

Integration Documentation

AX Web service schema

Version Control

<i>Version</i>	<i>Date</i>	<i>Who</i>	<i>Description</i>
1.0	29.06.2018	Roger Walther	First draft

Purpose of this document

All integration into the Finance back office application Dynamics AX runs through web services using one schema containing structures for all work flows and processes.

The web service is published by a BizTalk application which feeds directly into AX.

The schema is explained in details below, indicating what fields are mandatory or which values should be defaulted based on the setup in the entity "Kuoni Global Travel Services (Schweiz) AG".

This entity will be the target for all integration between TINA and AX and is encoded with "CHMA" in Dynamics AX.

If tags are used, they must not be blank. Optional tags should rather not be present at all.

Web services

The web services are published as below.

Testing: <https://prep.integration.fad.kuoni.com/BizTalkWcfService/KuoniFOIntegration.svc?wsdl>

Production: <https://prod.integration.fad.kuoni.com/BizTalkWcfService/KuoniFOIntegration.svc?wsdl>

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Header section

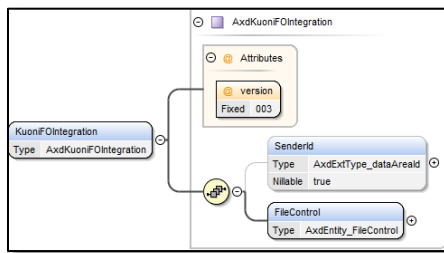


Fig. 1

Attributes (/KuoniFOIntegration)

Name	Mandatory/ Optional	Data Type	Description and comment
version	Mandatory	string	default to „003“

Elements (/KuoniFOIntegration)

Index	Message Item	Tag	Mandatory/ Optional	Data Type	Description and comment
1.0	Kuoni FO Integration	KuoniFOIntegration	1..1		
1.1	Kuoni FO Integration +Sender	SenderId	1..1	string 10	default to „TINA“
2.0	Kuoni FO Integration +File Control	FileControl	1..1		Transferred records will be grouped based on file controls.

File Control

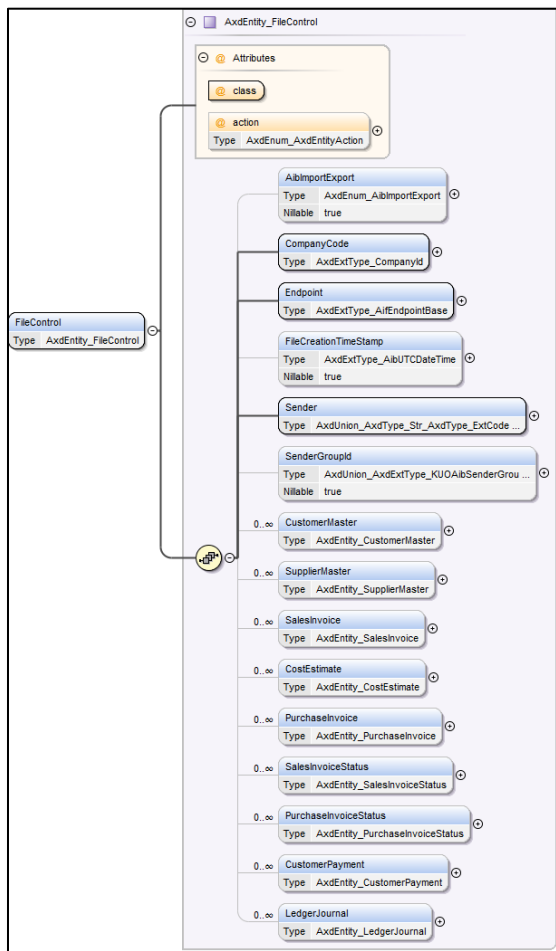


Fig. 2

Attribute @class

Please note that the empty attribute @class is mandatory on all segments where it is mentioned in the diagram.

Elements (/KuoniFOIntegration/FileControl)

Index	Message Item	Tag	Mandatory/ Optional	Data Type	Description and comment
2.1	Kuoni FO Integration +File Control ++Company Code	CompanyCode	1..1	string 4	default to „CHMA“
2.2	Kuoni FO Integration +File Control ++Endpoint	Endpoint	1..1	string 30	default to “CHMA”
2.3	Kuoni FO Integration +File Control ++File Creation Time Stamp	FileCreationTimeStamp	0..1	datetime UTC	useful to indicate the date/time of transferring data
2.4	Kuoni FO Integration +File Control ++Sender	Sender	1..1	string 10	default to “TINA”
2.5	Kuoni FO Integration +File Control ++Sender Group	SenderGroupId	0..1	string 10	can be used to indicate what information is transferred, like for example “SI” for sales invoices a.s.o.
3.0	Kuoni FO Integration +File Control ++Customer Master	CustomerMaster	0..n		This section is used to transfer customer account information.
4.0	Kuoni FO Integration +File Control ++Supplier Master	SupplierMaster	0..n		This section is to transfer supplier account related information, including bank accounts and other financially relevant data.
5.0	Kuoni FO Integration +File Control ++Sales Invoice	SalesInvoice	0..n		Sales invoices incl. VAT information are transferred using this tag.
6.0	Kuoni FO Integration +File Control ++Cost Estimate	CostEstimate	0..n		Cost estimates or purchase orders are handled in this tag. Either we use it to register cost of sales, or alternatively to accrue future costs and have a base for invoice matching in AX.
7.0	Kuoni FO Integration +File Control ++Purchase Invoice	PurchaseInvoice	0..n		Purchase invoices will only need to be sent if invoice control and matching is done in TINA.
8.0	Kuoni FO Integration +File Control ++Sales Invoice Status	SalesInvoiceStatus	0..n		The sales invoice status section is only used outbound AX to transmit information about the open balance on sales invoices.
9.0	Kuoni FO Integration +File Control ++Purchase Invoice Status	PurchaseInvoiceStatus	0..n		Same as the above section, just with balance information of supplier invoices.
10.0	Kuoni FO Integration +File Control ++Customer Payment	CustomerPayment	0..n		This tag can be used in both directions, depending on where customer payments get registered.
11.0	Kuoni FO Integration +File Control ++Ledger Journal	LedgerJournal	0..n		This tag can be used for financial information that can not be handled with any of the above tags.

Customer master

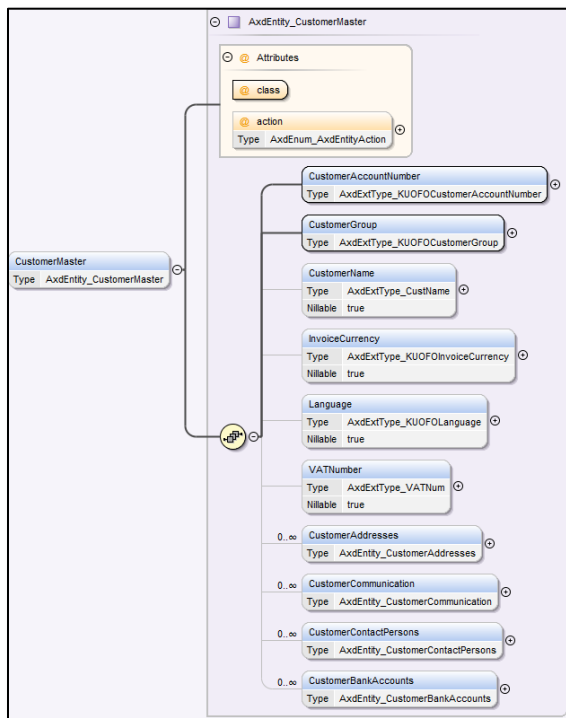


Fig. 3

Elements (/KuoniFOIntegration/FileControl/CustomerMaster)

Index	Message Item	Tag	Mandatory/ Optional	Data Type	Description and comment
3.1	Kuoni FO Integration +File Control ++Customer Master +++Customer Account Number	CustomerAccountNumber	1..1	string 20	format "TC-#####" 8 digits with leading zeros
3.2	Kuoni FO Integration +File Control ++Customer Master +++Customer Group	CustomerGroup	1..1	string 10	default to "120"
3.3	Kuoni FO Integration +File Control ++Customer Master +++Customer Name	CustomerName	1..1	string 60	Name or company name of the client
3.4	Kuoni FO Integration +File Control ++Customer Master +++Invoice Currency	InvoiceCurrency	1..1	string 3	ISO 4217 currency code This is the default currency of the customer. Can be overruled by invoice currencies.
3.5	Kuoni FO Integration +File Control ++Customer Master +++Language	Language	1..1	string 7	default to "en-gb"
3.6	Kuoni FO Integration +File Control ++Customer Master +++VAT Number	VATNumber	0..1	string 20	VAT registration number of the customer if available
3.7	Kuoni FO Integration +File Control ++Customer Master +++Customer Addresses	CustomerAddresses	0..1		Main address and optional additional addresses of the customer.
3.8	Kuoni FO Integration +File Control ++Customer Master +++Customer Communication	CustomerCommunication	0..1		Communication channels like phone or mail.
3.9	Kuoni FO Integration +File Control ++Customer Master +++Customer Contact Person	CustomerContactPerson	0..1		Contact persons related to the client.
3.10	Kuoni FO Integration +File Control ++Customer Master +++Customer Bank Accounts	CustomerBankAccounts	0..1		Bank account information like IBAN or BIC.

Customer master - addresses

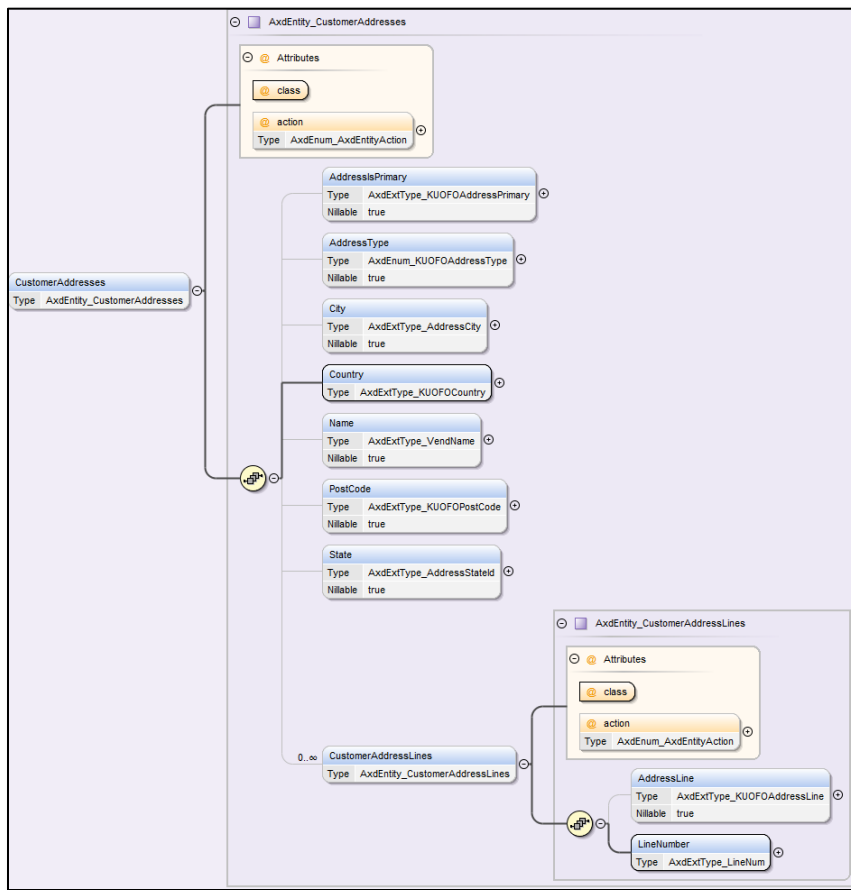


Fig. 4

Multiple addresses by customer can be handled, but all addresses must be transferred each time with updates to a customer account.

Elements (/KuoniFOIntegration/FileControl/CustomerMaster/CustomerAddresses)

Index	Message Item	Tag	Mandatory/ Optional	Data Type	Description and comment
3.7.1	Kuoni FO Integration +File Control ++Customer Master +++Customer Addresses ++++Primary Address Flag	AddressIsPrimary	1..1	enum	Possible values are "Yes" and "No" At least one and only one address must be marked as primary. All additional addresses should show "No" in this tag.
3.7.2	Kuoni FO Integration +File Control ++Customer Master +++Customer Addresses ++++Address Type	AddressType	1..1	enum	Possible values are "None" "Invoice" "Payment" "Other" "Payment advice" Default to "None"
3.7.3	Kuoni FO Integration +File Control ++Customer Master +++Customer Addresses ++++City	City	0..1	string 60	City information
3.7.4	Kuoni FO Integration +File Control ++Customer Master +++Customer Addresses ++++Country	Country	1..1	string 2	ISO 3166-1 alpha-2 country codes
3.7.5	Kuoni FO Integration +File Control ++Customer Master +++Customer Addresses ++++Address Name	Name	1..1	string 60	repeat the customer name in case there is no deviating name to use
3.7.6	Kuoni FO Integration +File Control ++Customer Master +++Customer Addresses ++++Postal Code	PostCode	0..1	string 10	Postal code / Zip code
3.7.7	Kuoni FO Integration +File Control ++Customer Master +++Customer Addresses ++++State	State	0..1	string 10	recommended to keep blank - we would need to coordinate this setup in case you want to use states
3.7.8	Kuoni FO Integration +File Control ++Customer Master +++Customer Addresses ++++Address Lines	CustomerAddressLines	0..1		Street information or additional company name parts.

Elements (/KuoniFOIntegration/FileControl/CustomerMaster/CustomerAddresses/CustomerAddressLines)

Index	Message Item	Tag	Mandatory/ Optional	Data Type	Description and comment
3.7.8.1	Kuoni FO Integration +File Control ++Customer Master +++Customer Addresses ++++Address Lines +++++Address Line Text	AddressLine	1..1	string 80	One single line of the address section
3.7.8.2	Kuoni FO Integration +File Control ++Customer Master +++Customer Addresses ++++Address Lines +++++Address Line Number	LineNumber	1..1	real	Number to indicate the sort order of the address lines

The address lines should contain all remaining address information other than name, postal code, city, state and country.

Customer master – communication channels

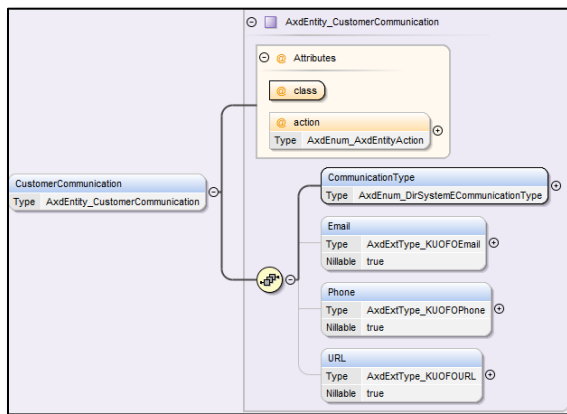


Fig. 5

Elements (/KuoniFOIntegration/FileControl/CustomerMaster/CustomerCommunication)

Index	Message Item	Tag	Mandatory/ Optional	Data Type	Description and comment
3.8.1	Kuoni FO Integration +File Control ++Customer Master +++Customer Communication ++++Communication Type	CommunicationType	1..1	enum	Values are "Phone", "URL", "Email"
3.8.2	Kuoni FO Integration +File Control ++Customer Master +++Customer Communication ++++Email Address	Email	1..1* if type is "Email"	string 80	One of these 3 tags must be present according to the type above
3.8.3	Kuoni FO Integration +File Control ++Customer Master +++Customer Communication ++++Phone Number	Phone	1..1* if type is "Phone"	string 20	
3.8.4	Kuoni FO Integration +File Control ++Customer Master +++Customer Communication ++++Web page address	URL	1..1* if type is "URL"	string 255	

Customer master – contact persons

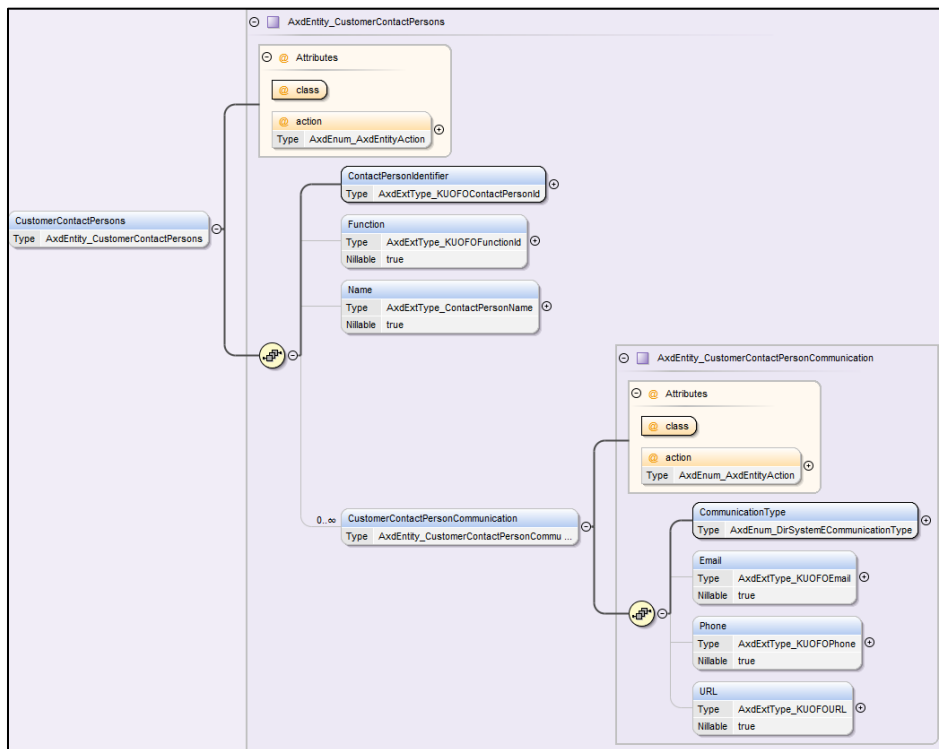


Fig. 6

Elements (/KuoniFOIntegration/FileControl/CustomerMaster/CustomerContactPersons)

Index	Message Item	Tag	Mandatory/ Optional	Data Type	Description and comment
3.9.1	Kuoni FO Integration +File Control ++Customer Master +++Customer Contact Person ++++Contact Person ID	ContactPersonIdentifier	1..1	string 20	Unique identifier across all contact persons for all customers
3.9.2	Kuoni FO Integration +File Control ++Customer Master +++Customer Contact Person ++++Function	Function	0..1	string 10	Recommended to keep blank – values would need to be coordinated if we decide to use this field
3.9.3	Kuoni FO Integration +File Control ++Customer Master +++Customer Contact Person ++++Name of the Person	Name	1..1	string 60	First name and last name of the contact person
3.9.4	Kuoni FO Integration +File Control ++Customer Master +++Customer Contact Person ++++Communication Details	CustomerContactPersonCommunication	0..1		Communication channels like phone or mail related to the contact.

The communication details are handled in the very same way as in
/KuoniFOIntegration/FileControl/CustomerMaster/CustomerCommunication.

Index	Message Item	Tag	Mandatory/ Optional	Data Type	Description and comment
3.9.4.1	Kuoni FO Integration +File Control ++Customer Master +++Customer Contact Person ++++Communication Details +++++Communication Type	CommunicationType	1..1	enum	Values are "Phone", "URL", "Email"
3.9.4.2	Kuoni FO Integration +File Control ++Customer Master +++Customer Contact Person ++++Communication Details +++++ Email Address	Email	1..1* if type is "Email"	string 80	One of these 3 tags must be present according to the type above
3.9.4.3	Kuoni FO Integration +File Control ++Customer Master +++Customer Contact Person ++++Communication Details +++++ Phone Number	Phone	1..1* if type is "Phone"	string 20	
3.9.4.4	Kuoni FO Integration +File Control ++Customer Master +++Customer Contact Person ++++Communication Details +++++ Web page address	URL	1..1* if type is "URL"	string 255	

Customer master – bank account information

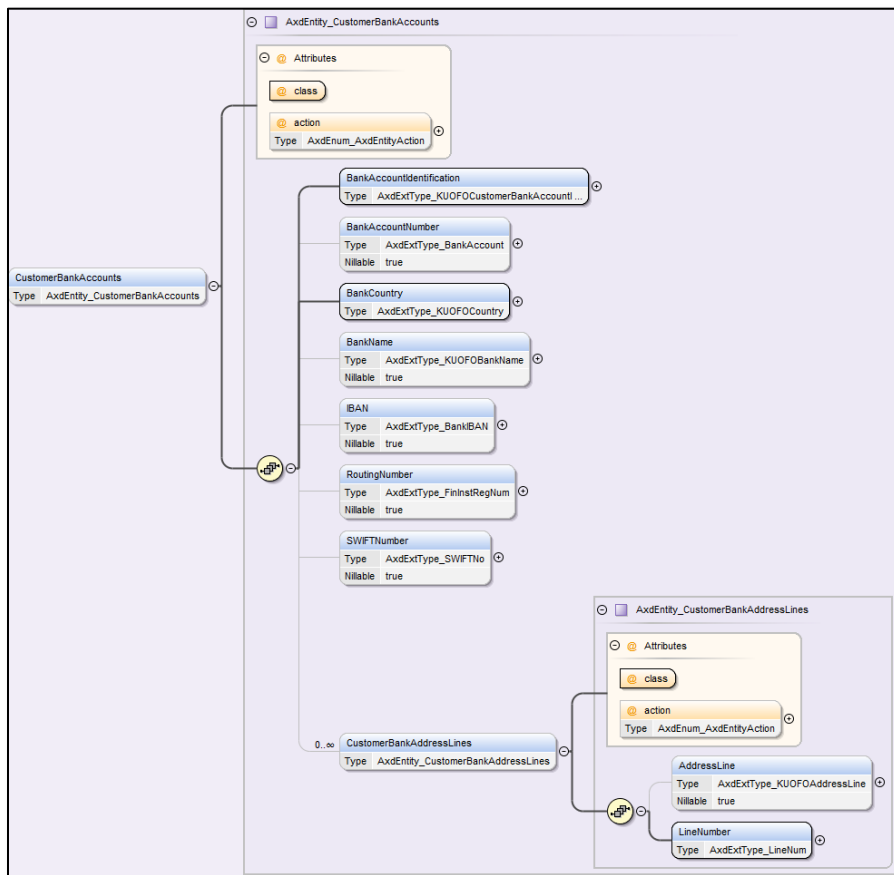


Fig. 7

Elements (/KuoniFOIntegration/FileControl/CustomerMaster/CustomerBankAccounts)

Index	Message Item	Tag	Mandatory/ Optional	Data Type	Description and comment
3.10.1	Kuoni FO Integration +File Control ++Customer Master +++Customer Bank Accounts ++++Bank Account ID	BankAccountIdentification	1..1	string 10	Unique identification of the account by customer account
3.10.2	Kuoni FO Integration +File Control ++Customer Master +++Customer Bank Accounts ++++Bank Account Number	BankAccountNumber	1..1 ¹ if no IBAN provided	string 34	Local account number leave blank if IBAN is provided
3.10.3	Kuoni FO Integration +File Control ++Customer Master +++Customer Bank Accounts ++++Country of the Bank	BankCountry	1..1	string 2	ISO 3166-1 alpha-2 country code of the bank branch office
3.10.4	Kuoni FO Integration +File Control ++Customer Master +++Customer Bank Accounts ++++Name of the Bank	BankName	0..1	string 60	Name of the bank
3.10.5	Kuoni FO Integration +File Control ++Customer Master +++Customer Bank Accounts ++++IBAN Number	IBAN	1..1 ¹ if no local account number provided	string 34	IBAN number optional if local account number is present.
3.10.6	Kuoni FO Integration +File Control ++Customer Master +++Customer Bank Accounts ++++Local Bank Routing Number	RoutingNumber	1..1 ² if no SWIFT provided	string 12	Local routing number leave blank if SWIFT number is provided
3.10.7	Kuoni FO Integration +File Control ++Customer Master +++Customer Bank Accounts ++++SWIFT Code / BIC	SWIFTNumber	1..1 ² if no local routing number provided	string 20	SWIFT number of the bank Optional if local account number and routing number are used.

Supplier Master

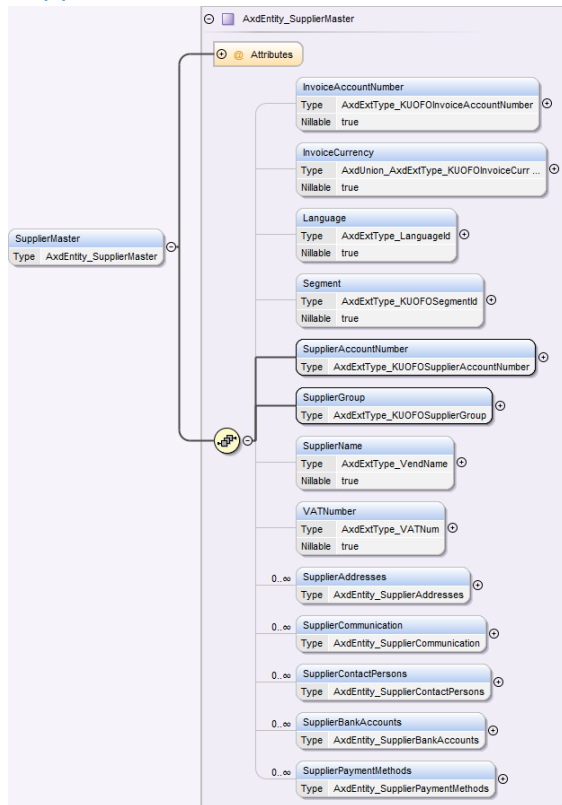


Fig. 8

Index	Message Item	Tag	Mandatory/ Optional	Data Type	Description and comment
4.1	Kuoni FO Integration +File Control ++Supplier Master +++Invoice Account Number	InvoiceAccountNumber	0..1	string 20	In case a supplier has a deviating invoicing account compared to the supplier's account number (4.5) it can be indicated here. Another supplier entity with the number indicated in this tag must exist. With TINA we can probably skip this tag.
4.2	Kuoni FO Integration +File Control ++Supplier Master +++Invoice Currency	InvoiceCurrency	1..1	string 3	ISO 4217 currency code Currency in which invoices will be issued and settled..
4.3	Kuoni FO Integration +File Control ++Supplier Master +++Language	Language	1..1	string 7	Default to "en-gb"
4.4	Kuoni FO Integration +File Control ++Supplier Master +++Segment	Segment	0..1	string 20	This optional information can be used in AX to group suppliers into segments.
4.5	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Account Number	SupplierAccountNumber	1..1	string 20	Unique identification of a supplier. Format: TS-##### (the numbers of digits can vary).
4.6	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Group	SupplierGroup	1..1	string 10	The supplier group is used in AX to define which account setup should be used. Default this to "130"
4.7	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Name	SupplierName	1..1	string 60	Legal name of the supplier.
4.8	Kuoni FO Integration +File Control ++Supplier Master +++VAT Number	VATNumber	0..1	string 20	Tax registration number of the supplier.
4.9	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Addresses	SupplierAddresses	1..n		The main address and optional additional addresses.
4.10	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Communication	SupplierCommunication	0..n		Communication channels like phone and mail.
4.11	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Contact Persons	SupplierContactPersons	0..n		Contact persons related to the supplier.
4.12	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Bank Accounts	SupplierBankAccounts	0..n		Bank account information like IBAN, BIC.
4.13	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Methods of Payment	SupplierPaymentMethods	0..n		Methods of payment are used to indicate the credit card acquirer.

Supplier Addresses

Index	Message Item	Tag	Mandatory/Optional	Data Type	Description and comment
4.9.1	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Addresses ++++Primary Address Flag	AddressIsPrimary	1..1	enum	Possible values are "Yes" and "No" At least one and only one address must be marked as primary. All additional addresses should show "No" in this tag.
4.9.2	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Addresses ++++Address Type	AddressType	1..1	enum	Possible values are "None" "Invoice" "Payment" "Other" "Payment advice" Default to "None"
4.9.3	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Addresses ++++City	City	0..1	string 60	City information
4.9.4	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Addresses ++++Country	Country	1..1	string 2	ISO 3166-1 alpha-2 country codes
4.9.5	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Addresses ++++Address Name	Name	1..1	string 60	repeat the supplier name in case there is no deviating name to use
4.9.6	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Addresses ++++Postal Code	PostCode	0..1	string 10	Postal code / Zip code
4.9.7	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Addresses ++++State	State	0..1	string 10	recommended to keep blank - we would need to coordinate this setup in case you want to use states
4.9.8	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Addresses ++++Address Lines	SupplierAddressLines	0..1		Street information or additional company name parts.

Index	Message Item	Tag	Mandatory/Optional	Data Type	Description and comment
4.9.8.1	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Addresses ++++Address Lines +++++Address Line Text	AddressLine	1..1	string 80	One single line of the address section
4.9.8.2	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Addresses ++++Address Lines +++++Address Line Number	LineNumber	1..1	real	Number to indicate the sort order of the address lines

Supplier Communication

Index	Message Item	Tag	Mandatory/Optional	Data Type	Description and comment
4.10.1	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Communication ++++Communication Type	CommunicationType	1..1	enum	Values are "Phone", "URL", "Email"
4.10.2	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Communication ++++Email Address	Email	1..1* if type is "Email"	string 80	One of these 3 tags must be present according to the type above
4.10.3	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Communication ++++Phone Number	Phone	1..1* if type is "Phone"	string 20	
4.10.4	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Communication ++++Web page address	URL	1..1* if type is "URL"	string 255	

Supplier Contact Persons

Index	Message Item	Tag	Mandatory/ Optional	Data Type	Description and comment
4.11.1	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Contact Persons ++++Contact Person ID	ContactPersonIdentifier	1..1	string 20	Unique identifier across all contact persons for all customers
4.11.2	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Contact Persons ++++Function	Function	0..1	string 10	Recommended to keep blank – values would need to be coordinated if we decide to use this field
4.11.3	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Contact Persons ++++Name of the Person	Name	1..1	string 60	First name and last name of the contact person
4.11.4	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Contact Persons ++++Communication Details	SupplierContactPersonCommunication	0..1		Communication channels like phone or mail related to the contact.

Index	Message Item	Tag	Mandatory/ Optional	Data Type	Description and comment
4.11.4.1	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Contact Persons ++++Communication Details ++++Communication Type	CommunicationType	1..1	enum	Values are "Phone", "URL", "Email"
4.11.4.2	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Contact Persons ++++Communication Details ++++ Email Address	Email	1..1* if type is "Email"	string 80	One of these 3 tags must be present according to the type above
4.11.4.3	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Contact Persons ++++Communication Details ++++ Phone Number	Phone	1..1* if type is "Phone"	string 20	
4.11.4.4	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Contact Persons ++++Communication Details ++++ Web page address	URL	1..1* if type is "URL"	string 255	

Supplier Bank Accounts

Index	Message Item	Tag	Mandatory/ Optional	Data Type	Description and comment
4.12.1	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Bank Accounts ++++Active Date	ActiveDate	0..1	date	To indicate from which date this account should be considered active.
4.12.2	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Bank Accounts ++++Bank Account Identification	BankAccountIdentification	1..1	string 10	Account ID which is unique by supplier.
4.12.3	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Bank Accounts ++++Bank Account Number	BankAccountNumber	1..1 ¹ mandatory if no IBAN present	string 34	Local bank account number.
4.12.4	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Bank Accounts ++++City	BankCity	0..1	string 60	City of the account holding bank branch
4.12.5	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Bank Accounts ++++Country	BankCountry	1..1	string 2	ISO 3166-1 alpha-2 country code of the bank branch office
4.12.6	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Bank Accounts ++++Name	BankName	0..1	string 60	Name of the bank
4.12.10	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Bank Accounts ++++Expiry Date	ExpiryDate	0..1	date	Date when this bank account should not be used anymore.
4.12.11	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Bank Accounts ++++IBAN	IBAN	1..1 ¹ mandatory if no account number present	string 34	IBAN number without spaces
4.12.13	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Bank Accounts ++++Payment Currency	PaymentCurrency	0..1	string 3	To indicate for which currency this supplier bank account should be selected.
4.12.14	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Bank Accounts ++++Routing Number	RoutingNumber	1..1 ² mandatory if no SWIFT available	string 12	Local routing/clearing number of the bank account.
4.12.15	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Bank Accounts ++++SWIFT Number / BIC	SWIFTNumber	1..1 ² mandatory if no routing number available	string 20	SWIFT/BIC of the bank account.

Supplier Methods of Payment

Index	Message Item	Tag	Mandatory/ Optional	Data Type	Description and comment
4.13.1	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Methods of Payment ++++Currency	PaymentCurrency	0..1	string 3	ISO 4217 currency code The currency for which this method of payment should be used.
4.13.2	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Methods of Payment ++++Payment Mode	PaymentMode	1..1	string 10	ID of the method of payment. Example: EUR_VI_TN for EUR payment with Visa card – “TN” for TINA Other credit card types could be MC, AM a.s.o.
4.13.3	Kuoni FO Integration +File Control ++Supplier Master +++Supplier Methods of Payment ++++Payment Specification	PaymentSpecification	0..1	string 10	Leave blank. This field could be used to indicate a sub type of a method of payment.

Sales invoice

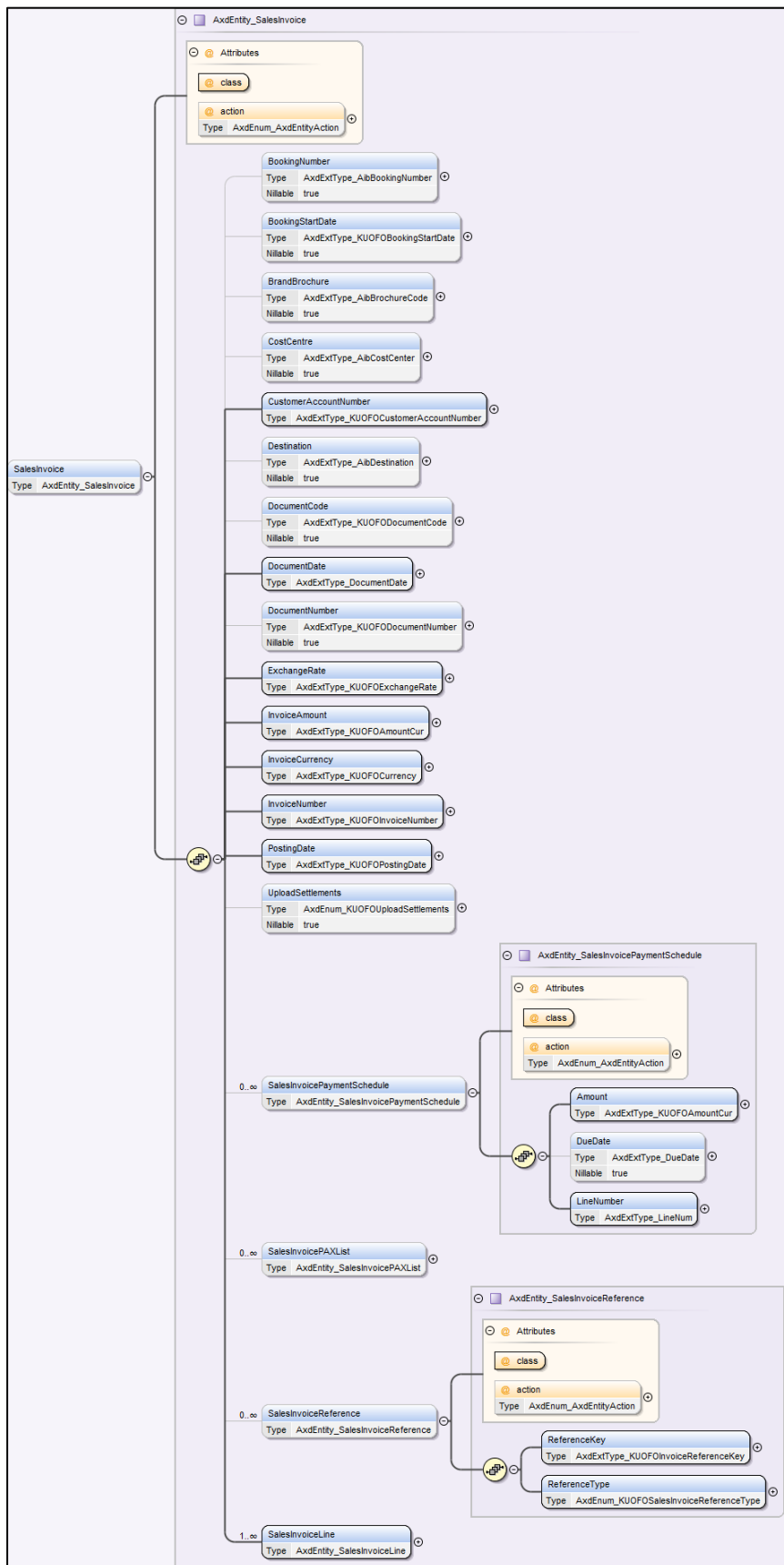


Fig. 9

Elements (/KuoniFOIntegration/FileControl/SalesInvoice)

Index	Message Item	Tag	Mandatory/ Optional	Data Type	Description and comment
5.1	Kuoni FO Integration +File Control ++Sales Invoice +++Booking Number / Tour Reference	BookingNumber	1..1	string 20	Reference to a tour or booking
5.2	Kuoni FO Integration +File Control ++Sales Invoice +++Start Date of the Tour	BookingStartDate	1..1	date	Start date of the tour or booking
5.3	Kuoni FO Integration +File Control ++Sales Invoice +++Source Market	BrandBrochure	1..1	string 20	Content: ISO 3166-1 alpha-2 country codes Source market – this is either the country of our sales office or the country of residence of the customer
5.4	Kuoni FO Integration +File Control ++Sales Invoice +++Cost Centre	CostCentre	1..1*	string 20	Cost centre Can be left blank here if present on all invoice lines.
5.5	Kuoni FO Integration +File Control ++Sales Invoice +++Customer Account Number	CustomerAccountNumber	1..1	string 20	Identification of the customer according to the customer master.
5.6	Kuoni FO Integration +File Control ++Sales Invoice +++Destination	Destination	1..1	string 20	Content: ISO 3166-1 alpha-2 country codes This field holds the country where the service is provided.
5.7	Kuoni FO Integration +File Control ++Sales Invoice +++Document Code	DocumentCode	1..1	string 10	The document code defines the type of document. Possible values (can still be discussed/defined): “IN” – Main Invoice “AD” – Additional Invoice “FS” – Full Storno (Cancellation) “CN” – Credit Note “DN” – Debit Note “DP” – Deposit Invoice “RD” – Reverse Deposit Invoice
5.8	Kuoni FO Integration +File Control ++Sales Invoice +++Document Date	DocumentDate	1..1	date	The date of issuing the sales invoice (printed on the invoice).
5.9	Kuoni FO Integration +File Control ++Sales Invoice +++Document Number	DocumentNumber	0..1	string 20	Internal document number for identification purposes. Can be left blank or show the same value as the Invoice Number below (5.13).
5.10	Kuoni FO Integration +File Control ++Sales Invoice +++Foreign Currency Exchange Rate	ExchangeRate	1..1	real	The exchange rate of the foreign currency amount vs EUR (functional currency of the Kuoni legal entity) multiplied by 100. Example: 100 USD = 83.4448 EUR The exchange rate should show as 83.4448
5.11	Kuoni FO Integration +File Control ++Sales Invoice +++Invoice Amount (Gross)	InvoiceAmount	1..1	real	Gross amount of the invoice total incl. VAT (if applicable) in foreign currency (5.12).
5.12	Kuoni FO Integration +File Control ++Sales Invoice +++Invoice Currency Code	InvoiceCurrency	1..1	string 3	ISO 4217 currency code Currency in which the invoice is issued.
5.13	Kuoni FO Integration +File Control ++Sales Invoice +++Invoice Number	InvoiceNumber	1..1	string 20	Public invoice number communicated to the client (printed on the invoice)
5.14	Kuoni FO Integration +File Control ++Sales Invoice +++Posting Date	PostingDate	1..1	date	Proposed posting date in the financial system. Should be equal to the invoice document date (5.8), since special conditions do not apply here. If a period is closed in the finance systems, a current posting date will be used anyway.
5.15	Kuoni FO Integration +File Control ++Sales Invoice +++Flag to Upload Settlements	UploadSettlements	0..1	enum	Possible values: “No” “Yes” If you want to receive invoice status uploads (8.0), this field should be set to “Yes”.
5.16	Kuoni FO Integration +File Control ++Sales Invoice +++Payment Schedule	SalesInvoicePayment Schedule	1..n		This section is used to indicate a schedule (different due dates for partial amounts of the invoice). If no schedule is present, the full invoice amount must be shown in this section with only one occurrence.
5.16.1	Kuoni FO Integration +File Control ++Sales Invoice +++Payment Schedule ++++Amount	Amount	1..1	real	Gross amount in foreign currency (5.12) incl. VAT portion.
5.16.2	Kuoni FO Integration +File Control ++Sales Invoice +++Payment Schedule ++++Due Date	DueDate	1..1	date	Due date of the invoice or partial amount.
5.16.3	Kuoni FO Integration +File Control ++Sales Invoice +++Payment Schedule ++++Line Number	LineNumber	1..1	real	This number is used to sort the payment schedule lines.

5.17	Kuoni FO Integration +File Control ++Sales Invoice +++PAX list	SalesInvoicePAXList	0..n		Not needed.
5.17.1	Kuoni FO Integration +File Control ++Sales Invoice +++PAX list ++++City	City	0..1	string 60	City the passenger lives in.
5.17.2	Kuoni FO Integration +File Control ++Sales Invoice +++PAX list ++++First name	FirstName	0..1	string 25	First name of the passenger.
5.17.3	Kuoni FO Integration +File Control ++Sales Invoice +++PAX list ++++Last name	LastName	1..1	string 25	Family (last) name of the passenger.
5.17.4	Kuoni FO Integration +File Control ++Sales Invoice +++PAX list ++++Lead Passenger	LeadPax	0..1	enum	Lead passenger (shown on the invoice). Possible values: "Yes" – must only be set for 1 passenger "No" – default value
5.17.5	Kuoni FO Integration +File Control ++Sales Invoice +++PAX list ++++Line Number	LineNumber	1..1	real	Line number used to indicate the sort order.
5.17.6	Kuoni FO Integration +File Control ++Sales Invoice +++PAX list ++++Title	Title	0..1	string 10	Salutation or title of the passenger.
5.18	Kuoni FO Integration +File Control ++Sales Invoice +++Invoice References	SalesInvoiceReference	0..n		Section used to indicate various references.
5.18.1	Kuoni FO Integration +File Control ++Sales Invoice +++Invoice References ++++Reference Key	ReferenceKey	1..1	string 30	The reference value in relation to the type below.
5.18.2	Kuoni FO Integration +File Control ++Sales Invoice +++Invoice References ++++Reference Type	ReferenceType	1..1	enum	Type of reference used. Possible values are: "Replacement" – can be used to indicate which document is replaced with the current invoice "Payment" - used to show a payment reference "TourReference" - can be used to show an additional reference, if the BookingNumber field (5.1) is not sufficient.
5.19	Kuoni FO Integration +File Control ++Sales Invoice +++Invoice lines	SalesInvoiceLine	1..n		This section is listing all invoice lines, which will be posted to the income statement.

Sales invoice - line

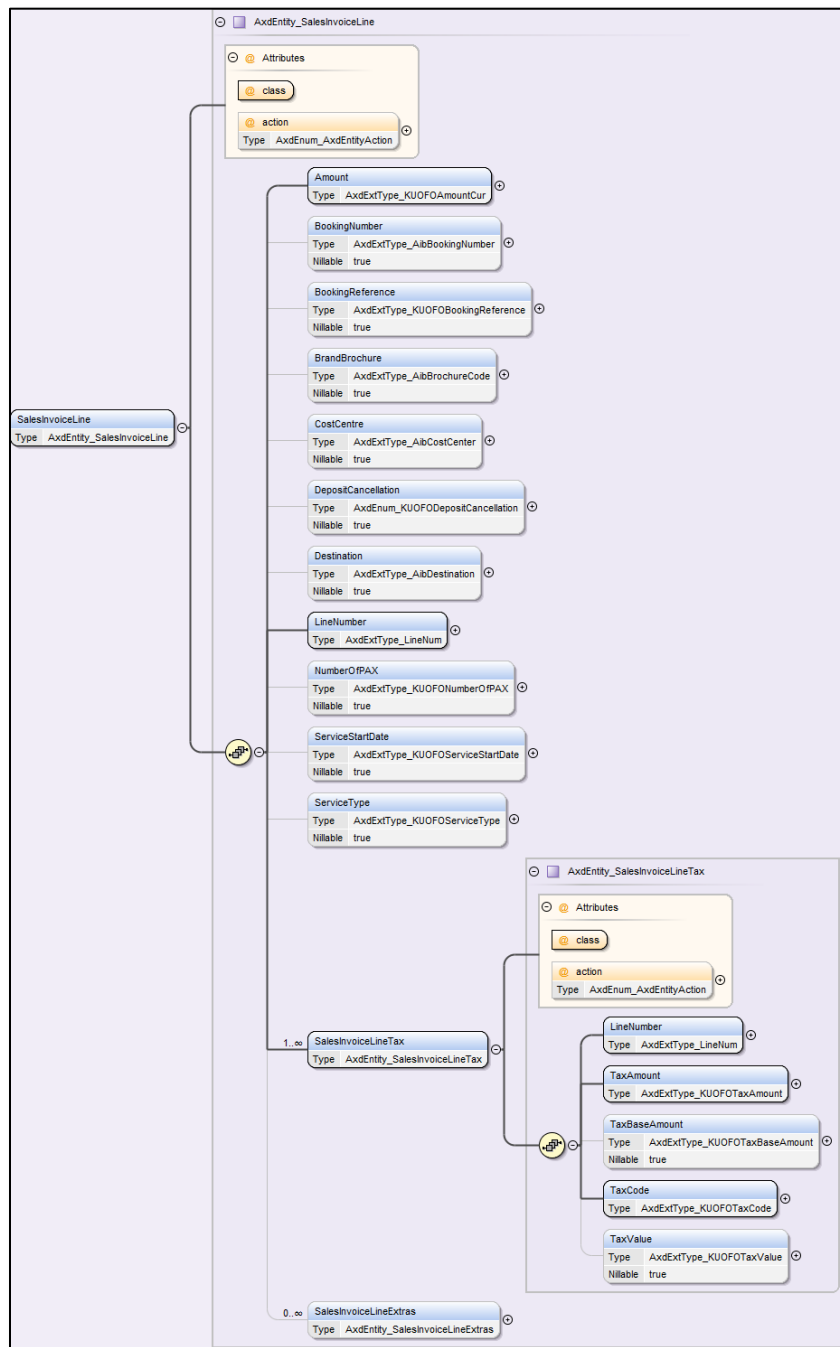


Fig. 10

Index	Message Item	Tag	Mandatory/ Optional	Data Type	Description and comment
5.19.1	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++Amount	Amount	1..1	real	Invoice line gross amount in invoice currency. The total of all line amounts must sum up to the total gross amount on the invoice header.
5.19.2	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++Booking Number	BookingNumber	1..1* only mand. if not present on inv. header	string 20	Reference to a tour or booking. If provided, this information is overriding the information on the invoice header.
5.19.3	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++Booking Reference	BookingReference	0..1	string 20	leave blank
5.19.4	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++Source Market	BrandBrochure	1..1* only mand. if not present on inv. header	string 20	Content: ISO 3166-1 alpha-2 country codes Source market – this is either the country of our sales office or the country of residence of the customer. If provided, this information is overriding the information on the invoice header.
5.19.5	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++Cost Centre	CostCentre	1..1* only mand. if not present on inv. header	string 20	Cost centre information. If provided, this information is overriding the information on the invoice header.
5.19.6	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++Deposit Invoice Cancellation	DepositCancellation	0..1	enum	To indicate whether the current document is the cancellation of a deposit invoice. Possible values are: “None” – default “DepositCancellation”
5.19.7	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++Destination	Destination	1..1* only mand. if not present on inv. header	string 20	Content: ISO 3166-1 alpha-2 country codes This field holds the country where the service is provided.
5.19.8	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++Line Number	LineNumber	1..1	real	Number to indicate the order of the invoice lines and to identify a line.
5.19.9	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++Number of Passengers	NumberOfPAX	0..1	int	Number of passengers / guests.
5.19.10	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++Service Start Date	ServiceStartDate	0..1	date	Start date of this service.
5.19.11	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++Service Type	ServiceType	0..1	string 20	Types of services provided. Examples: AGENT_FEE, HOTEL, GUIDE, RESTAURANT, TAX, TICKETS...
5.19.12	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++Invoice Line Tax Information	SalesInvoiceLineTax	1..n		This section is to provide detailed amounts that will be posted to the income statement in AX. All tax line amounts (TaxAmount+TaxBaseAmount) and surcharges/reductions (5.19.13) need to sum up to the line amount of the respective sales invoice line.
5.19.12.1	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++Invoice Line Tax Information ++++Line Number	LineNumber	1..1	real	Number to indicate the order of the tax lines in relation to an invoice line and to identify a tax line.
5.19.12.2	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++Invoice Line Tax Information ++++Tax Amount	TaxAmount	1..1	real	The VAT amount in invoice currency.
5.19.12.3	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++Invoice Line Tax Information ++++Tax Base Amount	TaxBaseAmount	1..1	real	The amount VAT is calculated based on in invoice currency.
5.19.12.4	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++Invoice Line Tax Information ++++Tax Code	TaxCode	1..1	string 10	This must be a unique code identifying the VAT rate applied. These codes can be defined in TINA, we will apply a mapping in the finance system (AX).
5.19.12.5	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++Invoice Line Tax Information ++++Tax Value / Rate	TaxValue	0..1	real	This is optionally the percentage of VAT, which must align with the code (5.19.12.4) if provided. Recommended to keep this blank.

5.19.13	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++Surcharges / Reductions	SalesInvoiceLineExtras	0..1		This section can be used to list any surcharges or reductions including detailed tax information.
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Sales invoice – reduction/surcharge line

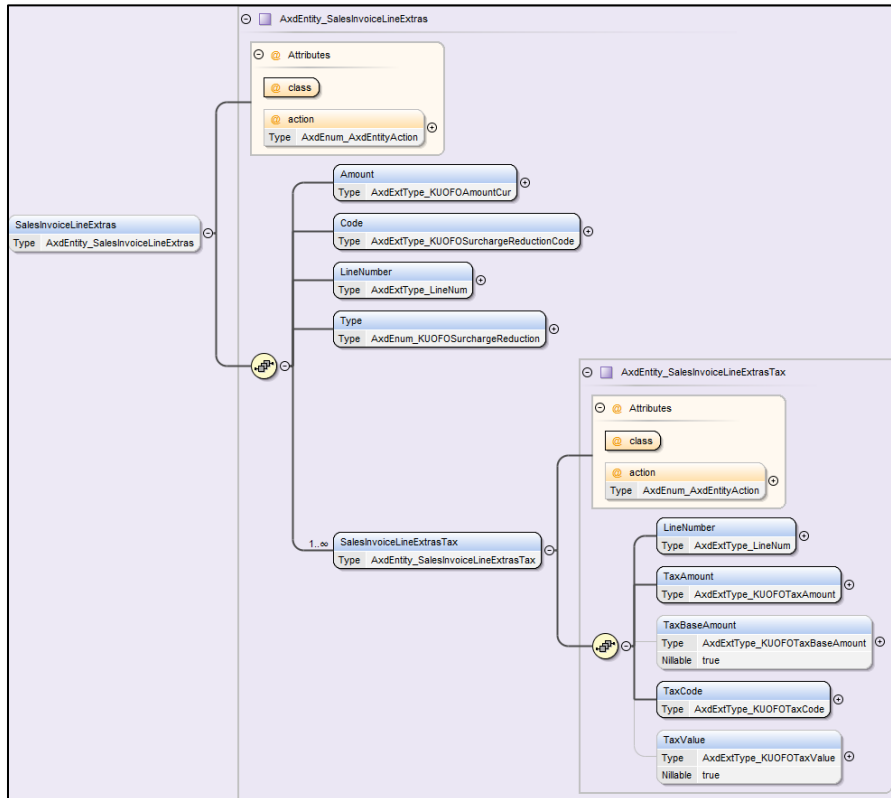


Fig. 11

Index	Message Item	Tag	Mandatory/ Optional	Data Type	Description and comment
5.19.13.1	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++ Surcharges / Reductions ++++Amount	Amount	1..1	real	Surcharge/reduction gross amount in invoice currency. The total of all line amounts must sum up to the total gross amount on the invoice header.
5.19.13.2	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++ Surcharges / Reductions ++++Code	Code	1..1	string 20	This is a code indicating
5.19.13.3	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++ Surcharges / Reductions ++++Line Number	Line Number	1..1	real	Line number which identifies a surcharge/reduction line by invoice line.
5.19.13.4	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++ Surcharges / Reductions ++++Type	Type	1..1	enum	Indicates whether the line is a surcharge or reduction. Values: "Surcharge" "Reduction"
5.19.13.5	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++ Surcharges / Reductions ++++ Extra Line Tax	SalesInvoiceLineExtrasTax	0..n		This section works the same way as 5.19.12 handling the P&L transactions for surcharges and reductions.
5.19.13.5.1	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++ Surcharges / Reductions ++++ Extra Line Tax ++++Line Number	LineNumber	1..1	real	Number to indicate the order of the tax lines in relation to a surcharge/reduction line and to identify a tax line.
5.19.13.5.2	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++ Surcharges / Reductions ++++ Extra Line Tax ++++Tax Amount	TaxAmount	1..1	real	The VAT amount in invoice currency.
5.19.13.5.3	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++ Surcharges / Reductions ++++ Extra Line Tax ++++Tax BaseAmount	TaxBaseAmount	1..1	real	The amount VAT is calculated based on in invoice currency.
5.19.13.5.4	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++ Surcharges / Reductions ++++ Extra Line Tax ++++Tax Code	TaxCode	1..1	string 10	This must be a unique code identifying the VAT rate applied. These codes can be defined in TINA, we will apply a mapping in the finance system (AX).
5.19.13.5.5	Kuoni FO Integration +File Control ++Sales Invoice +++Sales Invoice Line ++++ Surcharges / Reductions ++++ Extra Line Tax ++++Tax Value / Rate	TaxValue	0..1	real	This is optionally the percentage of VAT, which must align with the code (5.19.12.4) if provided. Recommended to keep this blank.

Customer payment

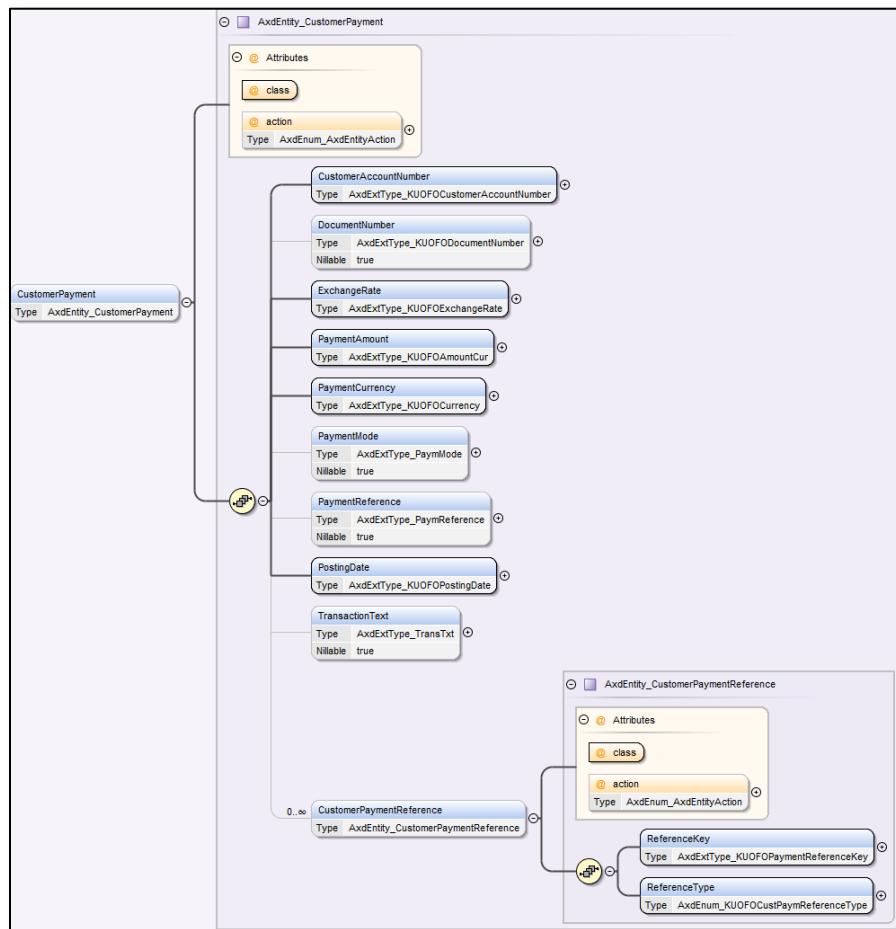


Fig. 12

Index	Message Item	Tag	Mandatory/ Optional	Data Type	Description and comment
10.1	Kuoni FO Integration +File Control ++Customer Payment +++Booking Number	BookingNumber	1..1	string 20	Reference to a tour or booking if available
10.2	Kuoni FO Integration +File Control ++Customer Payment +++Account Number	CustomerAccountNumber	1..1	string 20	format "TC-#####" 8 digits with leading zeros
10.3	Kuoni FO Integration +File Control ++Customer Payment +++Document Number	DocumentNumber	0..1	string 20	Internal document number for identification purposes of the payment.
10.4	Kuoni FO Integration +File Control ++Customer Payment +++Exchange Rate	ExchangeRate	1..1	real	The exchange rate of the foreign currency amount vs EUR (functional currency of the Kuoni legal entity) multiplied by 100. Example: 100 USD = 83.4448 EUR The exchange rate should show as 83.4448
10.5	Kuoni FO Integration +File Control ++Customer Payment +++Payment Amount	PaymentAmount	1..1	real	Gross amount of the payment in foreign currency (10.5).
10.6	Kuoni FO Integration +File Control ++Customer Payment +++Payment Currency	PaymentCurrency	1..1	string 3	ISO 4217 currency code
10.7	Kuoni FO Integration +File Control ++Customer Payment +++Method of Payment	PaymentMode	1..1	string 10	The method of payment indicates how a payment was done. Whether it was bank transfer, credit card. The codes used here will be created in AX accordingly.
10.8	Kuoni FO Integration +File Control ++Customer Payment +++Payment Reference	PaymentReference	0..1	string 20	A reference that can be used to reconcile payments with the bank statements. This should be a reference used by the client.
10.9	Kuoni FO Integration +File Control ++Customer Payment +++Posting Date	PostingDate	1..1	date	Financial posting date that should be used.
10.10	Kuoni FO Integration +File Control ++Customer Payment +++Transaction Text	TransactionText	0..1	string 60	Any additional information can be put in this field. It will show in AX on the payment transaction.
10.11	Kuoni FO Integration +File Control ++Customer Payment +++Payment Reference Details	CustomerPaymentReference	0..n		This section can be used to transfer any additional references that could not be covered with 10.8.
10.11.1	Kuoni FO Integration +File Control ++Customer Payment +++Payment Reference Details ++++Reference Key	ReferenceKey	1..1	string 20	The reference value in relation to the type below.
10.11.2	Kuoni FO Integration +File Control ++Customer Payment +++Payment Reference Details ++++Reference Type	ReferenceType	1..1	enum	Type of reference used. Possible values are: "CreditCardAuthorizationCode" can be used to transfer the authorization code related to credit card payments. "TransactionId" used to show a reference to the credit card transaction ID provided by the bank "BankTransactionType" to show the type of bank transfer.

Cost estimate / Purchase order

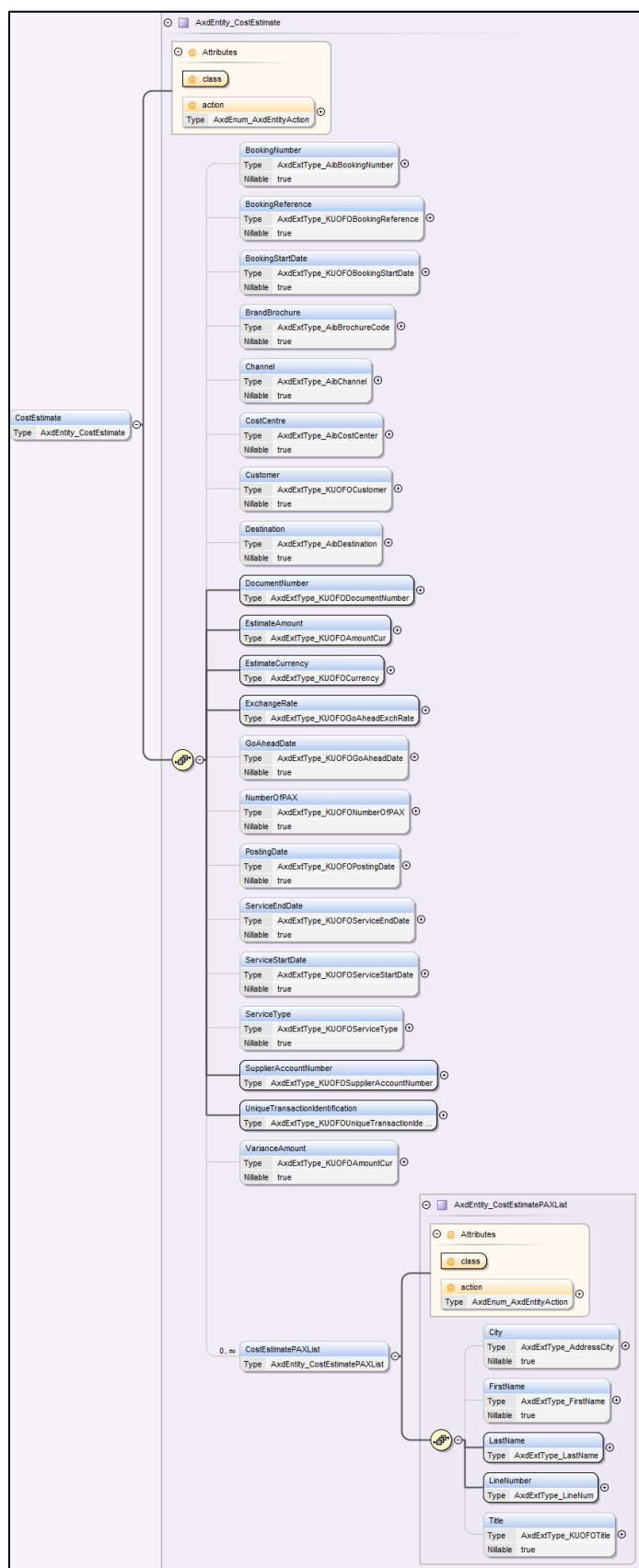


Fig. 13

Index	Message Item	Tag	Mandatory/ Optional	Data Type	Description and comment
6.1	Kuoni FO Integration +File Control ++Cost Estimate +++Booking Number	BookingNumber	1..1	string 20	Reference to a tour or booking
6.2	Kuoni FO Integration +File Control ++Cost Estimate +++Booking Reference	BookingReference	0..1	string 20	Leave blank. This would be additional settlement information.
6.3	Kuoni FO Integration +File Control ++Cost Estimate +++Booking Start Date	BookingStartDate	1..1	date	The first service start date of the tour/booking
6.4	Kuoni FO Integration +File Control ++Cost Estimate +++Source Market	BrandBrochure	1..1	string 20	Content: ISO 3166-1 alpha-2 country codes Source market – this is either the country of our sales office or the country of residence of the customer
6.5	Kuoni FO Integration +File Control ++Cost Estimate +++Channel	Channel	0..1	string 20	Leave blank. The business could be separated into various channels.
6.6	Kuoni FO Integration +File Control ++Cost Estimate +++Cost Centre	CostCentre	1..1	string 20	Cost centre information.
6.7	Kuoni FO Integration +File Control ++Cost Estimate +++Customer	Customer	0..1	string 20	Customer account number related to this service (if available)
6.8	Kuoni FO Integration +File Control ++Cost Estimate +++Destination	Destination	1..1	string 20	Content: ISO 3166-1 alpha-2 country codes This field holds the country where the service is provided.
6.9	Kuoni FO Integration +File Control ++Cost Estimate +++Document Number	DocumentNumber	1..1	string 20	The document number should identify the purchase order line.
6.10	Kuoni FO Integration +File Control ++Cost Estimate +++Estimate Amount	EstimateAmount	1..1	real	Gross amount of the purchase order position in estimate currency (6.11).
6.11	Kuoni FO Integration +File Control ++Cost Estimate +++Estimate Currency	EstimateCurrency	1..1	string 3	ISO 4217 currency code The estimate currency must be equal to the currency the future purchase invoice will be raised with.
6.12	Kuoni FO Integration +File Control ++Cost Estimate +++Exchange Rate	ExchangeRate	1..1	real	The exchange rate of the foreign currency amount vs EUR (functional currency of the Kuoni legal entity) multiplied by 100. Example: 100 USD = 83.4448 EUR The exchange rate should show as 83.4448
6.13	Kuoni FO Integration +File Control ++Cost Estimate +++Go Ahead Date	GoAheadDate	0..1	date	The confirmation date of the booking.
6.14	Kuoni FO Integration +File Control ++Cost Estimate +++Number of PAX	NumberOfPAX	0..1	int	Number of PAX of this particular service line.
6.15	Kuoni FO Integration +File Control ++Cost Estimate +++Posting Date	PostingDate	1..1	date	Cost accruals for this service line will be posted as of this given date.
6.16	Kuoni FO Integration +File Control ++Cost Estimate +++Service End Date	ServiceEndDate	1..1	date	The date when this service ends.
6.17	Kuoni FO Integration +File Control ++Cost Estimate +++Service Start Date	ServiceStartDate	1..1	date	The date when this service starts.
6.18	Kuoni FO Integration +File Control ++Cost Estimate +++Service Type	ServiceType	1..1	string 20	Types of services provided. Examples: AGENT_FEE, HOTEL, GUIDE, RESTAURANT, TAX, TICKETS...
6.19	Kuoni FO Integration +File Control ++Cost Estimate +++Supplier Account Number	SupplierAccountNumber	1..1	string 20	
6.20	Kuoni FO Integration +File Control ++Cost Estimate +++Unique Transaction Identification	UniqueTransactionIdentification	1..1	string 20	This ID must be unique across all cost estimates. Best use with a prefix used by only TINA.
6.21	Kuoni FO Integration +File Control ++Cost Estimate +++Variance Amount	VarianceAmount	0..1	real	Depending on how TINA works, this amount can be used in case of updates, where the base amount (6.10) must stay the same. If the variance amount is not used, updates will show in the base amount (6.10).
6.22	Kuoni FO Integration +File Control ++Cost Estimate +++PAX List	CostEstimatePAXList	0..n		List of passengers/group members.

6.22.1	Kuoni FO Integration +File Control ++Cost Estimate +++PAX List ++++City	City	0..1	string 60	City the passenger lives in.
6.22.2	Kuoni FO Integration +File Control ++Cost Estimate +++PAX List ++++First Name	FirstName	0..1	string 25	First name of the passenger.
6.22.3	Kuoni FO Integration +File Control ++Cost Estimate +++PAX List ++++Last Name	LastName	1..1	string 25	Family name of the passenger.
6.22.4	Kuoni FO Integration +File Control ++Cost Estimate +++PAX List ++++Line Number	LineNumber	1..1	real	Lines should be uniquely numbers per cost estimate.
6.22.5	Kuoni FO Integration +File Control ++Cost Estimate +++PAX List ++++Title	Title	0..1	string 10	Optional title of a passenger.