



Guideline: Kuehne + Nagel XML Freight Invoice

Elements	St	Occurrence	Annotations	
Message Layout				
FreightInvoiceExt	M		Type:	Element
xsd:sequence	M	1..1	Type:	ContentModel
Envelope	M	1..1	Type:	Element
xsd:sequence	M	1..1	Type:	ContentModel
SenderIdentification	M	1..1	Type: String1..13 Length: 1 .. 13 Format: String1..13 Description: Identification of the sender of the data	Element
ReceiverIdentification	M	1..1	Type: String1..13 Length: 1 .. 13 Format: String1..13 Description: Identification of the receiver of the data (Kuehne + Nagel's logical code). Please see appendix for available qualifiers.	Element
MessageType	M	1..1	Type: MessageTypes Length: 1 .. 10 Pattern: [^a-z]+ Format: MessageTypes Description: Pattern expresses: no lower-case characters are allowed Coded name of the message. Fixed value.	Element
MessageVersion	M	1..1	Type: VersionType Pattern: \d{2}.\d{2} Format: VersionType Description: Use the version number of the XSD file e.g. 01.10.	Element
EnvelopeIdentification	M	1..1	Type: String1..13 Length: 1 .. 13 Format: String1..13 Description: Unique identification number of the message.	Element
TransmissionDateTime	M	1..1	Type: DateTime	Element
xsd:sequence	M	1..1	Type:	ContentModel
Date	M	1..1	Type: DateType Format: xsd:date Remark: Date format: YYYY-MM-DD	Element

St = Status: M=Mandatory, O=Optional

Version: FreightInvoiceExt; Guide 01.30;
Author: Kuehne + Nagel - Corporate IT Center - Ham MI-EK MRRelease date: 20.05.2009
Page: 11



Guideline: Kuehne + Nagel XML Freight Invoice

Elements	St	Occurrence	Annotations	
└ Time	M	1..1	Type: xsd:time Format: xsd:time Remark: Definition: time = hh:mm:ss UTC = Z UTC time difference = (+ -) hh:m	Element
			These three time definitions are possible and one of it should be agreed with your Kuehne + Nagel contact person: 1. 14:28:00 - only the time means: local time 2. 15:28:00Z - time with a Z means: the time is UTC 3. 14:28:00-01:00 - time with the UTC time difference means: time is local time and "-01:00" is the difference from UTC (example: UTC is 15:28:00; UTC-01:00 = 14:28:00=local time)	
└ Message	M	1..unbounded	Type:	Element
xsd:sequence	M	1..1	Type:	ContentModel
InvoiceHeader	M	1..1	Type:	Element
xsd:sequence	M	1..1	Type:	ContentModel
InvoiceType	M	1..1	Type: InvoiceFlagType Pattern: [^a-z]* Format: InvoiceFlagType Description: Pattern expresses: no lower-case characters are allowed Remark: Identifies if it is an Bulk Invoice or a Sales Invoice. 'B' = Bulk Invoice 'S' = Sales Invoice	Element
InvoiceNumber	M	1..1	Type: InvoiceNumberType Length: 1 .. 10 Format: InvoiceNumberType Remark: Number of the Invoice/ Credit Note	Element
InvoiceDate	M	1..1	Type: xsd:date Format: xsd:date	Element
InvoiceDueDate	M	1..1	Type: xsd:date Format: xsd:date	Element
CreditDebitFlag	M	1..1	Type: CreditDebitFlagType Pattern: [^a-z]* Format: CreditDebitFlagType Description: Pattern expresses: no lower-case characters are allowed Remark: Identifies if it is an Debit or Credit. 'D' = Debit 'C' = Credit	Element

St = Status: M=Mandatory, O=Optional



Guideline: Kuehne + Nagel XML Freight Invoice

Elements	St	Occurrence	Annotations	
InvoiceToAddress	M	1..1	Type:	Element
xsd:sequence	M	1..1	Type:	ContentModel
PartyInformation	M	1..1	Type: Address	Element
xsd:sequence	M	1..1	Type:	ContentModel
— PartyName	M	1..1	Type: String1..35 Length: 1 .. 35 Format: String1..35	Element
— PartyName_2	O	0..1	Type: String0..35 Length: 0 .. 35 Format: String0..35	Element
— Street	M	1..1	Type: String1..35 Length: 1 .. 35 Format: String1..35	Element
— Street_2	O	0..1	Type: String0..35 Length: 0 .. 35 Format: String0..35	Element
— POBox	O	0..1	Type: String0..10 Length: 0 .. 10 Format: String0..10	Element
— City	M	1..1	Type: String1..35 Length: 1 .. 35 Format: String1..35	Element
— ZIPCode	O	0..1	Type: String0..12 Length: 0 .. 12 Format: String0..12	Element
— StateRegionCode	O	0..1	Type: String0..3 Length: 0 .. 3 Format: String0..3	Element
— CountryCode	M	1..1	Type: CountryCodeType Pattern: [A-Z]{2} Format: CountryCodeType Description: UN Country Code (ISO 3166-1) Pattern expresses: only 2 capital letters characters are allowed	Element
— KNAddressCode	O	0..1	Type: String0..12 Length: 0 .. 12 Format: String0..12 Remark: Kuehne + Nagel customer ID	Element

St = Status: M=Mandatory, O=Optional

Version: FreightInvoiceExt; Guide 01.30;

Author: Kuehne + Nagel - Corporate IT Center - Ham MI-EK MR

Release date: 20.05.2009

Page: 13



Guideline: Kuehne + Nagel XML Freight Invoice

Elements	St	Occurrence	Annotations	
— AccountNo	M	1..1	Type: AccountNumberType Length: 1 .. 17 Format: String1..17 Remark: Account Number of the Invoice Receiver in Kuehne + Nagel's Accounting System	Element
— VATNo	O	0..1	Type: VATNoType Length: 1 .. 18 Format: String1..18	Element
— InvoicedByAddress	M	1..1	Type:	Element
xsd:sequence	M	1..1	Type:	ContentModel
PartyInformation	M	1..1	Type: Address	Element
xsd:sequence	M	1..1	Type:	ContentModel
— PartyName	M	1..1	Type: String1..35 Length: 1 .. 35 Format: String1..35	Element
— PartyName_2	O	0..1	Type: String0..35 Length: 0 .. 35 Format: String0..35	Element
— Street	M	1..1	Type: String1..35 Length: 1 .. 35 Format: String1..35	Element
— Street_2	O	0..1	Type: String0..35 Length: 0 .. 35 Format: String0..35	Element
— POBox	O	0..1	Type: String0..10 Length: 0 .. 10 Format: String0..10	Element
— City	M	1..1	Type: String1..35 Length: 1 .. 35 Format: String1..35	Element
— ZIPCode	O	0..1	Type: String0..12 Length: 0 .. 12 Format: String0..12	Element
— StateRegionCode	O	0..1	Type: String0..3 Length: 0 .. 3 Format: String0..3	Element

St = Status: M=Mandatory, O=Optional



Guideline: Kuehne + Nagel XML Freight Invoice

Elements	St	Occurrence	Annotations	
CountryCode	M	1..1	Type: CountryCodeType Pattern: [A-Z]{2} Format: CountryCodeType Description: UN Country Code (ISO 3166-1) Pattern expresses: only 2 capital letters characters are allowed	Element
KNAddressCode	O	0..1	Type: String0..12 Length: 0 .. 12 Format: String0..12 Remark: Kuehne + Nagel customer ID	Element
VATNo	O	0..1	Type: VATNoType Length: 1 .. 18 Format: String1..18	Element
InvoiceDetails	M	1..unbounded	Type:	Element
xsd:sequence	M	1..1	Type:	ContentModel
KNFileReference	M	1..1	Type: KNFileReferenceType Pattern: \d{4}\-\d{4}\-\d{3}\.\d{3} Format: KNFileReferenceType	Element
InvoiceAmount	M	1..1	Type: MonetaryAmount	Element
xsd:sequence	M	1..1	Type:	ContentModel
Value	M	1..1	Type: Numeric13_2 FractionDigits: 2 TotalDigits: 13 Format: Numeric13_2 Description: The decimals have always to be send (e.g. 23.00). Additionally no trailing zeros are allowed (e.g. NOT 23.333000 - only 23.33). The number of decimals depends on currency.	Element
Currency	M	1..1	Type: CurrencyCodeType Pattern: [A-Z]{3} Format: CurrencyCodeType Description: Use ISO 4217 three alpha currency codes. Pattern expresses: only 3 capital letters characters are allowed	Element
VATDetails	M	1..3	Type:	Element
xsd:sequence	M	1..1	Type:	ContentModel
VATText	M	1..1	Type: String1..35 Length: 1 .. 35 Format: String1..35	Element
VATBaseValue	M	1..1	Type: MonetaryAmount	Element
xsd:sequence	M	1..1	Type:	ContentModel

St = Status: M=Mandatory, O=Optional



Guideline: Kuehne + Nagel XML Freight Invoice

Elements	St	Occurrence	Annotations	
Value	M	1..1	Type: Numeric13_2 FractionDigits: 2 TotalDigits: 13 Format: Numeric13_2 Description: The decimals have always to be send (e.g. 23.00). Additionally no trailing zeros are allowed (e.g. NOT 23.333000 - only 23.33). The number of decimals depends on currency.	Element TotalDigits: 13
Currency	M	1..1	Type: CurrencyCodeType Pattern: [A-Z]{3} Format: CurrencyCodeType Description: Use ISO 4217 three alpha currency codes. Pattern expresses: only 3 capital letters characters are allowed	Element
VATValue xsd:sequence Value	M	1..1	Type: MonetaryAmount12	Element
	M	1..1	Type:	ContentModel
	M	1..1	Type: Numeric12_2 FractionDigits: 2 TotalDigits: 12 Format: Numeric12_2 Description: The decimals have always to be send (e.g. 23.00). Additionally no trailing zeros are allowed (e.g. NOT 23.333000 - only 23.33). The number of decimals depends on currency.	Element TotalDigits: 12
Currency	M	1..1	Type: CurrencyCodeType Pattern: [A-Z]{3} Format: CurrencyCodeType Description: Use ISO 4217 three alpha currency codes. Pattern expresses: only 3 capital letters characters are allowed	Element
VATRate	M	1..1	Type: PercentageType FractionDigits: 2 TotalDigits: 4 Format: Numeric4_2 Description: The decimals have always to be send (e.g. 23.00). Additionally no trailing zeros are allowed (e.g. NOT 23.333000 - only 23.33). Remark: VAT Rate with two decimals in percentage	Element TotalDigits: 4
ChargeDetails	M	1..unbounded	Type: ChargeDetails Remark: Kuehne + Nagel Charge Code Please see appendix for available qualifiers.	Element
xsd:sequence	M	1..1	Type:	ContentModel

St = Status: M=Mandatory, O=Optional



Guideline: Kuehne + Nagel XML Freight Invoice

Elements	St	Occurrence	Annotations	
— ChargeCode	M	1..1	Type: String1..3 Length: 1 .. 3 Format: String1..3	Element
— CreditDebitFlag	M	1..1	Type: CreditDebitFlagType Pattern: [^a-z]* Format: CreditDebitFlagType Description: Pattern expresses: no lower-case characters are allowed Remark: Identifies if it is an Debit or Credit. 'D' = Debit 'C' = Credit	Element
— ChargeDescription	M	1..1	Type: String1..35 Length: 1 .. 35 Format: String1..35	Element
— ChargeAmount xsd:sequence Value	M	1..1	Type: MonetaryAmount	Element
	M	1..1	Type:	ContentModel
	M	1..1	Type: Numeric13_2 FractionDigits: 2 TotalDigits: 13 Format: Numeric13_2 Description: The decimals have always to be send (e.g. 23.00). Additionally no trailing zeros are allowed (e.g. NOT 23.333000 - only 23.33). The number of decimals depends on currency.	Element TotalDigits: 13
— Currency	M	1..1	Type: CurrencyCodeType Pattern: [A-Z]{3} Format: CurrencyCodeType Description: Use ISO 4217 three alpha currency codes. Pattern expresses: only 3 capital letters characters are allowed	Element
— VATPercentage	M	1..1	Type: PercentageType FractionDigits: 2 TotalDigits: 4 Format: Numeric4_2 Description: The decimals have always to be send (e.g. 23.00). Additionally no trailing zeros are allowed (e.g. NOT 23.333000 - only 23.33). VAT Rate with two decimals in percentage	Element TotalDigits: 4
— ChargeRemarks	O	0..2	Type: String0..75 Length: 0 .. 75 Format: String0..75	Element
— CalculationQuantity xsd:sequence	O	0..1	Type: Quantity	Element
	M	1..1	Type:	ContentModel

St = Status: M=Mandatory, O=Optional



Guideline: Kuehne + Nagel XML Freight Invoice

Elements	St	Occurrence	Annotations	
Value	M	1..1	Type: Numeric13_3 FractionDigits: 3 TotalDigits: 13 Format: Numeric13_3 Description: The decimals have always to be send (e.g. 23.330). Additionally no trailing zeros are allowed (e.g. NOT 23.33000 - only 23.330).	Element TotalDigits: 13
UOM	M	1..1	Type: UOMType Length: 1 .. 3 Pattern: [^a-z]+ Format: UOMType Description: Pattern expresses: no lower-case characters are allowed Remark: Code identifies the Package type. Please see appendix for available qualifiers. Unit of Measure	Element
CalculationRate	O	0..1	Type: Numeric11_2 FractionDigits: 2 TotalDigits: 11 Format: Numeric11_2 Description: The decimals have always to be send (e.g. 23.00). Additionally no trailing zeros are allowed (e.g. NOT 23.333000 - only 23.33).	Element TotalDigits: 11
ForeignChargeAmount	O	0..1	Type: MonetaryAmount	Element
xsd:sequence	M	1..1	Type:	ContentModel
Value	M	1..1	Type: Numeric13_2 FractionDigits: 2 TotalDigits: 13 Format: Numeric13_2 Description: The decimals have always to be send (e.g. 23.00). Additionally no trailing zeros are allowed (e.g. NOT 23.333000 - only 23.33). The number of decimals depends on currency.	Element TotalDigits: 13
Currency	M	1..1	Type: CurrencyCodeType Pattern: [A-Z]{3} Format: CurrencyCodeType Description: Use ISO 4217 three alpha currency codes. Pattern expresses: only 3 capital letters characters are allowed	Element

St = Status: M=Mandatory, O=Optional

Version: FreightInvoiceExt; Guide 01.30;

Author: Kuehne + Nagel - Corporate IT Center - Ham MI-EK MR

Release date: 20.05.2009

Page: 18



Guideline: Kuehne + Nagel XML Freight Invoice

Elements	St	Occurrence	Annotations	
└─ ExchangeRate	O	0..1	<p>Type: ExchangeRateType</p> <p>FractionDigits: 4</p> <p>TotalDigits: 11</p> <p>Format: ExchangeRateType</p> <p>Description: The decimals have always to be send (e.g. 23.3330). Additionally no trailing zeros are allowed (e.g. NOT 23.333000 - only 23.3330).</p> <p>Remark: Exchange rate is used to calculate Charge Amount from Foreign Charge Amount with 4 decimals.</p> <p>Mandatory in case of usage of ForeignChargeAmount</p>	Element TotalDigits: 11
└─ AddressInformation	O	0..9	Type:	Element
└─ xsd:sequence	M	1..1	Type:	ContentModel
└─ AddressType	M	1..1	<p>Type: AddressTypeCode</p> <p>Pattern: [^a-zA-Z]+</p> <p>Format: AddressTypeCode</p> <p>Description: Pattern expresses: no lower-case characters are allowed</p> <p>Remark: Code identifies / classifies the individual address.</p> <p>Please see appendix for available qualifiers.</p> <p>e.g. 'SH' - Shipper</p>	Element
└─ PartyInformation	M	1..1	Type: Address	Element
└─ xsd:sequence	M	1..1	Type:	ContentModel
└─ PartyName	M	1..1	<p>Type: String1..35</p> <p>Length: 1 .. 35</p> <p>Format: String1..35</p>	Element
└─ PartyName_2	O	0..1	<p>Type: String0..35</p> <p>Length: 0 .. 35</p> <p>Format: String0..35</p>	Element
└─ Street	M	1..1	<p>Type: String1..35</p> <p>Length: 1 .. 35</p> <p>Format: String1..35</p>	Element
└─ Street_2	O	0..1	<p>Type: String0..35</p> <p>Length: 0 .. 35</p> <p>Format: String0..35</p>	Element
└─ POBox	O	0..1	<p>Type: String0..10</p> <p>Length: 0 .. 10</p> <p>Format: String0..10</p>	Element
└─ City	M	1..1	<p>Type: String1..35</p> <p>Length: 1 .. 35</p> <p>Format: String1..35</p>	Element

St = Status: M=Mandatory, O=Optional



Guideline: Kuehne + Nagel XML Freight Invoice

Elements	St	Occurrence	Annotations	
ZIPCode	O	0..1	Type: String0..12 Length: 0 .. 12 Format: String0..12	Element
StateRegionCode	O	0..1	Type: String0..3 Length: 0 .. 3 Format: String0..3	Element
CountryCode	M	1..1	Type: CountryCodeType Pattern: [A-Z]{2} Format: CountryCodeType Description: UN Country Code (ISO 3166-1) Pattern expresses: only 2 capital letters characters are allowed	Element
KNAddressCode	O	0..1	Type: String0..12 Length: 0 .. 12 Format: String0..12 Remark: Kuehne + Nagel customer ID	Element
ReferenceInformation	O	0..unbounded	Type: Reference	Element
xsd:sequence	M	1..1	Type:	ContentModel
AddressType	M	1..1	Type: AddressTypeCode Pattern: [^a-z]+ Format: AddressTypeCode Description: Pattern expresses: no lower-case characters are allowed Remark: Code identifies / classifies the individual address. Please see appendix for available qualifiers. e.g. 'SH' - Shipper	Element
ReferenceType	M	1..1	Type: ReferenceCodeType Length: 2 .. 3 Pattern: [^a-z]+ Format: ReferenceCodeType Description: Pattern expresses: no lower-case characters are allowed Remark: Code identifies the reference type. The reference type code is mandatory for each reference. Please see appendix for available qualifiers.	Element
Reference	M	1..1	Type: String1..35 Length: 1 .. 35 Format: String1..35 Remark: Reference Text	Element

St = Status: M=Mandatory, O=Optional



Guideline: Kuehne + Nagel XML Freight Invoice

Elements	St	Occurrence	Annotations	
InvoiceRemarks	O	0..unbounded	Type: String0..70 Length: 0 .. 70 Format: String0..70	Element
ShipmentInformation	M	1..1	Type:	Element
xsd:sequence	M	1..1	Type:	ContentModel
TotalNumberOfPackages	M	1..1	Type: Numeric6_0 FractionDigits: 0 TotalDigits: 6 Format: Numeric6_0	Element
TotalNumberOfPackagesDangerousGoods	O	0..1	Type: Numeric6_0 FractionDigits: 0 TotalDigits: 6 Format: Numeric6_0	Element
TotalGrossWeight	M	1..1	Type: Weight	Element
xsd:sequence	M	1..1	Type:	ContentModel
Value	M	1..1	Type: Numeric10_2 FractionDigits: 2 TotalDigits: 10 Format: Numeric10_2 Description: The decimals have always to be send (e.g. 23.00). Additionally no trailing zeros are allowed (e.g. NOT 23.333000 - only 23.33).	Element
MeasureUnit	M	1..1	Type: restriction (MeasureUnit) Format: MeasureUnit	Element
TotalChargeableWeight	O	0..1	Type: Weight	Element
xsd:sequence	M	1..1	Type:	ContentModel
Value	M	1..1	Type: Numeric10_2 FractionDigits: 2 TotalDigits: 10 Format: Numeric10_2 Description: The decimals have always to be send (e.g. 23.00). Additionally no trailing zeros are allowed (e.g. NOT 23.333000 - only 23.33).	Element
MeasureUnit	M	1..1	Type: restriction (MeasureUnit) Format: MeasureUnit	Element
TotalGrossVolume	M	1..1	Type: Volume	Element
xsd:sequence	M	1..1	Type:	ContentModel

St = Status: M=Mandatory, O=Optional



Guideline: Kuehne + Nagel XML Freight Invoice

Elements	St	Occurrence	Annotations	Element
Value	M	1..1	Type: Numeric8_3 FractionDigits: 3 TotalDigits: 8 Format: Numeric8_3 Description: The decimals have always to be send (e.g. 23.330). Additionally no trailing zeros are allowed (e.g. NOT 23.33000 - only 23.330).	TotalDigits: 8
MeasureUnit	M	1..1	Type: restriction (MeasureUnit) Format: MeasureUnit	Element
ShippingDetails	M	1..1	Type:	Element
xsd:choice	M	1..1	Type:	ContentModel
Airfreight	M	1..1	Type: ShippingDetailsAir	Element
xsd:sequence	M	1..1	Type:	ContentModel
CountryOfOrigin	M	1..1	Type: CountryCodeType Pattern: [A-Z]{2} Format: CountryCodeType Description: UN Country Code (ISO 3166-1) Pattern expresses: only 2 capital letters characters are allowed	Element
AirportOfDeparture	M	1..1	Type: LocationCodeType ([A-Z]{3} [A-Z]{5}) Format: LocationCodeType Description: UN Location Code (ISO 3166-1 / ISO 3166-2) In case of Airfreight use of IATA codes (three characters) are possible.	Element
ETSDate	M	1..1	Type: DateType Format: xsd:date Remark: Date format: YYYY-MM-DD Estimated date of shipping from airport of departure	Element
ETADate	M	1..1	Type: DateType Format: xsd:date Remark: Date format: YYYY-MM-DD Estimated date of arrival at airport of arrival	Element
AirportOfArrival	M	1..1	Type: LocationCodeType ([A-Z]{3} [A-Z]{5}) Format: LocationCodeType Description: UN Location Code (ISO 3166-1 / ISO 3166-2) In case of Airfreight use of IATA codes (three characters) are possible.	Element

St = Status: M=Mandatory, O=Optional



Guideline: Kuehne + Nagel XML Freight Invoice

Elements	St	Occurrence	Annotations	
		CountryOfDestination	M 1..1	Type: CountryCodeType Pattern: [A-Z]{2} Format: CountryCodeType Description: UN Country Code (ISO 3166-1) Pattern expresses: only 2 capital letters characters are allowed
		FlightNo	M 1..1	Type: String1..10 Length: 1 .. 10
		AWBNo	M 1..1	Type: AWBNoType Length: 1 .. 12 Format: Remark: String1..12 Airwaybill number
		HAWBNo	M 1..1	Type: String1..11 Length: 1 .. 11 Format: Remark: String1..11 House Airwaybill Number
		CarrierCode	M 1..1	Type: String1..3 Length: 1 .. 3 Format: Remark: String1..3 Airfreight Carrier Codes
		TermsOfDelivery	M 1..1	Type: IncotermCodeType Pattern: [A-Z]{3} Format: Description: Pattern expresses: only 3 capital letters characters are allowed Remark: Terms of delivery (INCOTERMS) Please see appendix for available qualifiers.
		InsuranceCode	M 1..1	Type: InsuranceCodeType FractionDigits: 0 TotalDigits: 1 Format: Remark: TotalDigits: 1 The code identifies the party who arranges the transport insurance.
		Seafreight	M 1..1	Type: ShippingDetailsSea
		xsd:sequence	M 1..1	Type:
		PlaceOfReceipt	O 0..1	Type: String1..35 Length: 1 .. 35 Format: Remark: Place where cargo has been collected.

St = Status: M=Mandatory, O=Optional



Guideline: Kuehne + Nagel XML Freight Invoice

Elements	St	Occurrence	Annotations	Element
PrecarriageBy	O	0..1	Type: String1..17 Length: 1 .. 17 Format: Remark: Means of transport for the pre-carriage. e.g. Truck, Train etc.	
CountryOfOrigin	M	1..1	Type: CountryCodeType Pattern: [A-Z]{2} Format: CountryCodeType Description: UN Country Code (ISO 3166-1) Pattern expresses: only 2 capital letters characters are allowed	Element
PortOfLoading	M	1..1	Type: LocationCodeType Pattern: ([A-Z]{3} [A-Z]{5}) Format: LocationCodeType Description: UN Location Code (ISO 3166-1 / ISO 3166-2) In case of Airfreight use of IATA codes (three characters) are possible.	Element
ETSDate	M	1..1	Type: DateType Format: xsd:date Remark: Date format: YYYY-MM-DD Estimated date of shipping from port of loading	Element
ETADate	M	1..1	Type: DateType Format: xsd:date Remark: Date format: YYYY-MM-DD Estimated date of arrival at port of discharge	Element
PortOfDischarge	M	1..1	Type: LocationCodeType Pattern: ([A-Z]{3} [A-Z]{5}) Format: LocationCodeType Description: UN Location Code (ISO 3166-1 / ISO 3166-2) In case of Airfreight use of IATA codes (three characters) are possible.	Element
CountryOfDestination	M	1..1	Type: CountryCodeType Pattern: [A-Z]{2} Format: CountryCodeType Description: UN Country Code (ISO 3166-1) Pattern expresses: only 2 capital letters characters are allowed	Element
PlaceOfDelivery	O	0..1	Type: String1..35 Length: 1 .. 35 Format: String1..35	Element

St = Status: M=Mandatory, O=Optional



Guideline: Kuehne + Nagel XML Freight Invoice

Elements	St	Occurrence	Annotations	
OceanVessel	M	1..1	Type: String1..35 Length: 1 .. 35 Format: String1..35 Remark: Name of the Vessel (Free text)	Element
VoyageNo	M	1..1	Type: String0..30 Length: 0 .. 30 Format: String0..30 Remark: Voyage number of the main Vessel	Element
SCAC	M	1..1	Type: SCACCodeType Pattern: [A-Z]{4} Format: SCACCodeType Description: Pattern expresses: only 4 capital letters characters are allowed Remark: SCAC code identifies the Shipping Line	Element
TermsOfDelivery	M	1..1	Type: IncotermCodeType Pattern: [A-Z]{3} Format: IncotermCodeType Description: Pattern expresses: only 3 capital letters characters are allowed Remark: Terms of delivery (INCOTERMS) Please see appendix for available qualifiers.	Element
TermsOfDeliveryLocation	M	1..1	Type: String1..35 Length: 1 .. 35 Format: String1..35	Element
InsuranceCode	M	1..1	Type: InsuranceCodeType FractionDigits: 0 TotalDigits: 1 Format: InsuranceCodeType Remark: TotalDigits: 1 The code identifies the party who arranges the transport insurance.	Element
FCLContainerDetails	O	0..99	Type: ContainerDetails Remark: Only mandatory for Full Container Load (FCL). Optional for Less Container Load (LCL) Must not use for Airfreight!	Element
xsd:sequence	M	1..1	Type: String4	ContentModel
ContainerType	M	1..1	Type: String4 Format: String4 Remark: Code identifies Seafreight container type. Please see appendix for available qualifiers.	Element
			Mapping: Container Type	

St = Status: M=Mandatory, O=Optional



Guideline: Kuehne + Nagel XML Freight Invoice

Elements	St	Occurrence	Annotations	
└ ContainerNumber	M	1..1	Type: String1..13 Length: 1 .. 13 Format: String1..13 Remark: Container identification No.	Element
└ ContainerSealNumber	O	0..2	Type: String0..11 Length: 0 .. 11 Format: String0..11 Description: Equipment Seal number	Element
└ ContainerMovementCode	O	0..1	Type: String0..1 Length: 0 .. 1 Format: String0..1 Remark: Please see appendix for available qualifiers.	Element
└ ContainerGrossWeight	M	1..1	Type: Weight8_2	Element
└ xsd:sequence	M	1..1	Type:	ContentModel
└ Value	M	1..1	Type: Numeric8_2 FractionDigits: 2 TotalDigits: 8 Format: Numeric8_2 Description: The decimals have always to be send (e.g. 23.00). Additionally no trailing zeros are allowed (e.g. NOT 23.333000 - only 23.33).	Element TotalDigits: 8
└ MeasureUnit	M	1..1	Type: restriction (MeasureUnit) Format: MeasureUnit	Element
└ ContainerGrossVolume	M	1..1	Type: Volume	Element
└ xsd:sequence	M	1..1	Type:	ContentModel
└ Value	M	1..1	Type: Numeric8_3 FractionDigits: 3 TotalDigits: 8 Format: Numeric8_3 Description: The decimals have always to be send (e.g. 23.330). Additionally no trailing zeros are allowed (e.g. NOT 23.33000 - only 23.330).	Element TotalDigits: 8
└ MeasureUnit	M	1..1	Type: restriction (MeasureUnit) Format: MeasureUnit	Element
└ Content	M	1..1	Type: ContentTyp	Element
└ xsd:sequence	M	1..1	Type:	ContentModel
└ MarksAndNumbers	O	0..999	Type: String0..17 Length: 0 .. 17 Format: String0..17	Element

St = Status: M=Mandatory, O=Optional



Guideline: Kuehne + Nagel XML Freight Invoice

Elements	St	Occurrence	Annotations	
CargoDescription	M	1..999	Type: String1..26 Length: 1 .. 26 Format: String1..26	Element
CargoDetails	O	0..500	Type: CargoDetails Remark: Only mandatory for Full Container Load (FCL). Optional for Less Container Load (LCL) Must not use for Airfreight!	Element
xsd:sequence	M	1..1	Type:	ContentModel
NoOfPackages	M	1..1	Type: Numeric6_0 FractionDigits: 0 TotalDigits: 6 Format: Numeric6_0	Element
KindOfPacking	M	1..1	Type: String1..3 Length: 1 .. 3 Format: String1..3	Element
GrossWeight	M	1..1	Type: Weight8_2	Element
xsd:sequence	M	1..1	Type:	ContentModel
Value	M	1..1	Type: Numeric8_2 FractionDigits: 2 TotalDigits: 8 Format: Numeric8_2 Description: The decimals have always to be send (e.g. 23.00). Additionally no trailing zeros are allowed (e.g. NOT 23.333000 - only 23.33).	Element
MeasureUnit	M	1..1	Type: restriction (MeasureUnit) Format: MeasureUnit	Element
ChargeableWeight	O	0..1	Type: Weight8_2	Element
xsd:sequence	M	1..1	Type:	ContentModel
Value	M	1..1	Type: Numeric8_2 FractionDigits: 2 TotalDigits: 8 Format: Numeric8_2 Description: The decimals have always to be send (e.g. 23.00). Additionally no trailing zeros are allowed (e.g. NOT 23.333000 - only 23.33).	Element
MeasureUnit	M	1..1	Type: restriction (MeasureUnit) Format: MeasureUnit	Element
GrossVolume	M	1..1	Type: Volume	Element
xsd:sequence	M	1..1	Type:	ContentModel

St = Status: M=Mandatory, O=Optional



Guideline: Kuehne + Nagel XML Freight Invoice

Elements	St	Occurrence	Annotations	
Value	M	1..1	Type: Numeric8_3 FractionDigits: 3 TotalDigits: 8 Format: Numeric8_3 Description: The decimals have always to be send (e.g. 23.330). Additionally no trailing zeros are allowed (e.g. NOT 23.33000 - only 23.330).	Element TotalDigits: 8
MeasureUnit	M	1..1	Type: restriction (MeasureUnit) Format: MeasureUnit	Element
Content	M	1..1	Type: ContentTyp	Element
xsd:sequence	M	1..1	Type:	ContentModel
MarksAndNumbers	O	0..999	Type: String0..17 Length: 0 .. 17 Format: String0..17	Element
CargoDescription	M	1..999	Type: String1..26 Length: 1 .. 26 Format: String1..26	Element
HarmonizedOrCommodityCode	O	0..1	Type: String0..12 Length: 0 .. 12 Format: String0..12	Element
ShipmentRemarks	O	0..unbounded	Type: String0..70 Length: 0 .. 70 Format: String0..70	Element
InvoiceTotals	M	1..1	Type:	Element
xsd:sequence	M	1..1	Type:	ContentModel
InvoiceTotalIncludingVAT	M	1..1	Type: MonetaryAmountVAT Remark: Total Invoice amount including VAT	Element
xsd:sequence	M	1..1	Mapping: Total Invoice amount including VAT	ContentModel
Value	M	1..1	Type: Numeric13_2 FractionDigits: 2 TotalDigits: 13 Format: Numeric13_2 Description: The decimals have always to be send (e.g. 23.00). Additionally no trailing zeros are allowed (e.g. NOT 23.333000 - only 23.33). The number of decimals depends on currency.	Element TotalDigits: 13

St = Status: M=Mandatory, O=Optional



Guideline: Kuehne + Nagel XML Freight Invoice

Elements	St	Occurrence	Annotations	
— Currency	M	1..1	Type: CurrencyCodeType Pattern: [A-Z]{3} Format: CurrencyCodeType Description: Use ISO 4217 three alpha currency codes. Pattern expresses: only 3 capital letters characters are allowed	Element
— VATPercentage	O	0..1	Type: PercentageType FractionDigits: 2 TotalDigits: 4 Format: Numeric4_2 Description: The decimals have always to be send (e.g. 23.00). Additionally no trailing zeros are allowed (e.g. NOT 23.333000 - only 23.33). Remark: VAT Rate with two decimals in percentage	Element TotalDigits: 4
— InvoiceNetLiableVAT	M	1..3	Type: MonetaryAmountVAT Remark: Total net amount – liable to VAT In case of charges which are taxed differently, this element can loop max. 3 times Mapping: Total net amount – liable to VAT if G3 G571 VAT Rate > „0000“	Element
xsd:sequence	M	1..1	Type:	ContentModel
— Value	M	1..1	Type: Numeric13_2 FractionDigits: 2 TotalDigits: 13 Format: Numeric13_2 Description: The decimals have always to be send (e.g. 23.00). Additionally no trailing zeros are allowed (e.g. NOT 23.333000 - only 23.33). The number of decimals depends on currency.	Element TotalDigits: 13
— Currency	M	1..1	Type: CurrencyCodeType Pattern: [A-Z]{3} Format: CurrencyCodeType Description: Use ISO 4217 three alpha currency codes.	Element
— VATPercentage	O	0..1	Type: PercentageType FractionDigits: 2 TotalDigits: 4 Format: Numeric4_2 Description: The decimals have always to be send (e.g. 23.00). Additionally no trailing zeros are allowed (e.g. NOT 23.333000 - only 23.33). Remark: VAT Rate with two decimals in percentage	Element TotalDigits: 4

St = Status: M=Mandatory, O=Optional



Guideline: Kuehne + Nagel XML Freight Invoice

Elements	St	Occurrence	Annotations	
InvoiceNetNotLiableVAT	O	0..1	Type: Remark: Mapping: MonetaryAmount Total net amount – not liable to VAT Total net amount – not liable to VAT if G3 G571 VAT Rate = „0000“	Element
xsd:sequence	M	1..1	Type:	ContentModel
Value	M	1..1	Type: FractionDigits: 2 TotalDigits: 13 Format: Numeric13_2 Description: The decimals have always to be send (e.g. 23.00). Additionally no trailing zeros are allowed (e.g. NOT 23.333000 - only 23.33). The number of decimals depends on currency.	Element
Currency	M	1..1	Type: Pattern: Format: CurrencyCodeType [A-Z]{3} CurrencyCodeType Description: Use ISO 4217 three alpha currency codes. Pattern expresses: only 3 capital letters characters are allowed	Element
InvoiceTotalVAT	O	0..3	Type: Remark: Mapping: MonetaryAmount12VAT Total VAT amount In case of charges which are taxed differently, this element can loop max. 3 times Total VAT amount If G3 G571 VAT Rate > „0000“	Element
xsd:sequence	M	1..1	Type:	ContentModel
Value	M	1..1	Type: FractionDigits: 2 TotalDigits: 12 Format: Numeric12_2 Description: The decimals have always to be send (e.g. 23.00). Additionally no trailing zeros are allowed (e.g. NOT 23.333000 - only 23.33). The number of decimals depends on currency.	Element
Currency	M	1..1	Type: Pattern: Format: CurrencyCodeType [A-Z]{3} CurrencyCodeType Description: Use ISO 4217 three alpha currency codes. Pattern expresses: only 3 capital letters characters are allowed	Element

St = Status: M=Mandatory, O=Optional



Guideline: Kuehne + Nagel XML Freight Invoice

Elements	St	Occurrence	Annotations	
VATPercentage	O	0..1	Type: PercentageType FractionDigits: 2 TotalDigits: 4 Format: Numeric4_2 Description: The decimals have always to be send (e.g. 23.00). Additionally no trailing zeros are allowed (e.g. NOT 23.333000 - only 23.33). Remark: VAT Rate with two decimals in percentage	Element TotalDigits: 4
InvoiceTotalNet	O	0..1	Type: MonetaryAmount Remark: Total net amount of the Invoice Mapping: Total net amount of the Invoice, not available in KNIE	Element
xsd:sequence	M	1..1	Type:	ContentModel
Value	M	1..1	Type: Numeric13_2 FractionDigits: 2 TotalDigits: 13 Format: Numeric13_2 Description: The decimals have always to be send (e.g. 23.00). Additionally no trailing zeros are allowed (e.g. NOT 23.333000 - only 23.33). The number of decimals depends on currency.	Element TotalDigits: 13
Currency	M	1..1	Type: CurrencyCodeType Pattern: [A-Z]{3} Format: CurrencyCodeType Description: Use ISO 4217 three alpha currency codes. Pattern expresses: only 3 capital letters characters are allowed	Element

St = Status: M=Mandatory, O=Optional

Version: FreightInvoiceExt; Guide 01.30;
Author: Kuehne + Nagel - Corporate IT Center - Ham MI-EK MRRelease date: 20.05.2009
Page: 31