within the processingResult element, and in the case of successful query, the response to operation /queryTransactionStatus returns the funcCode = OK value. This is not to be confused with the processing results of invoice data. Their value can be ERROR, which indicates a blocking business logic or technical error, or WARN, which warns that the business logic of the invoice data may be incorrect, or INFO which only serves informational purposes. In all three cases, the error code returned refers to the data report of the invoice indicated in the index, but never the complete data report process.

3.3.1 Technical validation error codes

Since the BASE64 decoding of the invoice data report is performed asynchronously, invalid results or other error types may occur. If the data report in the request is not schema-valid or contains other errors, this fact will be returned in this branch.

#	HTTP response	Response body	validationResultCode	validationErrorCode	requestVersion
1	HTTP 200 OK	technicalValidationMessages XML tag	ERROR	SCHEMA_VIOLATION	1.0
2	HTTP 200 OK	technicalValidationMessages XML tag	ERROR	DUPLICATE_IN_REQUEST	1.0
3	HTTP 200 OK	technicalValidationMessages XML tag	ERROR	COMPRESSION_TOLERANCE_EXCEEDED	1.0
4	HTTP 200 OK	technicalValidationMessages XML tag	ERROR	DECOMPRESSION_ERROR	1.0
5	HTTP 200 OK	technicalValidationMessages XML tag	ERROR	CREATE_WITH_BATCH_INVOICE_FOUND	2.0
6	HTTP 200 OK	technicalValidationMessages XML tag	ERROR	MULTIPLE_INDICES_WITH_BATCH_INVOICE_FOUND	2.0

7	HTTP 200 OK	technicalValidationMessages XML tag	ERROR	DUPLICATE_IN_INVOICE_REFERENCE	2.0
8	HTTP 200 OK	technicalValidationMessages XML tag	ERROR	BATCH_INDEX_NOT_SEQUENTIAL	2.0
9	HTTP 200 OK	technicalValidationMessages XML tag	ERROR	BATCH_INVOICE_CARDINALITY_ERROR	2.0
10	HTTP 200 OK	technicalValidationMessages XML tag	ERROR	DUPLICATE_INVOICE_LINE_CREATION	2.0

Error, actions

#	Cause of error	Action
1	not schema-valid XML	The decoded elements listed in the response violate the restrictions of invoiceData.xsd, and thus must be corrected.
2	the data report contains multiple copies of the same invoice number	Error codes used for invoice operations (CREATE, MODIFY, STORNO and ANNUL) will be returned if the data report contains multiple copies of the same invoice number. The server will automatically reject the processing of invoices contained by the data report in multiple copies – correction is required.
3	the original uncompressed size of the compressed invoice file is too large	The size of the original, uncompressed invoice file contained by the compressed file in the data report is above the size limit.
4	error during decompression	The invoice cannot be decompressed. Either the compression method is incorrect or the value of the compressedContent tag and the compression of the invoice are not in sync (invoice not compressed while compressedContent = true). If the invoice is compressed, but meanwhile compressedContent = false, a schema validation error is returned as a result of asynchronous processing.
5	batch modification was sent using a CREATE operation	The system will only accept batch modifications (batchInvoice) with MODIFY or STORNO invoiceOperation values. CREATE is not acceptable and must be corrected.
6	the request includes (also) a batch modification, but has more than one indices	The system will only accept batch modifications (batchInvoice) with single-index /manageInvoice requests. Any failure to meet this condition must be corrected.
7	the data report contains multiple references to the same invoice number and pair of variables describing the ordering of modifications	The invoiceReference and modificationIndex values must be unique as a pair within a single data report. Any failure to meet this condition must be corrected.
8	the internal index of a batch modification is not contiguous	Any batch modification (batchInvoice) must have a batchIndex value that starts at 1 and increases monotonically, as it is in the API XML index as well, correction is necessary.

9	a batch modification must contain at least 2 amending documents	Any batch modification (batchInvoice) must contain at least 2 batchIndexes. Any failure to meet this condition must be corrected.
10	a line with the same line number has been added to the invoice multiple times	A line item with the same line number cannot be added to an invoice multiple times, correction is necessary.

3.3.2 Blocking validation error codes

Blocking validation errors indicate content errors that prevent successful data reporting. When such an error occurs, the invoice data report cannot be considered successful. The submitted data must be corrected in all such cases.

#	operation	Invoice type	Response body	validationResultCode	validationErrorCode	requestVersion
1	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	SUPPLIER_TAX_NUMBER_MISMATCH	1.0
2	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	INVOICE_NUMBER_NOT_UNIQUE	1.0
3	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	LINE_NUMBER_NOT_SEQUENTIAL	1.0
4	CREATE	all types	businessValidationMessages XML tag	ERROR	INVOICE_LINE_MISSING	1.0
5	MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	INVALID_INVOICE_REFERENCE	1.0
6	MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	INVOICE_TYPE_MISMATCH	1.0
7	MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	INVOICE_LINE_ALREADY_EXISTS	1.0
8	ANNUL	all types	businessValidationMessages XML tag	ERROR	INVALID_ANNULMENT_REFERENCE	1.0

9	ANNUL	all types	businessValidationMessages XML tag	ERROR	ANNULMENT_IN_PROGRESS	1.0
10	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	CUSTOMER_NOT_ASSIGNED	1.0
11	MODIFY, STORNO, ANNUL	all types	businessValidationMessages XML tag	ERROR	REQUEST_VERSION_REFERENCE_ERROR	1.1
12	MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	LINE_NUMBER_REFERENCE_NOT_UNIQUE	1.1
13	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	MANDATORY_LINE_CONTENT_MISSING	1.1
14	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	INVALID_VAT_DATA	1.1
15	MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	MULTIPLE_INVOICES_FOUND	1.1
16	MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	MODIFICATION_INDEX_NOT_UNIQUE	2.0
17	CREATE	all types	businessValidationMessages XML tag	ERROR	CUSTOMER_INFO_MISSING	2.0
18	MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	INVOICE_REFERENCE_EXPECTED	2.0
19	CREATE	all types	businessValidationMessages XML tag	ERROR	INVOICE_REFERENCE_NOT_EXPECTED	2.0
20	MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	MODIFY_WITHOUT_MASTER_MISMATCH	2.0
21	MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	LINE_MODIFICATION_EXPECTED	2.0

22	CREATE	all types	businessValidationMessages XML tag	ERROR	LINE_MODIFICATION_NOT_EXPECTED	2.0
23	MODIFY, STORNO	batchInvoice	businessValidationMessages XML tag	ERROR	CUSTOMER_NOT_IDENTICAL	2.0
24	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	CUSTOMER_DATA_NOT_EXPECTED	3.0
25	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	CUSTOMER_DATA_EXPECTED	3.0
26	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	ELECTRONIC_INVOICE_HASH_EXPECTED	3.0
27	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	INVALID_INVOICE_HASH_CRYPTO	3.0
28	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	INVALID_INVOICE_HASH	3.0
29	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	INVOICE_APPEARANCE_MISMATCH	3.0
30	ANNUL	all types	businessValidationMessages XML tag	ERROR	ELECTRONIC_INVOICE_ANNULMENT_NOT_ALLOWED	3.0
31	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	INVALID_LINE_VAT_EXEMPTION_CODE	3.0
32	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	INVALID_SUMMARY_VAT_EXEMPTION_CODE	3.0

33	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	INVALID_LINE_VAT_OUT_OF_SCOPE_CODE	3.0
34	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	INVALID_SUMMARY_VAT_OUT_OF_SCOPE_CODE	3.0
35	MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	INCOMPLETE_ELECTRONIC_INVOICE_REFERENCE	3.0
36	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	INVALID_LINE_VAT_AMOUNT_MISMATCH_CODE	3.0
37	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	INVALID_SUMMARY_VAT_AMOUNT_MISMATCH_CODE	3.0
38	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	INVOICE_COMPLETENESS_MERGED_ITEM_INDICATOR_MISMATCH	3.0
39	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	INVOICE_COMPLETENESS_PRIVATE_PERSON_INDICATOR_MISMATCH	3.0
40	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	INVOICE_COMPLETENESS_NOT_ALLOWED	3.0
41	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	INVALID_LINE_VAT_RATE_NORMAL	3.0
42	CREATE, MODIFY, STORNO	normal, aggregate	businessValidationMessages XML tag	ERROR	INVALID_LINE_VAT_RATE_SIMPLIFIED	3.0

43	CREATE, MODIFY, STORNO	simplified	businessValidationMessages XML tag	ERROR	INVALID_SUMMARY_VAT_RATE_NORMAL	3.0
44	CREATE, MODIFY, STORNO	normal, aggregate	businessValidationMessages XML tag	ERROR	INVALID_SUMMARY_VAT_RATE_SIMPLIFIED	3.0
45	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	MISSING_CUSTOMER_DOMESTIC_TAXNUMBER	3.0
46	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	CUSTOMER_COMMUNITY_TAXNUMBER_NOT_EXPECTED	3.0
47	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	CUSTOMER_THIRD_STATE_TAXNUMBER_NOT_EXPECTED	3.0
48	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	INVALID_LINE_VAT_AMOUNT_MISMATCH_VAT_RATE	3.0
49	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	INVALID_SUMMARY_VAT_AMOUNT_MISMATCH_VAT_RATE	3.0
50	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	DOMESTIC_TAXNUMBER_EXPECTED_REVERSE_CHARGE	3.0
51	CREATE, MODIFY, STORNO	all types	businessValidationMessages XML tag	ERROR	INVALID_INVOICE_NUMBER	3.0

Error, actions

#	Cause of error	Action
1	the seller's tax number does not match the tax number in the request	The tax number of the seller in the invoice differs from the authenticated tax number in the API XML, and must be corrected.
2	non-unique invoice number	The taxpayer has already performed data reporting on the invoice number indicated in the invoiceNumber field. The invoice number must be unique per taxpayer. Technically annulled invoices are not included here, assuming that the technical annulment has already been approved by the taxpayer.
3	non-continuous numbering in invoiceLines list element	The lineNumber element under the InvoiceLines list element must be continuously ascending (no gaps in numbering). Verify that there are no misnumbered, incorrect or recurring (appearing more than once) lineNumber values.
4	the invoice contains no line items	It is not possible to report data on an original invoice without items, this issue must be rectified.
5	incorrect invoice reference for modification or technical annulment	The modification or annulment refers to an invoice that cannot be found among the taxpayer's base invoices (where invoiceOperation = CREATE) in the system, and it is not indicated in the request that the modification refers to a different data report (modifyWithoutMaster tag is false in invoiceReference). The invoice number should be corrected, or modifyWithoutMaster tag should be set to "true".
6	the type of invoice referenced in the modification/annulment does not match the base invoice type	If the value of modifyWithoutMaster is false, it means that the type of the invoice referenced in the modification/annulment (invoiceCategory) does not match the invoice type specified in the modifying document (invoiceCategory), correction is required.
7	a line item with the specified number already exists in the invoice chain	The lineModificationReference element contained within the data report includes a line number (lineNumberReference) designated as a line to be created (lineOperation = CREATE), which already exists in the data report regarding a previous invoice of the invoice chain. Either the lineNumberReference or the lineOperation is incorrect and needs correction.
8	incorrect invoice reference for technical annulment	The technical annulment refers to an invoice number in the annulmentReference that cannot be found among the taxpayer's invoices in the system. The referenced invoice number must be verified.
9	a technical annulment procedure is in progress	This error code will be returned in one of two cases. The first case is when a technical annulment is received for an invoice for which another technical annulment is already in progress and waiting for approval. The second case is when a new modifying or cancelling invoice is received for a base invoice for which a technical annulment is already in progress and waiting for approval. The approval/rejection of the technical annulment is carried out via the Online Invoice System interface – both are contingent upon receipt of the annulment request.
10	the customer's tax number is not assigned to a technical user	If the technical user performing the data reporting is restricted by the primary technical user of the data reporting entity to a certain subset of customers, the technical user is only allowed to issue data reports for the invoices issued for the names (tax numbers) of the customers contained in that subset. This error code will be returned if the data report contains an unauthorised customer tax number, or the customer tax number field is empty.

11	the invoice or invoice chain has a higher version number than the requestVersion value of the request	A modifying or cancelling invoice can only be attached to the invoice chain with the version equal to or greater than the base invoice's requestVersion value. Similarly, an invoice or invoice chain can only be technically annulled with a version equal to or greater than the base invoice's requestVersion value. If the invoice chain is mixed, the value of the lowest version contained therein is taken into consideration. The requestVersion value of the request requires correction.
12	the lineNumberReference is not unique at invoice level	When entering the invoice line in the modifying or cancelling invoice, the lineNumberReference element must be unique at the invoice level. If the given invoice line changes repeatedly, the change must be shown aggregated in a single line. Data reporting requires correction.
13	a mandatory content element of the invoice line is missing	If the value of the lineExpressionIndicator tag is "true", the following tags must all be entered in the invoice line: - name of product or service - quantity - quantity unit - unit price If the value of the lineExpressionIndicator tag is "false", the name of the product or service must be entered in the invoice line. Data reporting requires correction.
14	invalid VAT rate or VAT content	The system uses validation to force the correct entry of VAT rates or contents within the limitation period. For regular and aggregate invoices only the values of: - 0.05 - 0.07 - 0.12 - 0.18 - 0.2 - 0.25 - 0.27 and for simplified invoices, only the values of: - 0.0476 - 0.1525 - 0.1667 - 0.2 - 0.2126 may be entered both in the invoice line and the invoice summaries. Data reporting requires correction.

15	the system contains more than one valid instances of the referenced base invoice	A technical annulment must be approved for the referenced base invoice, then the data reporting must be repeated with the correct data. After processing the base invoice, the modification or cancellation data report can be re-submitted.
16	the modification index is not unique	Data has already been submitted using the modificationIndex provided for the modification of the referenced invoice. The content of the data reporting should be checked.
17	customer data missing	For invoice-related data reporting (CREATE), creating the customerInfo node is mandatory. Any failure to meet this condition must be corrected.
18	amending document data missing	For modification (MODIFY) or cancellation (STORNO) related data reporting, creating the invoiceReference node describing the modification data is mandatory. Any failure to meet this condition must be corrected.
19	amending document data should not be shown	For invoice (CREATE) related data reporting, the internal content should not include an invoiceReference node. Any failure to meet this condition must be corrected.
20	modification marked as having no master document actually has a master document	For data reporting referencing an amending document, the modification was specified as having no master document (modifyWithoutMaster = true), however, the referenced invoice is marked as valid in the system. The content of the data reporting should be checked (the reverse case is covered by the INVALID_INVOICE_REFERENCE message).
21	invoice line modification data missing	For modification (MODIFY) or cancellation (STORNO) related data reporting, creating the lineModificationReference node must be included in the invoice lines. Any failure to meet this condition must be corrected.
22	invoice line modification data should not be shown	For invoice (CREATE) related data reporting, the invoice lines of the internal content should not include an lineModificationReference node. Any failure to meet this condition must be corrected.
23	customer data mismatch in batch modification-related data reporting	For batch modifications (batchInvoice), if the customer's tax number is provided, it needs to have identical values for all batchIndexes, correction is necessary.
24	individual customer details should not be provided	If the customer is a private individual (customerVatStatus = PRIVATE_PERSON), the following nodes in the customer data cannot be populated: - customerVatData - customerName - customerAddress
25	non-private customer data are required	If the customer is not a private individual (customerVatStatus != PRIVATE_PERSON), the following nodes in the customer data must be populated: - customerName - customerAddress
26	the hash value of the electronic invoice is required	If the completenessIndicator flag is true (the data report is the electronic invoice itself), electronicInvoiceHash is required.

27	invalid hash-generating algorithm	If the completenessIndicator flag is **true** (the data report is the electronic invoice itself), the value of the electronicInvoiceHash cryptoType hash-generating algorithm attribute value must be SHA3-512. If the value of the completenessIndicator flag is **false**, the possible values for the electronicInvoiceHash cryptoType hash-generating algorithm attribute are: SHA-256, SHA3-512
28	invalid hash value	If the value of the completenessIndicator flag is true (the data report is the electronic invoice itself), the value of electronicInvoiceHash must match the **all-caps** hash value of the **BASE64 encoded value** of the invoiceData node (calculated by the algorithm specified).
29	the data supply for invoices appearing as non-electronic cannot be reported as an electronic invoice	If the completenessIndicator flag is true (the data report is the electronic invoice itself), the invoice appearance (invoiceAppearance) must be ELECTRONIC.
30	a data report accepted as an electronic invoice cannot be technically annulled	If the completenessIndicator flag is true (the data report is the electronic invoice itself) for the referenced invoice when submitting a technical annulment, the invoice cannot be technically annulled.
31	invalid tax exemption code (item)	For all invoice types, it is also possible to specify a tax exemption at the item level (lineAmountsNormal, lineAmountsSimplified) as vatExemption. Starting with version 3.0, this has been subdivided into code (case) and description (reason) fields. Only the following values are currently valid for case (in all-caps): - AAM (Meaning: personal tax exemption) - TAM (Meaning: "tax-exempt activity" or tax-exempt due to its public or specific nature) - KBAET (Meaning: tax-exempt intra-Community sales, without new means of transport) - KBAUK (Meaning: tax-exempt sales of intra-Community new means of transport) - EAM (Meaning: tax-exempt extra-Community product supply (product export to a third country) - NAM (Meaning: tax-exempt on other grounds related to international transactions) - UNKNOWN (Only acceptable for MODIFY and STORNO invoices without any history (modifyWithoutMaster = true OR the version of the reference invoice is lower than 3.0)
32	invalid tax exemption code (summary)	For all invoice types, it is also possible to specify a tax exemption at the summary level (summaryNormal, summarySimplified) as vatExemption. Starting with version 3.0, this has been subdivided into code (case) and description (reason) fields. Only the following values are currently valid for case (in all-caps): - AAM (Meaning: personal tax exemption)

		- TAM ("tax-exempt activity" or tax-exempt due to being in public interest or specific in nature) - KBAET (Meaning: tax-exempt intra-Community sales, without new means of transport) - KBAUK (Meaning: tax-exempt sales of intra-Community new means of transport) - EAM (Meaning: tax-exempt extra-Community product supply (product export to a third country) - NAM (Meaning: tax-exempt on other grounds related to international transactions) - UNKNOWN (Only acceptable for MODIFY and STORNO invoices without any history (modifyWithoutMaster = true OR the version of the reference invoice is lower than 3.0)
33	invalid code indicating the exclusion from the scope of VAT law (item)	For all invoice types, it is also possible to specify an exclusion from the scope of VAT law at the item level (lineAmountsNormal, lineAmountsSimplified) as vatOutOfScope. Starting with version 3.0, this has been subdivided into code (case) and description (reason) fields. Only the following values are currently valid for case (in all-caps): - ATK (Meaning: Outside the scope of VAT) - EUFAD37 (Meaning: based on Section 37 of the VAT Act, a reverse charge transaction carried out in another Member State) - EUFADE (Meaning: reverse transaction carried out in another Member State, not subject to Section 37 of the VAT Act) - EUE (Meaning: non-reverse charge transaction performed in another Member State) - HO (Meaning: transaction in a third country) - UNKNOWN (Only acceptable for MODIFY and STORNO invoices without any history (modifyWithoutMaster = true OR the version of the reference invoice is lower than 3.0)
34	invalid code indicating the exclusion from the scope of VAT law (summary)	For all invoice types, it is also possible to specify an exclusion from the scope of VAT law at the summary level (summaryNormal, summarySimplified) as vatOutOfScope. Starting with version 3.0, this has been subdivided into code (case) and description (reason) fields. Only the following values are currently valid for case (in all-caps): - ATK (Meaning: Outside the scope of VAT) - EUFAD37 (Meaning: based on Section 37 of the VAT Act, a reverse charge transaction carried out in another Member State) - EUFADE (Meaning: reverse transaction carried out in another Member State, not subject to Section 37 of the VAT Act)

		- EUE (Meaning: non-reverse charge transaction performed in another Member State) - HO (Meaning: transaction in a third country) - UNKNOWN (Only acceptable for MODIFY and STORNO invoices without any history (modifyWithoutMaster = true OR the version of the reference invoice is lower than 3.0)
35	the referenced invoice is not a data report accepted as electronic invoice.	For data reporting on modification (MODIFY) or cancellation (STORNO) the value of the completenessIndicator flag for the referenced invoice (the data provision itself being the electronic invoice) is false, and for the submitted MODIFY/STORNO invoice, the completenessIndicator flag is true.
36	invalid code for mismatch between the tax base and the charged tax (item)	For all invoice types, it is also possible to specify a code for the mismatch between the tax base and the charged tax at the item level (lineAmountsNormal, lineAmountsSimplified) as vatAmountMismatch. This has been subdivided into code (case) and tax rate (vatRate) fields. Only the following values are currently valid for case (in all-caps): - REFUNDABLE_VAT (Meaning: VAT was charged under Section 11 or 14, and VAT must be refunded by the recipient of the invoice) - NONREFUNDABLE_VAT (Meaning: VAT was charged under Section 11 or 14 and VAT does not need to be refunded by the recipient of the invoice) - UNKNOWN (Only acceptable for MODIFY and STORNO invoices without any history (modifyWithoutMaster = true OR the version of the reference invoice is lower than 3.0)
37	invalid code for mismatch between the tax base and the charged tax (summary)	For all invoice types, it is also possible to specify a code for the mismatch between the tax base and the charged tax at the summary level (summaryNormal, summarySimplified) as vatAmountMismatch. This has also been subdivided into code (case) and tax rate (vatRate) fields. Only the following values are currently valid for case (in all-caps): - REFUNDABLE_VAT (Meaning: VAT was charged under Section 11 or 14, and VAT must be refunded by the recipient of the invoice) - NONREFUNDABLE_VAT (Meaning: VAT was charged under Section 11 or 14 and VAT does not need to be refunded by the recipient of the invoice) - UNKNOWN (Only acceptable for MODIFY and STORNO invoices without any history (modifyWithoutMaster = true OR the version of the reference invoice is lower than 3.0)

38	the data for an invoice containing merged items cannot be reported as an electronic invoice	The data for an invoice with merged data items (mergedItemIndicator = true) cannot be reported as an electronic invoice, thus the value of the completenessIndicator flag cannot be true.
39	the data for an invoice issued to a private individual cannot be reported as an electronic invoice	The data for an invoice issued to a private individual (customerVatStatus = PRIVATE_PERSON) cannot be reported as an electronic invoice, thus the value of the completenessIndicator flag cannot be "true".
40	the data report cannot be accepted as an electronic invoice	Data reporting as an electronic invoice is not currently supported, thus the completenessIndicator flag cannot be true. This is a temporary error code that may be issued by the system until the legal regulations come into force.
41	the VAT content cannot be specified as non-simplified item value data	If there is a node with normal type value data at the item level (lineAmountsNormal), the value vatContent cannot be populated within the lineVatRate node, as it can only be interpreted for simplified invoices.
42	the tax rate cannot be specified as simplified item value data	If there is a node with simplified type value data at the item level (lineAmountsSimplified), the value vatPercentage cannot be populated within the lineVatRate node, as it can only be interpreted for non-simplified invoices.
43	the VAT content cannot be specified as non-simplified summary value data	If there is a node with normal type value data at the summary level (summaryNormal), the value vatContent cannot be populated within the vatRate node, as it can only be interpreted for simplified invoices.
44	tax rate cannot be specified as simplified summary value data!	If there is a node with simplified type value data at the summary level (summarySimplified), then the vatPercentage value cannot be populated within the vatRate node, as it can only be interpreted for non-simplified invoices.
45	the Hungarian tax number is mandatory to include for domestic VAT taxable customers	If the customer is a domestic VAT taxable person (CustomerVatStatusType = DOMESTIC), the Hungarian tax number (customerVatData) must be provided (except if the seller is VAT registered).
46	the EU VAT number cannot be used for domestic VAT taxable customers	If the customer is a domestic VAT taxable person (CustomerVatStatusType = DOMESTIC) the EU VAT number (communityVatNumber) cannot be used.
47	the non-EU country tax number cannot be used for domestic VAT taxable customers	If the customer is a domestic VAT taxable person (CustomerVatStatusType = DOMESTIC) the non-EU country tax number (thirdStateTaxId) cannot be used.
48	invalid tax rate for mismatch between the tax base and the charged tax (item)	On an item level the tax rate for mismatch between the tax base and the charged tax may only be one of the following values: 0.27, 0.18, 0.05, 0.2126, 0.1525, 0.0426
49	invalid tax rate for mismatch between the tax base and the charged tax (summary)	On a summary level the tax rate for mismatch between the tax base and the charged tax may only be one of the following values: 0.27, 0.18, 0.05, 0.2126, 0.1525, 0.0426
50	the Hungarian tax number is mandatory for domestic reverse-charge transactions	If the items of the invoice include domestic reverse-charge items (vatDomesticReverseCharge), then the Hungarian tax number (customerVatData) is mandatory.

51	invalid invoice number	The invoice number (invoiceNumber) cannot begin or end with whitespace characters (LF (line feed), CR (carriage return), HT (horizontal tab), space).

3.3.3 Warnings

Warnings do not prevent the completion of the data report. However, they suggest that the content of the invoice should be reviewed and corrected, if necessary. The warnings are typed, the tags for which warnings have been issued are indicated in the message as many times as the data report violates the restriction defined in the validation.

The processing system generates and includes the warnings in the responses as a service to inform the taxpayer obligated to perform data reporting. The purpose of the notification regarding errors detected in the data report which do not render the data report invalid is to help identify and correct software, data input errors, and possible faulty practices on the part of the taxpayer obligated to perform data reporting. Warnings are only generated if the problem exists beyond doubt – not if any level of doubt is evident.

The fact that no alert is generated in a data report when the invoice data is received cannot be construed as legal or technical proof that the data provided is correct. An automated test will not necessarily detect a data error in the data report, particularly with respect to discrepancies between the original document and the content of the data report.

The list of data and contexts checked as part of processing the reported data remains open, and may be continuously extended based on the experiences with the system.

While checking the quantitative contexts of the reported invoice data, the system won't issue warnings in cases where quantitative errors are found but are presumably caused by rounding. The greatest deviation thus 'tolerated' is 1% of the net price, but no less than 1 unit.

There is no mandated procedure by law, therefore no general policy exists about what exact actions should be taken in response to warnings. The best practice is essentially determined by the nature of the situation warranting a warning – software errors, data input errors, faulty practices. As a wide variety of different situations can trigger warnings, it might be useful to make the warnings available to the users, the staff responsible for accounting, the technical support unit, the developer of the software – or even several of these, depending on the nature, business and staff size of the company.

The procedure to be followed relating to warnings is not defined by the rules of data reporting, but rather by the general rules applicable to documentation and invoicing. For example, an invoice with numerical errors (e.g. incorrect addition) must be corrected with a modifying document as per the general rules. Not because a warning has been issued for it, but because it has a numerical error.

The detailed description of warnings is contained in Annex I.

4 MASTER DATA

4.1 County codes of competent tax authorities (countyCode)

	County code of corporate enterprise	County code of sole proprietorship
Baranya county	02	22
Bács-Kiskun county	03	23
Békés county	04	24
Borsod-Abaúj-Zemplén county	05	25
Csongrád county	06	26
Fejér county	07	27
Győr-Moson-Sopron county	08	28
Hajdú-Bihar county	09	29
Heves county	10	30
Komárom-Esztergom county	11	31
Nógrád county	12	32
Pest county	13	33
Somogy county	14	34
Szabolcs-Szatmár-Bereg county	15	35
Jász-Nagykun-Szolnok county	16	36
Tolna county	17	37
Vas county	18	38
Veszprém county	19	39
Zala county	20	40
North Budapest	41	41
East Budapest	42	42
South Budapest	43	43
Directorate of Pest County and Metropolitan Directorate for Large Taxpayers	44	44
Taxpayers with exclusive competence	51	51

4.2 Country code type as per the ISO 3166 alpha-2 standard

The ISO country list can be found in the link below. The Alpha-2 code column should be used.

https://www.iso.org/obp/ui/#search

4.3 Availability of postal code master data

https://www.posta.hu/szolgaltatasok/iranyitoszam-kereso

https://www.posta.hu/static/internet/download/Iranyitoszam-Internet_uj.xlsx

4.4 Availability of VTSZ master data

http://nav.gov.hu/data/cms285468/4002_2013.1.sz.mell.pdf

4.5 Availability of SZJ master data

https://www.ksh.hu/osztalyozasok_teszor2-1

4.6 Availability of KN master data

https://www.ksh.hu/kombinalt_nomenklatura

4.7 Availability of CSK master data

http://njt.hu/cgi_bin/njt_doc.cgi?docid=142904.348985 Annex 1 Section A)

4.8 Availability of KT master data

http://njt.hu/cgi_bin/njt_doc.cgi?docid=142904.348985 Annex 1 Section B)

4.9 Availability of EJ master data

https://www.ksh.hu/epitmenyjegyzek_menu

4.10 Availability of TESZOR master data

https://www.ksh.hu/osztalyozasok_teszor2-1

5 VERSION TRACKING

To enable better tracking of service modifications, this section includes major changes and lists the various interface versions implemented.

5.1 Version 1.0

At the time of this document's publication, 1.0 should be indicated in the header/requestVersion element.

5.2 Version 1.1

Interface version 1.1 serves data quality enhancement goals. Given that the version ensures the reverse compatibility of the new XSD with the 1.0 version, the schema namespace does not change either until the above statement holds true.

The modifications introduced do not impact data reporting using the 1.0 version, and all modifications enter into force only if requestVersion > 1.0.

The itemised list of modifications is as follows.

API XSD modification

The modifications listed only enter into force if requestVersion > 1.0

1) In the BasicHeaderType type, the value set of the requestVersion tag has been expanded with the 1.1 value.
2) The requestVersion value of the queried transaction is returned in the originalRequestVersion tag of the response of the /queryInvoiceStatus query operation (as data reporting was performed)

3) The requestVersion value of the queried invoice is returned in the auditData/originalRequestVersion tag of the response of the /queryInvoiceData query operation (as data reporting was performed) in the case of a non-parametric search

Data XSD modification

The modifications listed only enter into force if requestVersion > 1.0

1) The lowest allowed value of the DateType type has been changed to the value 2010-01-01. This also means that no values lower than this may be entered in the API invoice data search.
2) The lowest allowed value of the TimestampType type has been changed to 2010-01-01T00:00:00.000Z.
3) Entering the exchange rate tag (exchangeRate) in the invoice header has become mandatory. For a HUF invoice 1, while in the case of a foreign currency invoice the actual exchange rate must be entered. If the modifying invoice does not contain an invoice line, but it is necessary to enter the exchange process again because of changes in the invoice heading, the last valid value preceding the modification must be entered in the exchangeRate tag.
4) In the case of a non-aggregate invoice, the summary by VAT rate (summaryByVatRate) must be entered into the invoice summary at least once. If the modifying invoice does not contain an invoice line (and as a result no VAT summary can be provided), then in the case of a regular and aggregate invoice a VAT rate of 27% and HUF 0, while in the case of a simplified invoice, a VAT rate of 0% and HUF 0 must be specified.
5) A logical indicator tag (lineExpressionIndicator) has been introduced to the invoice line, whose entry is mandatory in all invoice lines. If tag value equals true, the following must be mandatorily entered in the given invoice line:
   a. name of product or service
   b. quantity
   c. quantity unit
   d. unit price
   If the value of the tag is false, only the name of the product or service must be entered in the given invoice line.
6) The quantity unit that can be entered in the invoice line (unitOfMeasure) has been assigned an own type, with the following enumerations, whose use is mandatory:

Quantity unit	Value of the UnitOfMeasureType element
Piece	PIECE
Kilogram	KILOGRAM
Ton	TON
Kilowatt hour	KWH
Day	DAY
Hour	HOUR
Minute	MINUTE
Month	MONTH
Litre	LITRE

Kilometre	KILOMETER
Cubic meter	CUBIC_METER
Meter	METER
Linear meter	LINEAR_METER
Carton	CARTON
Package	PACK
Own	OWN

If the quantity unit included in the invoice does not match any of the types, the OWN value should be selected.

7) An own quantity unit type has been introduced in the invoice line. This should be used when the quantity unit stated in the invoice does not match any of the quantity units in the unitOfMeasure list of elements, and thus the unitOfMeasure element lists the value as "OWN". If the canonical quantity unit value is OWN and no quantity unit of its own is given, the system sends a WARN message. Own quantity units can also be included if the unitOfMeasure element includes a value other than "OWN".

New technical errors

1) Invoice processing results may only be queried in the /queryInvoiceStatus operation using a requestVersion number that is equal to or higher than that of the data report. If the rule is not met, the synchronising operation is rejected with error code STATUS_QUERY_NOT_ALLOWED, and the data report will not be considered queried.

New blocking validations

The validations listed only run if requestVersion > 1.0. Line-level validations also return pointers.

1) In the case of MODIFY, STORNO or ANNUL operations, if the version of the referenced invoice is greater than 1.0, operations can only be performed with a request of at least equivalent version. Therefore, an invoice made with version 1.1 cannot be modified, cancelled or technically annulled with a 1.0 request. If the rule is not met, the operation is rejected with error code REQUEST_VERSION_REFERENCE_ERROR.
2) In a modifying or cancelling invoice, if the invoice line is entered, the lineNumberReference tag must be unique in the whole of the invoice. If the reference line is affected by multiple modifications, these must be communicated as one, in aggregated form. If the above rule is not met, the operation is rejected with error code LINE_NUMBER_REFERENCE_NOT_UNIQUE.
3) For a base invoice or for a modifying or cancelling invoice (if these contain invoice lines), the value of the lineExpressionIndicator tag must be entered in all invoice lines. If the above rule is not met, the operation is rejected with error code LINE_EXPRESSION_INDICATOR_MISSING.
4) Data entry rules must be met in the invoice line corresponding to the value of the lineExpressionIndicator tag (see Data XSD modification Section 5). If the entry rule is not met, the operation is rejected with the MANDATORY_LINE_CONTENT_MISSING error code.
5) The system checks the VAT rate and VAT amount values in the invoice lines and invoice summaries at the validation level. For regular and aggregate invoices only the values of:
   - 0.05
   - 0.07

- o 0.12
- o 0.18
- o 0.2
- o 0.25
- o 0.27

and for simplified invoices, only the values of:

- o 0
- o 0.0476
- o 0.1525
- o 0.1667
- o 0.2
- o 0.2126

may be entered both in the invoice line and the invoice summaries. If the above rule is not met, the operation is rejected with error code INVALID_VAT_DATA.

WARN modifications

The modifications listed only enter into force if requestVersion > 1.0, except for phased-out WARN messages, whose modification is retroactive to 1.0.

1) The following WARN messages have been phased out:
   a. INCORRECT_SUMMARY_CALCULATION_VAT_RATE_GROSS_AMOUNT_LINE
   b. INCORRECT_SUMMARY_CALCULATION_INVOICE_VAT_RATE_GROSS_AMOUNT_SUMMARY
   c. INCORRECT_SUMMARY_CALCULATION_INVOICE_GROSS_AMOUNT
   d. INCORRECT_LINE_DATA_LINE_VAT_RATE
   e. MISSING_SUMMARY_DATA_INVOICE_VAT_AMOUNT_HUF
   f. INCORRECT_PRODUCT_CODE_EXCISE_LICENSE_NUM
   g. INCORRECT_PRODUCT_FEE_DATA_OBLIGATED_SUMMARY
   h. INCORRECT_PRODUCT_FEE_CALCULATION_PRODUCT_CODE_VALUE
   i. MISSING_LINE_DATA_QUANTITY
   j. MISSING_LINE_DATA_DESCRIPTION
   k. MISSING_HEAD_DATA_EXCHANGE_RATE
   l. INVALID_UNIT_OF_MEASURE_OWN
   m. MISSING_HEAD_DATA_INVOICE_ISSUE_DATE
   n. MISSING_LINE_DATA_LINE_EXCHANGE_RATE
2) The following WARN messages have been introduced:
   a. SUPPLIER_CUSTOMER_MATCH_NAME
   b. MISSING_LINE_PRODUCT_FEE_CONTENT
   c. MISSING_LINE_DATA_LINE_EXCHANGE_RATE
   d. MISSING_HEAD_DATA_CUSTOMER_TAXNUMBER
   e. INCORRECT_SUMMARY_DATA_INVOICE_VAT_AMOUNT_HUF
   f. INCORRECT_SUMMARY_DATA_AGGREGATE_INVOICE_VAT_AMOUNT_HUF
   g. INCORRECT_SUMMARY_CALCULATION_VAT_RATE_VAT_AMOUNT_SUMMARY
   h. INCORRECT_SUMMARY_CALCULATION_INVOICE_VAT_AMOUNT_SUMMARY
   i. INCORRECT_PRODUCT_CODE_VALUE_OWN

      j.   INCORRECT_DATE_INVOICE_MODIFICATION_ISSUE_DATE_ORIGINAL
      k.   INCORRECT_DATE_INVOICE_MODIFICATION_ISSUE_DATE_LATE
      l.   INCORRECT_DATE_INVOICE_MODIFICATION_ISSUE_DATE_EARLY
      m. INCORRECT_DATE_INVOICE_ISSUE_DATE_LATE
      n.   INCORRECT_DATE_INVOICE_ISSUE_DATE_EARLY
      o.   INCORRECT_DATE_INVOICE_DELIVERY_DATE_LATE
      p.   INCORRECT_DATE_INVOICE_DELIVERY_DATE_EARLY
      q.   INCORRECT_DATE_AGGREGATE_INVOICE_DELIVERY_DATE
      r.   INCORRECT_SUMMARY_CALCULATION_INVOICE_GROSS_AMOUNT_LINE
      s.   INCORRECT_SUMMARY_CALCULATION_VAT_CONTENT_SUMMARY_SIMPLIFIED
      t.   INCORRECT_SUMMARY_CALCULATION_VAT_CONTENT_GROSS_AMOUNT_SUMMAR Y_SIMPLIFIED
      u.   INCORRECT_SUMMARY_CALCULATION_INVOICE_VAT_AMOUNT
      v.   INCORRECT_LINE_REFERENCE
      w. INCORRECT_LINE_DATA_UOM_INCOMPLETE
3)   The following WARN messages have been modified:
      a.   INCORRECT_VAT_CODE_SUPPLIER
      b.   INCORRECT_VAT_CODE_SUPPLIER_GROUPMEMBER
      c.   INCORRECT_VAT_CODE_CUSTOMER
      d.   INCORRECT_VAT_CODE_CUSTOMER_GROUPMEMBER
      e.   INCORRECT_VAT_CODE_FISCALREPRESENTATIVE
      f.   INCORRECT_VAT_CODE_TAXNUMBEROFOBLIGATOR
      g.   INCORRECT_COUNTY_CODE_SUPPLIER_GROUPMEMBER
      h.   INCORRECT_COUNTY_CODE_CUSTOMER_GROUPMEMBER
      i.   INCORRECT_COUNTY_CODE_FISCAL_REPRESENTATIVE
      j.   INCORRECT_COUNTRY_CODE_FISCALREPRESENTATIVEADDRESS
      k.   INCORRECT_DATE_INVOICE_MODIFICATION_TIMESTAMP
      l.   MISSING_HEAD_DATA_CUSTOMER
      m. INCORRECT_HEAD_DATA_FISCAL_REPRESENTATIVE_TAX_NUMBER
      n.   INCORRECT_LINE_DATA_LINE_AMOUNTS_NORMAL_MANDATORY
      o.   INCORRECT_LINE_DATA_AGGREGATE_INV_LINE_DATA_MANDATORY
      p.   INCORRECT_VAT_CODE_SUPPLIER_GROUPMEMBER_MISSING
      q.   INCORRECT_HEAD_DATA_LAST_MOD_INVOICE_NUMBER
      r.   INCORRECT_HEAD_DATA_MOD_REF_INVOICE_NUMBER
      s.   INCORRECT_HEAD_DATA_INVOICE_NUMBER_LAST_MOD_DOC_NUMBER
      t.   INCORRECT_HEAD_DATA_LAST_MOD_LAST_MOD_DOC_NUMBER has been renamed INCORRECT_HEAD_DATA_ORIGINAL_LAST_MOD_DOC_NUMBER
      u.   INCORRECT_LINE_DATA_LINE_AMOUNTS_SIMPLIFIED_NOT_ALLOWED
      v.   INCORRECT_PRODUCT_FEE_CALCULATION_PRODUCT_FEE_AMOUNT
      w. INCORRECT_PRODUCT_FEE_CALCULATION_AGGREGATE_PRODUCT_CHARGE_SUM
      x.   INCORRECT_LINE_CALCULATION_GROSS_AMOUNT
      y.   INCORRECT_LINE_CALCULATION_NETTO_AMOUNT has been renamed INCORRECT_LINE_CALCULATION_NET_AMOUNT
      z.   INCORRECT_SUMMARY_CALCULATION_VAT_RATE_NET_AMOUNT_LINE
      aa. INCORRECT_SUMMARY_DATA_VAT_PERCENTAGE
      bb. INCORRECT_SUMMARY_DATA_VAT_EXEMPTION
      cc. INCORRECT_SUMMARY_DATA_VAT_OUT_OF_SCOPE

dd. INCORRECT_SUMMARY_DATA_VAT_DOMESTIC_REVERSE_CHARGE
ee. INCORRECT_SUMMARY_DATA_MARGIN_SCHEME_VAT
ff. INCORRECT_SUMMARY_DATA_MARGIN_SCHEME_NO_VAT
gg. INCORRECT_HEAD_DATA_FISCALREPRESENTATIVE
hh. INCORRECT_SUMMARY_CALCULATION_INVOICE_NET_AMOUNT
ii. INCORRECT_SUMMARY_CALCULATION_VAT_RATE_VAT_AMOUNT_HUF_SUMMARY
has been renamed
INCORRECT_SUMMARY_CALCULATION_INVOICE_VAT_AMOUNT_HUF_SUMMARY
jj. INCORRECT_SUMMARY_CALCULATION_INVOICE_GROSS_AMOUNT_SUMMARY
kk. ISSUE_DATE_TIMESTAMP_MISMATCH

The detailed review of existing as well as new and modified WARN messages is contained in Annex I.

5.3 Version 2.0

The goal of the 2.0 interface is refactoring the existing system, expanding the range of services offered, and replacing the SHA-512 hash algorithm with a SHA3-512 algorithm for the requestSignature calculation. This modification is a breaking change, and therefore the major 2.0 version will receive new service endpoints and a new XML namespace.

The modifications introduced do not impact data reporting using the 1.1 version, and all modifications enter into force only if requestVersion > 1.1 and the client submits the request to the new, v2 endpoint. A description of the new test and a list of the live endpoints can be found in Section 6.

The itemised list of modifications is as follows.

General modifications

1) The two existing XSDs (invoiceApi and invoiceData) have been separated. In version 2.0, the invoiceAnnulment XSD contains the technical annulment data, meaning that the previous internal choice in the invoiceData XSD has been removed. There is also a new serviceMetrics XSD, containing the operational metrics of the service.
2) Every schema now has a new namespace, assigned the value of „http://schemas.nav.gov.hu/OSA/2.0/…”
3) The documentation was supplemented with the general relationships between the different versions. For details, see: "Version Control".

API XSD general modifications

1) Every request and response received its own complex type.
2) Providing the software data for every request is now mandatory for the fields defined in the schema.
3) The method for calculating requestSignature is now different in every request. For details, see: Section 1.5.

Modifications of API XSD operations

1) There is a new /manageAnnulment operation. This request allows for sending a technical annulment, meaning that in 2.0, technical annulments are no longer sent using the /manageInvoice operation. For details, see: the section "/manageAnnulment operation".

2) The technicalAnnulment boolean was removed from the /manageInvoice operation, and the operation received its own type, with only the following possible values: CREATE, MODIFY, STORNO.

3) The previously existing heterogeneous /queryInvoiceData query operation was separated into three parts:

- - /queryInvoiceCheck, which only checks the existence of an invoice based on its invoice number, without returning any of the invoice data

- /queryInvoiceDigest, which allows for querying an invoice with parameters, returning only the required business data (digest) of an invoice in a pageable list.

- after the separation, the only remaining use case of /queryInvoiceData is to allow for querying the full data content of the invoice based on the invoice number.

- all three queries can be used from both the supplier and the customer side. For details, see the description of the individual operations in the sections "/queryInvoiceCheck operation", "/queryInvoiceDigest operation" and "/queryInvoiceData operation".

4) The interface services now include the /queryServiceMetrics operation, which allows for querying the business metrics of the system and the service receiving the invoice. This service is currently inactive, and will be activated and documented later on.

5) The /queryInvoiceStatus operation, used to query the processing status of invoices, has been renamed to /queryTransactionStatus. The service is capable of returning the approval status and other business data of transactions containing technical annulments, based on the service transaction ID. In addition, the pointer tag returned in the response now has the originaInvoiceNumber tag, which is to be filled out for MODIFY and STORNO data reports.

6) The response to the /queryTaxpayer operation, used to query the tax number, will now contain the taxpayer's short name and any VAT group that the taxpayer is a member of, if provided with a valid tax number. The internal address data are no longer inherited from their own type, but rather from the data schema definition DetailedAddressType. Note that the short name is not currently live, due to a missing data link that has not been fully developed yet. As soon as the development is complete, we will post a bulletin about short names being usable.

7) The response to the /queryTaxpayer operation, used to query the tax number, will now contain the last modification of the taxpayer's data, and the taxpayer's complete tax number (registration number – VAT register – county code). The taxpayer's address information is already present as a list in the response.

8) The /queryInvoiceChainDigest query operation has been introduced. The query primarily contains the number of lines in the invoice chain and data regarding the modifications. The operation also handles mixed version (1.x, 2.0) chains.

9) The /queryTransactionList query operation has been introduced. The query is used to list the transactions for data reporting over a specified time interval.

10) The /queryServiceMetrics query operation has been introduced. The query reports general operational metrics for the Online Invoice System. For details, see the section "System Diagnostics".

11) The /queryInvoiceDigest operation allows for filtering the retuned invoices by supplier and customer. With this, the previous supplierTaxNumber search parameter under the mandatoryQueryParams node is removed; filtering by tax number can be specified in the additionalQueryParams/taxNumber tag.

New synchronous messages

1) Version 2.0 can now return the following synchronous error messages:

- MULTIPLE_QUERY_RESULT_FOUND
- BAD_QUERY_PARAM_OVERLAP
- BAD_QUERY_PARAM_RANGE_EXCEEDED
- BAD_QUERY_PARAM_EQ_NOT_STANDALONE
- BAD_QUERY_PARAM_OPERATOR_COLLISION
- BAD_QUERY_PARAM_SUPPLIER_NOT_EXPECTED
- BAD_QUERY_PARAM_SUPPLIER_EXPECTED
- INVALID_TIMESTAMP

For more on how these error messages work, see Section 3.2.

Removed synchronisation error messages

1) Changes to the Version 2.0 schema have resulted in the removal of the following error messages:

- INVALID_OPERATION
- BAD_QUERY_PARAM

General modifications to invoice (CREATE) data content

1) The 2.0 invoiceData schema contains the following modifications:

- the top level of the invoice now includes the invoice serial number and the issue date
- the lineExpressionIndicator tag is now mandatory, with a default value of false, matching the other boolean fields
- The PostalCodeType now has a new pattern, the mandatory length of the entered value has been decreased from 4 to 3 characters, and spaces and hyphens are now allowed, as long as they are not the first or last characters of the string
- the length of the lineDescription tag is now 512 characters
- the ProductCodeCategoryType now has a new enum (TESZOR), and its maximum length is now 6 characters
- the length of the productCodeOwnValue tag is now 255 characters
- the invoiceData node describing the additional business data of the invoice and located in the invoice heading has been renamed to invoiceDetail
- the invoiceDeliveryDate tag is now mandatory
- a small taxpayer indicator (smallBusinessIndicator) and periodical settlement indicator (periodicalSettlement) have been added to the business content of invoices as new content
- lineNatureIndicator, an indicator that can be used to describe the nature of the product/service has been added as optional new content to the invoice line elements. For information on how to use it, see: 2.3.17
- as new contents, regular and simplified invoice lines and invoice summaries used for regular and simplified invoices were amended with the pairs of monetary terms that have so far been denominated in the invoice currency only or in HUF; after the modification, all monetary terms have amount expressed in invoice currency and HUF as follows:
    a. unit price in HUF (line/unitPriceHUF)

b. item net total in HUF
(invoiceLines/line/lineAmountsNormal/lineNetAmountData/lineNetAmountHUF)

c. item gross amount in HUF
(invoiceLines/line/lineAmountsNormal/lineGrossAmountData/lineGrossAmountNormalHUF)

d. item gross amount in HUF
(invoiceLines/line/lineAmountsSimplified/lineGrossAmountSimplifiedHUF)

e. invoice gross amount in HUF
(invoiceSummary/summaryGrossData/invoiceGrossAmountHUF)

f. invoice net amount in HUF
(invoiceSummary/summaryNormal/invoiceNetAmountHUF)

g. invoice VAT content gross amount in HUF
(invoiceSummary/summarySimplified/vatContentGrossAmountHUF)

h. net tax amount in HUF
(invoiceSummary/summaryNormal/summaryByVatRate/vatRateNetData/vatRateNetAmountHUF)

i. gross tax amount in HUF
(invoiceSummary/summaryNormal/summaryByVatRate/vatRateGrossData/vatRateGrossAmountHUF)

The requirements for the elements are inherited from their previously defined pair in the schema.

New rules regarding the data reporting for modification and cancellation invoices (MODIFY, STORNO)

1) In Version 2.0, the previously existing modificationIssueDate, modificationTimestamp and lastModificationReference elements have been removed. The issue date of the amending document should be stated in the invoiceIssueDate element containing the issue date of the invoice, the same as for invoices. There is a new element called modificationIndex, which describes the invoice modification's logical sequence. For detailed rules, see: Chapter 2.2.1

Data report on documents modifying multiple invoices

1) As of Version 2.0, data reporting for modifying multiple invoices with a single amending document works differently. For detailed rules, see: Chapter 2.5.6

New reasons for technical annulment

1) By placing the invoice issue date at the top level, the value of invoiceIssueDate can no longer be modified. To perform technical corrections, the annulmentCode element describing technical annulment reasons now has a new enum, a value called ERRATIC_INVOICE_ISSUE_DATE.

New asynchronous error messages

1) Version 2.0 can now return the following asynchronous error messages:

- MODIFICATION_INDEX_NOT_UNIQUE
- CUSTOMER_INFO_MISSING
- INVOICE_REFERENCE_EXPECTED

- INVOICE_REFERENCE_NOT_EXPECTED
- MODIFY_WITHOUT_MASTER_MISMATCH
- LINE_MODIFICATION_EXPECTED
- LINE_MODIFICATION_NOT_EXPECTED
- CUSTOMER_NOT_IDENTICAL
- DUPLICATE_INVOICE_LINE_CREATION

For more on how these error messages work, see Chapter 3.3.2

Separated asynchronous (ERROR) error messages

1) Version 2.0 has separated two previously ambiguous error messages into several more specific cases, to ensure that broken XMLs remain distinguishable from the status-dependent cases at the client-side.

INVALID_INVOICE_REFERENCE

- the operation is not CREATE and the internal content does not include an invoiceReference node: INVOICE_REFERENCE_EXPECTED
- the operation is CREATE and the internal content includes an invoiceReference node: INVOICE_REFERENCE_NOT_EXPECTED
- the value of modifyWithoutMaster is inaccurate (the value is true but the referenced invoice is listed as valid among the taxpayer's invoices): MODIFY_WITHOUT_MASTER_MISMATCH

After separation, the INVALID_INVOICE_REFERENCE error code can only be returned in a single case: if the referenced invoice is not listed as valid among the taxpayer's invoices.

INVOICE_LINE_ALREADY_EXISTS

- the operation is not CREATE and the invoice lines of the internal content do not include a lineModificationReference node: LINE_MODIFICATION_EXPECTED
- the operation is CREATE and the invoice lines of the internal content include a lineModificationReference node: LINE_MODIFICATION_NOT_EXPECTED

After separation, the INVOICE_LINE_ALREADY_EXISTS error code can only be returned in a single case: if lineOperation = CREATE and the value of lineNumberReference exists in the unified invoice status.

Removed asynchronous (ERROR) error messages

1) Changes to the Version 2.0 schema have resulted in the removal of the following error messages:

- MANDATORY_CONTENT_MISSING
- LINE_EXPRESSION_INDICATOR_MISSING

WARN operational modifications

1) The following WARN modifications have been made in Version 2.0:

- the WARN named INCORRECT_DATE_AGGREGATE_INVOICE_DELIVERY_DATE will not run in MODIFY and STORNO operations

- the previously existing WARN named INCORRECT_DATE_INVOICE_MODIFICATION_ISSUE_DATE_ORIGINAL has been renamed to INCORRECT_DATE_MODIFICATION_ISSUE_DATE_EARLY

Didactic modifications to WARN descriptions

1) The WARN message tag descriptions have been clarified to help users better understand the problems and the way to solve them. The modified description can be found in Annex I to the document.

Removed WARN messages

1) Changes to the Version 2.0 schema have resulted in the removal of the following WARN messages:

- INCORRECT_DATE_INVOICE_MODIFICATION_TIMESTAMP
- INCORRECT_HEAD_DATA_LAST_MOD_INVOICE_NUMBER
- INCORRECT_HEAD_DATA_INVOICE_NUMBER_LAST_MOD_DOC_NUMBER
- INCORRECT_HEAD_DATA_ORIGINAL_LAST_MOD_DOC_NUMBER
- ISSUE_DATE_TIMESTAMP_MISMATCH

New WARN messages

1) Version 2.0 can now return the following WARN error messages:

- INCORRECT_SUMMARY_DATA_INVOICE_NET_AMOUNT
- INCORRECT_SUMMARY_DATA_INVOICE_GROSS_AMOUNT
- INCORRECT_LINE_CALCULATION_LINE_NET_AMOUNT_HUF
- INCORRECT_LINE_CALCULATION_AGGREGATE_LINE _NET_AMOUNT_HUF
- INCORRECT_LINE_CALCULATION_LINE_VAT_AMOUNT_HUF
- INCORRECT_LINE_CALCULATION_AGGREGATE_LINE _VAT_AMOUNT_HUF
- INCORRECT_LINE_CALCULATION_LINE_UNIT_PRICE_HUF
- INCORRECT_LINE_CALCULATION_AGGREGATE_LINE_UNIT_PRICE_HUF
- INCORRECT_LINE_CALCULATION_LINE_GROSS_AMOUNT_NORMAL_HUF
- INCORRECT_LINE_CALCULATION_AGGREGATE_LINE_GROSS_AMOUNT_NORMAL_HUF
- INCORRECT_LINE_CALCULATION_LINE_GROSS_AMOUNT_SIMPLIFIED_HUF
- INCORRECT_LINE_CALCULATION_LINE_GROSS_AMOUNT_NORMAL_SUM
- INCORRECT_SUMMARY_DATA_INVOICE_NET_AMOUNT_HUF
- INCORRECT_SUMMARY_DATA_INVOICE_VAT_CONTENT_GROSS_AMOUNT_HUF
- INCORRECT_SUMMARY_DATA_INVOICE_GROSS_AMOUNT_HUF
- INCORRECT_SUMMARY_DATA_INVOICE_VAT_RATE_NET_AMOUNT_HUF
- INCORRECT_SUMMARY_DATA_INVOICE_VAT_RATE_VAT_AMOUNT_HUF
- INCORRECT_SUMMARY_CALCULATION_VAT_RATE_NET_AMOUNT_HUF_LINE
- INCORRECT_SUMMARY_CALCULATION_INVOICE_NET_AMOUNT_HUF
- INCORRECT_SUMMARY_CALCULATION_INVOICE_GROSS_AMOUNT_HUF_SUMMARY
- INCORRECT_SUMMARY_CALCULATION_VAT_RATE_VAT_AMOUNT_HUF_SUMMARY
- INCORRECT_SUMMARY_CALCULATION_INVOICE_GROSS_AMOUNT_HUF_LINE
- INCORRECT_SUMMARY_CALCULATION_VAT_CONTENT_GROSS_AMOUNT_HUF_SUMMARY_ SIMPLIFIED

- INCORRECT_SUMMARY_CALCULATION_INVOICE_VAT_AMOUNT_HUF
- INCORRECT_SUMMARY_CALCULATION_INVOICE_NET_AMOUNT_LINE_HUF

See Annex I on the operation of the new WARNs.

5.4 Version 3.0

Interface version 3.0 is primarily intended to provide new business functionalities effective 4 January 2021, and to create a general, flexible schema that is sustainable in the long term.

New business functionalities

The key business features of Schema 3.0 are:

- electronic invoicing support
- reporting of large invoices
- public utility settlement invoice reporting

These functions are explained in separate chapters (2.6 – 2.8).

General XSD modifications

- With respect to that after retiring the value limit with the effect of 01.07.2020, the Online Invoice API became a common language and communication platform that all invoicing solutions across the country conforming to legislation have to support, NAV takes its IT concept further. Generic types, as well as types of a business catalogue nature and those describing communications which can be used in other projects have been extracted and refactored into a new common XSD from the schemas of Online Invoice. The common XSD received its own namespace and versioning schema, and is therefore stored in a separate GitHub project at https://github.com/nav-gov-hu/Common. Extraction came at the cost of a substantial amount of namespace changes, however taxpayers will not need to create new technical users for future NAV XML APIs in exchange. The technical users registered in Online Invoice will be able to use the same authentication data and keys, the same base XML structure and the same or similar cryptographic methods to invoke services of APIs of other projects. A great example is the XML API of the ongoing e-VAT (e-áfa) project, which will support this platform and mechanism.

- Since schemas of the Online Invoice project import a namespace to support the common XSD that is no longer part of the project, the catalogue XSD technology (https://www.oasis-open.org/committees/download.php/14809/xml-catalogs.html#s.using.catalogs) has been implemented. This causes all <xs:import> tags to lose their schemaLocation attributes, and the catalogue defines the location of imports in the schema maintained by NAV. Most XML processors look for imported schemas in the same file path where the schema definition to process is stored, therefore all developer parties shall decide to either reinsert the schemaLocation tag to the schema downloaded from NAV, or switch to using the catalogue. Both solutions are adequate. Using the catalogue for the common XSD is generally recommended for the reason that once you use the common schema in multiple projects of yours, you only need to make updates in one location in response to schema changes. A template file is provided for the catalogue for convenience. The template will support URI

name and publicId, too, and you will be able to use it with local and web resource access as well, via the GitHub repo.

The XSD hierarchy will be cleared, and invoiceData will no be longer preferred in the sequence of imports. To achieve this, types used in multiple schemas of the Online Invoice System, yet too specific to be included in the common XSD, will be available in a new schema named invoiceBase. Version 3.0 schemas of the Online Invoice System (API, Data, Annulment, Metrics) all import the common XSD and the invoiceBase schema only, clearing the dependency hierarchy.

Modifications of API XSD operations

1) A new element, incorporation, has been added to the response to the /queryTaxpayer operation, to determine whether the VAT ID belongs to a business or a private entrepreneur. Its possible values are:

- ORGANIZATION: Business organisation

- SELF_EMPLOYED: Self-employed

- TAXABLE_PERSON: Natural person holding a VAT ID

2) The response to the /queryTransactionList operation has 2 new elements:

- requestStatus: the status of the transaction

- technicalAnnulment: technical annulment

3) The response to the /queryInvoiceDigest operation returns the value of completenessIndicator (the data report is the electronic invoice itself)

4) Names of group identifier elements in the response of the /queryInvoiceDigest operation have been refined: supplierGroupTaxNumber -> supplierGroupMemberTaxNumber, customerGroupTaxNumber -> customerGroupMemberTaxNumber

5) In the /manageInvoice request section, the electronicInvoiceHash field has been added to the invoiceOperation node.

6) In the /queryInvoiceData response section, the electronicInvoiceHash field has also been added to InvoiceDataResult.

7) The requestStatus field is added to the /queryTransactionList request, but it is optional and can be used to filter for transaction status.

New synchronous messages

1) Version 3.0 can now return the following asynchronous error messages:

- INVALID_PASSWORD_HASH_CRYPTO

- INVALID_REQUEST_SIGNATURE_HASH_CRYPTO
- INVALID_REQUEST_VERSION
- INVALID_HEADER_VERSION

For more on how these error messages work, see the "Error management" section.

General modifications to invoice data content

1) The electronicInvoiceHash (optional) field has been moved out to the API level, as its hash value must be calculated based on the BASE64 value of the entire invoiceData node.

2) The completenessIndicator (mandatory) field has been introduced, which can be used to indicate that the data report is the electronic invoice itself.

3) customerInfo has been supplemented with the (mandatory) customerVatStatus field to indicate the VAT status of the customer:

- DOMESTIC: Domestic VAT taxable person,
- OTHER: Other (domestic non-VAT taxable person, non-natural person, foreign VAT taxable person and foreign non-VAT taxable person, non-natural person),
- PRIVATE_PERSON: Non-VAT taxable natural person (domestic or foreign)

4) customerVatData has been introduced to indicate the customer tax number; the field can contain exactly one of the domestic tax number, community tax number and third country tax ID. For a detailed description, see the chapter titled "**Customer tax number**".

5) invoiceDetail has been supplemented with the utilitySettlementIndicator (optional) field, which can be used to indicate the utility settlement invoice type.

6) A new conventionalInvoiceInfo/conventionalLineInfo (optional) node is available at the item and invoice level, which can be used to specify conventional, named other data to facilitate easier processing.

7) The invoiceLine node has been supplemented with the mergedItemIndicator (mandatory) field, which can be used to indicate whether the invoice contains item(s) with consolidated data content.

8) At the item level, the field indicating the nature of the advance payment is now a complex type. The new advanceData (optional) node contains the advance payment information for the item.

9) At both the item and summary level, a node with tax rate/exemption values has been introduced for both simplified and normal nodes. See the section "**vatRate**".

10) For simplified invoices, the specified tax rate can no longer take the value of 0, as of XSD version 3.0. If it does, the INVALID_VAT_DATA error message is displayed.

New reasons for technical annulment

1) By raising the hash value of the invoice to API level, the value of the electronicInvoiceHash tag can no longer be modified. To perform technical corrections, the annulmentCode element describing technical annulment reasons now has a new enum, a value called ERRATIC_ELECTRONIC_HASH_VALUE.

New asynchronous error messages

1) Version 3.0 can now return the following asynchronous error messages:

- CUSTOMER_DATA_NOT_EXPECTED
- CUSTOMER_DATA_EXPECTED
- ELECTRONIC_INVOICE_HASH_EXPECTED
- INVALID_INVOICE_HASH_CRYPTO
- INVALID_INVOICE_HASH
- INVOICE_APPEARANCE_MISMATCH
- ELECTRONIC_INVOICE_ANNULMENT_NOT_ALLOWED
- INVALID_LINE_VAT_EXEMPTION_CODE
- INVALID_SUMMARY_VAT_EXEMPTION_CODE
- INVALID_LINE_VAT_OUT_OF_SCOPE_CODE
- INVALID_SUMMARY_VAT_OUT_OF_SCOPE_CODE
- INCOMPLETE_ELECTRONIC_INVOICE_REFERENCE
- INVALID_LINE_VAT_AMOUNT_MISMATCH_CODE
- INVALID_SUMMARY_VAT_AMOUNT_MISMATCH_CODE
- INVOICE_COMPLETENESS_MERGED_ITEM_INDICATOR_MISMATCH
- INVOICE_COMPLETENESS_PRIVATE_PERSON_INDICATOR_MISMATCH
- INVOICE_COMPLETENESS_NOT_ALLOWED
- INVALID_LINE_VAT_RATE_NORMAL
- INVALID_LINE_VAT_RATE_SIMPLIFIED
- INVALID_SUMMARY_VAT_RATE_NORMAL
- INVALID_SUMMARY_VAT_RATE_SIMPLIFIED
- MISSING_CUSTOMER_DOMESTIC_TAXNUMBER
- CUSTOMER_COMMUNITY_TAXNUMBER_NOT_EXPECTED
- CUSTOMER_THIRD_STATE_TAXNUMBER_NOT_EXPECTED
- INVALID_LINE_VAT_AMOUNT_MISMATCH_VAT_RATE
- INVALID_SUMMARY_VAT_AMOUNT_MISMATCH_VAT_RATE
- DOMESTIC_TAXNUMBER_EXPECTED_REVERSE_CHARGE
- INVALID_INVOICE_NUMBER

For more on how these error messages work, see the "Error management" section.

WARN operational modifications

1) Version 3.0 changes the behavior of the following existing WARNs:

- SUPPLIER_CUSTOMER_MATCH_NAME
- SUPPLIER_CUSTOMER_MATCH_BANKACCOUNT
- INCORRECT_VAT_CODE_FISCALREPRESENTATIVE
- INCORRECT_HEAD_DATA_MOD_REF_INVOICE_NUMBER

2) For WARNs checking for tolerated deviation, the degree of tolerated deviation has changed as follows:

"The tolerated deviation is 1% of the calculated value expressed in HUF, but at least 1 HUF or 0.01 units of the invoice currency—whichever is greater."

Removed WARN messages

1) Changes to the Version 3.0 schema have resulted in the removal of the following WARN messages:

- INCORRECT_VAT_CODE_SUPPLIER_GROUPMEMBER
- NCORRECT_VAT_CODE_CUSTOMER
- INCORRECT_VAT_CODE_CUSTOMER_GROUPMEMBER
- INCORRECT_HEAD_DATA_CUSTOMER_COMMUNITY_VAT_NUMBER
- MISSING_HEAD_DATA_CUSTOMER
- MISSING_HEAD_DATA_CUSTOMER_TAXNUMBER
- INCORRECT_SUMMARY_DATA_MARGIN_SCHEME_VAT

2) The following WARN message will be reclassified to INFO:

- INCORRECT_DATE_INVOICE_ISSUE_DATE_EARLY

New WARN messages

1) Version 3.0 can now return the following WARN error messages:

- INCORRECT_HEAD_DATA_SUPPLIER_GROUPMEMBER_TAXPAYERID
- INCORRECT_HEAD_DATA_CUSTOMER_TAXPAYERID
- INCORRECT_HEAD_DATA_CUSTOMER_GROUPMEMBER_TAXPAYERID
- INCORRECT_HEAD_DATA_PERIODICAL_SETTLEMENT
- INCORRECT_LINE_DATA_VAT_EXEMPTION_NORMAL
- INCORRECT_LINE_DATA_VAT_OUT_OF_SCOPE_NORMAL
- INCORRECT_LINE_DATA_VAT_DOMESTIC_REVERSE_CHARGE_NORMAL
- INCORRECT_LINE_DATA_MARGIN_SCHEME_INDICATOR_NORMAL
- INCORRECT_LINE_DATA_AGGREGATE_INVOICE_LINE_DATA
- INCORRECT_SUMMARY_DATA_VAT_EXEMPTION_NORMAL
- INCORRECT_SUMMARY_DATA_VAT_OUT_OF_SCOPE_NORMAL
- INCORRECT_SUMMARY_DATA_VAT_DOMESTIC_REVERSE_CHARGE_NORMAL
- INCORRECT_SUMMARY_DATA_MARGIN_SCHEME_INDICATOR
- INCORRECT_SUMMARY_DATA_MARGIN_SCHEME_INDICATOR_NORMAL

- INCORRECT_SUMMARY_DATA_VAT_AMOUNT_MISMATCH_NORMAL
- INCORRECT_SUMMARY_CALCULATION_VAT_EXEMPTION_SUMMARY_SIMPLIFIED
- INCORRECT_SUMMARY_CALCULATION_VAT_OUT_OF_SCOPE_SUMMARY_SIMPLIFIED
- INCORRECT_SUMMARY_CALCULATION_VAT_DOMESTIC_REVERSE_CHARGE_SUMMARY_SIM
  PLIFIED
- INCORRECT_SUMMARY_CALCULATION_VAT_MARGIN_SCHEME_INDICATOR_SUMMARY_SI
  MPLIFIED
- INCORRECT_SUMMARY_CALCULATION_VAT_AMOUNT_MISMATCH_SUMMARY_SIMPLIFIED

6 ENVIRONMENTAL AVAILABILITY

The Online Invoice System services are available in the following environments and at the following addresses.

6.1 User test environment

Customer frontend: https://onlineszamla-test.nav.gov.hu
Invoice reporting interface: https://api-test.onlineszamla.nav.gov.hu

URLs and resources:

https://api-test.onlineszamla.nav.gov.hu/invoiceService/v3/manageAnnulment
https://api-test.onlineszamla.nav.gov.hu/invoiceService/v3/manageInvoice
https://api-test.onlineszamla.nav.gov.hu/invoiceService/v3/queryInvoiceChainDigest
https://api-test.onlineszamla.nav.gov.hu/invoiceService/v3/queryInvoiceCheck
https://api-test.onlineszamla.nav.gov.hu/invoiceService/v3/queryInvoiceData
https://api-test.onlineszamla.nav.gov.hu/invoiceService/v3/queryInvoiceDigest
https://api-test.onlineszamla.nav.gov.hu/invoiceService/v3/queryTransactionList
https://api-test.onlineszamla.nav.gov.hu/invoiceService/v3/queryTransactionStatus
https://api-test.onlineszamla.nav.gov.hu/invoiceService/v3/queryTaxpayer
https://api-test.onlineszamla.nav.gov.hu/invoiceService/v3/tokenExchange

6.2 Live environment

Customer frontend: https://onlineszamla.nav.gov.hu
Invoice reporting interface: https://api.onlineszamla.nav.gov.hu

URLs and resources:

https://api.onlineszamla.nav.gov.hu/invoiceService/v3/manageAnnulment
https://api.onlineszamla.nav.gov.hu/invoiceService/v3/manageInvoice
https://api.onlineszamla.nav.gov.hu/invoiceService/v3/ queryInvoiceChainDigest

https://api.onlineszamla.nav.gov.hu/invoiceService/v3/queryInvoiceCheck
https://api.onlineszamla.nav.gov.hu/invoiceService/v3/queryInvoiceData
https://api.onlineszamla.nav.gov.hu/invoiceService/v3/queryInvoiceDigest
https://api.onlineszamla.nav.gov.hu/invoiceService/v3/ queryTransactionList
https://api.onlineszamla.nav.gov.hu/invoiceService/v3/queryTransactionStatus
https://api.onlineszamla.nav.gov.hu/invoiceService/v3/queryTaxpayer
https://api.onlineszamla.nav.gov.hu/invoiceService/v3/tokenExchange

7 HELPDESK AND TECHNICAL SUPPORT

This section provides information on troubleshooting and further support.

7.1 Self-check

You can find more information about verifying certain codes and hashes as well as the general format of XML syntax in the following websites.

Current UTC mean time: https://www.timeanddate.com/worldclock/timezone/utc

BASE64 online encode/decode: https://www.base64decode.org/

Online CRC calculation: https://www.functions-online.com/crc32.html (online converters typically use hexadecimal values – these are acceptable, but in such cases the output must be converted to decimal value before use)

SHA-512 online encode: http://www.convertstring.com/Hash/SHA512

SHA3-512 online encode: https://emn178.github.io/online-tools/sha3_512.html

AES-128 ECB online decode: https://8gwifi.org/CipherFunctions.jsp (Select the AES ECB PKCS5PADDING option)

Online checking of XML format and schema conformity: https://www.xmlvalidation.com/

Regex verification: https://regex101.com/

Check the uncompressed file size before GZIP compression at http://www.txtwizard.net/compression or https://www.multiutil.com/text-to-gzip-compress/

XML syntax information: https://www.w3schools.com/xml/xml_syntax.asp

XML schema information: https://www.w3schools.com/xml/schema_intro.asp

7.2 Helpdesk availability

Two separate helpdesks provide support to solve problems and answer questions regarding the Online Invoice System. Regarding questions and problems about the live system please send a message via https://www.nav.gov.hu/nav/e-ugyfsz/levelkuldes with the subject line "Számla adatszolgáltatás, informatikai problémák" ("Invoice data report, IT problems"). The form is also available in English.

Technical support for developers regarding exclusively the invoice data report interface service and exclusively in the TEST system, is available, upon request sent to the e-mail address published on the Online Invoice System interface.

If you need technical support for using the interface, please include the content of the complete HTTP request (header and body) as well as the date of submission.

7.3 Availability on Github

Several public repositories for the Online Invoice System are available on Github. All repositories are generally publicly available, a GitHub user is required to comment and contribute to development. GitHub accounts are free of charge, and can be created in a matter of minutes. The following repositories are available for the Online Invoice System.

7.3.1 Common repository

This repository was created for the version management of atomic types, business-catalog-type elements, and generic API communication types within the Online Invoice system in a separate, common XSD (common.xsd). This allows these schema elements to be used by multiple NAV projects, thereby unifying API communication.

Repository available at: https://github.com/nav-gov-hu/Common

7.3.2 Online-Invoice repository

The repository currently contains the public, non-functional codes (schema definition, example XMLs) and descriptions for the Online Invoice System invoice reporting M2M interface. The purpose of the repository is to use the collaboration tools provided by GitHub in order to allow the invoicing program developers and other relevant parties to comment on, to follow and to contribute to the development of the interface with their comments and suggestions, following the guidelines of international open source development. This platform also allows the users and developers of the test system to request technical assistance.

Repository available at: https://github.com/nav-gov-hu/Online-Invoice

7.3.3 Online-Invoice-Test-Tool repository

The repository contains a graphical verification tool and related documentation that can be used to test the Online Invoice System invoice information service (including all API endpoints, among others).

8 SYSTEM DIAGNOSTICS

From version 2.0 of the XML API onward, the Online Invoice System provides generic operational metrics that are publicly available to anyone. The metrics represent the general state and operation of the system services. This chapter provides a technical description for the service that serves the metric queries and for the message structure returned in the response.

8.1 Technical specifications of the service

The /queryServiceMetrics is a RESTful type stateless web service. The service has the following technical specifications.

8.1.1 General technical specifications

You can query the service for metrics using the HTTP GET method at the specified endpoints. The metric query endpoint is unauthenticated, and thus no tax registration, technical user, or API-level authentication is required to use the service.

Depending on whether or not the request is formatted correctly, the server will either send a business XML, or just a standard HTTP response.

Context root:

/metricService/v3

XSD:

serviceMetrics.xsd

The XML schema contains only the message structure; the request has no body due to the GET method.

8.1.2 Resources

/queryServiceMetrics/metric
/queryServiceMetrics/list
/queryServiceMetrics/metric/{metricName}

8.1.3 HTTP headers

The request must specify the following HTTP header fields:

content-type=application/xml
accept=application/xml

8.1.4 HTTP response codes

For correct requests, the service will always return a HTTP 200 response. A different response code can occur only in case of /queryServiceMetrics/metric/{metricName} requests if a non-existent {metricName} parameter was specified; in this case the system returns an HTTP 404 reponse.

8.1.5 Response time, timeout

The server serves the metric queries from cache; therefore, the typical response time of the server is under 200 ms. A client timeout will only occur if the service is down or the request has not reached the server.

8.1.6 Availability

8.1.6.1 User test environment

https://api-test.onlineszamla.nav.gov.hu/metricService/v3/queryServiceMetrics/metric
https://api-test.onlineszamla.nav.gov.hu/metricService/v3/queryServiceMetrics/list
https://api-test.onlineszamla.nav.gov.hu/metricService/v3/queryServiceMetric/metric/{metricName}

8.1.6.2 Live environment

https://api.onlineszamla.nav.gov.hu/metricService/v3/queryServiceMetrics/metric
https://api.onlineszamla.nav.gov.hu/metricService/v3/queryServiceMetrics/list
https://api.onlineszamla.nav.gov.hu/metricService/v3/queryServiceMetric/metric/{metricName}

8.2 Operation of the service and the business metrics

The operation metrics provided by the service are namespace specific. This means that the processing of 1.x invoices cannot be queried at the opening of the service, only from 2.0 invoices onwards.

Operational metrics are automatically generated every minute on the server side. The recommended query interval for clients is, therefore, 1 minute. Querying metrics for the last 60 minutes is provided publicly, and their values are cached by the service on the server side. Serving is also performed from cach, so there will be no performance loss for even mass queries more frequent than a minute.

Since no technical user takes part in the query, the language of communication is not known. Therefore, the description of the metrics is localized in all supported languages and is returned together in the response.

Metrics data is not persistent, and under some circumstances, previous metrics data may be erased (for example, when restarting the entire system, in case of some installations), and this is not an error. However, the metric data must be regenerated in the next minute in this case as well.

8.2.1 Types of metrics

The system provides the following types of metrics.

Type of the representationType	Description
COUNTER	Incremental type metric. Its value is either 0 or increasing for a given time slot.
GAUGE	Snapshot type metric. It may increase or decrease in value compared to the previous time slot.
HISTOGRAM	Quantile type, distribution measurement metric. Its value may increase or decrease over time for the given quantile.

	Summary value type metric. The value is the subtotal
SUMMARY	for the given quantile and the sum value. Its value
	may increase or decrease over time.

Public metrics may not include all of the types listed above.

8.2.2   Description of metrics

The system provides the following metrics and business content.

metricName	metricType	Metric description
responseTimeAverageMsManageAnnulment	GAUGE	Response times in milliseconds for the
responseTimeAverageMsManageInvoice		endpoint of the XML API with the same
responseTimeAverageMsQueryInvoiceChainDigest		name.
responseTimeAverageMsQueryInvoiceCheck		
responseTimeAverageMsQueryInvoiceData		
responseTimeAverageMsQueryInvoiceDigest		
responseTimeAverageMsQueryTransactionList		
responseTimeAverageMsQueryTransationStatus		
responseTimeAverageMsQueryTaxpayer		
responseTimeAverageMsTokenExchange		
processingTimeAverageMsInvoice		Average invoice processing time in milliseconds.

8.3   Business operations

This section details the technical specifications of the /metricService service, which delivers the metrics query service interface functions, and presents the operations, request-response structures and definition root elements.

8.3.1   /queryServiceMetrics operation

The /queryServiceMetrics endpoint is an operation that can be called publicly using the GET method. Its purpose is to return the system's general metrics in a predefined time window (past 1 hour) to users.

8.3.1.1   QueryServiceMetricsRequest

There are three ways to call the metric query operation using the GET method, as follows:

- /metricService/v3/queryServiceMetrics/metric: all available metrics are returned, with values
- /metricService/v3/queryServiceMetrics/list: the names and descriptions of all available metrics are returned, without values
- /metricService/v3/queryServiceMetrics/metric/{metricName}: the name, description, and values of the metric specified in the metricName parameter are returned.

Definition and related requirements

1) In case of /queryServiceMetrics/metric/{metricName} requests if a non-existent {metricName} parameter was specified the system returns an HTTP 404 response. The service does not include a separate business error code defined in the "**Error management**" section.

8.3.1.2 QueryServiceMetricsResponse

The structure of /queryServiceMetrics operation message is contained in the QueryServiceMetricsResponse element. In case of a metric, data from the last hour are returned with a per-minute resolution.
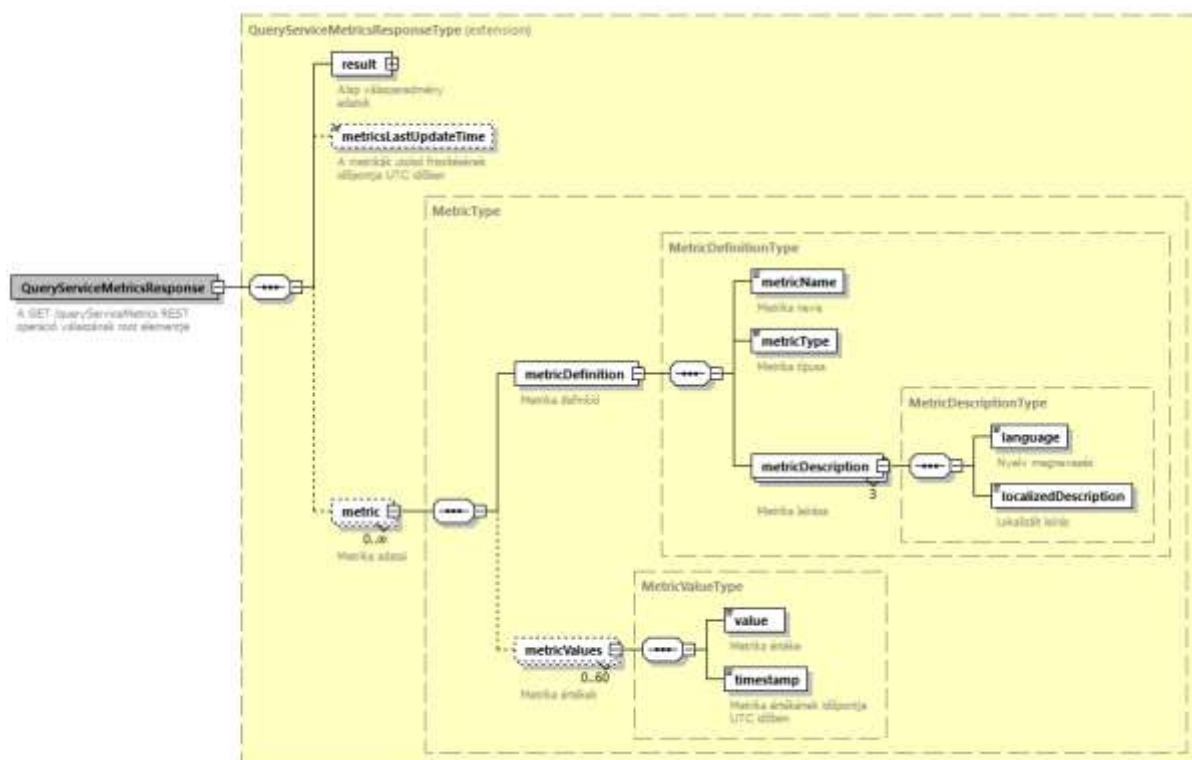
84 *Structure of the QueryServiceMetricsResponse element*

This type extends BasicResponseType, meaning that in addition to the elements it contains, it will also incorporate the last modification time of the metrics data and the data of all available metrics together with the values.

Tag	Type	Mandatory	Content
metricsLastUpdateTime	xs:dateTime	No	The time the metric data was last updated
metric/metricDefinition/metricName	xs:dateTime	Yes	Metric name
metric/metricDefinition/metricType	xs:string	Yes	Metric type
metric/metricDefinition/metricDescription/language	xs:string	Yes	Metric description language

metric/metricDefinition/metricDescription/localizedDescription	xs:string	Yes	Metric description
metric/metricValues/value	xs:decimal	Yes	Metric value
metric/metricValues/timestamp	xs:dateTime	Yes	Timestamp for the metric value

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
metricsLastUpdateTime	InvoiceTimestampType	\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(.\d{1,3})?Z minInclusive = 2010-01-01T00:00:00Z	-	-
metric/metricDefinition/metricName	SimpleText200NotBlankType	.*[^\s].*	-	-
metric/metricDefinition/metricType	MetricTypeType	-	COUNTER GAUGE HISTOGRAM SUMMARY	-
metric/metricDefinition/metricDescription/language	LanguageType	-	HU EN DE	-
metric/metricDefinition /metricDescription/localizedDescription	SimpleText512NotBlankType	.*[^\s].*	-	-
metric/metricValues/value	GenericDecimalType	.*[^\s].*	-	-
metric/metricValues/timestamp	InvoiceTimestampType	\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(.\d{1,3})?Z minInclusive = 2010-01-01T00:00:00Z	-	-

The structure of /queryServiceMetrics/list operation message is contained in the QueryServiceMetricsListResponse element.
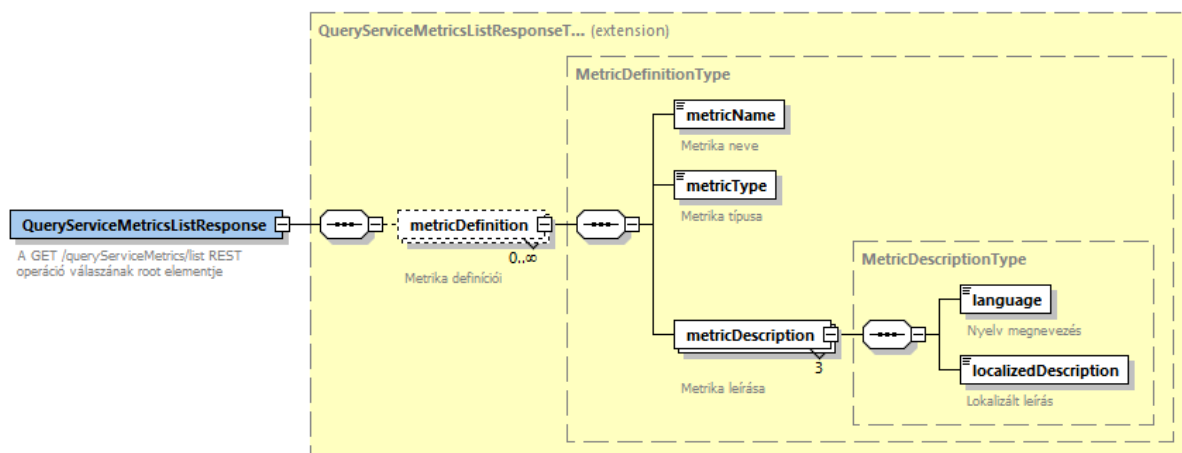
85 *Structure of the QueryServiceMetricsListResponse element*

The type contains the name and description of the metrics as a list.

Tag	Type	Mandatory	Content
metricDefinition/metricName	xs:dateTime	Yes	Metric name
metricDefinition/metricType	xs:string	Yes	Metric type
metricDefinition/metricDescripiton/language	xs:string	Yes	Metric description language
metricDefinition/metricDescripiton/localizedDescription	xs:string	Yes	Metric description

Facets and definitions

Tag	SimpleType	Pattern	Enum	Default
metricDefinition/metricName	SimpleText200NotBlankType	.*[^\s].*	-	-
metricDefinition/metricType	MetricTypeType	-	COUNTER GAUGE HISTOGRAM SUMMARY	-
metricDefinition/metricDescription/language	LanguageType	-	HU EN DE	-
metricDefinition/metricDescription/localizedDescription	SimpleText512NotBlankType	.*[^\s].*	-	-

9 ANNEXES

I.   Warning messages sent by the Online Invoice System
II.   Data dictionary of the Online Invoice System

I. WARNING MESSAGES SENT BY THE ONLINE INVOICE SYSTEM

The following list contains warnings for version 3.5 of the Online Invoice System. This version is expected to be installed in the second half of February 2021, with up-to-date information to be posted on the Online Invoice portal home page.

I.1   Warnings related to invoice header data

ID:	10.
Warning group:	SUPPLIER_CUSTOMER_MATCH identical sections detected in the seller's and customer's data
Warning code:	**SUPPLIER_CUSTOMER_MATCH_TAXPAYER**
Warning text:	**The seller's and customer's tax numbers cannot be identical.**
Operation:	Issues a warning if the first eight digits of the tax numbers of the seller and the customer are identical. Only runs if both data exist. InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierTaxNumber/taxpayerId InvoiceData/invoiceMain/invoice/invoiceHead/customerInfo/customerVatData/customerTaxNumber/taxpayerId
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierTaxNumber/taxpayerId
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	11.			
Warning group:	SUPPLIER_CUSTOMER_MATCH identical sections detected in the seller's and customer's data			
Warning code:	**SUPPLIER_CUSTOMER_MATCH_NAME**			
Warning text:	**The seller's and customer's name cannot be identical.**			
Operation:	Issues a warning if the seller's and customer's names are identical. Runs only if the customer is not a domestic taxable person and is not a private individual (CustomerVatStatusType = OTHER) InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierName InvoiceData/invoiceMain/invoice/invoiceHead/customerInfo/customerName			
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierName			
Scope:				

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	20.			
Warning group:	SUPPLIER_CUSTOMER_MATCH identical sections detected in the seller's and customer's data			
Warning code:	**SUPPLIER_CUSTOMER_MATCH_BANKACCOUNT**			
Warning text:	**The seller's and customer's bank account numbers cannot be identical.**			
Operation:	Issues a warning if the seller's and customer's bank account numbers are identical. Only runs if both data exist. Runs only if the customer is not a domestic taxable person and is not a private individual (CustomerVatStatusType = OTHER) InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierBankAccountNumber InvoiceData/invoiceMain/invoice/invoiceHead/customerInfo/customerBankAccountNumber			
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/customerInfo/customerBankAccountNumber			
Scope:				

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	30.			
Warning group:	SUPPLIER_FISCAL_MATCH identical sections detected in the seller's and the fiscal representative's data			
Warning code:	**SUPPLIER_FISCAL_MATCH_TAXPAYER**			
Warning text:	**The seller's and fiscal representative's tax numbers cannot be identical.**			
Operation:	Issues a warning if the first eight digits of the tax numbers of the seller and the fiscal representative are identical. InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierTaxNumber/taxpayerId InvoiceData/invoiceMain/invoice/invoiceHead/fiscalRepresentativeInfo/fiscalRepresentativeTaxNumber/taxpayerId			
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierTaxNumber/taxpayerId			
Scope:				

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	40.			
Warning group:	SUPPLIER_FISCAL_MATCH identical sections detected in the seller's and the fiscal representative's data			
Warning code:	**SUPPLIER_FISCAL_MATCH_NAME**			
Warning text:	**The seller's and fiscal representative's names cannot be identical.**			
Operation:	Issues a warning if the seller's and fiscal representative's names are identical. Only runs if both elements are filled in. InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierName InvoiceData/invoiceMain/invoice/invoiceHead/fiscalRepresentativeInfo/fiscalRepresentativeName			
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/fiscalRepresentativeInfo/fiscalRepresentativeName			
Scope:				

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	530.			
Warning group:	INCORRECT_HEAD_DATA incorrect invoice header data			
Warning code:	**INCORRECT_HEAD_DATA_FISCALREPRESENTATIVE**			
Warning text:	**The fiscal representative field can only be filled out if the county code of the seller's tax number is 51.**			
Operation:	Issues a warning if the fiscal representative data are filled in, but the seller's county code is shown and is not equal to "51". Only runs if both elements are filled in. InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierTaxNumber/countyCode InvoiceData/invoiceMain/invoice/invoiceHead/fiscalRepresentativeInfo/fiscalRepresentativeTaxNumber/taxpayerId			
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierTaxNumber/countyCode			
Scope:				

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	50.			
Warning group:	INCORRECT_VAT_CODE incorrect VAT code			
Warning code:	**INCORRECT_VAT_CODE_SUPPLIER**			
Warning text:	**Invalid VAT code. The seller's VAT code cannot be 4.**			
Operation:	Issues a warning if the seller's VAT code is invalid. (value set: 1, 2, 3, 5) Only runs if the element is filled in. InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierTaxNumber/vatCode			
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierTaxNumber/vatCode			
Scope:				

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	60.
Warning group:	INCORRECT_VAT_CODE incorrect VAT code
Warning code:	**INCORRECT_VAT_CODE_SUPPLIER_GROUPMEMBER_MISSING**
Warning text:	**The tax number for the VAT group member (seller) has not been provided.**
Operation:	Issues a warning if the seller is a member of a VAT group and the group member's tax number is not entered. Only runs if the seller's VAT code = 5. InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierTaxNumber/vatCode InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/groupMemberTaxNumber InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/groupMemberTaxNumber/vatCode
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierTaxNumber/vatCode
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	71.
Warning group:	INCORRECT_HEAD_DATA incorrect invoice header data
Warning code:	**INCORRECT_HEAD_DATA_SUPPLIER_GROUPMEMBER_TAXPAYERID**
Warning text:	**Incorrect tax number. The tax number provided for the seller is the tax number of VAT group member.**
Operation:	Issues a warning if the seller's tax number is a VAT group member's tax number. In this case, it is required to enter the tax number of the VAT group. InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierTaxNumber/taxpayerId
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierTaxNumber/taxpayerId
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	81.
Warning group:	INCORRECT_HEAD_DATA incorrect invoice header data
Warning code:	**INCORRECT_HEAD_DATA_CUSTOMER_TAXPAYERID**
Warning text:	**Incorrect tax number. Customer's tax number is not live.**
Operation:	Issues a warning if the taxpayer registration number on your invoice exists as a customer, but its status is not "live." Only runs if the customerVatData field is filled out. InvoiceData/invoiceMain/invoice/invoiceHead/customerInfo/customerVatData/customerTaxNumber/taxpayerId
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/customerInfo/customerVatData/customerTaxNumber/taxpayerId
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	85.
Warning group:	INCORRECT_HEAD_DATA incorrect invoice header data
Warning code:	**INCORRECT_HEAD_DATA_CUSTOMER_COMMUNITY_VAT_NUMBER**
Warning text:	**Customer's EU VAT number is incorrect.**
Operation:	Issues a warning if the first two characters are not contained in the existing value set (value set: AT, BE, BG, CY, CZ, DE, DK, EE, EL, ES, FI, FR, GB, HR, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK), or the tax number CDV has an error. Only runs if the EU VAT number is filled in. InvoiceData/invoiceMain/invoice/invoiceHead/customerInfo/customerVatData/communityVatNumber
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/customerInfo/customerVatData/communityVatNumber
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	91.
Warning group:	INCORRECT_HEAD_DATA incorrect invoice header data
Warning code:	**INCORRECT_HEAD_DATA_CUSTOMER_GROUPMEMBER_TAXPAYERID**
Warning text:	**Incorrect tax number. The tax number provided for the customer is the tax number of VAT group member.**
Operation:	Issues a warning if the taxpayer registration number on your invoice belongs to a VAT group. In this case, it is necessary to enter the tax number of the VAT group. InvoiceData/invoiceMain/invoice/invoiceHead/customerInfo/customerVatData/customerTaxNumber/taxpayerId
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/customerInfo/customerVatData/customerTaxNumber/taxpayerId
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	100.
Warning group:	INCORRECT_VAT_CODE incorrect VAT code
Warning code:	**INCORRECT_VAT_CODE_FISCALREPRESENTATIVE**
Warning text:	**Invalid VAT code. The fiscal representative's VAT code can be 1, 2 or 4.**
Operation:	Issues a warning if the fiscal representative's VAT code is invalid. (value set: 1, 2, 4) Only runs if the element is filled in. InvoiceData/invoiceMain/invoice/invoiceHead/fiscalRepresentativeInfo/fiscalRepresentativeTaxNumber/vatCode
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/fiscalRepresentativeInfo/fiscalRepresentativeTaxNumber/vatCode
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	120.
Warning group:	INCORRECT_COUNTY_CODE incorrect county code
Warning code:	**INCORRECT_COUNTY_CODE_SUPPLIER**
Warning text:	**Invalid county code (seller).**
Operation:	Issues a warning if the last two digits of the seller's tax number (county code) is invalid. (value list: 02-20; 22-44; 51) Only runs if the element is filled in. InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierTaxNumber/countyCode
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierTaxNumber/countyCode
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	130.
Warning group:	INCORRECT_COUNTY_CODE incorrect county code
Warning code:	**INCORRECT_COUNTY_CODE_SUPPLIER_GROUPMEMBER**
Warning text:	**County code of the group member is invalid (seller).**
Operation:	Issues a warning if the last two digits of the seller group member's tax number (county code) is invalid. (value list: 02-20; 22-44; 51) Only runs if the element is filled in. InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/groupMemberTaxNumber/countyCode
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/groupMemberTaxNumber/countyCode
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	140.
Warning group:	INCORRECT_COUNTY_CODE incorrect county code
Warning code:	**INCORRECT_COUNTY_CODE_CUSTOMER**
Warning text:	**Invalid county code (customer).**
Operation:	Issues a warning if the last two digits of the customer's tax number (county code) is invalid. (value list: 02-20; 22-44; 51) Only runs if the element is filled in. InvoiceData/invoiceMain/invoice/invoiceHead/customerInfo/ customerVatData/customerTaxNumber/countyCode
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/customerInfo/ customerVatData/customerTaxNumber/countyCode
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	150.
Warning group:	INCORRECT_COUNTY_CODE incorrect county code
Warning code:	**INCORRECT_COUNTY_CODE_CUSTOMER_GROUPMEMBER**
Warning text:	**County code of the group member is invalid (customer).**
Operation:	Issues a warning if the last two digits of the customer group member's tax number (county code) is invalid. (value list: 02-20; 22-44; 51) Only runs if the element is filled in. InvoiceData/invoiceMain/invoice/invoiceHead/customerInfo/customerVatData/ customerTaxNumber/groupMemberTaxNumber/countyCode
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/customerInfo/ customerVatData/ customerTaxNumber/groupMemberTaxNumber/countyCode
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	160.
Warning group:	INCORRECT_COUNTY_CODE incorrect county code
Warning code:	**INCORRECT_COUNTY_CODE_FISCALREPRESENTATIVE**
Warning text:	**Invalid county code (fiscal representative).**
Operation:	Issues a warning if the last two digits of the fiscal representative's tax number (county code) is invalid. (value list: 02-20; 22-44; 51) Only runs if the element is filled in. InvoiceData/invoiceMain/invoice/invoiceHead/fiscalRepresentativeInfo/fiscalRepresentativeTaxNumber/countyCode
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/fiscalRepresentativeInfo/fiscalRepresentativeTaxNumber/countyCode

Scope:

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	161.
Warning group:	INCORRECT_CITY_ZIP_CODE incorrect postal code and town name
Warning code:	**INCORRECT_CITY_ZIP_CODE_FISCAL_REPRESENTATIVE**
Warning text:	**Incorrect address data, postal code city/settlement name mismatch (fiscal representative).**
Operation:	Issues a warning if the postal code and the city/settlement name in the fiscal representative's address do not correspond. In the case of both a simple and a detailed address. Only runs if the fiscal representative elements are filled in. InvoiceData/invoiceMain/invoice/invoiceHead/fiscalRepresentativeInfo/fiscalRepresentativeAddress/simpleAddress/postalCode InvoiceData/invoiceMain/invoice/invoiceHead/fiscalRepresentativeInfo/fiscalRepresentativeAddress/simpleAddress/city or InvoiceData/invoiceMain/invoice/invoiceHead/fiscalRepresentativeInfo/fiscalRepresentativeAddress/detailedAddress/postalCode InvoiceData/invoiceMain/invoice/invoiceHead/fiscalRepresentativeInfo/fiscalRepresentativeAddress/detailedAddress/city
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/fiscalRepresentativeInfo/fiscalRepresentativeAddress/simpleAddress/postalCode or InvoiceData/invoiceMain/invoice/invoiceHead/fiscalRepresentativeInfo/fiscalRepresentativeAddress/detailedAddress/postalCode
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	180.
Warning group:	INCORRECT_COUNTRY_CODE incorrect country code
Warning code:	**INCORRECT_COUNTRY_CODE_SUPPLIERADDRESS**
Warning text:	**Invalid country code (seller).**
Operation:	Issues a warning if the seller's country code is incorrect (the code is not included in the applicable standard). In the case of both a simple and a detailed address provided. InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierAddress
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierAddress/simpleAddress/countryCode or InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierAddress/detailedAddress/countryCode
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	190.
Warning group:	INCORRECT_COUNTRY_CODE incorrect country code
Warning code:	**INCORRECT_COUNTRY_CODE_CUSTOMERADDRESS**
Warning text:	**Invalid country code (customer).**
Operation:	Issues a warning if the customer's country code is incorrect (the code is not included in the applicable standard). In the case of both a simple and a detailed address provided. InvoiceData/invoiceMain/invoice/invoiceHead/customerInfo/customerAddress
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/customerInfo/customerAddress /simpleAddress/countryCode or InvoiceData/invoiceMain/invoice/invoiceHead/customerInfo/customerAddress /detailedAddress/countryCode
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	200.
Warning group:	INCORRECT_COUNTRY_CODE incorrect country code
Warning code:	**INCORRECT_COUNTRY_CODE_FISCALREPRESENTATIVEADDRESS**
Warning text:	**Invalid country code (fiscal representative).**
Operation:	Issues a warning if the fiscal representative's country code is not "HU". Only runs if the data of the fiscal representative are filled in. InvoiceData/invoiceMain/invoice/invoiceHead/fiscalRepresentativeInfo/fiscalRepresentativeAddress
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/fiscalRepresentativeInfo/fiscalRepresentativeAddress/simpleAddress/countryCode or InvoiceData/invoiceMain/invoice/invoiceHead/fiscalRepresentativeInfo/fiscalRepresentativeAddress/detailedAddress/countryCode
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	210.
Warning group:	INCORRECT_CITY_ZIP_CODE incorrect postal code and town name
Warning code:	**INCORRECT_CITY_ZIP_CODE_SUPPLIER**
Warning text:	**Incorrect address data, postal code city/settlement name mismatch (seller).**
Operation:	Issues a warning if the seller's address is in Hungary and its postal code and city/settlement name are mismatched. InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierAddress
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierAddress/simpleAddress/city or InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierAddress/detailedAddress/city

Scope:

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	220.
Warning group:	INCORRECT_CITY_ZIP_CODE incorrect postal code and town name
Warning code:	**INCORRECT_CITY_ZIP_CODE_CUSTOMER**
Warning text:	**Incorrect address data, postal code city/settlement name mismatch (customer).**
Operation:	Issues a warning if the customer's address is in Hungary and its postal code and city/settlement name are mismatched. InvoiceData/invoiceMain/invoice/invoiceHead/customerInfo/customerAddress
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/customerInfo/customerAddress/simpleAddress/city or InvoiceData/invoiceMain/invoice/invoiceHead/customerInfo/customerAddress/detailedAddress/city

Scope:

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	500.
Warning group:	INCORRECT_HEAD_DATA incorrect invoice header data
Warning code:	**INCORRECT_HEAD_DATA_SUPPLIER_COMMUNITY_VAT_NUMBER**
Warning text:	**Incorrect EU VAT number. The first 8 digits of the seller's tax number do not match the last 8 digits of the seller's EU VAT number.**
Operation:	Issues a warning if the first 8 digits of the seller's tax number does not correspond to the last 8 digits of the seller's EU VAT number. Only runs if the EU VAT number is filled in. InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/supplierTaxNumber/taxpayerId InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/communityVatNumber
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/supplierInfo/communityVatNumber
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	310.
Warning group:	INCORRECT_DATE incorrect date information
Warning code:	**INCORRECT_DATE_INVOICE_ISSUE_DATE_LATE**
Warning text:	**Date of invoice is a future date.**
Operation:	Issues a warning if the invoice date is a future date which is later than the date of the data report. Tolerated deviation: 5 calendar days. InvoiceData/invoiceIssueDate
Element marked as incorrect in case of hit:	InvoiceData/invoiceIssueDate
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	312.
Warning group:	INCORRECT_DATE incorrect date information
Warning code:	**INCORRECT_DATE_INVOICE_DELIVERY_DATE_EARLY**
Warning text:	**Delivery date is in a period that has lapsed.**
Operation:	Issues a warning if the invoice delivery date is earlier than the first day of the sixth year before data reporting. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/invoiceDeliveryDate
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/invoiceDeliveryDate
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	313.			
Warning group:	INCORRECT_DATE incorrect date information			
Warning code:	**INCORRECT_DATE_INVOICE_DELIVERY_DATE_LATE**			
Warning text:	**Delivery date too far ahead. The difference between the issue date and the performance date is at least 13 months.**			
Operation:	Issues a warning if the invoice delivery date is at least 397 days (one year + one month) later than the issue date of the invoice. InvoiceData/invoiceIssueDate InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/invoiceDeliveryDate			
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/invoiceDeliveryDate			
Scope:				

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	320.			
Warning group:	INCORRECT_DATE incorrect date information			
Warning code:	**INCORRECT_DATE_AGGREGATE_INVOICE_ISSUE_DATE**			
Warning text:	**The summary invoice issue date precedes the latest of the line item delivery dates.**			
Operation:	Issues a warning if the summary invoice issue date precedes the latest of the line item delivery dates. InvoiceData/invoiceIssueDate InvoiceData/invoiceMain/invoice/invoiceLines/line/aggregateInvoiceLineData/lineDeliveryDate			
Element marked as incorrect in case of hit:	InvoiceData/invoiceIssueDate			
Scope:				

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	-	-

ID:	321.
Warning group:	INCORRECT_DATE incorrect date information
Warning code:	**INCORRECT_DATE_AGGREGATE_INVOICE_DELIVERY_DATE**
Warning text:	**The date provided as the delivery date of the aggregate invoice is different from the latest delivery date indicated at line items.**
Operation:	Issues a warning if the date shown as the technical delivery date on the aggregate invoice is different from the latest delivery date indicated at line items. (In the case of an aggregate invoice, the delivery date is technical, because the actual date of deliveries is shown in the line items.) InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/invoiceDeliveryDate InvoiceData/invoiceMain/invoice/invoiceLines/line/aggregateInvoiceLineData/lineDeliveryDate
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/invoiceDeliveryDate
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	-	-	-

ID:	330.
Warning group:	INCORRECT_DATE incorrect date information
Warning code:	**INCORRECT_DATE_INVOICE_DELIVERY_TO_FROM**
Warning text:	**The closing date of the delivery period precedes the starting date.**
Operation:	Issues a warning if the last day of the delivery period precedes the starting date. Only runs if both data are filled in. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/invoiceDeliveryPeriodStart InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/invoiceDeliveryPeriodEnd
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/invoiceDeliveryPeriodEnd
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	340.
Warning group:	INCORRECT_DATE incorrect date information
Warning code:	**INCORRECT_DATE_INVOICE_MODIFICATION_ISSUE_DATE_LATE**
Warning text:	**Modifying document issue date is a future date.**
Operation:	Issues a warning if the issue date of the modifying document is a future date. Tolerated deviation: 5 days. InvoiceData/invoiceIssueDate
Element marked as incorrect in case of hit:	InvoiceData/invoiceIssueDate
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	+	+	-
SIMPLIFIED	-	+	+	-
AGGREGATE	-	+	+	-

ID:	341.
Warning group:	INCORRECT_DATE incorrect date information
Warning code:	**INCORRECT_DATE_INVOICE_MODIFICATION_ISSUE_DATE_EARLY**
Warning text:	**Modifying document issue date too early.**
Operation:	Issues a warning if the issue date of the modifying document is at least 15 days earlier than the date of data reporting. InvoiceData/invoiceIssueDate
Element marked as incorrect in case of hit:	InvoiceData/invoiceIssueDate
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	+	+	-
SIMPLIFIED	-	+	+	-
AGGREGATE	-	+	+	-

ID:	342.
Warning group:	INCORRECT_DATE incorrect date information
Warning code:	**INCORRECT_DATE_MODIFICATION_ISSUE_DATE_EARLY**
Warning text:	**The date of the modifying document is earlier than the date of the original document.**
Operation:	Issues a warning if the issue date of the modifying document is earlier than the issue date of the original document. InvoiceData/invoiceIssueDate, earlier than based on InvoiceData/invoiceMain/invoice/invoiceReference/originalInvoiceNumber, this element in the database is: Value of InvoiceData/invoiceIssueDate
Element marked as incorrect in case of hit:	InvoiceData/invoiceIssueDate
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	+	+	-
SIMPLIFIED	-	+	+	-
AGGREGATE	-	+	+	-

ID:	510.			
Warning group:	INCORRECT_HEAD_DATA incorrect invoice header data			
Warning code:	**INCORRECT_HEAD_DATA_CUSTOMER_TAX_NUMBER**			
Warning text:	**Customer tax number does not exist.**			
Operation:	Issues a warning if the first 8 digits of the customer's tax number are not featured in the registry. InvoiceData/invoiceMain/invoice/invoiceHead/customerInfo/customerVatData/customerTaxNumber/taxpayerId			
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/customerInfo/customerVatData/customerTaxNumber/taxpayerId			
Scope:				

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	540.			
Warning group:	INCORRECT_HEAD_DATA incorrect invoice header data			
Warning code:	**INCORRECT_HEAD_DATA_FISCAL_REPRESENTATIVE_TAX_NUMBER**			
Warning text:	**Tax number does not exist (fiscal representative).**			
Operation:	Issues a warning if the first 8 digits of the fiscal representative's tax number are not featured in the registry. InvoiceData/invoiceMain/invoice/invoiceHead/fiscalRepresentativeInfo/fiscalRepresentativeTaxNumber/taxpayerId			
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceHead/fiscalRepresentativeInfo/fiscalRepresentativeTaxNumber/taxpayerId			
Scope:				

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	560.
Warning group:	INCORRECT_HEAD_DATA incorrect invoice header data
Warning code:	**INCORRECT_HEAD_DATA_MOD_REF_INVOICE_NUMBER**
Warning text:	**The serial number of the modifying document is identical with the serial number of the original invoice.**
Operation:	Issues a warning if the serial number of the modifying document is identical with the serial number of the original invoice. Only runs if utilitySettlementIndicator<>true. InvoiceData/invoiceMain/invoice/invoiceReference/originalInvoiceNumber InvoiceData/invoiceNumber
Element marked as incorrect in case of hit:	InvoiceData/invoiceNumber
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	+	+	-
SIMPLIFIED	-	+	+	-
AGGREGATE	-	+	+	-

ID:	561.
Warning group:	INCORRECT_HEAD_DATA incorrect invoice header data
Warning code:	**INCORRECT_HEAD_DATA_PERIODICAL_SETTLEMENT**
Warning text:	**The value of the periodicalSettlement cannot be 'false' if the first and/or the last day of the invoice issued for the relevant period has been provided.**
Operation:	Issues a warning if the periodicalSettlement element is set to "false" when the start and/or end date of the periodic settlement is filled in. Only runs if at least one date and the periodicalSettlement elements are filled in. invoiceMain/invoice/invoiceHead/invoiceDetail/periodicalSettlement invoiceMain/invoice/invoiceHead/invoiceDetail/invoiceDeliveryPeriodStart invoiceMain/invoice/invoiceHead/invoiceDetail/invoiceDeliveryPeriodEnd
Element marked as incorrect in case of hit:	invoiceMain/invoice/invoiceHead/invoiceDetail/periodicalSettlement
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

I.2   Warnings for data in line items

ID:	431.			
Warning group:	INCORRECT_LINE_DATA incorrect invoice item data			
Warning code:	**INCORRECT_LINE_DATA_PRODUCTCODE_VTSZ**			
Warning text:	**Invalid customs tariff number.**			
Operation:	Issues a warning if the customs tariff number entered in the line item (productCodeValue, where productCodeCategory="VTSZ") is not in the customs tariff registry. InvoiceData/invoiceMain/invoice/invoiceLines/line/productCodes/productCode			
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/productCodes/productCode			
Scope:				

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	432.			
Warning group:	INCORRECT_LINE_DATA incorrect invoice item data			
Warning code:	**INCORRECT_LINE_DATA_PRODUCTCODE_SZJ**			
Warning text:	**Invalid service registry number (SZJ).**			
Operation:	Issues a warning if the service registry number (SZJ) entered in the line item (productCodeValue, where productCodeCategory="SZJ") is not in the registry. InvoiceData/invoiceMain/invoice/invoiceLines/line/productCodes/productCode			
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/productCodes/productCode			
Scope:				

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	433.
Warning group:	INCORRECT_LINE_DATA incorrect invoice item data
Warning code:	**INCORRECT_LINE_DATA_PRODUCTCODE_TESZOR**
Warning text:	**Invalid TESZOR number.**
Operation:	Issues a warning if the TESZOR number entered in the line item (productCodeValue, where productCodeCategory="TESZOR") is not in the registry. InvoiceData/invoiceMain/invoice/invoiceLines/line/productCodes/productCode
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/productCodes/productCode
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	434.
Warning group:	INCORRECT_LINE_DATA incorrect invoice item data
Warning code:	**INCORRECT_LINE_DATA_UOM_INCOMPLETE**
Warning text:	**The invoice item shows the use of an own unit of measure (unitOfMeasure="OWN"), but the unitOfMeasureOwn element is not included in the provided data.**
Operation:	Issues a warning if the value of the unitOfMeasure element is "OWN" in the item line, but no unitOfMeasureOwn element is listed in the item line. InvoiceData/invoiceMain/invoice/invoiceLines/line/unitOfMeasure InvoiceData/invoiceMain/invoice/invoiceLines/line/unitOfMeasureOwn
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/unitOfMeasure
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	740.
Warning group:	INCORRECT_LINE_CALCULATION incorrect item calculation
Warning code:	**INCORRECT_LINE_CALCULATION_NET_AMOUNT**
Warning text:	**The product of the line item amount and the unit price (with the given discount taken into account) does not match the net amount.**
Operation:	Issues a warning if the product of the item quantity and unit price (reduced by any discounts given) differs from the net line item amount. Determination of the calculated net value If the value of the discount (discountValue) is filled, Calculated net value = product quantity and unit price multiplied, minus the discount. If the discount is given as a percentage (the distcountRate is filled), Calculated net value = product quantity and unit price multiplied, minus the product of unit quantity, unit price and percentage discount multiplied. The tolerated deviation is 1% of the calculated value expressed in HUF, but at least 1 HUF or 0.01 units of the invoice currency—whichever is greater. Only runs if the …/quantity, …/unitPrice, …/lineNetAmount elements are filled in; in case of a modifying / cancelling invoice, only if lineOperation = CREATE. InvoiceData/invoiceMain/invoice/invoiceLines/line/quantity InvoiceData/invoiceMain/invoice/invoiceLines/line/unitPrice InvoiceData/invoiceMain/invoice/invoiceLines/line/lineDiscountData/discountValue InvoiceData/invoiceMain/invoice/invoiceLines/line/lineDiscountData/discountRate InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/ lineNetAmountData/lineNetAmount
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/ lineNetAmountData/lineNetAmount
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	741.
Warning group:	INCORRECT_LINE_CALCULATION ~~incorrect item calculation~~
Warning code:	**INCORRECT_LINE_CALCULATION_LINE_NET_AMOUNT_HUF**
Warning text:	**The net values of the invoice item provided in the original currency and HUF do not match.**
Operation:	Gives a warning if there is a difference between the net amount of the item and the net amount of the item in HUF, taking into account the exchange rate used. lineNetAmount * exchangeRate <> lineNetAmountHUF The tolerated deviation is 1% of the calculated value expressed in HUF, but at least 1 HUF or 0.01 units of the invoice currency—whichever is greater. Only runs if all three elements are filled in. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/exchangeRate InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineNetAmountData/lineNetAmount InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineNetAmountData/lineNetAmountHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineNetAmountData/lineNetAmountHUF
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	-	-	-	-

ID:	742.
Warning group:	INCORRECT_LINE_CALCULATION
	~~incorrect item calculation~~
Warning code:	**INCORRECT_LINE_CALCULATION_AGGREGATE_LINE _NET_AMOUNT_HUF**
Warning text:	**The net values of the summary invoice item provided in the original currency and HUF do not match.**
Operation:	Gives a warning if there is a difference between the net amount of the summary invoice item and the net amount of the item in HUF, taking into account the exchange rate used.
	lineNetAmount * lineExchangeRate <> lineNetAmountHUF
	The tolerated deviation is 1% of the calculated value expressed in HUF, but at least 1 HUF or 0.01 units of the invoice currency—whichever is greater.
	Only runs if all three elements are filled in.
	InvoiceData/invoiceMain/invoice/invoiceLines/line/aggregateInvoiceLineData/lineExchangeRate
	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineNetAmountData/lineNetAmount
	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineNetAmountData/lineNetAmountHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineNetAmountData/lineNetAmountHUF
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	743.
Warning group:	INCORRECT_LINE_CALCULATION
	incorrect item calculation
Warning code:	**INCORRECT_LINE_CALCULATION_LINE_VAT_AMOUNT_HUF**
Warning text:	**The VAT values of the invoice item provided in the original currency and HUF do not match.**
Operation:	Gives a warning if there is a difference between the VAT amount of the item and the VAT amount of the item in HUF, taking into account the exchange rate used.
	lineVatAmount * exchangeRate <> lineVatAmountHUF
	The tolerated deviation is 1% of the calculated value expressed in HUF, but at least 1 HUF or 0.01 units of the invoice currency—whichever is greater.
	Only runs if all three elements are filled in.
	InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/exchangeRate
	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatData/lineVatAmount
	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatData/lineVatAmountHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatData/lineVatAmountHUF

Scope:

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	-	-	-	-

ID:	744.
Warning group:	INCORRECT_LINE_CALCULATION ~~incorrect item calculation~~
Warning code:	**INCORRECT_LINE_CALCULATION_AGGREGATE_LINE_VAT_AMOUNT_HUF**
Warning text:	**The VAT values of the summary invoice item provided in the original currency and HUF do not match.**
Operation:	Gives a warning if there is a difference between the VAT amount of the summary invoice item and the VAT amount of the summary invoice item in HUF, taking into account the exchange rate used. lineVatAmount * lineExchangeRate <> lineVatAmountHUF The tolerated deviation is 1% of the calculated value expressed in HUF, but at least 1 HUF or 0.01 units of the invoice currency—whichever is greater. Only runs if all three elements are filled in. InvoiceData/invoiceMain/invoice/invoiceLines/line/aggregateInvoiceLineData/lineExchangeRate InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatData/lineVatAmount InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatData/lineVatAmountHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatData/lineVatAmountHUF
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	745.
Warning group:	INCORRECT_LINE_CALCULATION ~~incorrect item calculation~~
Warning code:	**INCORRECT_LINE_CALCULATION_LINE_UNIT_PRICE_HUF**
Warning text:	**The unit prices of the invoice item provided in the original currency and HUF do not match.**
Operation:	Gives a warning if there is a difference between the unit price of the item and the unit price of the item in HUF, taking into account the exchange rate used. unitPrice* exchangeRate <> unitPriceHUF The tolerated deviation is 1% of the calculated value expressed in HUF, but at least 1 HUF or 0.01 units of the invoice currency—whichever is greater. Only runs if all three elements are filled in. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/exchangeRate InvoiceData/invoiceMain/invoice/invoiceLines/line/unitPrice InvoiceData/invoiceMain/invoice/invoiceLines/line/unitPriceHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/unitPriceHUF
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	-	-	-	-

ID:	746.
Warning group:	INCORRECT_LINE_CALCULATION ~~incorrect item calculation~~
Warning code:	**INCORRECT_LINE_CALCULATION_AGGREGATE_LINE _UNIT_PRICE_HUF**
Warning text:	**The unit prices of the summary invoice item provided in the original currency and HUF do not match.**
Operation:	Gives a warning if there is a difference between the unit price of the summary invoice item and the unit price of the item in HUF, taking into account the exchange rate used. unitPrice* lineExchangeRate <> unitPriceHUF The tolerated deviation is 1% of the calculated value expressed in HUF, but at least 1 HUF or 0.01 units of the invoice currency—whichever is greater. Only runs if all three elements are filled in. InvoiceData/invoiceMain/invoice/invoiceLines/line/aggregateInvoiceLineData/lineExchangeRate InvoiceData/invoiceMain/invoice/invoiceLines/line/unitPrice InvoiceData/invoiceMain/invoice/invoiceLines/line/unitPriceHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/unitPriceHUF
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	750.
Warning group:	INCORRECT_LINE_CALCULATION incorrect item calculation
Warning code:	**INCORRECT_LINE_CALCULATION_GROSS_AMOUNT**
Warning text:	**The product of quantity and unit price in the simplified invoice line item, taking discount data (if relevant) into account, differs from the gross amount of the line item.**
Operation:	Issues a warning if the product of the quantity and unit price (with the given discount taken into account) in the line item of a simplified invoice differs from the gross line item amount. Only runs if the …/quantity, …/unitPrice, …/lineGrossAmountSimplified elements are filled in; in case of a modifying / cancelling invoice, inly if lineOperation = CREATE. The tolerated deviation is 1% of the calculated value expressed in HUF, but at least 1 HUF or 0.01 units of the invoice currency—whichever is greater. InvoiceData/invoiceMain/invoice/invoiceLines/line/quantity InvoiceData/invoiceMain/invoice/invoiceLines/line/unitPrice InvoiceData/invoiceMain/invoice/invoiceLines/line/lineDiscountData InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsSimplified/line GrossAmountSimplified
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsSimplified/line GrossAmountSimplified
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	+	+	+	-
AGGREGATE	-	-	-	-

ID:	751.
Warning group:	INCORRECT_LINE_CALCULATION ~~incorrect item calculation~~
Warning code:	**INCORRECT_LINE_CALCULATION_LINE_GROSS_AMOUNT_NORMAL_HUF**
Warning text:	**The gross values of the invoice item provided in the original currency and HUF do not match.**
Operation:	Gives a warning if there is a difference between the gross amount of the item and the gross amount of the item in HUF, taking into account the exchange rate used. lineGrossAmountNormal * exchangeRate <> lineGrossAmountNormalHUF The tolerated deviation is 1% of the calculated value expressed in HUF, but at least 1 HUF or 0.01 units of the invoice currency—whichever is greater. Only runs if all three elements are filled in. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/exchangeRate InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineGrossAmountData/lineGrossAmountNormal InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineGrossAmountData/lineGrossAmountNormalHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineGrossAmountData/lineGrossAmountNormalHUF
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	-	-	-	-

ID:	752.
Warning group:	INCORRECT_LINE_CALCULATION ~~incorrect item calculation~~
Warning code:	**INCORRECT_LINE_CALCULATION_AGGREGATE_LINE_GROSS_AMOUNT_NORMAL_HUF**
Warning text:	**The gross values of the summary invoice item provided in the original currency and HUF do not match.**
Operation:	Gives a warning if there is a difference between the gross amount of the summary invoice item and the gross amount of the item in HUF, taking into account the exchange rate used. lineGrossAmountNormal * lineEexchangeRate <> lineGrossAmountNormalHUF The tolerated deviation is 1% of the calculated value expressed in HUF, but at least 1 HUF or 0.01 units of the invoice currency—whichever is greater. Only runs if all three elements are filled in. InvoiceData/invoiceMain/invoice/invoiceLines/line/aggregateInvoiceLineData/lineExchangeRate InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineGrossAmountData/lineGrossAmountNormal InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineGrossAmountData/lineGrossAmountNormalHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineGrossAmountData/lineGrossAmountNormalHUF
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	753.
Warning group:	INCORRECT_LINE_CALCULATION incorrect item calculation
Warning code:	**INCORRECT_LINE_CALCULATION_LINE_GROSS_AMOUNT_SIMPLIFIED_HUF**
Warning text:	**The gross values of the simplified invoice item provided in the original currency and HUF do not match.**
Operation:	Gives a warning if there is a difference between the gross amount of the simplified invoice item and the gross amount of the item in HUF, taking into account the exchange rate used. lineGrossAmountSimplified * exchangeRate <> lineGrossAmountSimplifiedHUF The tolerated deviation is 1% of the calculated value expressed in HUF, but at least 1 HUF or 0.01 units of the invoice currency—whichever is greater. Only runs if all three elements are filled in. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/exchangeRate InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsSimplified/line GrossAmountSimplified InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsSimplified/line GrossAmountSimplifiedHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsSimplified/line GrossAmountSimplifiedHUF
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	+	+	+	-
AGGREGATE	-	-	-	-

ID:	754.
Warning group:	INCORRECT_LINE_CALCULATION ~~incorrect item calculation~~
Warning code:	**INCORRECT_LINE_CALCULATION_LINE_GROSS_AMOUNT_NORMAL_SUM**
Warning text:	**The gross value of the invoice item provided in HUF and the amount of the net plus VAT values of the item provided in HUF do not match.**
Operation:	Gives a warning if the gross amount of the invoice item in HUF differs from the sum of the net and VAT amount of the item. lineNetAmountNormalHUF + lineVatAmountNormalHUF <> lineGrossAmountNormalHUF Tolerated deviation: 1% of lineGrossAmountNormalHUF, but at least 1 HUF or 0.01 units of the invoice currency—whichever is greater. Only runs if all three elements are filled in. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineNetAmountData/lineAmountNormalHUF InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatData/lineVatAmountHUF InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineGrossAmountData/lineGrossAmountNormalHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineGrossAmountData/lineGrossAmountNormalHUF
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	590.
Warning group:	INCORRECT_LINE_DATA incorrect invoice item data
Warning code:	**INCORRECT_LINE_DATA_SELF_LINE_NUMBER**
Warning text:	**A reference to an other invoice item includes the own number of the given item.**
Operation:	Issues a warning if its own serial number is entered when referencing another item. Only runs if this element is filled in. InvoiceData/invoiceMain/invoice/invoiceLines/line/referencesToOtherLines/referenceToOtherLine InvoiceData/invoiceMain/invoice/invoiceLines/line/lineNumber
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/referencesToOtherLines/referenceToOtherLine
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	591.
Warning group:	INCORRECT_LINE_DATA incorrect invoice item data
Warning code:	**INCORRECT_LINE_DATA_VAT_EXEMPTION_NORMAL**
Warning text:	**Despite tax exemption being indicated the normal/aggregate invoice contains VAT data.**
Operation:	Issues a warning if the normal/aggregate invoice contains VAT data despite VAT exemption indication. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatRate/vatExemption InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatData
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatRate/vatExemption
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	593.
Warning group:	INCORRECT_LINE_DATA incorrect invoice item data
Warning code:	**INCORRECT_LINE_DATA_VAT_OUT_OF_SCOPE_NORMAL**
Warning text:	**Despite outside the scope of the VAT Act is being indicated the normal/aggregate invoice contains VAT data.**
Operation:	Issues a warning if the normal/aggregate invoice contains VAT data despite outside the scope of the VAT Act indication. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatRate/vatOutOfScope InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatData
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatRate/vatOutOfScope
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	595.
Warning group:	INCORRECT_LINE_DATA incorrect invoice item data
Warning code:	**INCORRECT_LINE_DATA_VAT_DOMESTIC_REVERSE_CHARGE_NORMAL**
Warning text:	**Despite reverse charge mechanism being indicated the normal/aggregate invoice contains VAT data.**
Operation:	Issues a warning if the normal/aggregate invoice contains VAT data despite VAT domestic reverse charge = true indication. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatRate/vatDomesticReverseCharge InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatData
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatRate/vatDomesticReverseCharge
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	596.
Warning group:	INCORRECT_LINE_DATA incorrect invoice item data
Warning code:	**INCORRECT_LINE_DATA_VAT_DOMESTIC_REVERSE_CHARGE**
Warning text:	**Incorrect marking: If domestic reverse charge mechanism being indicated, the customer can only be a domestic VAT subject.**
Operation:	Issues a warning if the customer's type is not DOMESTIC and the invoice contains item with VAT domestic reverse charge indication. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatRate/vatDomesticReverseCharge InvoiceData/invoiceMain/invoice/invoiceHead/customerInfo/customerVatStatus
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatRate/vatDomesticReverseCharge
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	597.			
Warning group:	INCORRECT_LINE_DATA incorrect invoice item data			
Warning code:	**INCORRECT_LINE_DATA_MARGIN_SCHEME_INDICATOR_NORMAL**			
Warning text:	**Despite margin scheme taxation** **being indicated the normal/aggregate invoice contains VAT data.**			
Operation:	Issues a warning if the normal/aggregate invoice contains VAT data despite margin scheme indication. Runs only if the value of marginSchemeIndicator is not TRAVEL_AGENCY. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatRate/marginSchemeIndicator InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatData			
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatRate/marginSchemeIndicator			
Scope:				

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	600.			
Warning group:	INCORRECT_LINE_DATA incorrect invoice item data			
Warning code:	**INCORRECT_LINE_DATA_LINE_AMOUNTS_NORMAL_MANDATORY**			
Warning text:	**Missing line item value data.**			
Operation:	Issues a warning if the normal or aggregate line item amount is not filled in. In case of a modifying/cancelling invoice, it only runs if lineOperation = CREATE. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal			
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal			
Scope:				

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	610.			
Warning group:	INCORRECT_LINE_DATA incorrect invoice item data			
Warning code:	**INCORRECT_LINE_DATA_LINE_AMOUNTS_SIMPLIFIED_MANDATORY**			
Warning text:	**Missing invoice line item value data.**			
Operation:	Issues a warning if the simplified line item amount is not filled in. In case of a modifying/cancelling invoice, it only runs if lineOperation = CREATE. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsSimplified			
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsSimplified			
Scope:				

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	+	+	+	-
AGGREGATE	-	-	-	-

ID:	620.			
Warning group:	INCORRECT_LINE_DATA incorrect invoice item data			
Warning code:	**INCORRECT_LINE_DATA_AGGREGATE_INV_LINE_DATA_MANDATORY**			
Warning text:	**The summary invoice item does not include the date of performance for the item.**			
Operation:	Issues a warning if in the case of an aggregate invoice (invoiceCategory="AGGREGATE"), no aggregate invoice data is featured in the given line item (aggregateInvoiceLineData element). In case of a modifying/cancelling invoice, it only runs if lineOperation = CREATE. InvoiceData/invoiceMain/invoice/invoiceLines/line/aggregateInvoiceLineData			
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/aggregateInvoiceLineData			
Scope:				

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	630.			
Warning group:	INCORRECT_LINE_DATA incorrect invoice item data			
Warning code:	**INCORRECT_LINE_DATA_LINE_AMOUNTS_SIMPLIFIED_NOT_ALLOWED**			
Warning text:	**Regular or summary invoice item containing simplified invoice line aggregate data.**			
Operation:	Issues a warning if in the case of a normal or aggregate invoice, the element relating to a simplified invoice has been filled in. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsSimplified/lineVatContent InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsSimplified/lineGrossAmountSimplified			
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsSimplified/lineVatContent			
Scope:				

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	631.			
Warning group:	INCORRECT_LINE_DATA incorrect invoice item data			
Warning code:	**INCORRECT_LINE_DATA_AGGREGATE_INVOICE_LINE_DATA**			
Warning text:	**Non-aggregate invoice contains item data typical for aggregate invoices.**			
Operation:	Issues a warning when a standard or simplified invoice line item contains aggregate invoice data. InvoiceData/invoiceMain/invoice/invoiceLines/line/aggregateInvoiceLineData			
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/aggregateInvoiceLineData			
Scope:				

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	-	-	-	-

ID:	632.			
Warning group:	INCORRECT_LINE_DATA incorrect invoice item data			
Warning code:	**ITEM_AGGREGATION_MISMATCH**			
Warning text:	**The value of the mergedItemIndicator cannot be 'false' if the invoice string was previously allocated the value of 'true'.**			
Operation:	Issues a warning if there is a previous invoice within the invoice chain for the submitted invoice with mergedItemIndicator = true, but the mergedItemIndicator value of the invoice is false. invoiceMain/invoice/invoiceLines/mergedItemIndicator invoiceMain/invoice/invoiceReference/modificationIndex			
Element marked as incorrect in case of hit:	invoiceMain/invoice/invoiceLines/mergedItemIndicator			
Scope:				

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	+	+	-
SIMPLIFIED	-	+	+	-
AGGREGATE	-	+	+	-

ID:	980.			
Warning group:	LINE_SUMMARY_TYPE_MISMATCH line summary type mismatch			
Warning code:	**LINE_SUMMARY_TYPE_MISMATCH_LINE_SIMPLIFIED**			
Warning text:	**Incorrect invoice summary. Regular or summary invoice containing simplified invoice item(s).**			
Operation:	Issues a warning if simplified invoice items are entered into a regular or aggregate invoice. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/invoiceCategory InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsSimplified			
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsSimplified			
Scope:				

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	1000.
Warning group:	LINE_SUMMARY_TYPE_MISMATCH line summary type mismatch
Warning code:	**LINE_SUMMARY_TYPE_MISMATCH_LINE_NORMAL**
Warning text:	**Incorrect invoice summary. Simplified invoice containing regular invoice items.**
Operation:	Issues a warning if normal invoice items are entered into a simplified invoice. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/invoiceCategory InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	+	+	+	-
AGGREGATE	-	-	-	-

ID:	1030.
Warning group:	INCORRECT_LINE_REFERENCE incorrect line reference for modification or annulment
Warning code:	**INCORRECT_LINE_REFERENCE**
Warning text:	**The referenced line item for the modifying invoice is not featured in the stored invoice or its most recent modification.**
Operation:	In the case of a modifying invoice (operation=MODIFY), issues a warning if the referenced line item is not featured in the stored invoice and/or most recent modification. Only runs if in the given line item lineOperation="MODIFY" and in the given modification modifyWithoutMaster=false. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineModificationReference/lineNumberReference
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineModificationReference/lineNumberReference
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	+	+	-
SIMPLIFIED	-	+	+	-
AGGREGATE	-	+	+	-

I.3   Warnings related to product fee data

ID:	110.
Warning group:	INCORRECT_VAT_CODE incorrect VAT code
Warning code:	**INCORRECT_VAT_CODE_TAXNUMBEROFOBLIGATOR**
Warning text:	**Invalid VAT code in the tax number of the party obligated to pay the product fee.**
Operation:	Issues a warning if the VAT code of the party obligated to pay product fee is invalid. (value set: 1, 2, 3, 5) Only runs if the element is filled in. InvoiceData/invoiceMain/invoice/productFeeSummary/paymentEvidenceDocumentData/obligatedTaxNumber/vatCode
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/productFeeSummary/paymentEvidenceDocumentData/obligatedTaxNumber/vatCode
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	111.			
Warning group:	INCORRECT_PRODUCT_FEE_DATA incorrect product charge data			
Warning code:	**INCORRECT_PRODUCT_FEE_DATA_CUSTOMER_TAXPAYERID**			
Warning text:	**Customer tax number in the product fee summary does not exist.**			
Operation:	Issues a warning if the first eight digits of the tax number of the obligated party in the product fee summary do not exist in the registry. Only runs if this element is filled in. InvoiceData/invoiceMain/invoice/productFeeSummary/paymentEvidenceDocumentData/obligatedTaxNumber/taxpayerId			
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/productFeeSummary/paymentEvidenceDocumentData/obligatedTaxNumber/taxpayerId			
Scope:				

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	170.			
Warning group:	INCORRECT_COUNTY_CODE incorrect county code			
Warning code:	**INCORRECT_COUNTY_CODE_TAXNUMBEROFOBLIGATOR**			
Warning text:	**Invalid county code in the tax number of the party obligated to pay the product fee.**			
Operation:	Issues a warning if the last two digits (county code) of the tax number of the party obligated to pay product fee are invalid. (value list: 02-20; 22-44; 51) Only runs if the element is filled in. InvoiceData/invoiceMain/invoice/productFeeSummary/paymentEvidenceDocumentData/obligatedTaxNumber/countyCode			
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/productFeeSummary/paymentEvidenceDocumentData/obligatedTaxNumber/countyCode			
Scope:				

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	230.
Warning group:	INCORRECT_PRODUCT_CODE incorrect product code
Warning code:	**INCORRECT_PRODUCT_CODE_CATEGORY_TAKEOVER_01**
Warning text:	**The direction of take-over and legal basis of the environmental product charge is "01", but the product code types do not include "CSK" or "KT".**
Operation:	Issues a warning if the direction of take-over and legal basis of the environmental product charge is "01", but the product codes do not include "CSK" or "KT". Only runs if both elements are filled in. InvoiceData/invoiceMain/invoice/invoiceLines/line/productFeeClause/productFeeTakeoverData/takeoverReason InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent/productFeeCode/productCodeCategory
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent/productFeeCode/productCodeCategory
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	240.
Warning group:	INCORRECT_PRODUCT_CODE incorrect product code
Warning code:	**INCORRECT_PRODUCT_CODE_VALUE_TAKEOVER_01**
Warning text:	**Incorrect VTSZ product code value for an item requiring a product fee payment obligation (it must begin with 271019, 271020, 3403 or 3819).**
Operation:	Issues a warning if the direction of take-over and legal basis of the environmental product charge is "01" and the product code category is VTSZ, but the value of the corresponding product code does not start with "271019", "271019", "3403" or "3819". In other words, it does not correspond to petroleum products. Only runs if all three elements are filled in. InvoiceData/invoiceMain/invoice/invoiceLines/line/productFeeClause/productFeeTakeoverData/takeoverReason InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent/productFeeCode/productCodeCategory InvoiceData/invoiceMain/invoice/invoiceLines/line/productCodes/productCode/productCodeValue InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent/productFeeCode/productCodeValue
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent/productFeeCode/productCodeValue
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	241.
Warning group:	INCORRECT_PRODUCT_CODE incorrect product code
Warning code:	**INCORRECT_PRODUCT_CODE_VALUE_OWN**
Warning text:	**Value of own product code not featured in the correct element.**
Operation:	Issues a warning if the value of the own product code (productCodeCategory=„OWN") is not featured in the element serving to display the own product code (productCodeOwnValue). InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent/productFeeCode/productCodeCategory InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent/productFeeCode/productCodeValue
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent/productFeeCode/productCodeValue

Scope:

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	250.
Warning group:	INCORRECT_PRODUCT_CODE incorrect product code
Warning code:	**INCORRECT_PRODUCT_CODE_CATEGORY_VALUE_TAKEOVER_01**
Warning text:	**If the direction of take-over and legal basis of the environmental product charge is "01" and the product code marking is "KT", the value of the product code can be only "601".**
Operation:	Issues a warning if the direction of take-over and legal basis of the environmental product charge is "01" and the product code marking is "KT", but the value of the product code is not "601". Only runs if all three elements are filled in. InvoiceData/invoiceMain/invoice/invoiceLines/line/productFeeClause/productFeeTakeoverData/takeoverReason InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent/productFeeCode/productCodeCategory InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent/productFeeCode/productCodeValue
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent/productFeeCode/productCodeValue
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	260.
Warning group:	INCORRECT_PRODUCT_CODE incorrect product code
Warning code:	**INCORRECT_PRODUCT_CODE_FEE_WEIGHT**
Warning text:	**If the weight data for a product subject to a product fee is provided in kilograms, the code of the product code type must be "CSK" or "KT".**
Operation:	Issues a warning that if the weight data for the product subject to product fee is provided in kilograms, the code of the product code type can only be "CSK" or "KT". Only runs if the product subject to product fee in kilograms element is filled in. InvoiceData/invoiceMain/invoice/invoiceLines/line/productFeeClause/customerDeclaration/productFeeWeight InvoiceData/invoiceMain/invoice/productFeeSummary/productFeeData/productFeeMeasuringUnit InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent/productFeeCode/productCodeCategory
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent/productFeeCode/productCodeCategory
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	270.
Warning group:	INCORRECT_PRODUCT_CODE incorrect product code
Warning code:	**INCORRECT_PRODUCT_CODE_FEE_CATEGORY**
Warning text:	**Incorrect product code type indication (can only be CSK or KT).**
Operation:	Issues a warning if in the case of an invoice line containing a product fee, the product code type field is not "CSK" or "KT". Only runs if the product code type element is filled in for at least one invoice line. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent/productFeeCode/productCodeCategory
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent/productFeeCode/productCodeCategory
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	280.
Warning group:	INCORRECT_PRODUCT_CODE incorrect product code
Warning code:	**INCORRECT_PRODUCT_CODE_FEE_SUMMARY_CATEGORY**
Warning text:	**Incorrect product code type indication (can only be CSK or KT).**
Operation:	Issues a warning if among product fee summary data, the product code type field is not "CSK" or "KT". Only runs if at least the summary data related to the product code are filled in. InvoiceData/invoiceMain/invoice/productFeeSummary/productFeeData/productFeeCode/productCodeCategory
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/productFeeSummary/productFeeData/productFeeCode/productCodeCategory
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	290.			
Warning group:	MISSING_PRODUCT_CODE incorrect product code			
Warning code:	**INCORRECT_PRODUCT_CODE_FEE_CATEGORY_MISSING**			
Warning text:	**The line item features a product code type that is not shown in the summary.**			
Operation:	Issues a warning if a line item features a product code type that is not shown in the summary. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent/productFeeCode/productCodeCategory InvoiceData/invoiceMain/invoice/productFeeSummary/productFeeData/productFeeCode/productCodeCategory			
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/productFeeSummary/productFeeData/productFeeCode/productCodeCategory			
Scope:				

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	450.			
Warning group:	MISSING_PRODUCT_FEE_DATA missing product charge data			
Warning code:	**MISSING_PRODUCT_FEE_DATA_LINE_OBLIGATED_CONTENT_EMPTY**			
Warning text:	**The invoice item features a product fee payment obligation, but includes no data.**			
Operation:	Issues a warning about the missing invoice item product fee data if obligatedProductFee=TRUE. Only runs if the element (obligatedProductFee) is filled in. InvoiceData/invoiceMain/invoice/invoiceLines/line/obligatedForProductFee InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent			
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent			
Scope:				

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	460.
Warning group:	MISSING_PRODUCT_FEE_DATA missing product charge data
Warning code:	**MISSING_PRODUCT_FEE_DATA_LINE_OBLIGATED_SUMMARY_EMPTY**
Warning text:	**A product fee payment obligation was indicated, but no product fee summary was provided.**
Operation:	Issues a warning about missing product fee summary data if obligatedProductFee=TRUE. Only runs if the element (obligatedProductFee) is filled in. InvoiceData/invoiceMain/invoice/invoiceLines/line/obligatedForProductFee InvoiceData/invoiceMain/invoice/productFeeSummary
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/productFeeSummary
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	470.
Warning group:	MISSING_PRODUCT_FEE_DATA missing product charge data
Warning code:	**MISSING_PRODUCT_FEE_DATA_LINE_CONTENT_SUMMARY_EMPTY**
Warning text:	**Product fee data is present in the invoice item(s), but the product fee summary is not filled in.**
Operation:	Issues a warning if product fee data are shown in at least one invoice line, but the product fee summary is not filled in. Only runs if product fee data have been recorded for at least one invoice line. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent InvoiceData/invoiceMain/invoice/productFeeSummary
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/productFeeSummary
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	471.
Warning group:	MISSING_PRODUCT_FEE_DATA missing product charge data
Warning code:	**MISSING_LINE_PRODUCT_FEE_CONTENT**
Warning text:	**The product fee summary is complete, but the invoice item(s) do not include product fee information.**
Operation:	Issues a warning if the product fee summary has been completed, but none of the invoice items show data pertaining to the product fee. Only runs if data are recorded in the product fee summary. InvoiceData/invoiceMain/invoice/productFeeSummary InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/productFeeSummary
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	480.
Warning group:	MISSING_PRODUCT_FEE_DATA missing product charge data
Warning code:	**MISSING_PRODUCT_FEE_DATA_LINE_QUANTITY_SUMMARY_QUANTITY**
Warning text:	**The product quantities aggregated by product code in the invoice lines do not match the quantities per product code shown in the summary.**
Operation:	Issues a warning if the product quantities summarised by product code in the invoice lines are different than the quantities per product code shown in the summary. Only runs if all the elements are filled in; in case of a modifying/cancelling invoice, only if lineOperation = CREATE. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent/productFeeQuantity InvoiceData/invoiceMain/invoice/productFeeSummary/productFeeData/productFeeQuantity
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/productFeeSummary/productFeeData/productFeeQuantity
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	490.
Warning group:	MISSING_PRODUCT_FEE_DATA missing product charge data
Warning code:	**MISSING_PRODUCT_FEE_DATA_LINE_MEASURING_SUMMARY**
Warning text:	**The invoice line(s) and the product fee summary feature different rates.**
Operation:	Issues a warning if different fee items are shown in the invoice lines and the product code summary by product code. Only runs if all the elements are filled in; in case of a modifying/cancelling invoice, only if lineOperation = CREATE. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent/productFeeMeasuringUnit InvoiceData/invoiceMain/invoice/productFeeSummary/productFeeData/productFeeMeasuringUnit
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/productFeeSummary/productFeeData/productFeeMeasuringUnit
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	651.
Warning group:	INCORRECT_PRODUCT_FEE_DATA incorrect product charge data
Warning code:	**INCORRECT_PRODUCT_FEE_DATA_OBLIGATED_LINE**
Warning text:	**In the case of items subject to product fees, filling in the data relating to the content of the statutory product fee is mandatory.**
Operation:	If the data for the invoice line product fee are filled out, the value of obligatedProductFee must be "true". Only runs if the lineProductFeeContent field is filled out. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent InvoiceData/invoiceMain/invoice/invoiceLines/line/obligatedForProductFee
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceLines/line/obligatedForProductFee
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	670.
Warning group:	MISSING_PRODUCT_FEE_DATA missing product charge data
Warning code:	**INCORRECT_PRODUCT_FEE_DATA_CHARGE_SUM**
Warning text:	**The invoice includes a product fee summary, but the data on product fee content of the invoice items are missing.**
Operation:	Gives a warning in case of missing product fee data if the product fee summary is completed. Only runs if the product fee summary is filled in. InvoiceData/invoiceMain/invoice/productFeeSummary InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/productFeeSummary
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	780.
Warning group:	INCORRECT_PRODUCT_FEE_CALCULATION incorrect product fee calculation
Warning code:	**INCORRECT_PRODUCT_FEE_CALCULATION_PRODUCT_FEE_AMOUNT**
Warning text:	**The product of the quantity and fee rate of the product subject to product fee differs from product fee total.**
Operation:	Issues a warning if the quantity of the products subject to product fee multiplied by the product fee rate differs from the product fee total for a given product code. (productFeeQuantity * productFeeRate <> productFeeAmount) Only runs if the summary data related to the product fee are filled in. The tolerated deviation is 1% of the calculated value expressed in HUF, but at least 1 HUF or 0.01 units of the invoice currency—whichever is greater. InvoiceData/invoiceMain/invoice/productFeeSummary/productFeeData/productFeeQuantity InvoiceData/invoiceMain/invoice/productFeeSummary/productFeeData/productFeeRate InvoiceData/invoiceMain/invoice/productFeeSummary/productFeeData/productFeeAmount
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/productFeeSummary/productFeeData/productFeeAmount
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	790.
Warning group:	INCORRECT_PRODUCT_FEE_CALCULATION incorrect product fee calculation
Warning code:	**INCORRECT_PRODUCT_FEE_CALCULATION_AGGREGATE_PRODUCT_CHARGE_SUM**
Warning text:	**Incorrect product fee calculation. The aggregate of the product fees by product code differs from the total value of the product fee.**
Operation:	Issues a warning if the aggregate of the product fees in HUF (productFeeAmount) by product code differs from the total product fee value. Only runs if the summary data related to the product fee are filled in, and in case of modifying/cancelling invoice, only the product fees from the lineOperation = CREATE lines will be summed. Tolerated deviation: productChargeSum is 1% of the value expressed in HUF, but at least 1 HUF or 0.01 units of the invoice currency—whichever is greater. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent/productFeeAmount InvoiceData/invoiceMain/invoice/productFeeSummary/productChargeSum
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/productFeeSummary/productChargeSum
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

ID:	810.
Warning group:	INCORRECT_PRODUCT_FEE_CALCULATION incorrect product fee calculation
Warning code:	**INCORRECT_PRODUCT_FEE_CALCULATION_PRODUCT_FEE_AMOUNT_SUMMARY**
Warning text:	**The total product fee content amount(s) of the invoice line item(s) and the invoice summary by product code differ(s).**
Operation:	Issues a warning if the total product fee content amount(s) of the invoice line item(s) and the invoice summary by product code differ(s). Only runs if all the elements are present; in case of a modifying/cancelling invoice, only if lineOperation = CREATE. Tolerated deviation: 1% of the productFeeAmount in the summary expressed in HUF, but at least 1 HUF or 0.01 unit of measurement of the invoice currency—whichever is greater. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineProductFeeContent/productFeeAmount InvoiceData/invoiceMain/invoice/productFeeSummary/productFeeData/productFeeAmount
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/productFeeSummary/productFeeData/productFeeAmount
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	+	+	+	-

I.4   Warnings related to summary data

ID:	680.
Warning group:	INCORRECT_SUMMARY_DATA incorrect data summary
Warning code:	**INCORRECT_SUMMARY_DATA_VAT_PERCENTAGE**
Warning text:	**The VAT amount differs from the invoice lines in the summary.**
Operation:	Issues a warning if the rate(s) of VAT differ(s) from the invoice line(s) and in the summary. In case of MODIFY, only runs if the node lineAmountsNormal exists. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatRate/vatPercentage InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRate/vatPercentage
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRate/vatPercentage

Scope:

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	690.
Warning group:	INCORRECT_SUMMARY_DATA incorrect data summary
Warning code:	**INCORRECT_SUMMARY_DATA_VAT_EXEMPTION**
Warning text:	**The indication of tax exemption is only present in either the line items or the summary, but is missing from the other.**
Operation:	Issues a warning if the marking of tax exemption differs in the invoice line(s) and in the summary. In case of MODIFY, only runs if the node lineAmountsNormal exists. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatRate/vatExemption/case InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRate/vatExemption/case
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRate/vatExemption/case
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	691.
Warning group:	INCORRECT_SUMMARY_DATA incorrect data summary
Warning code:	**INCORRECT_SUMMARY_DATA_VAT_EXEMPTION_NORMAL**
Warning text:	**Despite the VAT exemption summary, VAT data are included.**
Operation:	Issues a warning if the standard or aggregate invoice VAT rate summary contains a tax exemption flag, but tax rate data are nonetheless provided and are not 0. InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRate/vatExemption InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRateVatData
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRate/vatExemption
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	700.
Warning group:	INCORRECT_SUMMARY_DATA incorrect data summary
Warning code:	**INCORRECT_SUMMARY_DATA_VAT_OUT_OF_SCOPE**
Warning text:	**The indication of VAT exemption is only present in either the line items or the summary, but is missing from the other.**
Operation:	Issues a warning if the marking of exclusion from the VAT Act in the summary is different from the one in the invoice line(s). In case of MODIFY, only runs if the node lineAmountsNormal exists. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatRate/vatOutOfScope/case InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRate/vatOutOfScope/case
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRate/vatOutOfScope/case
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	701.
Warning group:	INCORRECT_SUMMARY_DATA incorrect summary data
Warning code:	**INCORRECT_SUMMARY_DATA_VAT_OUT_OF_SCOPE_NORMAL**
Warning text:	**Despite the exclusion from the VAT Act, VAT data are included.**
Operation:	Issues a warning if the standard or aggregate invoice VAT rate summary contains a VAT Act exclusion flag, but tax rate data are nonetheless provided and are not 0. InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRate/vatOutOfScope InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRateVatData
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRate/ vatOutOfScope
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	710.
Warning group:	INCORRECT_SUMMARY_DATA incorrect data summary
Warning code:	**INCORRECT_SUMMARY_DATA_VAT_DOMESTIC_REVERSE_CHARGE**
Warning text:	**The indication of reverse charging is only present in either the line items or the summary, but is missing from the other.**
Operation:	Issues a warning if the marking of domestic reverse charging differs in the invoice line(s) and in the summary. In case of MODIFY, only runs if the node lineAmountsNormal exists. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatRate/vatDomesticReverseCharge InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRate/vatDomesticReverseCharge
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRate/vatDomesticReverseCharge
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	711.
Warning group:	INCORRECT_SUMMARY_DATA incorrect summary data
Warning code:	**INCORRECT_ SUMMARY _DATA_VAT_DOMESTIC_REVERSE_CHARGE_NORMAL**
Warning text:	**Despite the VAT rate summary containing a domestic reverse charge mechanism flag, VAT data are included.**
Operation:	Issues a warning if the standard or aggregate invoice VAT rate summary has True for the value of domestic reverse charge mechanism flag, but tax rate data are nonetheless provided and are not 0. InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRate/vatDomesticReverseCharge InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRateVatData
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRate/vatDomesticReverseCharge
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	721.
Warning group:	INCORRECT_SUMMARY_DATA incorrect data summary
Warning code:	**INCORRECT_SUMMARY_DATA_MARGIN_SCHEME_INDICATOR**
Warning text:	**The indications of the invoice for the margin scheme differ in the line items and in the summary.**
Operation:	Issues a warning if the sets of indications for the margin scheme in the line items of the invoice and in the summary are different. In case of MODIFY and STORNO, only runs if the node lineAmountsNormal exists. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatRate/marginSchemeIndicator InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRate/marginSchemeIndicator
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRate/marginSchemeIndicator
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	731.
Warning group:	INCORRECT_SUMMARY_DATA incorrect summary data
Warning code:	**INCORRECT_ SUMMARY _DATA_MARGIN_SCHEME_INDICATOR_NORMAL**
Warning text:	**Despite the VAT rate summary containing a margin scheme taxation flag, VAT data are included.**
Operation:	Issues a warning if the standard or aggregate invoice VAT rate summary contains a margin scheme taxation flag, but tax rate data are nonetheless provided and are not 0. Only runs if utilitySettlementIndicator values <> TRAVEL_AGENCY. InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRate/marginSchemeIndicator InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRateVatData
Element marked as incorrect in case of hit:	IInvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRate/marginSchemeIndicator
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	733.
Warning group:	INCORRECT_SUMMARY_DATA incorrect data summary
Warning code:	**INCORRECT_SUMMARY_DATA_VAT_AMOUNT_MISMATCH_NORMAL**
Warning text:	**The difference of the tax base and the charged tax is only present in either the line items or the summary, but is missing from the other.**
Operation:	Issues a warning if the difference of the tax base and the charged tax is only present in either the line items or the summary. In case of MODIFY and STORNO, only runs if the node lineAmountsNormal exists. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineVatRate/vatAmountMismatch InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRate/vatAmountMismatch
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRate/vatAmountMismatch
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	820.
Warning group:	INCORRECT_SUMMARY_CALCULATION incorrect sum calculation
Warning code:	**INCORRECT_SUMMARY_CALCULATION_VAT_RATE_NET_AMOUNT_LINE**
Warning text:	**The total net value of line items as calculated by one or more tax rates does not equal the net value indicated in the invoice summary next to the corresponding tax rate.**
Operation:	Issues a warning if the amount of the net value of line items is not equal to the net value shown in the invoice summary in respect of the given VAT rate (including cases of exemption, exclusion, reverse charging and the two types of margin scheme taxation). Only runs if the VAT base is not zero (vatRateNetAmount <> 0). Tolerated deviation: 1% of vatRateNetAmount, but at least 1 HUF or 0.01 unit of measurement of the invoice currency—whichever is greater. In case of MODIFY, only runs if the node lineAmountsNormal exists. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineNetAmountData/lineNetAmount InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRateNetData/vatRateNetAmount
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRateNetData/vatRateNetAmount
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	821.
Warning group:	INCORRECT_SUMMARY_CALCULATION incorrect summary calculation
Warning code:	**INCORRECT_SUMMARY_CALCULATION_VAT_RATE_NET_AMOUNT_HUF_LINE**
Warning text:	**The total net value of line items provided in HUF as calculated by one or more tax rates and the net value provided in HUF indicated in the invoice summary next to the corresponding tax rate do not match.**
Operation:	Issues a warning if the amount of the net value of line items in HUF is not equal to the HUF net value shown in the invoice summary in respect of the given VAT rate (including cases of exemption, exclusion, reverse charging and the two types of margin scheme taxation). Only runs if the VAT base is not zero (vatRateNetAmountHUF <> 0). In case of MODIFY, only runs if the node lineAmountsNormal exists. Tolerated deviation: 1% of vatRateNetAmountHUF, but at least 1 HUF or 0.01 unit of measurement of the invoice currency—whichever is greater. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineNetAmountData/lineNetAmountHUF InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRateNetData/vatRateNetAmountHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRateNetData/vatRateNetAmountHUF
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	840.
Warning group:	INCORRECT_SUMMARY_CALCULATION incorrect sum calculation
Warning code:	**INCORRECT_SUMMARY_CALCULATION_INVOICE_NET_AMOUNT**
Warning text:	**The total sum of net amounts by VAT rate differs from the net invoiced amount.**
Operation:	Issues a warning if the net values in the invoice summary by tax rates (including the marking of exemption, exclusion, reverse charging and the two types of margin scheme taxation) differ from the net invoice value. Tolerated deviation: 1% of the invoiceNetAmount value expressed in HUF, but at least 1 HUF or 0.01 units of the invoice currency—whichever is greater. InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRateNetData/vatRateNetAmount InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/invoiceNetAmount
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/invoiceNetAmount
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	841.
Warning group:	INCORRECT_SUMMARY_CALCULATION incorrect sum calculation
Warning code:	**INCORRECT_SUMMARY_CALCULATION_INVOICE_NET_AMOUNT_HUF**
Warning text:	**The total sum of net values aggregated by tax rate provided in HUF and the net value of the invoice provided in HUF do not match.**
Operation:	Issues a warning if the net HUF values in the invoice summary by tax rates (including the marking of exemption, exclusion, reverse charging and the two types of margin scheme taxation) differ from the net invoice HUF value. Tolerated deviation: 1% of the invoiceNetAmountHUF value expressed in HUF, but at least 1 HUF or 0.01 units of the invoice currency—whichever is greater. InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRateNetData/vatRateNetAmountHUF InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/invoiceNetAmountHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/invoiceNetAmountHUF
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	850.
Warning group:	INCORRECT_SUMMARY_CALCULATION incorrect sum calculation
Warning code:	**INCORRECT_SUMMARY_CALCULATION_INVOICE_VAT_AMOUNT_SUMMARY**
Warning text:	**The total sum of VAT amounts per VAT rate differs from the VAT amount.**
Operation:	Issues a warning if the VAT values in the invoice summary by tax rates (including the marking of exemption, exclusion, reverse charging and the two types of margin scheme taxation) differ from the invoice VAT value in the currency of the invoice. Tolerated deviation: 1% of the invoiceVatAmount value expressed in HUF, but at least 1 HUF or 0.01 units of the invoice currency—whichever is greater. InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRateVatData/vatRateVatAmount InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/invoiceVatAmount
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/invoiceVatAmount
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	860.
Warning group:	INCORRECT_SUMMARY_CALCULATION incorrect sum calculation
Warning code:	**INCORRECT_SUMMARY_CALCULATION_INVOICE_VAT_AMOUNT_HUF_SUMMARY**
Warning text:	**The total sum of VAT values per VAT rate differs from the invoice VAT value in HUF.**
Operation:	Issues a warning if the VAT values in HUF in the invoice summary by tax rates (including the marking of exemption, exclusion, reverse charging and the two types of margin scheme taxation) differ from the invoice VAT value in HUF. Only runs if the VAT value in HUF for a product sale or service provision for a given tax rate (vatRateVatAmountHUF) is filled in. Tolerated deviation: 1% of invoiceVatAmountHUF, but at least 1 HUF or 0.01 unit of measurement of the invoice currency—whichever is greater. InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRateVatData/vatRateVatAmountHUF InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/invoiceVatAmountHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/invoiceVatAmountHUF

Scope:

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	880.
Warning group:	INCORRECT_SUMMARY_CALCULATION incorrect sum calculation
Warning code:	**INCORRECT_SUMMARY_CALCULATION_INVOICE_GROSS_AMOUNT_SUMMARY**
Warning text:	**The sum of the net amount and VAT amount in the invoice summary differs from the gross invoice amount.**
Operation:	Gives a warning if the sum of the invoice summary's net amount and VAT amount differs from the gross invoice amount. Only runs if gross invoice amount element is filled in. Tolerated deviation: 1% of invoiceGrossAmount, but at least 1 HUF or 0.01 unit of measurement of the invoice currency—whichever is greater. InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/invoiceNetAmount InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/invoiceVatAmount InvoiceData/invoiceMain/invoice/invoiceSummary/summaryGrossData/invoiceGrossAmount
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryGrossData/invoiceGrossAmount
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	881.
Warning group:	INCORRECT_SUMMARY_CALCULATION incorrect sum calculation
Warning code:	**INCORRECT_SUMMARY_CALCULATION_INVOICE_GROSS_AMOUNT_HUF_SUMMARY**
Warning text:	**The sum of the net amount and VAT amount in the invoice summary in HUF differs from the gross invoice amount in HUF.**
Operation:	Gives a warning if the sum of the net amount and VAT amount in the invoice summary in HUF differs from the gross invoice amount in HUF. Only runs if gross invoice amount element is filled in. Tolerated deviation: 1% of invoiceGrossAmountHUF, but at least 1 HUF or 0.01 unit of measurement of the invoice currency—whichever is greater. InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/invoiceNetAmountHUF InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/invoiceVatAmountHUF InvoiceData/invoiceMain/invoice/invoiceSummary/summaryGrossData/invoiceGrossAmountHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryGrossData/invoiceGrossAmountHUF
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	890.
Warning group:	INCORRECT_SUMMARY_CALCULATION incorrect sum calculation
Warning code:	**INCORRECT_SUMMARY_CALCULATION_VAT_RATE_VAT_AMOUNT_SUMMARY**
Warning text:	**The VAT amount calculated from the net amount based on the VAT rate and the applied tax rate does not match the indicated VAT amount.**
Operation:	Issues a warning if the VAT amount in HUF arising from the net value and the applied rate for the given VAT rate (including the marking of exemption, exclusion, reverse charging and the two types of margin scheme taxation) differ from the VAT amount indicated. Only runs if the VAT base is not zero (vatRateNetAmount <> 0). Tolerated deviation: 1% of vatRateVatAmount, but at least 1 HUF or 0.01 unit of measurement of the invoice currency—whichever is greater. InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRateNetData/vatRateNetAmount InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRate InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRateVatData/vatRateVatAmount
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRateVatData/vatRateVatAmount
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	891.
Warning group:	INCORRECT_SUMMARY_CALCULATION incorrect sum calculation
Warning code:	**INCORRECT_SUMMARY_CALCULATION_VAT_RATE_VAT_AMOUNT_HUF_SUMMARY**
Warning text:	**The VAT amount calculated from the net amount in HUF based on the VAT rate and the applied tax rate does not match the indicated VAT amount in HUF.**
Operation:	Issues a warning if the VAT amount in HUF arising from the net value and the applied rate for the given VAT rate (including the marking of exemption, exclusion, reverse charging and the two types of margin scheme taxation) differ from the VAT amount indicated in HUF. Only runs if the VAT base is not zero (vatRateNetAmountHUF <> 0). Tolerated deviation: 1% of vatRateVatAmountHUF, but at least 1 HUF or 0.01 unit of measurement of the invoice currency—whichever is greater. InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRateNetData/vatRateNetAmountHUF InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRate InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRateVatData/vatRateVatAmountHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRateVatData/vatRateVatAmountHUF
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	900.
Warning group:	INCORRECT_SUMMARY_CALCULATION incorrect sum calculation
Warning code:	**INCORRECT_SUMMARY_CALCULATION_INVOICE_GROSS_AMOUNT_LINE**
Warning text:	**The total of the gross amounts in the line items of the simplified invoice does not match the gross invoice amount.**
Operation:	Issues a warning if the total of the gross amounts in the line items of the simplified invoice differs from the gross invoice amount. Tolerated deviation: 1% of invoiceGrossAmount, but at least 1 HUF or 0.01 unit of measurement of the invoice currency—whichever is greater. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsSimplified/lineGrossAmountSimplified InvoiceData/invoiceMain/invoice/invoiceSummary/summaryGrossData/invoiceGrossAmount
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryGrossData/invoiceGrossAmount
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	+	+	+	-
AGGREGATE	-	-	-	-

ID:	901.
Warning group:	INCORRECT_SUMMARY_CALCULATION incorrect sum calculation
Warning code:	**INCORRECT_SUMMARY_CALCULATION_INVOICE_GROSS_AMOUNT_HUF_LINE**
Warning text:	The sum of the gross values in the line items of the simplified invoice provided in HUF and the gross amount of the invoice provided in HUF do not match.
Operation:	Issues a warning if the total of the gross amounts in the line items of the simplified invoice in HUF differs from the gross invoice amount in HUF. Tolerated deviation: 1% of invoiceGrossAmountHUF, but at least 1 HUF or 0.01 unit of measurement of the invoice currency—whichever is greater. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsSimplified/lineGrossAmountSimplifiedHUF InvoiceData/invoiceMain/invoice/invoiceSummary/summaryGrossData/invoiceGrossAmountHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryGrossData/invoiceGrossAmountHUF

Scope:

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	+	+	+	-
AGGREGATE	-	-	-	-

ID:	910.
Warning group:	INCORRECT_SUMMARY_CALCULATION incorrect sum calculation
Warning code:	**INCORRECT_SUMMARY_CALCULATION_VAT_CONTENT_SUMMARY_SIMPLIFIED**
Warning text:	**The VAT content markings in the line items of the simplified invoice do not match the VAT content markings in the summary.**
Operation:	Issues a warning if the VAT content markings in the line items of a simplified invoice are not exactly the same as the VAT content markings in the summary. Only runs for VAT content greater than 0. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsSimplified/lineVatRate/lineVatContent InvoiceData/invoiceMain/invoice/invoiceSummary/summarySimplified/vatRate/vatContent
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summarySimplified/vatRate/vatContent
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	+	+	+	-
AGGREGATE	-	-	-	-

ID:	911.
Warning group:	INCORRECT_SUMMARY_CALCULATION incorrect summary calculation
Warning code:	**INCORRECT_SUMMARY_CALCULATION_VAT_EXEMPTION_SUMMARY_SIMPLIFIED**
Warning text:	**The indication of simplified invoice tax exemption is only present in either the line items or the summary.**
Operation:	Issues a warning if the tax-exempt marks in the simplified invoice line items and in the summary are different. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsSimplified/lineVatRate/vatExemption InvoiceData/invoiceMain/invoice/invoiceSummary/summarySimplified/vatRate/vatExemption
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summarySimplified/vatRate/vatExemption
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	+	+	+	-
AGGREGATE	-	-	-	-

ID:	912.
Warning group:	INCORRECT_SUMMARY_CALCULATION incorrect summary calculation
Warning code:	**INCORRECT_SUMMARY_CALCULATION_VAT_OUT_OF_SCOPE_SUMMARY_SIMPLIFIED**
Warning text:	**The marking of exclusion from the VAT Act on the simplified invoice is only present in either the line items or the summary.**
Operation:	Issues a warning if the markings of exclusion from the VAT Act in the simplified invoice line items and in the summary are different. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsSimplified/lineVatRate/vatOutOfScope InvoiceData/invoiceMain/invoice/invoiceSummary/summarySimplified/vatRate/vatOutOfScope
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summarySimplified/vatRate/vatOutOfScope
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	+	+	+	-
AGGREGATE	-	-	-	-

ID:	913.
Warning group:	INCORRECT_SUMMARY_CALCULATION incorrect summary calculation
Warning code:	**INCORRECT_SUMMARY_CALCULATION_VAT_DOMESTIC_REVERSE_CHARGE_S UMMARY_SIMPLIFIED**
Warning text:	**The indication of simplified invoice reverse charge mechanism is only present in either the line items or the summary.**
Operation:	Issues a warning if the domestic reverse charge mechanism marks in the simplified invoice line items and in the summary are different. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsSimplified/lineV atRate/vatDomesticReverseCharge InvoiceData/invoiceMain/invoice/invoiceSummary/summarySimplified/vatRate/ vatDomesticReverseCharge
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summarySimplified/vatRate/ vatDomesticReverseCharge
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	+	+	+	-
AGGREGATE	-	-	-	-

ID:	914.
Warning group:	INCORRECT_SUMMARY_CALCULATION incorrect summary calculation
Warning code:	**INCORRECT_SUMMARY_DATA_MARGIN_SCHEME_INDICATOR_SUMMARY_SIMPLIFIED**
Warning text:	**The indication value of the simplified invoice for the margin scheme differ in the line items and in the summary.**
Operation:	Issues a warning if the margin scheme indications values in the simplified invoice line items and in the summary are different. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsSimplified/lineVatRate/marginSchemeIndicator InvoiceData/invoiceMain/invoice/invoiceSummary/summarySimplified/vatRate/marginSchemeIndicator
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summarySimplified/vatRate/marginSchemeIndicator
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	+	+	+	-
AGGREGATE	-	-	-	-

ID:	**916.**
Warning group:	INCORRECT_SUMMARY_CALCULATION incorrect summary calculation
Warning code:	**INCORRECT_SUMMARY_CALCULATION_ VAT_AMOUNT_MISMATCH_SUMMARY_SIMPLIFIED**
Warning text:	**The indication of simplified invoice with a difference of the tax base and the charged tax is only present in either the line items or the summary.**
Operation:	Issues a warning if the indications of difference of the tax base and the charged tax are different in simplified invoice line items and in the summary. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsSimplified/lineVatRate/vatAmountMismatch InvoiceData/invoiceMain/invoice/invoiceSummary/summarySimplified/vatRate/vatAmountMismatch
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summarySimplified/vatRate/vatAmountMismatch
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	+	+	+	-
AGGREGATE	-	-	-	-

ID:	920.
Warning group:	INCORRECT_SUMMARY_CALCULATION incorrect sum calculation
Warning code:	**INCORRECT_SUMMARY_CALCULATION_VAT_CONTENT_GROSS_AMOUNT_SUMMARY_SIMPLIFIED**
Warning text:	**The total of the gross amounts in the line items of a simplified invoice corresponding to one or more tax contents do not match the gross amount shown in the summary for the corresponding tax content.**
Operation:	Issues a warning if the total of the gross amounts in the line items of a simplified invoice corresponding to the given tax content differ from the gross amount shown in the summary for the given tax content. Tolerated deviation: 1% of gross amount of the invoice, but at least 1 HUF or 0.01 unit of measurement of the invoice currency—whichever is greater. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsSimplified/lineGrossAmountSimplified InvoiceData/invoiceMain/invoice/invoiceSummary/summarySimplified/vatContentGrossAmount
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summarySimplified/vatContentGrossAmount
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	+	+	+	-
AGGREGATE	-	-	-	-

ID:	921.
Warning group:	INCORRECT_SUMMARY_CALCULATION incorrect sum calculation
Warning code:	**INCORRECT_SUMMARY_CALCULATION_VAT_CONTENT_GROSS_AMOUNT_HUF _SUMMARY_SIMPLIFIED**
Warning text:	**The total of the gross values provided in HUF in the line items of the simplified invoice corresponding to one or more tax contents and the gross amount provided in HUF shown in the summary for the corresponding tax content do not match.**
Operation:	Issues a warning if the total of the gross amounts in the line items of a simplified invoice corresponding to the given tax content in HUF differs from the gross amount shown in the summary for the given tax content in HUF. Tolerated deviation: 1% of vatContentGrossAmountHUF, but at least 1 HUF or 0.01 unit of measurement of the invoice currency—whichever is greater. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsSimplified/lineGrossAmountSimplifiedHUF InvoiceData/invoiceMain/invoice/invoiceSummary/summarySimplified/vatContentGrossAmountHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summarySimplified/vatContentGrossAmountHUF
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	+	+	+	-
AGGREGATE	-	-	-	-

ID:	930.
Warning group:	INCORRECT_SUMMARY_CALCULATION incorrect sum calculation
Warning code:	**INCORRECT_SUMMARY_CALCULATION_INVOICE_VAT_AMOUNT**
Warning text:	**The gross value of the invoice summary aggregated by VAT content does not match the gross invoice amount.**
Operation:	Issues a warning if the gross value of the invoice summary aggregated by VAT content in a simplified invoice differs from the gross invoice amount. Tolerated deviation: 1% of invoiceGrossAmount, but at least 1 HUF or 0.01 unit of measurement of the invoice currency—whichever is greater. InvoiceData/invoiceMain/invoice/invoiceSummary/summarySimplified/vatContentGrossAmount InvoiceData/invoiceMain/invoice/invoiceSummary/summaryGrossData/invoiceGrossAmount
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryGrossData/invoiceGrossAmount
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	+	+	+	-
AGGREGATE	-	-	-	-

ID:	931.
Warning group:	INCORRECT_SUMMARY_CALCULATION incorrect sum calculation
Warning code:	**INCORRECT_SUMMARY_CALCULATION_INVOICE_VAT_AMOUNT_HUF**
Warning text:	**The gross value of the invoice summary aggregated by VAT content provided in HUF and the gross value of the invoice provided in HUF do not match.**
Operation:	Issues a warning if the gross value of the invoice summary aggregated by VAT content in a simplified invoice in HUF differs from the gross invoice amount in HUF. Tolerated deviation: 1% of invoiceGrossAmountHUF, but at least 1 HUF or 0.01 unit of measurement of the invoice currency—whichever is greater. InvoiceData/invoiceMain/invoice/invoiceSummary/summarySimplified/vatContentGrossAmountHUF InvoiceData/invoiceMain/invoice/invoiceSummary/summaryGrossData/invoiceGrossAmountHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryGrossData/invoiceGrossAmountHUF
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	+	+	+	-
AGGREGATE	-	-	-	-

ID:	941.
Warning group:	INCORRECT_SUMMARY_CALCULATION incorrect sum calculation
Warning code:	**INCORRECT_SUMMARY_CALCULATION_INVOICE_NET_AMOUNT_LINE_HUF**
Warning text:	**The sum of the net value(s) of the invoice line(s) provided in HUF and the net value of the invoice provided in HUF do not match.**
Operation:	Gives a warning if the sum of the net value(s) of the invoice line(s) provided in HUF and the net value of the invoice provided in HUF do not match. Tolerated deviation: 1% of invoiceNetAmountHUF, but at least 1 HUF or 0.01 unit of measurement of the invoice currency—whichever is greater. In case of MODIFY, only runs if the node lineAmountsNormal exists. InvoiceData/invoiceMain/invoice/invoiceLines/line/lineAmountsNormal/lineNetAmountData/lineNetAmountHUF InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/invoiceNetAmountHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/invoiceNetAmountHUF
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	970.			
Warning group:	LINE_SUMMARY_TYPE_MISMATCH line summary type mismatch			
Warning code:	**LINE_SUMMARY_TYPE_MISMATCH_SUMMARY_SIMPLIFIED**			
Warning text:	**Incorrect invoice summary. Regular or summary invoice containing simplified invoice summary.**			
Operation:	Issues a warning if simplified invoice summary data are entered in a regular or aggregate invoice. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/invoiceCategory InvoiceData/invoiceMain/invoice/invoiceSummary/summarySimplified			
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summarySimplified			

Scope:

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	+	+	-

ID:	990.			
Warning group:	LINE_SUMMARY_TYPE_MISMATCH line summary type mismatch			
Warning code:	**LINE_SUMMARY_TYPE_MISMATCH_SUMMARY_NORMAL**			
Warning text:	**Incorrect invoice summary. Simplified invoice with a regular invoice summary.**			
Operation:	Issues a warning if normal invoice summary data are entered in a simplified invoice. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/invoiceCategory InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal			
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal			

Scope:

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	+	+	+	-
AGGREGATE	-	-	-	-

ID:	1070.
Warning group:	INCORRECT_SUMMARY_DATA incorrect data summary
Warning code:	**INCORRECT_SUMMARY_DATA_INVOICE_VAT_AMOUNT_HUF**
Warning text:	**The VAT amounts provided in the original currency do not match those in HUF.**
Operation:	Gives a warning if there is a difference between the VAT amount of the invoice in the invoice currency and the VAT amount of the invoice in HUF, taking into account the exchange rate used. invoiceVatAmount * exchangeRate <> invoiceVatAmountHUF The tolerated deviation is 1% of the value expressed in HUF, but at least 1 HUF or 0.01 units of the invoice currency—whichever is greater. Only runs if all three elements are filled in. áfaáfaInvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/exchangeRate InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/invoiceVatAmount InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/invoiceVatAmountHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/invoiceVatAmountHUF
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	-	-	-	-

ID:	1071.
Warning group:	INCORRECT_SUMMARY_DATA incorrect data summary
Warning code:	**INCORRECT_SUMMARY_DATA_INVOICE_NET_AMOUNT_HUF**
Warning text:	**The net values of the invoice provided in the original currency and HUF do not match.**
Operation:	Gives a warning if there is a difference between the net amount of the invoice and the net amount of the invoice in HUF, taking into account the exchange rate used. invoiceNetAmount * exchangeRate <> invoiceNetAmountHUF The tolerated deviation is 1% of the value expressed in HUF, but at least 1 HUF or 0.01 units of the invoice currency—whichever is greater. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/exchangeRate InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/invoiceNetAmount InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/invoiceNetAmountHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/invoiceNetAmountHUF
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	-	-	-	-

ID:	1072.
Warning group:	INCORRECT_SUMMARY_DATA incorrect data summary
Warning code:	**INCORRECT_SUMMARY_DATA_INVOICE_VAT_CONTENT_GROSS_AMOUNT_ HUF**
Warning text:	**The gross values of the simplified invoice provided in the original currency and HUF do not match.**
Operation:	Gives a warning if there is a difference between the gross amount of the sales or service provision related to the simplified invoice tax content and its amount in HUF, taking into account the exchange rate used. vatContentGrossAmount * exchangeRate <> vatContentGrossAmountHUF The tolerated deviation is 1% of the value expressed in HUF, but at least 1 HUF or 0.01 units of the invoice currency—whichever is greater. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/exchangeRate InvoiceData/invoiceMain/invoice/invoiceSummary/summarySimplified/vatContentGrossAmount InvoiceData/invoiceMain/invoice/invoiceSummary/summarySimplified/vatContentGrossAmountHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summarySimplified/vatContentGrossAmountHUF
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	+	+	+	-
AGGREGATE	-	-	-	-

ID:	1073.
Warning group:	INCORRECT_SUMMARY_DATA incorrect data summary
Warning code:	**INCORRECT_SUMMARY_DATA_INVOICE_GROSS_AMOUNT_HUF**
Warning text:	**The gross amounts of the invoice provided in the original currency and HUF do not match.**
Operation:	Gives a warning if there is a difference between the gross amount of the invoice and the gross amount of the invoice in HUF, taking into account the exchange rate used. invoiceGrossAmount * exchangeRate <> invoiceGrossAmountHUF The tolerated deviation is 1% of the value expressed in HUF, but at least 1 HUF or 0.01 units of the invoice currency—whichever is greater. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/exchangeRate InvoiceData/invoiceMain/invoice/invoiceSummary/summaryGrossData/invoiceGrossAmount InvoiceData/invoiceMain/invoice/invoiceSummary/summaryGrossData/invoiceGrossAmountHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryGrossData/invoiceGrossAmountHUF
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	+	+	+	-
AGGREGATE	-	-	-	-

ID:	1074.
Warning group:	INCORRECT_SUMMARY_DATA incorrect data summary
Warning code:	**INCORRECT_SUMMARY_DATA_INVOICE_VAT_RATE_NET_AMOUNT_HUF**
Warning text:	**The net amounts for the sales of a product sale or the provision of a service for a given tax rate in the invoice provided in the original currency and HUF do not match.**
Operation:	Gives a warning if there is a difference between the net amount of the sales or service provision related to the given invoice tax rate and its net amount in HUF, taking into account the exchange rate used. vatRateNetAmount * exchangeRate <> vatRateNetAmountHUF The tolerated deviation is 1% of the value expressed in HUF, but at least 1 HUF or 0.01 units of the invoice currency—whichever is greater. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/exchangeRate InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRateNetData/vatRateNetAmount InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRateNetData/vatRateNetAmountHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRateNetData/vatRateNetAmountHUF
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	-	-	-	-

ID:	1075.
Warning group:	INCORRECT_SUMMARY_DATA incorrect data summary
Warning code:	**INCORRECT_SUMMARY_DATA_INVOICE_VAT_RATE_VAT_AMOUNT_HUF**
Warning text:	**The VAT amounts for the sales of a product sale or the provision of a service for a given tax rate in the invoice provided in the original currency and HUF do not match.**
Operation:	Gives a warning if there is a difference between the VAT amount of the sales or service provision related to the given invoice tax rate and its VAT amount in HUF, taking into account the exchange rate used. vatRateVatAmount * exchangeRate <> vatRateVatAmountHUF The tolerated deviation is 1% of the value expressed in HUF, but at least 1 HUF or 0.01 units of the invoice currency—whichever is greater. InvoiceData/invoiceMain/invoice/invoiceHead/invoiceDetail/exchangeRate InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRateVatData/vatRateVatAmount InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRateVatData/vatRateVatAmountHUF
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/summaryByVatRate/vatRateVatData/vatRateVatAmountHUF
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	+	+	-
SIMPLIFIED	-	-	-	-
AGGREGATE	-	-	-	-

ID:	1090.
Warning group:	INCORRECT_SUMMARY_DATA incorrect data summary
Warning code:	**INCORRECT_SUMMARY_DATA_INVOICE_NET_AMOUNT**
Warning text:	**The net amount of the original (CREATE) invoice cannot be negative.**
Operation:	Gives a warning if the total of the normal or summary invoice for the original invoice (CREATE) is negative. InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/invoiceNetAmount
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryNormal/invoiceNetAmount
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	+	-	-	-
SIMPLIFIED	-	-	-	-
AGGREGATE	+	-	-	-

ID:	1100.
Warning group:	INCORRECT_SUMMARY_DATA incorrect data summary
Warning code:	**INCORRECT_SUMMARY_DATA_INVOICE_GROSS_AMOUNT**
Warning text:	**The gross amount of the original (CREATE) simplified invoice cannot be negative.**
Operation:	Gives a warning if the gross total of the simplified invoice for the original invoice (CREATE) is negative. Only runs if the invoiceGrossAmount field is filled out. InvoiceData/invoiceMain/invoice/invoiceSummary/summaryGrossData/invoiceGrossAmount
Element marked as incorrect in case of hit:	InvoiceData/invoiceMain/invoice/invoiceSummary/summaryGrossData/invoiceGrossAmount
Scope:	

operation/ invoiceCategory	CREATE	MODIFY	STORNO	ANNUL
NORMAL	-	-	-	-
SIMPLIFIED	+	-	-	-
AGGREGATE	-	-	-	-

II. DATA DICTIONARY OF THE ONLINE INVOICE SYSTEM

II.1 Correlation

Name of data	Element name in the schema definition
Top level data	**InvoiceData**
Serial number of the invoice or modifying document – Section 169 b) or 170 (1) b) of the VAT Act	invoiceNumber
Date of the invoice or amending document – Section 169 a) and Section 170 (1) a) of the VAT Act	invoiceIssueDate
Indicates whether the data report is the invoice itself (no more data on the invoice)	completenessIndicator
Data for modification or annulment	**invoiceReference**
The number of the original invoice – Section 170 (1) c) of the VAT Act	originalInvoiceNumber
Indication of a modification for a base invoice with no data reporting completed at the time of the modification	modifyWithoutMaster
The unique serial number of the amending document referencing the invoice	modificationIndex
Invoice header (data concerning the whole of the document)	**invoiceHead**
Seller data	**supplierInfo**
The domestic tax number under which the sales or service provision on the invoice was carried out. It can also be a group ID	supplierTaxNumber
Group member's tax number, if the purchase of the product or provision of service was carried out using a group ID	groupMemberTaxNumber
Name of seller (supplier)	supplierName
Address of seller (supplier)	supplierAddress

Bank account number of seller (supplier)	supplierBankAccountNumber
Customer's data	**customerInfo**
Customer VAT status	customerVatStatus
Customer VAT details	**customerVatData**
The tax number under which the invoiced procurement of the product or use of service was carried out. It can also be a group ID	customerTaxNumber
Group member's tax number, if the purchase of the product or provision of service was carried out using a group ID	groupMemberTaxNumber
EU VAT number	communityVatNumber
Tax number of third country	thirdStateTaxId
Customer's name	customerName
Customer's address	customerAddress
Customer's bank account number	customerBankAccountNumber
Fiscal representative's data	**fiscalRepresentativeInfo**
Fiscal representative's tax number	fiscalRepresentativeTaxNumber
Fiscal representative's name	fiscalRepresentativeName
Fiscal representative's address	fiscalRepresentativeAddress
Bank account number opened by the fiscal representative for the invoice issuer (seller)	fiscalRepresentativeBankAccountNumber
Invoice detail data	**invoiceDetail**
Invoice type; in case of deed of modification the type of the original invoice	invoiceCategory
Delivery date (identical with the issue date of the invoice if no delivery date is specified in the invoice) – as per Section 169 g) of the VAT Act	invoiceDeliveryDate

Starting date of the time period, for invoices covering a time period	invoiceDeliveryPeriodStart
End date of the time period, for invoices covering a time period	invoiceDeliveryPeriodEnd
Accounting delivery date. End date of delivery, for invoices covering a time period	invoiceAccountingDeliveryDate
Indication of whether the parties agree on a periodic settlement or payment in the course of the sales of products or provision of services or determine the consideration for the sales of products or the provision of services on a specific date.	periodicalSettelment
Denotes a small taxpayer	smallBusinessIndicator
Invoice currency, as per the ISO 4217 standard	currencyCode
Exchange rate for currencies other than HUF: unit price in HUF	exchangeRate
Marking of utility settlement invoice (settlement invoice according to Act CLXXXVIII of 2013)	utilitySettlementIndicator
Indication of self-invoicing (set to "true" to indicate self-invoicing) - Section 169 l) of the VAT Act.	selfBillingIndicator
Payment method	paymentMethod
Deadline for payment	paymentDate
Accounting indicator, if one is included in the invoice – as per Section 169 h) of the VAT Act Set to "true" for cash accounting	cashAccountingIndicator
Appearance type of the invoice or modification document	invoiceAppearance
Data for invoice line item(s)	**invoiceLines**
Indicates whether the data report contains aggregated item data to decrease its size	mergedItemIndicator
Invoice item line number	lineNumber
Indication of the type of modification for a given line item	lineModificationReference
References to related items if required by the VAT Act	referenceToOtherLines
Data related to advance payment	advanceData
Product codes	productCodes
The quantity unit of the item can be expressed as a natural unit of measurement	lineExpressionIndicator

Indicates the nature of sales of products or provision of services	lineNatureIndicator
Name of product or service	lineDescription
Quantity of product or service	quantity
Quantity unit of product or service	unitOfMeasure
The literal expression of the quantity unit on the invoice	unitOfMeasureOwn
Unit price in the currency of the invoice	unitPrice
Unit price in HUF	unitPriceHUF
Discount for the item	lineDiscountData
Data to be filled in for regular and aggregate invoices	lineAmountsNormal
Line item values to be filled in for a simplified invoice	lineAmountsSimplefied
Intermediated service	intermediatedService
Aggregate invoice data	aggregateInvoiceLineData
Sale of new means of transport – Sections 89 and 169 o) of the VAT Act	newTransportMean *
Deposit fee	depositIndicator
Indication of a margin scheme regulation – Section 169 p) q) of the VAT Act	marginSchemeIndicator
Product fee payment obligation	obligatedForProductFee
Excise tax on natural gas, electricity or coal in HUF – Tax Act 118. § (2)	GPCExcise
Data on post-tax purchase of diesel oil – Section 75 (1) a) of Decree No. 45/2016 (XI. 29.) NGM	dieselOilPurchase
The tax liability determined in the Public Health Product Tax falls on the taxpayer. Section 3 (2) of Act CIII of 2011	netaDeclaration
Clauses in line with Act LXXXV of 2011 on Environmental Product Charges	productFeeClause
Data on product fee content of the item	lineProductFeeContent
Other, conventionally named data, to assist in the processing of invoices	conventionalLineInfo
Additional data in connection with the product/service item	additionalLineData

Summary data for the product fee	productFeeSummary
Summary data (pursuant to the VAT Act)	**invoiceSummary**
Invoice summary (for a non-simplified invoice)	**summaryNormal**
Summary by VAT rate or tax exemption	summaryByVatRate
Net total of the invoice in the currency of the invoice	invoiceNetAmount
Invoice net amount in HUF	invoiceNetAmountHUF
Total VAT for the invoice in the currency of the invoice	invoiceVatAmount
The VAT amount for the invoice in HUF	invoiceVatAmountHUF
Simplified invoice summary	**summarySimplified**
The tax content for simplified invoices, expressed as a percentage or an indication of tax exemption	vatRate
The gross total for a product sale or service provision for a given tax content in the currency of the invoice	vatContentGrossAmount
The gross total for a product sale or service provision for a given tax content in HUF	vatContentGrossAmountHUF
Gross total in the currency of the invoice	invoiceGrossAmount
Invoice gross amount in HUF	invoiceGrossAmountHUF

* – The content of the element is not relevant for invoices in the scope of data reporting.

II.2   Mandatory items

Element name in the schema definition	Required from a technical aspect	Mandatory as per the VAT Act	Mandatory in data reporting
invoiceNumber	Yes	Yes	Yes
invoiceIssueDate	Yes	Yes (explicitly or implicitly)	Yes
completenessIndicator	Yes	No	Yes
invoiceReference	**No**	**Yes, in the case of a modification or annulment**	If relevant

originalInvoiceNumber	No	Yes, in the case of a modification or annulment	If relevant
modifyWithoutMaster	Yes	No	Yes
modificationIndex	Yes	No	Yes (if the parent element is featured)
invoiceHead	**Yes**	**No**	Yes
supplierInfo	**Yes**	**Yes**	Yes
supplierTaxNumber	Yes	Yes	Yes
groupMemberTaxNumber	No	If relevant	If relevant
supplierName	No	Yes	Yes
supplierAddress	No	Yes	Yes
supplierBankAccountNumber	No	No	No
customerInfo	**Yes**	**Yes**	Yes
customerVatStatus	Yes	No	Yes
customerTaxNumber	If relevant	Under certain conditions	If relevant
groupMemberTaxNumber	No	If relevant	If relevant
communityVatNumber	No	If relevant	If relevant
thirdStateTaxId	No	If relevant	If relevant
customerName	No	If relevant	If relevant (except for private persons)
customerAddress	No	If relevant	If relevant (except for private persons)

customerBankAccountNumber	No	No	No
fiscalRepresentativeInfo	**No**	**If relevant**	If relevant
fiscalRepresentativeTaxNumber	No	If relevant	If relevant
fiscalRepresentativeName	No	If relevant	If relevant
fiscalRepresentativeAddress	No	If relevant	If relevant
fiscalRepresentativeBankAccountNumber	No	No	No
invoiceDetail	**Yes**	**Yes**	Yes
invoiceCategory	Yes	Yes	Yes
invoiceDeliveryDate	Yes	Yes, in the case of a regular invoice	Yes
invoiceDeliveryPeriodStart	No	No	No
invoiceDeliveryPeriodEnd	No	No	No
invoiceAccountingDeliveryDate	No	No	No
periodicalSettelment	No	No	If relevant
smallBusinessIndicator	No	No	No
currencyCode	Yes	If relevant	Yes
exchangeRate	No	No	Yes
utilitySettlementIndicator	No	If relevant	If relevant
selfBillingIndicator	No	If relevant	If relevant
paymentMethod	No	No	No
paymentDate	No	No	No
cashAccountingIndicator	No	If relevant	If relevant
invoiceLines	**Yes, in the case of an invoice**	**Yes, in the case of an invoice, in case of modification if relevant**	If relevant

mergedItemIndicator	Yes, in the case of an invoice	Yes, in the case of an invoice, in case of modification if relevant	If relevant
lineNumber	Yes	No	Yes
lineModificationReference	Yes, in the case of a modification/annulment	No	Yes, in the case of a modification/annulment
referenceToOtherLines	No	If relevant	If relevant
advanceIndicator	If relevant	No	If relevant
advancePaymentData	No	No	No
productCodes	No	No	No
lineExpressionIndicator	Yes	Yes	Yes
lineNatureIndicator	No	No	No
lineDescription	No	Yes	Yes
quantity	No	If relevant	If relevant
unitOfMeasure	No	If relevant	If relevant
unitOfMeasureOwn	No	If relevant	If relevant
unitPrice	No	If relevant	If relevant
lineDiscountData	No	If relevant	If relevant
lineAmountsNormal	No	Yes in the case of a regular/aggregate invoice	Yes in the case of a regular/aggregate invoice
lineAmountsSimplefied	No	Yes, in the case of a simplified invoice	Yes, in the case of a simplified invoice
intermediatedService	No	If relevant	If relevant
aggregateInvoiceLineData	No	Yes, in the case of an aggregate invoice	Yes, in the case of an aggregate invoice
newTransportMean	No	If relevant	If relevant

depositIndicator	No	If relevant	If relevant
marginSchemeIndicator	No	If relevant	If relevant
ekaerIds	No	No	No
obligatedForProductFee	No	No	No
GPCExcise	No	No	No
dieselOilPurchase	No	No	No
netaDeclaration	No	No	No
productFeeClause	No	No	No
lineProductFeeContent	No	No	No
additionalLineData	No	No	No
productFeeSummary	**No**	**No**	No
invoiceSummary	**Yes**	**In certain cases no**	Yes
summaryNormal	No	Yes in the case of a regular/aggregate invoice	Yes in the case of a regular/aggregate invoice
summaryByVatRate	No	Yes in the case of a regular/aggregate invoice	Yes in the case of a regular/aggregate invoice
invoiceNetAmount	No	Yes in the case of a regular/aggregate invoice	Yes in the case of a regular/aggregate invoice
invoiceNetAmountHUF	No	Yes in the case of a regular/aggregate invoice	Yes in the case of a regular/aggregate invoice
invoiceVatAmount	No	Yes in the case of a regular/aggregate invoice	Yes in the case of a regular/aggregate invoice
invoiceVatAmountHUF	Yes	Yes in the case of a regular/aggregate invoice	Yes in the case of a regular/aggregate invoice

summarySimplified	No	Yes, in the case of a simplified invoice	Yes in the case of a regular/aggregate invoice
vatRate	No	Yes, in the case of a simplified invoice	Yes, in the case of a simplified invoice
vatContentGrossAmount	No	Yes, in the case of a simplified invoice	Yes, in the case of a simplified invoice
vatContentGrossAmountHUF	No	Yes, in the case of a simplified invoice	Yes, in the case of a simplified invoice
invoiceGrossAmount	Yes	Yes, in the case of a simplified invoice	Yes, in the case of a simplified invoice
invoiceGrossAmountHUF	Yes	Yes, in the case of a simplified invoice	Yes, in the case of a simplified invoice