



Message Implementation Guideline

RIF_INVOIC

Model: RIF_INVOIC_v1_1
Version: v1.1
Issue date: 07.07.2026
Author: retarus

Structure

Occurrence

Element/Attribute

	RIF_INVOIC
required	<i>version</i>
required	<i>timestamp</i>
1 .. 1	<i>xs:sequence</i>
1 .. 1	DOCUMENT
required	<i>type</i>
required	<i>code</i>
required	<i>timestamp</i>
1 .. 1	<i>xs:sequence</i>
1 .. 1	HEADER
1 .. 1	<i>xs:sequence</i>
1 .. 1	DOCUMENT_ID
1 .. 1	INVOICE_NUMBER
1 .. 1	INVOICE_DATE
1 .. 1	CURRENCY
0 .. 1	VAT_CURRENCY
0 .. 1	TAX_POINT_DATE
0 .. 1	TAX_POINT_CODE
1 .. 1	COMMUNICATION
1 .. 1	<i>xs:sequence</i>
1 .. 1	BUSINESS_PROCESS
1 .. 1	SPECIFICATION
0 .. 1	CHANNELS
1 .. 1	<i>xs:sequence</i>
1 .. unbounded	CHANNEL
required	<i>type</i>
1 .. 1	<i>xs:sequence</i>
0 .. 1	EMAIL
0 .. 1	CC
0 .. 1	ENDPOINT_ID
optional	<i>scheme</i>
0 .. 1	PARTICIPANT_ID
optional	<i>scheme</i>
0 .. 1	CONVERSION_SETUP
1 .. 1	HEADER_REFERENCE
1 .. 1	<i>xs:sequence</i>
0 .. 1	BUYER_REFERENCE
optional	<i>scheme</i>
0 .. 1	PROJECT_REFERENCE
required	<i>scheme</i>
0 .. 1	CONTRACT_REFERENCE
required	<i>scheme</i>
0 .. 1	ORDER_NUMBER
optional	<i>scheme</i>
optional	<i>line</i>
0 .. 1	ORDER_SUPPLIER
required	<i>scheme</i>
0 .. 1	RECEIVING_ADVICE_REFERENCE

Bold = Simple Element, Bold on grey background = Complex Element, Italic = Attribute, Grey = Group

Occurrence	Element/Attribute
required	<i>scheme</i>
0 .. 1	DELIVERY_NOTE_NUMBER
optional	<i>scheme</i>
optional	<i>line</i>
0 .. 1	DELIVERY_DATE
optional	<i>type</i>
optional	<i>time</i>
0 .. 1	DELIVERY_PERIOD
1 .. 1	<i>xs:sequence</i>
1 .. 1	START_DATE
1 .. 1	END_DATE
0 .. 1	TENDER_REFERENCE
required	<i>scheme</i>
0 .. 1	OBJECT_IDENTIFIER
optional	<i>scheme</i>
0 .. 1	BUYER_ACCOUNTING_REFERENCE
0 .. 1	ORIGINAL_INVOICE
required	<i>scheme</i>
0 .. 1	ORIGINAL_INVOICE_DATE
0 .. 1	INVOICE_PERIOD
1 .. 1	<i>xs:sequence</i>
1 .. 1	START_DATE
1 .. 1	END_DATE
0 .. 1	DESCRIPTION
0 .. unbounded	HEADER_TEXT
required	<i>type</i>
optional	<i>key</i>
0 .. 1	HEADER_ALC
1 .. 1	<i>xs:sequence</i>
1 .. unbounded	ALC
required	<i>type</i>
required	<i>reason</i>
optional	<i>reasonCode</i>
1 .. 1	<i>xs:sequence</i>
1 .. 1	AMOUNT
0 .. 1	BASE_AMOUNT
0 .. 1	PERCENTAGE
0 .. 1	TEXT
0 .. 1	TAX
required	<i>rate</i>
required	<i>category</i>
1 .. 1	HEADER_PAYMENT
1 .. 1	<i>xs:sequence</i>
1 .. 1	PAYMENT_TERMS
1 .. 1	<i>xs:sequence</i>
0 .. 1	DUE_DATE
optional	<i>days</i>
0 .. 1	TERM_TEXT
0 .. 1	DISCOUNT
1 .. 1	<i>xs:sequence</i>

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Occurrence	Element/Attribute
0 .. 1	PERCENTAGE
0 .. 1	AMOUNT
0 .. 1	BASE_AMOUNT
0 .. 1	DUE_DATE
optional	days
0 .. 1	TERM_TEXT
0 .. 1	PAYMENT_INSTRUCTIONS
1 .. 1	xs:sequence
1 .. 1	PAYMENT_MEANS_CODE
0 .. 1	METHOD
0 .. 1	REMITTANCE_INFORMATION
0 .. 1	PAYMENT_ID
0 .. unbounded	PAYEE_ACCOUNT
required	type
1 .. 1	xs:sequence
0 .. 1	BANK_NAME
0 .. 1	IBAN
0 .. 1	ACCOUNT_NUMBER_ID
0 .. 1	BIC
0 .. 1	ACCOUNT_HOLDER
0 .. 1	CARD_ACCOUNT
1 .. 1	xs:sequence
1 .. 1	ACCOUNT_NUMBER_ID
0 .. 1	HOLDER_NAME
0 .. 1	MANDATE_REFERENCE
0 .. 1	CREDITOR_ID
0 .. 1	DEBTOR_ACCOUNT
0 .. 1	DEBTOR_IBAN
1 .. 1	PARTIES
1 .. 1	xs:sequence
1 .. unbounded	PARTY
required	is
1 .. 1	xs:sequence
1 .. 1	NAME
0 .. 1	TRADING_NAME
0 .. unbounded	ID
required	type
0 .. 1	LEGAL_ID
optional	scheme
0 .. 1	LEGAL_INFO
0 .. 1	ENDPOINT_ID
optional	scheme
0 .. 1	ADDRESS
1 .. 1	xs:sequence
1 .. 1	STREET
0 .. 1	STREET2
0 .. 1	STREET3
1 .. 1	CITY
0 .. 1	POSTAL_CODE
0 .. 1	STATE

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Occurrence	Element/Attribute
1 .. 1	COUNTRY
0 .. 1	CONTACT
1 .. 1	xs:sequence
1 .. 1	NAME
0 .. 1	PHONE
0 .. 1	EMAIL
0 .. 1	ATTACHMENTS
1 .. 1	xs:sequence
1 .. unbounded	ATTACHMENT_REFERENCE
1 .. 1	xs:sequence
1 .. 1	ATTACHMENT_ID
0 .. 1	ATTACHMENT_TYPE_CODE
0 .. 1	ATTACHMENT_TYPE
0 .. 1	EXTERNAL_LOCATION
0 .. 1	ATTACHMENT
optional	filename
optional	mimetype
1 .. 1	POSITION
1 .. 1	xs:sequence
1 .. unbounded	ITEM
1 .. 1	xs:sequence
1 .. 1	LINE_ID
0 .. 1	LINE_NOTE
0 .. 1	OBJECT_IDENTIFIER
optional	scheme
0 .. 1	ACCOUNTING_REFERENCE
1 .. 1	DESCRIPTION
0 .. 1	DESCRIPTION_EXTENDED
0 .. unbounded	MATERIAL_NUMBER
optional	party
0 .. 1	CLASSIFICATION
optional	scheme
0 .. 1	COUNTRY_OF_ORIGIN
0 .. 1	ATTRIBUTES
1 .. 1	xs:sequence
1 .. unbounded	ATTRIBUTE
required	name
required	value
1 .. 1	QUANTITY
required	unit
0 .. 1	DELIVERED_QUANTITY
required	unit
1 .. 1	PRICE
0 .. 1	PRICE_BASIS
required	unit
0 .. 1	PRICE_DISCOUNT
0 .. 1	LINE_GROSS
0 .. 1	POS_ALC
1 .. 1	xs:sequence
1 .. unbounded	ALC

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Occurrence	Element/Attribute
required	<i>type</i>
required	<i>reason</i>
optional	<i>reasonCode</i>
1 .. 1	<i>xs:sequence</i>
1 .. 1	AMOUNT
0 .. 1	BASE_AMOUNT
0 .. 1	PERCENTAGE
0 .. 1	TEXT
0 .. 1	TAX
required	<i>rate</i>
required	<i>category</i>
1 .. 1	LINE_AMOUNT
1 .. 1	TAX
required	<i>rate</i>
required	<i>category</i>
0 .. 1	LINE_PERIOD
1 .. 1	<i>xs:sequence</i>
1 .. 1	START_DATE
1 .. 1	END_DATE
0 .. 1	POS_REFERENCE
1 .. 1	<i>xs:sequence</i>
0 .. 1	ORDER_NUMBER
optional	<i>scheme</i>
optional	<i>line</i>
0 .. 1	ORDER_DATE
0 .. 1	DELIVERY_NOTE_NUMBER
optional	<i>scheme</i>
optional	<i>line</i>
0 .. 1	DELIVERY_DATE
optional	<i>type</i>
optional	<i>time</i>
0 .. unbounded	POS_TEXT
required	<i>type</i>
optional	<i>key</i>
1 .. 1	SUMMARY
1 .. 1	<i>xs:sequence</i>
1 .. 1	TOTAL_NET
0 .. 1	TOTAL_ALLOWANCE
0 .. 1	TOTAL_CHARGE
1 .. 1	TOTAL_NET_AFTER_ALC
1 .. 1	TAX_SUMMARY
1 .. 1	<i>xs:sequence</i>
1 .. unbounded	TAX_BREAKDOWN
required	<i>category</i>
required	<i>rate</i>
optional	<i>reasonCode</i>
1 .. 1	<i>xs:sequence</i>
0 .. 1	REASON_TEXT
1 .. 1	TAXABLE_AMOUNT
1 .. 1	TAX_AMOUNT
1 .. 1	TOTAL_TAX

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Occurrence	Element/Attribute
0 .. 1	TOTAL_TAX_ACCOUNTING_CURRENCY
1 .. 1	TOTAL_GROSS
0 .. 1	PREPAID_AMOUNT
0 .. 1	ROUNDING_AMOUNT
1 .. 1	AMOUNT_DUE

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Guideline

Element/Attribute	Annotation	
RIF_INVOIC		
<i>version</i>	Type	xs:string
	Use	required
<i>timestamp</i>	Type	TimestampType
	Use	required
	Pattern	\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}
	Description	Timestamp in ISO 8601 format WITHOUT timezone. Pattern: YYYY-MM-DDTHH:MM:SS Base Type: xs:dateTime with pattern restriction Valid Examples: • 2025-11-26T15:00:00 • 2025-01-01T00:00:00 • 2026-12-31T23:59:59 Invalid Examples: X 2025-11-26T15:00:00Z (timezone suffix not allowed) X 2025-11-26 15:00:00 (space instead of T separator) X 2025-9-5T15:0:0 (leading zeros required) X 26.11.2025T15:00:00 (wrong date format) Usage: RIF_INVOIC/@timestamp, DOCUMENT/@timestamp
xs:sequence	Occurrence	1 .. 1
DOCUMENT	Occurrence	1 .. 1
	Type	DocumentType
	Description	Main document container for RIF_INVOIC format. Structure: HEADER (mandatory) - Invoice metadata, parties, payment terms ATTACHMENTS (optional) - Supporting documents (PDF, images, etc.) POSITION (mandatory) - Line items with products/services SUMMARY (mandatory) - Document totals and tax breakdown Attributes: @type - Document type (invoice or creditnote) @code - UN/CEFACT document type code (380=Invoice, 381=Credit Note) @timestamp - Document creation timestamp (ISO 8601) EN16931 Reference: Root level structure for electronic invoice Example: <DOCUMENT type="invoice" code="380"

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Element/Attribute		Annotation	
			timestamp="2025-11-26T15:00:00"> <HEADER>...</HEADER> <POSITION>...</POSITION> <SUMMARY>...</SUMMARY> </DOCUMENT>
<i>type</i>		Type Use	DocumentTypeEnum required
<i>code</i>		Type Use	DocumentCodeEnum required
<i>timestamp</i>		Type Use Pattern Description	TimestampType required \d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2} Timestamp in ISO 8601 format WITHOUT timezone. Pattern: YYYY-MM-DDTHH:MM:SS Base Type: xs:dateTime with pattern restriction Valid Examples: • 2025-11-26T15:00:00 • 2025-01-01T00:00:00 • 2026-12-31T23:59:59 Invalid Examples: X 2025-11-26T15:00:00Z (timezone suffix not allowed) X 2025-11-26 15:00:00 (space instead of T separator) X 2025-9-5T15:0:0 (leading zeros required) X 26.11.2025T15:00:00 (wrong date format) Usage: RIF_INVOIC/@timestamp, DOCUMENT/@timestamp
xs:sequence		Occurrence	1 .. 1
HEADER		Occurrence Type Description	1 .. 1 HeaderType Invoice header containing all document-level information. Contains: • Basic invoice information (number, date, currency) • Communication and routing information • References (order, contract, project, etc.) • Document-level allowances and charges • Payment terms and instructions • Party information (seller, buyer, payee, etc.) EN16931: Contains multiple Business Groups (BG-1 through BG-21)
xs:sequence		Occurrence	1 .. 1
DOCUMENT_ID		Occurrence Type Length Description	1 .. 1 NonEmptyStringType 1 .. Internal document identifier (system-generated or custom).

Bold = Element, Italic = Attribute, Grey = Group

Element/Attribute	Annotation
	Not mapped to EN16931 - for internal processing only.
INVOICE_NUMBER	Occurrence 1 .. 1 Type NonEmptyStringType Length 1 .. Description BT-1: Invoice number (MANDATORY) Unique identifier for this invoice assigned by the seller. Must be unique within the seller's system. Example: INV-2026-001, RE-2026-12345
INVOICE_DATE	Occurrence 1 .. 1 Type DateType Pattern \d{4}-\d{2}-\d{2} Description BT-2: Invoice issue date (MANDATORY) Date when the invoice was issued. Format: YYYY-MM-DD (ISO 8601) Example: 2026-01-28
CURRENCY	Occurrence 1 .. 1 Type CurrencyCodeType Description BT-5: Invoice currency code (MANDATORY) Currency in which all monetary amounts are expressed. ISO 4217 alpha-3 code. Common: EUR, USD, GBP, CHF Example: <CURRENCY>EUR</CURRENCY>
VAT_CURRENCY	Occurrence 0 .. 1 Type CurrencyCodeType Description BT-6: VAT accounting currency code (CONDITIONAL) Currency used for VAT accounting when different from invoice currency. Required only if VAT accounting currency differs from invoice currency. ISO 4217 alpha-3 code. Example: <VAT_CURRENCY>EUR</VAT_CURRENCY>
TAX_POINT_DATE	Occurrence 0 .. 1 Type DateType Pattern \d{4}-\d{2}-\d{2} Description BT-7: Value added tax point date (CONDITIONAL) Date when VAT becomes accountable for the seller. Required when different from invoice date. Format: YYYY-MM-DD (ISO 8601) Example: 2026-01-15
TAX_POINT_CODE	Occurrence 0 .. 1 Type TaxPointCodeType Description BT-8: Value added tax point date code (OPTIONAL) Code specifying when VAT becomes accountable. UNTDID 2005 code list.

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Element/Attribute	Annotation		
		Common codes: 3 - Invoice date 35 - Delivery date 432 - Paid date	
COMMUNICATION	Occurrence	1 .. 1	
	Type	CommunicationType	
<i>xs:sequence</i>	Occurrence	1 .. 1	
BUSINESS_PROCESS	Occurrence	1 .. 1	
	Type	xs:string	
SPECIFICATION	Occurrence	1 .. 1	
	Type	xs:string	
CHANNELS	Occurrence	0 .. 1	
	Type	ChannelsType	
<i>xs:sequence</i>	Occurrence	1 .. 1	
CHANNEL	Occurrence	1 .. unbounded	
	Type	ChannelType	
<i>type</i>	Type	xs:string	
	Use	required	
<i>xs:sequence</i>	Occurrence	1 .. 1	
EMAIL	Occurrence	0 .. 1	
	Type	xs:string	
	Description	Technical communication email address for the selected channel. Context: COMMUNICATION/CHANNELS/CHANNEL. RIF routing metadata; not the EN16931 seller/ buyer contact email	
CC	Occurrence	0 .. 1	
	Type	xs:string	
	Description	Optional copy recipient for the communication channel. Context: COMMUNICATION/CHANNELS/CHANNEL. RIF routing metadata; not mapped to EN16931	
ENDPOINT_ID	Occurrence	0 .. 1	
	Type	IdentifierType	
	Description	Technical endpoint identifier for the selected channel. Context: COMMUNICATION/CHANNELS/CHANNEL. RIF routing metadata; party electronic addresses are documented under	
<i>scheme</i>	Type	xs:string	
	Use	optional	
PARTICIPANT_ID	Occurrence	0 .. 1	
	Type	IdentifierType	
	Description	Network participant identifier for the selected channel. Context: COMMUNICATION/CHANNELS/CHANNEL. RIF routing metadata; not mapped to EN16931	
<i>scheme</i>	Type	xs:string	
	Use	optional	
CONVERSION_SETUP	Occurrence	0 .. 1	
	Type	xs:string	

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Element/Attribute		Annotation	
HEADER_REFERENCE		Occurrence	1 .. 1
		Type	HeaderReferenceType
		Description	Document references and delivery information. Contains references to related business documents and delivery details. EN16931: Contains multiple Business Terms (BT-10 through BT-74)
xs:sequence		Occurrence	1 .. 1
BUYER_REFERENCE		Occurrence	0 .. 1
		Type	IdentifierType
		Description	BT-10: Buyer reference (MANDATORY in XRechnung) Identifier assigned by the buyer to identify the business context. In Germany: Leitweg-ID for public sector invoicing. Example: <BUYER_REFERENCE scheme="leitweg-id">991-12345-67</BUYER_REFERENCE>
scheme		Type	xs:string
		Use	optional
PROJECT_REFERENCE		Occurrence	0 .. 1
		Type	ProjectReferenceType
		Description	BT-11: Project reference (OPTIONAL) Reference to the project this invoice relates to. Scheme: buyer-assigned Example: <PROJECT_REFERENCE scheme="buyer-assigned">PROJ-2026-ABC</PROJECT_REFERENCE>
scheme		Type	ProjectReferenceSchemeType
		Use	required
CONTRACT_REFERENCE		Occurrence	0 .. 1
		Type	ContractReferenceType
		Description	BT-12: Contract reference (OPTIONAL) Reference to the contract this invoice relates to. Scheme: buyer-assigned Example: <CONTRACT_REFERENCE scheme="buyer-assigned">CN-2026-001</CONTRACT_REFERENCE>
scheme		Type	ContractReferenceSchemeType
		Use	required
ORDER_NUMBER		Occurrence	0 .. 1
		Type	OrderNumberType
		Description	BT-13: Purchase order reference (OPTIONAL) Reference to the buyer's purchase order. Scheme: buyer-assigned Example: <ORDER_NUMBER scheme="buyer-assigned">PO-2026-5678</ORDER_NUMBER>
scheme		Type	OrderNumberSchemeType
		Use	optional

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Element/Attribute		Annotation	
<i>line</i>		Type	xs:string
		Use	optional
ORDER_SUPPLIER		Occurrence	0 .. 1
		Type	OrderSupplierType
		Description	BT-14: Sales order reference (OPTIONAL) Reference to the seller's sales order. Scheme: seller-assigned Example: <ORDER_SUPPLIER scheme="seller-assigned">SO-2026-9876</ORDER_SUPPLIER>
<i>scheme</i>		Type	OrderSupplierSchemeType
		Use	required
RECEIVING_ADVICE_REFERENCE		Occurrence	0 .. 1
		Type	ReceivingAdviceReferenceType
		Description	BT-15: Receiving advice reference (OPTIONAL) Reference to the buyer's receiving advice. Scheme: buyer-assigned Example: <RECEIVING_ADVICE_REFERENCE scheme="buyer-assigned">RA-2026-999</RECEIVING_ADVICE_REFERENCE>
<i>scheme</i>		Type	ReceivingAdviceReferenceSchemeType
		Use	required
DELIVERY_NOTE_NUMBER		Occurrence	0 .. 1
		Type	DeliveryNoteNumberType
		Description	BT-16: Despatch advice reference (OPTIONAL) Reference to the seller's delivery note / despatch advice. Scheme: seller-assigned Optional line attribute for line-specific reference. Example: <DELIVERY_NOTE_NUMBER scheme="seller-assigned">DN-2026-123</DELIVERY_NOTE_NUMBER>
<i>scheme</i>		Type	DeliveryNoteNumberSchemeType
		Use	optional
<i>line</i>		Type	xs:string
		Use	optional
DELIVERY_DATE		Occurrence	0 .. 1
		Type	DeliveryDateType
		Description	BT-72: Actual delivery date (OPTIONAL - Part of BG-13) Date when the goods or services were actually delivered. Optional time attribute for precise delivery time. Format: YYYY-MM-DD Example: <DELIVERY_DATE>2026-01-15</DELIVERY_DATE>
<i>type</i>		Type	DeliveryDateTypeEnum
		Use	optional
<i>time</i>		Type	xs:string
		Use	optional
DELIVERY_PERIOD		Occurrence	0 .. 1
		Type	PeriodType

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Element/Attribute	Annotation
	Description BG-14 (partial): Delivery period Period over which delivery occurred. Contains START_DATE and END_DATE. Example: <DELIVERY_PERIOD> <START_DATE>2026-01-10</START_DATE> <END_DATE>2026-01-15</END_DATE> </DELIVERY_PERIOD>
xs:sequence	Occurrence 1 .. 1
START_DATE	Occurrence 1 .. 1 Type DateType Pattern \d{4}-\d{2}-\d{2} Description Period start date. Context mapping: ITEM/LINE_PERIOD -> BT-134 Invoice line period start date. HEADER_REFERENCE/DELIVERY_PERIOD ->
END_DATE	Occurrence 1 .. 1 Type DateType Pattern \d{4}-\d{2}-\d{2} Description Period end date. Context mapping: ITEM/LINE_PERIOD -> BT-135 Invoice line period end date. HEADER_REFERENCE/DELIVERY_PERIOD ->
TENDER_REFERENCE	Occurrence 0 .. 1 Type TenderReferenceType Description BT-17: Tender or lot reference (OPTIONAL) Reference to the call for tender or lot. Scheme: buyer-assigned Example: <TENDER_REFERENCE scheme="buyer-assigned">TENDER-2026-XYZ</ TENDER_REFERENCE>
scheme	Type TenderReferenceSchemeType
OBJECT_IDENTIFIER	Use required Occurrence 0 .. 1 Type IdentifierType Description BT-18: Invoiced object identifier (OPTIONAL) Identifier for an object on which the invoice is based. Example: <OBJECT_IDENTIFIER scheme="BANK">PAYMENT-REF-12345</ OBJECT_IDENTIFIER>
scheme	Type xs:string
BUYER_ACCOUNTING_REFERENCE	Use optional Occurrence 0 .. 1 Type xs:string Description BT-19: Buyer accounting reference (OPTIONAL) [NEW in 1.1]

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Element/Attribute		Annotation	
			Buyer accounting reference (for example cost center).
			Example: KST-4711
	ORIGINAL_INVOICE	Occurrence	0 .. 1
		Type	OriginalInvoiceType
		Description	BT-25: Preceding invoice number (CONDITIONAL) Reference to the original invoice being corrected. Required for credit notes. Scheme: seller-assigned
			Example: <ORIGINAL_INVOICE scheme="seller-assigned">INV-2026-0001</ORIGINAL_INVOICE>
	<i>scheme</i>	Type	OriginalInvoiceSchemeType
		Use	required
	ORIGINAL_INVOICE_DATE	Occurrence	0 .. 1
		Type	DateType
		Pattern	\d{4}-\d{2}-\d{2}
		Description	BT-26: Preceding invoice issue date (CONDITIONAL) Issue date of the original invoice being corrected. Required for credit notes. Format: YYYY-MM-DD
			Example: <ORIGINAL_INVOICE_DATE>2026-01-01</ORIGINAL_INVOICE_DATE>
	INVOICE_PERIOD	Occurrence	0 .. 1
		Type	InvoicePeriodType
		Description	BG-14: Invoicing period (OPTIONAL) Period to which the invoice relates. Contains START_DATE (BT-73), END_DATE (BT-74), and optional DESCRIPTION.
			Example: <INVOICE_PERIOD> <START_DATE>2026-01-01</START_DATE> <END_DATE>2026-01-31</END_DATE> <DESCRIPTION>January 2026 billing period</DESCRIPTION> </INVOICE_PERIOD>
	<i>xs:sequence</i>	Occurrence	1 .. 1
	START_DATE	Occurrence	1 .. 1
		Type	DateType
		Pattern	\d{4}-\d{2}-\d{2}
		Description	BT-73: Invoicing period start date. Context:
	END_DATE	Occurrence	1 .. 1
		Type	DateType
		Pattern	\d{4}-\d{2}-\d{2}
		Description	BT-74: Invoicing period end date. Context:
	DESCRIPTION	Occurrence	0 .. 1
		Type	NonEmptyStringType
		Length	1 ..
		Description	Description of the invoicing period.

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Element/Attribute	Annotation
	Context: HEADER_REFERENCE/INVOICE_PERIOD. RIF extension; not mapped to a separate EN16931
HEADER_TEXT	Occurrence 0 .. unbounded Type HeaderTextType
<i>type</i>	Type xs:string Use required
<i>key</i>	Type xs:string Use optional
HEADER_ALC	Occurrence 0 .. 1 Type HeaderALCType
xs:sequence	Occurrence 1 .. 1
ALC	Occurrence 1 .. unbounded Type ALCType Description Document-level allowance or charge. ALC/@type="ALLOWANCE" -> BG-20 (BT-92 to BT-98). ALC/@type="CHARGE" -> BG-21 (BT-99 to BT-105). The same element name also appears under POS_ALC for line-level allowances/charges; read the parent context when mapping BTs.
<i>type</i>	Type ALCTypeEnum Use required
<i>reason</i>	Type ALCReasonEnum Use required
<i>reasonCode</i>	Type xs:string Use optional Description BT-98/BT-105 and BT-139/BT-144: Reason Code [NEW in 1.1] Context mapping: HEADER_ALC + ALLOWANCE -> BT-98 HEADER_ALC + CHARGE -> BT-105 POS_ALC + ALLOWANCE -> BT-139 POS_ALC + CHARGE -> BT-144 Code: UNTDID 5189 (Allowances, z.B. 95 = Discount) or UNTDID 7161 (charges, for example FC = Freight). Recommended for lossless mapping to Peppol BIS / ZUGFeRD.
xs:sequence	Occurrence 1 .. 1
AMOUNT	Occurrence 1 .. 1 Type MoneyType FractionDigits 2 Description Allowance/charge amount. BT mapping depends on parent and ALC/@type: HEADER_ALC + ALLOWANCE -> BT-92 HEADER_ALC + CHARGE -> BT-99 POS_ALC + ALLOWANCE -> BT-136 POS_ALC + CHARGE -> BT-141

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Element/Attribute		Annotation	
BASE_AMOUNT	Occurrence	0 .. 1	
	Type	MoneyType	
	FractionDigits	2	
	Description	Base amount for percentage calculation. BT mapping depends on parent and ALC/@type: HEADER_ALC + ALLOWANCE -> BT-93 HEADER_ALC + CHARGE -> BT-100 POS_ALC + ALLOWANCE -> BT-137 POS_ALC + CHARGE -> BT-142	
PERCENTAGE	Occurrence	0 .. 1	
	Type	PercentageType	
	FractionDigits	2	
	Description	Allowance/charge percentage. BT mapping depends on parent and ALC/@type: HEADER_ALC + ALLOWANCE -> BT-94 HEADER_ALC + CHARGE -> BT-101 POS_ALC + ALLOWANCE -> BT-138 POS_ALC + CHARGE -> BT-143	
TEXT	Occurrence	0 .. 1	
	Type	xs:string	
	Description	Allowance/charge reason text. BT mapping depends on parent and ALC/@type: HEADER_ALC + ALLOWANCE -> BT-97 HEADER_ALC + CHARGE -> BT-104 POS_ALC + ALLOWANCE -> BT-140 POS_ALC + CHARGE -> BT-145	
TAX	Occurrence	0 .. 1	
	Type	TaxType	
	FractionDigits	2	
	Description	VAT category/rate for document-level allowances and charges. HEADER_ALC + ALLOWANCE -> BT-95 (category) and BT-96 (rate). HEADER_ALC + CHARGE -> BT-102 (category) and BT-103 (rate). For POS_ALC this is a RIF extension; line VAT is normally mapped via ITEM/TAX.	
	rate	Type	xs:decimal
		Use	required
	category	Type	TaxCategoryCodeType
		Use	required
HEADER_PAYMENT	Occurrence	1 .. 1	
	Type	HeaderPaymentType	
	Description	Payment information for the invoice. EN16931: Contains BG-16 (Payment instructions) and BG-17 (Credit transfer) Contains payment terms (due date, discounts) and payment instructions (bank account details, payment method, etc.). Structure: PAYMENT_TERMS (mandatory) - When and how	

Bold = Element, Italic = Attribute, Grey = Group

Element/Attribute	Annotation
	payment is due PAYMENT_INSTRUCTIONS (optional) - How to pay (bank account, etc.)
xs:sequence	Occurrence 1 .. 1
PAYMENT_TERMS	Occurrence 1 .. 1 Type PaymentTermsType Description Payment terms and conditions. Contains due date, payment terms text, and optional cash discount. At least one element should be provided. Example: <PAYMENT_TERMS> <DUE_DATE>2026-02-28</DUE_DATE> <TERM_TEXT>Payment within 30 days net</TERM_TEXT> <DISCOUNT> <PERCENTAGE>2.0</PERCENTAGE> <DUE_DATE>2026-02-14</DUE_DATE> <TERM_TEXT>2% discount if paid within 14 days</TERM_TEXT> </DISCOUNT> </PAYMENT_TERMS>
xs:sequence	Occurrence 1 .. 1
DUE_DATE	Occurrence 0 .. 1 Type PaymentDueDateType Pattern \d{4}-\d{2}-\d{2} Description BT-9: Payment due date (OPTIONAL) Context: PAYMENT_TERMS. Date when payment is due. Format: YYYY-MM-DD Example: <DUE_DATE>2026-02-28</DUE_DATE>
days	Type xs:nonNegativeInteger FractionDigits 0 Use optional Inclusive 0 ..
TERM_TEXT	Occurrence 0 .. 1 Type xs:string Description BT-20: Payment terms (OPTIONAL) Context: PAYMENT_TERMS. Textual description of payment terms and conditions. Examples: • Payment within 30 days net • Payable within 14 days without deduction • 2% discount within 10 days, net 30
DISCOUNT	Occurrence 0 .. 1 Type DiscountType Description BG-99: Cash discount terms (OPTIONAL - Extension to EN16931) Optional early payment discount.

Bold = Element, Italic = Attribute, Grey = Group

Element/Attribute	Annotation
	Example: 2% discount if paid within 14 days
xs:sequence	Occurrence 1 .. 1
PERCENTAGE	Occurrence 0 .. 1 Type PercentageType FractionDigits 2 Description Context: DISCOUNT / cash discount extension. Not mapped to a separate EN16931 core BT. Discount percentage (0-100). Example: 2.0 for 2% discount
AMOUNT	Occurrence 0 .. 1 Type MoneyType FractionDigits 2 Description Context: DISCOUNT / cash discount extension. Not mapped to a separate EN16931 core BT. Discount amount in invoice currency. Calculated as: $\text{BASE_AMOUNT} \times (\text{PERCENTAGE} / 100)$
BASE_AMOUNT	Occurrence 0 .. 1 Type MoneyType FractionDigits 2 Description Context: DISCOUNT / cash discount extension. Not mapped to a separate EN16931 core BT. Base amount for discount calculation. Usually the total gross amount. Example: 1000.00
DUE_DATE	Occurrence 0 .. 1 Type PaymentDueDateType Pattern \d{4}-\d{2}-\d{2} Description Context: DISCOUNT / cash discount extension. Not mapped to a separate EN16931 core BT. Due date for discount eligibility. Payment must be received by this date to qualify for discount. Example: 2026-02-14
days	Type xs:nonNegativeInteger FractionDigits 0 Use optional Inclusive 0 ..
TERM_TEXT	Occurrence 0 .. 1 Type xs:string Description Context: DISCOUNT / cash discount extension. Not mapped to a separate EN16931 core BT. Textual description of discount terms. Example: 2% cash discount for payment within 14 days
PAYMENT_INSTRUCTIONS	Occurrence 0 .. 1 Type PaymentInstructionsType Description Payment instructions - how to pay. EN16931: BG-16 (Payment instructions), BG-17 (Credit transfer), BG-18 (Card), BG-19 (Direct debit)

Bold = Element, Italic = Attribute, Grey = Group

Element/Attribute	Annotation
	Contains payment method code, bank account details, card information, or direct debit mandate information. Example - Bank transfer: <pre> <PAYMENT_INSTRUCTIONS> <PAYMENT_MEANS_CODE>58</ PAYMENT_MEANS_CODE> <REMITTANCE_INFORMATION>Invoice INV- 2026- 001</REMITTANCE_INFORMATION> <PAYEE_ACCOUNT type="main"> <BANK_NAME>Deutsche Bank AG</ BANK_NAME> <IBAN>DE89370400440532013000</IBAN> <BIC>DEUTDEFF</BIC> <ACCOUNT_HOLDER>Company GmbH</ ACCOUNT_HOLDER> </PAYEE_ACCOUNT> </pre>
xs:sequence	Occurrence 1 .. 1
PAYMENT_MEANS_CODE	Occurrence 1 .. 1 Type PaymentMeansCodeType Description BT-81: Payment means type code (MANDATORY) UN/CEFACT code list 4461. Common codes: • 30 - Credit transfer • 48 - Bank card • 49 - Direct debit • 58 - SEPA credit transfer • 59 - SEPA direct debit Example: <PAYMENT_MEANS_CODE>58</PAYMENT_MEANS_CODE>
METHOD	Occurrence 0 .. 1 Type xs:string Description BT-82: Payment means text (OPTIONAL) Textual description of payment method. Example: SEPA credit transfer
REMITTANCE_INFORMATION	Occurrence 0 .. 1 Type xs:string Description BT-83: Remittance information (OPTIONAL) Reference to be included in payment (Verwendungszweck). Examples: • Invoice INV-2026-001 • RE-2026-12345 • Customer number 12345
PAYMENT_ID	Occurrence 0 .. 1 Type xs:string Description BT-83: Payment reference (OPTIONAL) Alternative payment reference identifier.

Bold = Element, Italic = Attribute, Grey = Group

Element/Attribute		Annotation	
PAYEE_ACCOUNT		Occurrence	0 .. unbounded
		Type	PayeeAccountType
		Description	BG-17: Credit transfer (OPTIONAL but highly recommended) Bank account information for payment. Multiple accounts possible (main + optional alternatives).
			Example: REF-2026-001
	type	Type	PayeeAccountTypeEnum
		Use	required
		Description	Account priority: "main" or "optional" • main - Primary payment account • optional - Alternative payment account
			See PayeeAccountType for details.
	xs:sequence	Occurrence	1 .. 1
	BANK_NAME	Occurrence	0 .. 1
		Type	xs:string
		Description	BT-86: Payment service provider identifier (OPTIONAL) Name of the bank.
			Example: type="main"
	IBAN	Occurrence	0 .. 1
		Type	xs:string
		Description	BT-84: Payment account identifier (CONDITIONAL) IBAN of the payee's account. Mandatory in EU/EEA for SEPA payments. Format: 2 letter country code + 2 check digits + up to 30 alphanumeric Example: DE89370400440532013000
	ACCOUNT_NUMBER_ID	Occurrence	0 .. 1
		Type	xs:string
		Description	BT-84: Payment account identifier (CONDITIONAL) Context: PAYEE_ACCOUNT / BG-17 Credit transfer. Account number (alternative to IBAN for non-SEPA). Do not use this field for card PAN data; CARD_ACCOUNT/ACCOUNT_NUMBER_ID is the separate BT-87 mapping.
			Example: 532013000
	BIC	Occurrence	0 .. 1
		Type	xs:string
		Description	BT-86: Payment service provider identifier (OPTIONAL) BIC/SWIFT code of the bank. Format: 8 or 11 characters Example: DEUTDEFF or DEUTDEFFXXX

Bold = Element, *Italic* = Attribute, Grey = Group

Element/Attribute		Annotation	
ACCOUNT_HOLDER	Occurrence	0 .. 1	
	Type	xs:string	
CARD_ACCOUNT	Description	BT-85: Payment account name (OPTIONAL) Name of the account holder. Example: Company GmbH	
	Occurrence	0 .. 1	
xs:sequence	Type	CardAccountType	
	Description	BG-18: Payment card information (OPTIONAL) Card details if payment by card. See CardAccountType for details.	
ACCOUNT_NUMBER_ID	Occurrence	1 .. 1	
	Type	xs:string	
HOLDER_NAME	Description	BT-87: Payment card primary account number (MANDATORY if card payment) Context: CARD_ACCOUNT / BG-18 Payment card information. Masked card number (PAN). Only last 4-6 digits should be visible. Do not use this field for bank account identifiers; PAYEE_ACCOUNT/ACCOUNT_NUMBER_ID is the separate BT-84 mapping. Examples: • *****1234 • XXXX-XXXX-XXXX-1234 • ***123	
	Occurrence	0 .. 1	
MANDATE_REFERENCE	Type	xs:string	
	Description	BT-88: Payment card holder name (OPTIONAL) Name of the card holder as it appears on the card. Example: Max Mustermann	
CREDITOR_ID	Occurrence	0 .. 1	
	Type	xs:string	
DEBTOR_ACCOUNT	Description	BT-89: Mandate reference identifier (CONDITIONAL) SEPA direct debit mandate reference. Required if PAYMENT_MEANS_CODE is 49 or 59. Example: MANDATE-2026-001	
	Occurrence	0 .. 1	
DEBTOR_ACCOUNT	Type	xs:string	
	Description	BT-90: Bank assigned creditor identifier (CONDITIONAL) SEPA creditor identifier for direct debit. Example: DE98ZZZ09999999999	
DEBTOR_ACCOUNT	Occurrence	0 .. 1	
	Type	xs:string	
DEBTOR_ACCOUNT	Description	BT-91: Debited account identifier (CONDITIONAL) Bank account to be debited (for direct debit).	

Bold = Element, Italic = Attribute, Grey = Group

Element/Attribute	Annotation
DEBTOR_IBAN	Example: Account number or IBAN Occurrence 0 .. 1 Type xs:string Description Debtor's IBAN (OPTIONAL - RIF extension) IBAN of the account to be debited.
PARTIES	Example: DE89370400440532013000 Occurrence 1 .. 1 Type PartiesType
xs:sequence	Occurrence 1 .. 1
PARTY	Occurrence 1 .. unbounded Type PartyType Description Party information for Seller, Buyer, Payee, Tax Representative, or Delivery Party. EN16931 Mapping (BG - Business Group): • Seller (is="SE"): BG-4 (MANDATORY) • Buyer (is="BY"): BG-7 (MANDATORY) • Payee (is="PE"): BG-10 (OPTIONAL - if different from seller) • Tax Representative (is="TR"): BG-11 (OPTIONAL) • Delivery Party (is="DP"): BG-13 (OPTIONAL - if different from seller) Element Structure (strict order): 1. NAME (mandatory) - BT-27/BT-44/BT-59/BT-62/BT-70 2. TRADING_NAME (optional) - BT-28/BT-45 3. ID (multiple, optional) - Party identifiers with type attribute Types: GLN, VAT, TAX, etc. 4. LEGAL_ID (optional) - BT-30/BT-47 - Legal registration ID 5. LEGAL_INFO (optional) - BT-33 - Additional legal information 6. ENDPOINT_ID (optional) - BT-34/BT-49 - Electronic address 7. ADDRESS (optional) - BG-5/BG-8/BG-12/BG-15 8. CONTACT (optional) - BG-6/BG-9 CRITICAL CONSTRAINT: All <ID> elements MUST appear BEFORE <LEGAL_ID>! Violating this order will cause validation failure. Example - Seller: <pre> <PARTY is="SE"> <NAME>Seller Company GmbH</NAME> <TRADING_NAME>Seller Brand</ TRADING_NAME> <ID type="GLN">4026227000001</ID> <ID type="VAT">DE123456789</ID> <LEGAL_ID scheme="0204">HRB 12345</ LEGAL_ID> <LEGAL_INFO>Local court Berlin HRB 12345</ </pre>

Bold = Element, Italic = Attribute, Grey = Group

Element/Attribute		Annotation	
		LEGAL_INFO> <ENDPOINT_ID scheme="0088">4026227000001</ENDPOINT_ID> <ADDRESS> <STREET>Main Street 1</STREET> <CITY>Berlin</CITY> <POSTAL_CODE>10115</POSTAL_CODE> <COUNTRY>DE</COUNTRY> </ADDRESS> <CONTACT> <NAME>Max Mustermann</NAME> <PHONE>+49 30 12345678</PHONE> <EMAIL>info@seller.de</EMAIL> </CONTACT> </PARTY>	
		Example - Payee (minimal): <PARTY is="PE"> <NAME>Factoring Bank AG</NAME> <ID type="GLN">4012345678901</ID> <LEGAL_ID scheme="0204">HRB 99999</LEGAL_ID> </PARTY>	
	<i>is</i>	Type	PartyRoleEnum
	<i>xs:sequence</i>	Use	required
	NAME	Occurrence	1 .. 1
		Type	NonEmptyStringType
		Length	1 ..
		Description	Party name. BT mapping depends on PARTY/@is: SE -> BT-27 Seller name BY -> BT-44 Buyer name PE -> BT-59 Payee name TR -> BT-62 Seller tax representative name DP -> BT-70 Deliver to party name
	TRADING_NAME	Occurrence	0 .. 1
		Type	xs:string
		Description	Trading name. BT mapping depends on PARTY/@is: SE -> BT-28 Seller trading name BY -> BT-45 Buyer trading name Other roles -> RIF extension, not mapped to EN16931 core BT.
	ID	Occurrence	0 .. unbounded
		Type	IDType
		Description	Party identifier. BT mapping depends on PARTY/@is and ID/@type: SE -> BT-29 Seller identifier and/or BT-31 Seller VAT identifier BY -> BT-46 Buyer identifier and/or BT-48 Buyer VAT identifier PE -> BT-60 Payee identifier TR -> BT-63 Seller tax representative VAT identifier DP -> BT-71 Deliver to location identifier All ID elements must appear before LEGAL_ID.

Bold = Element, Italic = Attribute, Grey = Group

Element/Attribute		Annotation	
	<i>type</i>	Type	xs:string
		Use	required
	LEGAL_ID	Occurrence	0 .. 1
		Type	IdentifierType
		Description	Legal registration identifier. BT mapping depends on PARTY/@is: SE -> BT-30 Seller legal registration identifier BY -> BT-47 Buyer legal registration identifier Other roles -> RIF extension, not mapped to EN16931 core BT.
	<i>scheme</i>	Type	xs:string
		Use	optional
	LEGAL_INFO	Occurrence	0 .. 1
		Type	xs:string
		Description	BT-33: Seller additional legal information. Use primarily for PARTY/@is="SE"; other roles are RIF extensions.
	ENDPOINT_ID	Occurrence	0 .. 1
		Type	IdentifierType
		Description	Electronic address. BT mapping depends on PARTY/@is: SE -> BT-34 Seller electronic address BY -> BT-49 Buyer electronic address Other roles -> RIF extension, not mapped to EN16931 core BT.
	<i>scheme</i>	Type	xs:string
		Use	optional
	ADDRESS	Occurrence	0 .. 1
		Type	AddressType
		Description	Postal address. BT mapping depends on PARTY/@is: SE -> BG-5 Seller postal address BY -> BG-8 Buyer postal address TR -> BG-12 Seller tax representative postal address DP -> BG-15 Deliver to address PE -> RIF extension, not mapped to EN16931 core BT. See AddressType for element-level BT mappings.
	<i>xs:sequence</i>	Occurrence	1 .. 1
	STREET	Occurrence	1 .. 1
		Type	xs:string
		Description	BT-35/BT-50/BT-64/BT-75: Address line 1 (MANDATORY) Context mapping: SE -> BT-35, BY -> BT-50, TR -> BT-64, DP -> BT-75. Main street address line. Example: Main Street 123
	STREET2	Occurrence	0 .. 1
		Type	xs:string
		Description	BT-36/BT-51/BT-65/BT-76: Address line 2 (OPTIONAL) Context mapping: SE -> BT-36, BY -> BT-51, TR -> BT-65, DP -> BT-76. Additional address information (building, floor, etc.).

Bold = Element, Italic = Attribute, Grey = Group

Element/Attribute		Annotation	
			Example: Building A, 2nd floor
	STREET3	Occurrence 0 .. 1 Type xs:string Description BT-162/BT-163/BT-164/BT-165: Address line 3 (OPTIONAL) Context mapping: SE -> BT-162, BY -> BT-163, TR -> BT-164, DP -> BT-165. Third address line if needed.	
	CITY	Occurrence 1 .. 1 Type xs:string Description BT-37/BT-52/BT-66/BT-77: City (MANDATORY) Context mapping: SE -> BT-37, BY -> BT-52, TR -> BT-66, DP -> BT-77. City or town name.	Example: c/o Max Mustermann
	POSTAL_CODE	Occurrence 0 .. 1 Type xs:string Description BT-38/BT-53/BT-67/BT-78: Post code (OPTIONAL) Context mapping: SE -> BT-38, BY -> BT-53, TR -> BT-67, DP -> BT-78. ZIP code or postal code.	Example: Berlin, Munich, London
	STATE	Occurrence 0 .. 1 Type xs:string Description BT-39/BT-54/BT-68/BT-79: Country subdivision (OPTIONAL) Context mapping: SE -> BT-39, BY -> BT-54, TR -> BT-68, DP -> BT-79. State, province, or region. Important for countries like US, Canada, Australia.	Examples: 10115, SW1A 1AA, 75001
	COUNTRY	Occurrence 1 .. 1 Type CountryCodeType Pattern [A-Z]{2} Description BT-40/BT-55/BT-69/BT-80: Country code (MANDATORY) Context mapping: SE -> BT-40, BY -> BT-55, TR -> BT-69, DP -> BT-80. ISO 3166-1 alpha-2 country code.	Examples: Bayern, California, NSW
	CONTACT	Occurrence 0 .. 1 Type ContactType Description Contact information. BT mapping depends on PARTY/@is: SE -> BG-6 Seller contact BY -> BG-9 Buyer contact Other roles -> RIF extension, not mapped to EN16931 core BT. See ContactType for element-level BT mappings.	Examples: DE, US, GB, FR, AT, CH

Bold = Element, *Italic* = Attribute, Grey = Group

Element/Attribute	Annotation
xs:sequence NAME	Occurrence 1 .. 1 Occurrence 1 .. 1 Type NonEmptyStringType Length 1 .. Description BT-41/BT-56: Contact point (MANDATORY in ContactType) Context mapping: PARTY/@is="SE" -> BT-41, PARTY/@is="BY" -> BT-56. Name of the contact person or department. Examples: • Max Mustermann • Accounts Department • Customer Service • Herr Schmidt
PHONE	Occurrence 0 .. 1 Type xs:string Description BT-42/BT-57: Contact telephone number (OPTIONAL) Context mapping: PARTY/@is="SE" -> BT-42, PARTY/@is="BY" -> BT-57. Phone number for the contact point. Recommended format: International format with country code. Examples: • +49 30 12345678 • +44 20 7946 0958 • +1 212 555 0123
EMAIL	Occurrence 0 .. 1 Type xs:string Description BT-43/BT-58: Contact email address (OPTIONAL) Context mapping: PARTY/@is="SE" -> BT-43, PARTY/@is="BY" -> BT-58. Email address for the contact point. Examples: • info@company.de • accounting@company.com • max.mustermann@company.de
ATTACHMENTS	Occurrence 0 .. 1 Type AttachmentsType Description Container for invoice attachments. EN16931: BG-24 (Additional supporting documents) Contains one or more ATTACHMENT_REFERENCE elements. Each reference can contain the actual attachment data (embedded) or reference to an external document. Common use cases: • PDF copy of invoice for visual representation • Delivery notes, packing lists • Technical drawings, specifications

Bold = Element, Italic = Attribute, Grey = Group

Element/Attribute	Annotation	
	• Certificates, test reports • Photos of delivered goods • Time sheets (for service invoices) Example: <pre> <ATTACHMENTS> <ATTACHMENT_REFERENCE> <ATTACHMENT_ID>DOC-001</ ATTACHMENT_ID> <ATTACHMENT_TYPE>Invoice PDF</ ATTACHMENT_TYPE> <ATTACHMENT_filename="invoice.pdf" mimetype="application/pdf"> JVBERi0xLjQKJeLjz9MK... </ATTACHMENT> </ATTACHMENT_REFERENCE> </ATTACHMENTS> </pre>	
xs:sequence	Occurrence	1 .. 1
ATTACHMENT_REFERENCE	Occurrence	1 .. unbounded
	Type	AttachmentReferenceType
	Description	Reference to a single attachment.
	EN16931: BG-24 (Additional supporting documents) Contains metadata about the attachment and the actual attachment data. Structure: - ATTACHMENT_ID (mandatory) - Unique identifier for this attachment - ATTACHMENT_TYPE_CODE (optional) - Code classifying the attachment - ATTACHMENT_TYPE (optional) - Description of attachment type - ATTACHMENT (mandatory) - The actual attachment data (Base64 encoded) Example: <pre> <ATTACHMENT_REFERENCE> <ATTACHMENT_ID>DOC- 001</ATTACHMENT_ID> <ATTACHMENT_TYPE_CODE>130</ ATTACHMENT_TYPE_CODE> <ATTACHMENT_TYPE>Invoice PDF</ ATTACHMENT_TYPE> <ATTACHMENT_filename="invoice.pdf" mimetype="application/pdf"> JVBERi0xLjQKJeLjz9MKMSAwIG9iago... </ATTACHMENT> </pre>	
xs:sequence	Occurrence	1 .. 1
ATTACHMENT_ID	Occurrence	1 .. 1
	Type	xs:string
	Description	BT-122: Supporting document reference (MANDATORY if attachment present)
	Unique identifier for this attachment within the	

Bold = Element, Italic = Attribute, Grey = Group

Element/Attribute	Annotation
	invoice.
	Examples: DOC-001, ATT-001, DELIVERY-NOTE-123
ATTACHMENT_TYPE_CODE	Occurrence 0 .. 1 Type xs:string Description Attachment type code (OPTIONAL) Code classifying the type of attachment. UN/CEFACT code list 1001 or custom scheme. Common codes: • 130 - Invoice • 50 - Delivery note • 916 - Related document Example: <ATTACHMENT_TYPE_CODE>130</ATTACHMENT_TYPE_CODE>
ATTACHMENT_TYPE	Occurrence 0 .. 1 Type xs:string Description BT-123: Supporting document description (OPTIONAL) Textual description of what this attachment contains. Examples: • Invoice PDF • Delivery Note DN-2026-123 • Technical Specification • Time Sheet January 2026 • Product Photo
EXTERNAL_LOCATION	Occurrence 0 .. 1 Type xs:string Description BT-124: External document location (OPTIONAL) [NEW in 1.1] URL where the supporting document is available - alternative to embedded transfer (ATTACHMENT). Example: https://docs.lieferant.de/INV-2025-0001/leistungsschein.pdf
ATTACHMENT	Occurrence 0 .. 1 Type AttachmentType Description BT-125: Attached document (CONDITIONAL; optional from 1.1 onward - either embedded ATTACHMENT OR EXTERNAL_LOCATION) The actual attachment content, Base64 encoded. Must include: • filename attribute - Name of the file • mimetype attribute - IANA Media Type Content: Base64-encoded binary data Example: <ATTACHMENT filename="invoice.pdf"

Bold = Element, Italic = Attribute, Grey = Group

Element/Attribute		Annotation	
			JVBERi0xLjQKJeLjz9MKMSAwIG9iago8PC9UeXBIL0...
			</ATTACHMENT>
	<i>filename</i>	Type	xs:string
		Use	optional
		Description	Filename of the attachment including extension.
			Examples:
			• invoice.pdf
			• delivery-note.pdf
			• specifications.docx
			• photo.jpg
			• timesheet.xlsx
	<i>mimetype</i>	Type	MimeTypeEnum
		Use	optional
		Description	IANA Media Type (MIME type) of the attachment.
			Common types:
			• application/pdf - PDF documents
			• application/xml - XML files
			• image/jpeg - JPEG images
			• image/png - PNG images
			• application/vnd.openxmlformats-officedocument.wordprocessingml.document - Word .docx
			• application/vnd.openxmlformats-officedocument.spreadsheetml.sheet - Excel .xlsx
			See MimeTypeEnum for complete list of supported types.
	POSITION	Occurrence	1 .. 1
		Type	PositionType
	xs:sequence	Occurrence	1 .. 1
	ITEM	Occurrence	1 .. unbounded
		Type	ItemType
		Description	Invoice line item (product or service).
			EN16931: BG-25 (Invoice line)
			Contains all information about one invoiced item including description, quantity, price, allowances/charges, and tax.
	xs:sequence	Occurrence	1 .. 1
	LINE_ID	Occurrence	1 .. 1
		Type	NonEmptyStringType
		Length	1 ..
		Description	BT-126: Invoice line identifier (MANDATORY) Unique identifier for this invoice line. Sequential number or other unique identifier.
			Example: 1, 2, 3 or LINE-001, LINE-002
	LINE_NOTE	Occurrence	0 .. 1
		Type	xs:string
		Description	BT-127: Invoice line note (OPTIONAL) Free text note about this line item.

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Element/Attribute		Annotation	
OBJECT_IDENTIFIER		Occurrence	0 .. 1
		Type	IdentifierType
		Description	BT-128: Invoice line object identifier (OPTIONAL) Identifier for an object on which the invoice line is based. Example: Delivered in special packaging
	<i>scheme</i>	Type	xs:string
		Use	optional
ACCOUNTING_REFERENCE		Occurrence	0 .. 1
		Type	xs:string
		Description	BT-133: Invoice line buyer accounting reference (OPTIONAL) [NEW in 1.1] Buyer accounting reference for this line. Example: KST-4711
DESCRIPTION		Occurrence	1 .. 1
		Type	NonEmptyStringType
		Length	1 ..
		Description	BT-153: Item name (MANDATORY) Name of the item (product or service).
DESCRIPTION_EXTENDED		Occurrence	0 .. 1
		Type	xs:string
		Description	BT-154: Item description (OPTIONAL) Extended description of the item. Example: Office Chair Premium Model X
MATERIAL_NUMBER		Occurrence	0 .. unbounded
		Type	MaterialNumberType
		Description	BT-155: Item seller's identifier (OPTIONAL - party="SE") BT-156: Item buyer's identifier (OPTIONAL - party="BY") BT-157: Item standard identifier (OPTIONAL - party="EAN") Product identifier from seller, buyer, or standard scheme. Multiple identifiers allowed. Example: <MATERIAL_NUMBER party="SE">ART-12345</MATERIAL_NUMBER> <MATERIAL_NUMBER party="BY">BUYER-REF-999</MATERIAL_NUMBER> <MATERIAL_NUMBER party="EAN">4012345678901</MATERIAL_NUMBER>
	<i>party</i>	Type	MaterialNumberPartyEnum
		Use	optional

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Element/Attribute		Annotation	
CLASSIFICATION		Occurrence	0 .. 1
		Type	ClassificationType
		Description	BT-158: Item classification identifier (OPTIONAL) Classification code for the item. Common schemes: UNSPSC, CPV, eCI@ss Example: <CLASSIFICATION scheme="UNSPSC">43211508</CLASSIFICATION>
	<i>scheme</i>	Type	xs:string
		Use	optional
COUNTRY_OF_ORIGIN		Occurrence	0 .. 1
		Type	CountryCodeType
		Pattern	[A-Z]{2}
		Description	BT-159: Item country of origin (OPTIONAL) Country where the item was produced or manufactured. ISO 3166-1 alpha-2 code. Example: <COUNTRY_OF_ORIGIN>DE</ COUNTRY_OF_ORIGIN>
ATTRIBUTES		Occurrence	0 .. 1
		Type	AttributesType
		Description	BG-32: Item attributes (OPTIONAL) Additional attributes of the item (color, size, etc.). Contains multiple ATTRIBUTE elements. Example: <ATTRIBUTES> <ATTRIBUTE name="Color" value="Black"/> <ATTRIBUTE name="Size" value="XL"/> </ATTRIBUTES>
	<i>xs:sequence</i>	Occurrence	1 .. 1
ATTRIBUTE		Occurrence	1 .. unbounded
		Type	AttributeType
	<i>name</i>	Type	xs:string
		Use	required
	<i>value</i>	Type	xs:string
		Use	required
QUANTITY		Occurrence	1 .. 1
		Type	QuantityType
		Description	BT-129: Invoiced quantity (MANDATORY) Quantity of items invoiced. Must include unit attribute (UNECE Rec. 20). Example: <QUANTITY unit="C62">100</ QUANTITY>
	<i>unit</i>	Type	UnitCodeType
		Use	required
DELIVERED_QUANTITY		Occurrence	0 .. 1
		Type	QuantityType
		Description	Delivered quantity (OPTIONAL - not in EN16931 core) Actual quantity delivered (may differ from invoiced quantity).

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Element/Attribute		Annotation	
			Example: <DELIVERED_QUANTITY unit="C62">98</DELIVERED_QUANTITY>
	<i>unit</i>	Type Use	UnitCodeType required
	PRICE	Occurrence Type FractionDigits Description	1 .. 1 MoneyType 2 BT-146: Item net price (MANDATORY) Net price of the item (excluding VAT, after item price discount).
	PRICE_BASIS	Occurrence Type Description	Example: <PRICE>10.00</PRICE> 0 .. 1 QuantityType BT-149: Item price base quantity (OPTIONAL) BT-150: Item price base quantity unit code (OPTIONAL) Base quantity for the price (when price is not per 1 unit).
	<i>unit</i>	Type Use	UnitCodeType required
	PRICE_DISCOUNT	Occurrence Type FractionDigits Description	0 .. 1 MoneyType 2 BT-147: Item price discount (OPTIONAL) Discount per item that has been applied to the gross price.
	LINE_GROSS	Occurrence Type FractionDigits Description	Example: <PRICE_DISCOUNT>2.00</PRICE_DISCOUNT> 0 .. 1 MoneyType 2 BT-148: Item gross price (OPTIONAL) Gross price of the item before item price discount.
	POS_ALC	Occurrence Type Description	Example: <LINE_GROSS>12.00</LINE_GROSS> 0 .. 1 PosALCType BG-27: Line level allowances (OPTIONAL) BG-28: Line level charges (OPTIONAL) Allowances and charges for this invoice line. Contains multiple ALC elements.
	<i>xs:sequence</i>	Occurrence	1 .. 1
	ALC	Occurrence Type Description	1 .. unbounded ALCType Line-level allowance or charge. ALC/@type="ALLOWANCE" -> BG-27 (BT-136 to BT-140).

Bold = Element, Italic = Attribute, Grey = Group

Element/Attribute		Annotation	
			ALC/@type="CHARGE" -> BG-28 (BT-141 to BT-145). The same element name also appears under HEADER_ALC for document-level allowances/charges; read the parent context when mapping BTs.
	<i>type</i>	Type Use	ALCTypeEnum required
	<i>reason</i>	Type Use	ALCReasonEnum required
	<i>reasonCode</i>	Type Use Description	xs:string optional BT-98/BT-105 and BT-139/BT-144: Reason Code [NEW in 1.1] Context mapping: HEADER_ALC + ALLOWANCE -> BT-98 HEADER_ALC + CHARGE -> BT-105 POS_ALC + ALLOWANCE -> BT-139 POS_ALC + CHARGE -> BT-144 Code: UNTDID 5189 (Allowances, z.B. 95 = Discount) or UNTDID 7161 (charges, for example FC = Freight). Recommended for lossless mapping to Peppol BIS / ZUGFeRD.
	xs:sequence	Occurrence	1 .. 1
	AMOUNT	Occurrence Type FractionDigits Description	1 .. 1 MoneyType 2 Allowance/charge amount. BT mapping depends on parent and ALC/@type: HEADER_ALC + ALLOWANCE -> BT-92 HEADER_ALC + CHARGE -> BT-99 POS_ALC + ALLOWANCE -> BT-136 POS_ALC + CHARGE -> BT-141
	BASE_AMOUNT	Occurrence Type FractionDigits Description	0 .. 1 MoneyType 2 Base amount for percentage calculation. BT mapping depends on parent and ALC/@type: HEADER_ALC + ALLOWANCE -> BT-93 HEADER_ALC + CHARGE -> BT-100 POS_ALC + ALLOWANCE -> BT-137 POS_ALC + CHARGE -> BT-142
	PERCENTAGE	Occurrence Type FractionDigits Description	0 .. 1 PercentageType 2 Allowance/charge percentage. BT mapping depends on parent and ALC/@type: HEADER_ALC + ALLOWANCE -> BT-94 HEADER_ALC + CHARGE -> BT-101 POS_ALC + ALLOWANCE -> BT-138 POS_ALC + CHARGE -> BT-143

Bold = Element, Italic = Attribute, Grey = Group

Element/Attribute		Annotation	
	TEXT	Occurrence	0 .. 1
		Type	xs:string
		Description	Allowance/charge reason text. BT mapping depends on parent and ALC/@type: HEADER_ALC + ALLOWANCE -> BT-97 HEADER_ALC + CHARGE -> BT-104 POS_ALC + ALLOWANCE -> BT-140 POS_ALC + CHARGE -> BT-145
	TAX	Occurrence	0 .. 1
		Type	TaxType
		FractionDigits	2
		Description	VAT category/rate for document-level allowances and charges. HEADER_ALC + ALLOWANCE -> BT-95 (category) and BT-96 (rate). HEADER_ALC + CHARGE -> BT-102 (category) and BT-103 (rate). For POS_ALC this is a RIF extension; line VAT is normally mapped via ITEM/TAX.
	<i>rate</i>	Type	xs:decimal
		Use	required
	<i>category</i>	Type	TaxCategoryCodeType
		Use	required
	LINE_AMOUNT	Occurrence	1 .. 1
		Type	MoneyType
		FractionDigits	2
		Description	BT-131: Invoice line net amount (MANDATORY) Net amount for this line (excluding VAT). Calculated as: (quantity × price) - allowances + charges Example: <LINE_AMOUNT>1000.00</LINE_AMOUNT>
	TAX	Occurrence	1 .. 1
		Type	TaxType
		FractionDigits	2
		Description	BT-151: Invoiced item VAT category code (MANDATORY) BT-152: Invoiced item VAT rate (MANDATORY) VAT information for this line item. Example: <TAX rate="19" category="S">190.00</TAX>
	<i>rate</i>	Type	xs:decimal
		Use	required
	<i>category</i>	Type	TaxCategoryCodeType
		Use	required
	LINE_PERIOD	Occurrence	0 .. 1
		Type	PeriodType
		Description	BG-26: Invoice line period (OPTIONAL) BT-134: Invoice line period start date BT-135: Invoice line period end date

Bold = Element, *Italic* = Attribute, Grey = Group

Element/Attribute	Annotation
	Period to which this invoice line relates. Example: <pre><LINE_PERIOD> <START_DATE>2026-01-01</START_DATE> <END_DATE>2026-01-31</END_DATE> </LINE_PERIOD></pre>
xs:sequence	Occurrence 1 .. 1
START_DATE	Occurrence 1 .. 1 Type DateType Pattern \d{4}-\d{2}-\d{2} Description Period start date. Context mapping: ITEM/LINE_PERIOD -> BT-134 Invoice line period start date. HEADER_REFERENCE/DELIVERY_PERIOD ->
END_DATE	Occurrence 1 .. 1 Type DateType Pattern \d{4}-\d{2}-\d{2} Description Period end date. Context mapping: ITEM/LINE_PERIOD -> BT-135 Invoice line period end date. HEADER_REFERENCE/DELIVERY_PERIOD ->
POS_REFERENCE	Occurrence 0 .. 1 Type PosReferenceType
xs:sequence	Occurrence 1 .. 1
ORDER_NUMBER	Occurrence 0 .. 1 Type OrderNumberType Description Line-level purchase order reference. Context: ITEM/POS_REFERENCE. RIF line-level extension of BT-13; header-level ORDER_NUMBER maps directly to BT-13.
scheme	Type OrderNumberSchemeType
line	Use optional Type xs:string Use optional
ORDER_DATE	Occurrence 0 .. 1 Type DateType Pattern \d{4}-\d{2}-\d{2} Description Line-level purchase order date. Context: ITEM/POS_REFERENCE. RIF extension; not mapped to a separate EN16931 core BT.
DELIVERY_NOTE_NUMBER	Occurrence 0 .. 1 Type DeliveryNoteNumberType Description Line-level despatch advice reference. Context: ITEM/POS_REFERENCE. RIF line-level extension of BT-16; header-level DELIVERY_NOTE_NUMBER maps directly to BT-16.
scheme	Type DeliveryNoteNumberSchemeType Use optional

Bold = Element, *Italic* = Attribute, Grey = Group

Element/Attribute	Annotation
<i>line</i>	Type xs:string Use optional
DELIVERY_DATE	Occurrence 0 .. 1 Type DeliveryDateType Description Line-level delivery date. Context: ITEM/POS_REFERENCE. RIF line-level extension of BT-72; header-level DELIVERY_DATE maps directly to BT-72.
<i>type</i>	Type DeliveryDateTypeEnum Use optional
<i>time</i>	Type xs:string Use optional
POS_TEXT	Occurrence 0 .. unbounded Type PosTextType
<i>type</i>	Type xs:string Use required
<i>key</i>	Type xs:string Use optional
SUMMARY	Occurrence 1 .. 1 Type SummaryType Description Document totals and tax summary. EN16931: BG-22 (Document totals) Contains all totals and the VAT breakdown for the entire invoice. All amounts must be in the invoice currency (BT-5).
<i>xs:sequence</i>	Occurrence 1 .. 1
TOTAL_NET	Occurrence 1 .. 1 Type MoneyType FractionDigits 2 Description BT-106: Sum of invoice line net amount (MANDATORY) Sum of all invoice line net amounts (LINE_AMOUNT) in the invoice. Example: <TOTAL_NET>1000.00</TOTAL_NET>
TOTAL_ALLOWANCE	Occurrence 0 .. 1 Type MoneyType FractionDigits 2 Description BT-107: Sum of allowances on document level (OPTIONAL) Sum of all document-level allowances (discounts). Example: <TOTAL_ALLOWANCE>50.00</TOTAL_ALLOWANCE>
TOTAL_CHARGE	Occurrence 0 .. 1 Type MoneyType FractionDigits 2 Description BT-108: Sum of charges on document level (OPTIONAL) Sum of all document-level charges (additional costs). Example: <TOTAL_CHARGE>25.00</TOTAL_CHARGE>

Bold = Element, Italic = Attribute, Grey = Group

Element/Attribute	Annotation
TOTAL_NET_AFTER_ALC	Occurrence 1 .. 1 Type MoneyType FractionDigits 2 Description BT-109: Invoice total amount without VAT (MANDATORY) Total net amount after document-level allowances and charges. Calculation: TOTAL_NET - TOTAL_ALLOWANCE + TOTAL_CHARGE Example: <TOTAL_NET_AFTER_ALC>975.00</
TAX_SUMMARY	Occurrence 1 .. 1 Type TaxSummaryType Description BG-23: VAT breakdown (MANDATORY) Contains one or more TAX_BREAKDOWN elements. One breakdown per VAT category/rate combination. Example: <TAX_SUMMARY> <TAX_BREAKDOWN category="S" rate="19"> <TAXABLE_AMOUNT>975.00</TAXABLE_AMOUNT> <TAX_AMOUNT>185.25</TAX_AMOUNT> </TAX_BREAKDOWN> </TAX_SUMMARY>
xs:sequence	
TAX_BREAKDOWN	Occurrence 1 .. 1 Occurrence 1 .. unbounded Type TaxBreakdownType Description VAT breakdown for one VAT category/rate combination. Contains taxable amount, tax amount, VAT category, and rate. One breakdown element per unique category/rate combination in the invoice. Example: <TAX_BREAKDOWN category="S" rate="19"> <TAXABLE_AMOUNT>1000.00</TAXABLE_AMOUNT> <TAX_AMOUNT>190.00</TAX_AMOUNT> </TAX_BREAKDOWN>
<i>category</i>	Type TaxCategoryCodeType Use required Description BT-118: VAT category code (MANDATORY) UN/CEFACT UNTDID 5305 code. Common values: S - Standard rate Z - Zero rated E - Exempt AE - Reverse charge Example: category="S"

Bold = Element, Italic = Attribute, Grey = Group

Element/Attribute		Annotation	
<i>rate</i>		Type xs:decimal Use required Description BT-119: VAT category rate (MANDATORY) VAT rate as percentage (0-100). Common rates: 19, 7 (Germany) 20, 5 (UK) 21, 9 (Netherlands) Example: rate="19"	
<i>reasonCode</i>		Type xs:string Use optional Description BT-121: VAT exemption reason code (CONDITIONAL) Code for VAT exemption reason. VATEX code list (EU). Required for certain VAT categories. Example: reasonCode="VATEX-EU-132"	
xs:sequence		Occurrence 1 .. 1	
REASON_TEXT		Occurrence 0 .. 1 Type xs:string Description BT-120: VAT exemption reason text (CONDITIONAL) Textual explanation for VAT exemption. Required for certain VAT categories (E, O, etc.). Example: Export outside EU - Article 146 EU VAT Directive	
TAXABLE_AMOUNT		Occurrence 1 .. 1 Type MoneyType FractionDigits 2 Description BT-116: VAT category taxable amount (MANDATORY) Sum of all invoice line net amounts for this VAT category/rate. Example: <TAXABLE_AMOUNT>1000.00</TAXABLE_AMOUNT>	
TAX_AMOUNT		Occurrence 1 .. 1 Type MoneyType FractionDigits 2 Description BT-117: VAT category tax amount (MANDATORY) Total VAT amount for this category/rate. Calculation: TAXABLE_AMOUNT × (rate / 100) Example: <TAX_AMOUNT>190.00</TAX_AMOUNT>	
TOTAL_TAX		Occurrence 1 .. 1 Type MoneyType FractionDigits 2 Description BT-110: Invoice total VAT amount (MANDATORY) Total VAT amount for the invoice in invoice currency. Sum of all TAX_AMOUNT values from TAX_BREAKDOWN.	

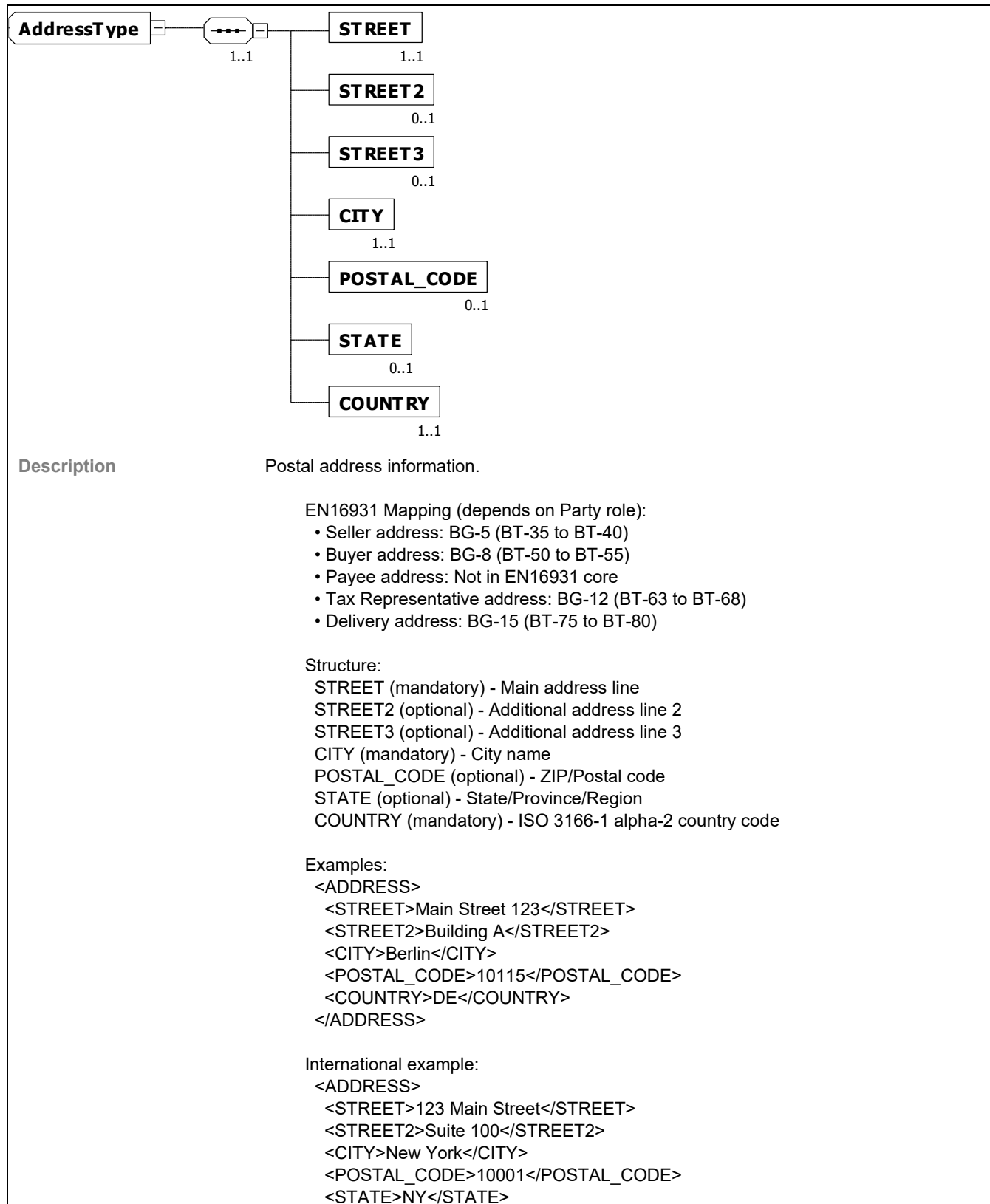
Bold = Element, Italic = Attribute, Grey = Group

Element/Attribute	Annotation
TOTAL_TAX_ACCOUNTING_CURRENCY	Example: <TOTAL_TAX>185.25</TOTAL_TAX> Occurrence 0 .. 1 Type MoneyType FractionDigits 2 Description BT-111: Invoice total VAT amount in accounting currency (CONDITIONAL) Total VAT amount in the accounting currency (VAT_CURRENCY). Required only if VAT accounting currency differs from invoice currency. Example: <TOTAL_TAX_ACCOUNTING_CURRENCY>185.25</TOTAL_TAX_ACCOUNTING_CURRENCY>
TOTAL_GROSS	Occurrence 1 .. 1 Type MoneyType FractionDigits 2 Description BT-112: Invoice total amount with VAT (MANDATORY) Total invoice amount including VAT. Calculation: TOTAL_NET_AFTER_ALC + TOTAL_TAX Example: <TOTAL_GROSS>1160.25</TOTAL_GROSS>
PREPAID_AMOUNT	Occurrence 0 .. 1 Type MoneyType FractionDigits 2 Description BT-113: Paid amount (OPTIONAL) Sum of amounts already paid (advance payments, deposits). Example: <PREPAID_AMOUNT>200.00</PREPAID_AMOUNT>
ROUNDING_AMOUNT	Occurrence 0 .. 1 Type MoneyType FractionDigits 2 Description BT-114: Rounding amount (OPTIONAL) Amount added or subtracted to round the payable amount. Positive = added, Negative = subtracted Example: <ROUNDING_AMOUNT>-0.25</ROUNDING_AMOUNT>
AMOUNT_DUE	Occurrence 1 .. 1 Type MoneyType FractionDigits 2 Description BT-115: Amount due for payment (MANDATORY) Outstanding amount to be paid. Calculation: TOTAL_GROSS - PREPAID_AMOUNT + ROUNDING_AMOUNT Example: <AMOUNT_DUE>960.00</AMOUNT_DUE>

Bold = Element, Italic = Attribute, Grey = Group

Components

RIF_INVOIC		Element
RIF_INVOIC version timestamp 1..1 DOCUMENT type code timestamp 1..1		
Attributes		
version	Usage Type	M xs:string
timestamp	Usage Type Description	M TimestampType Timestamp in ISO 8601 format WITHOUT timezone. Pattern: YYYY-MM-DDTHH:MM:SS Base Type: xs:dateTime with pattern restriction Valid Examples: • 2025-11-26T15:00:00 • 2025-01-01T00:00:00 • 2026-12-31T23:59:59 Invalid Examples: X 2025-11-26T15:00:00Z (timezone suffix not allowed) X 2025-11-26 15:00:00 (space instead of T separator) X 2025-9-5T15:0:0 (leading zeros required) X 26.11.2025T15:00:00 (wrong date format) Usage: RIF_INVOIC/@timestamp, DOCUMENT/@timestamp
AddressType		ComplexType



<COUNTRY>US</COUNTRY> </ADDRESS>	
ALCReasonEnum	SimpleType
Type	xs:string
Codes	Name/Description
DISCOUNT	
FREIGHT	
FUEL_SURCHARGE	
INSURANCE	
OTHER	[NEW in 1.1] Other reason - details via @reasonCode (UNTDID 5189/7161) and TEXT
PACKAGING	
ALCType	ComplexType
Description	Allowances and Charges (Reductions and Additional Costs) EN16931 Mapping: Document level: • ALLOWANCE: BG-20 (Document level allowances) • CHARGE: BG-21 (Document level charges) Line level: • ALLOWANCE: BG-27 (Line level allowances) • CHARGE: BG-28 (Line level charges) Type Values: • ALLOWANCE - Reductions (discount, rebate, price reduction) • CHARGE - Additional costs (freight, packaging, fuel surcharge) Reason Codes: • DISCOUNT - General discount or rebate • FREIGHT - Shipping/transportation costs • FUEL_SURCHARGE - Fuel price surcharge • PACKAGING - Packaging materials/costs Elements: • AMOUNT (mandatory) - Net allowance/charge amount

- BASE_AMOUNT (optional) - Base amount for percentage calculation
- PERCENTAGE (optional) - Discount/charge percentage
- TEXT (optional) - Free text description
- TAX (optional) - Tax information for this ALC

Example - Document level discount (5% early payment):

```
<ALC type="ALLOWANCE" reason="DISCOUNT">
  <AMOUNT>50.00</AMOUNT>
  <BASE_AMOUNT>1000.00</BASE_AMOUNT>
  <PERCENTAGE>5.0</PERCENTAGE>
  <TEXT>Early payment discount (14 days)</TEXT>
</ALC>
```

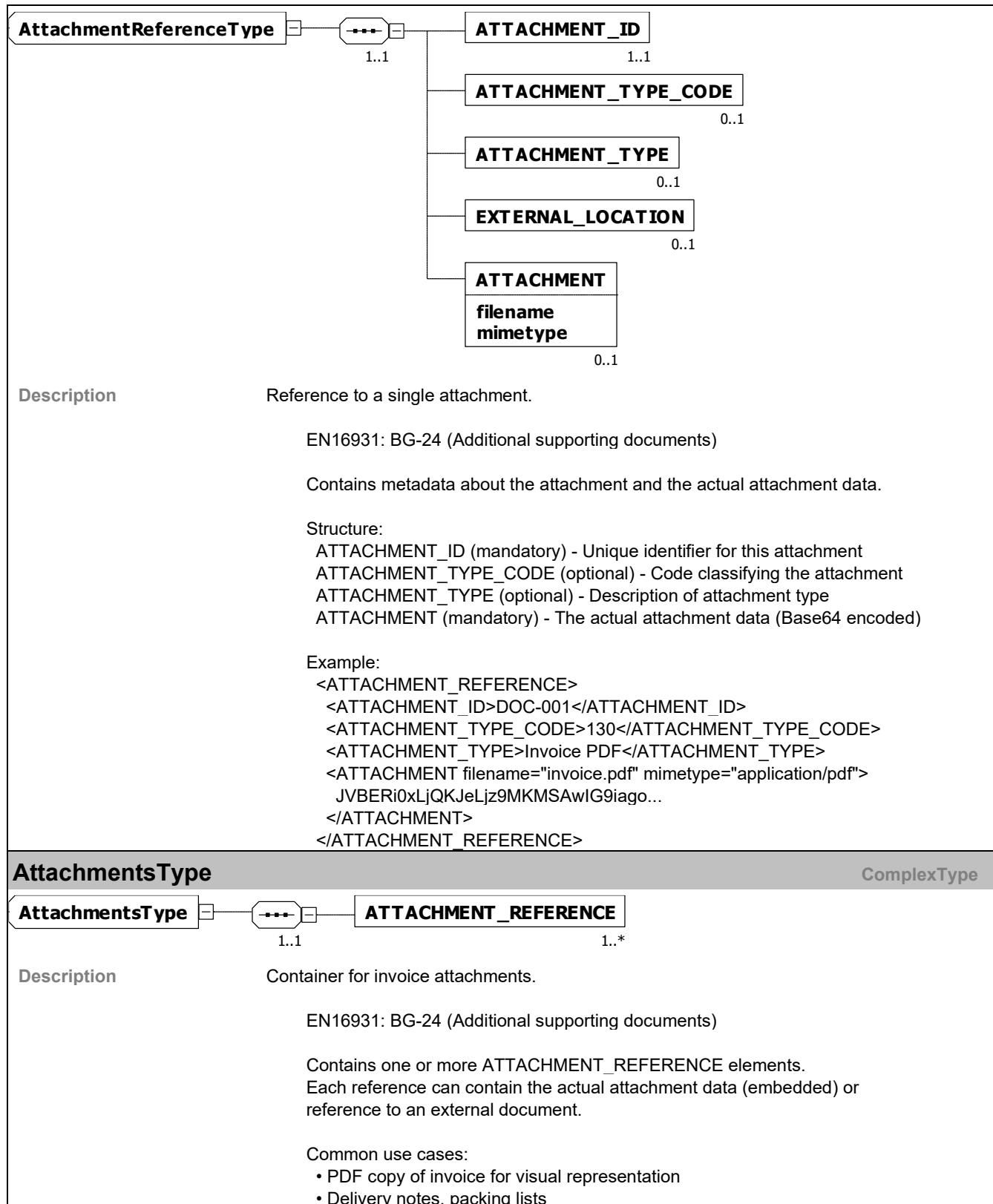
Example - Line level charge (packaging):

```
<ALC type="CHARGE" reason="PACKAGING">
  <AMOUNT>5.00</AMOUNT>
  <TEXT>Special protective packaging</TEXT>
</ALC>
```

Example - Document level freight charge:

```
<ALC type="CHARGE" reason="FREIGHT">
  <AMOUNT>25.00</AMOUNT>
  <TEXT>Standard shipping</TEXT>
  <TAX rate="19" category="S">4.75</TAX>
</ALC>
```

Attributes		
type	Usage Type	M ALCTypeEnum
reason	Usage Type	M ALCReasonEnum
reasonCode	Usage Type Description	O xs:string BT-98/BT-105 and BT-139/BT-144: Reason Code [NEW in 1.1] Context mapping: HEADER_ALC + ALLOWANCE -> BT-98 HEADER_ALC + CHARGE -> BT-105 POS_ALC + ALLOWANCE -> BT-139 POS_ALC + CHARGE -> BT-144 Code: UNTDID 5189 (Allowances, z.B. 95 = Discount) or UNTDID 7161 (charges, for example FC = Freight). Recommended for lossless mapping to Peppol BIS / ZUGFeRD.
ALCTypeEnum		SimpleType
Type	xs:string	
Codes		Name/Description
ALLOWANCE		
CHARGE		
AttachmentReferenceType		ComplexType



- Technical drawings, specifications
- Certificates, test reports
- Photos of delivered goods
- Time sheets (for service invoices)

Example:

```
<ATTACHMENTS>
<ATTACHMENT_REFERENCE>
  <ATTACHMENT_ID>DOC-001</ATTACHMENT_ID>
  <ATTACHMENT_TYPE>Invoice PDF</ATTACHMENT_TYPE>
  <ATTACHMENT filename="invoice.pdf" mimetype="application/pdf">
    JVBERi0xLjQKJeLjz9MK...
  </ATTACHMENT>
</ATTACHMENT_REFERENCE>
</ATTACHMENTS>
```

AttachmentType

ComplexType

AttachmentType

filename
mimetype

Type xs:string

Description Attachment content container.

Contains Base64-encoded binary data of the attachment.

Attributes:

- @filename (optional) - Original filename with extension
- @mimetype (optional) - IANA Media Type (MIME type)

Content: Base64-encoded binary data

Supported formats (via mimetype):

- Documents: PDF, Word, Excel, PowerPoint, OpenDocument
- Images: JPEG, PNG, GIF, TIFF
- Archives: ZIP, 7-Zip, TAR, GZIP
- Text: Plain text, CSV, XML, JSON
- E-Invoicing: ASiC-E containers (PEPPOL)

Size recommendation: Keep attachments under 5MB for compatibility.

Example:

```
<ATTACHMENT filename="invoice.pdf" mimetype="application/pdf">
  JVBERi0xLjQKJeLjz9MKMSAwIG9iago8PC9UeXBIL0NhZGFsb2cvUGFnZXMG
  MiAwIFI+PmVuZG9iagoyIDAgb2JqCjw8L1R5cGUvUGFnZXMvS2lk1szIDAq
  ...
</ATTACHMENT>
```

Note: The content should be Base64-encoded. To encode:

- Linux/Mac: base64 file.pdf
- PowerShell: [Convert]::ToBase64String([IO.File]::ReadAllBytes("file.pdf"))

Attributes

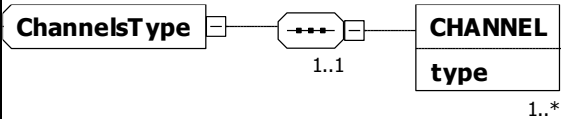
filename	Usage	O
----------	-------	---

Attributes		
	Type	xs:string
	Description	Filename of the attachment including extension. Examples: • invoice.pdf • delivery-note.pdf • specifications.docx • photo.jpg • timesheet.xlsx
mimetype	Usage	O
	Type	MimeTypeEnum
	Description	IANA Media Type (MIME type) of the attachment. Common types: • application/pdf - PDF documents • application/xml - XML files • image/jpeg - JPEG images • image/png - PNG images • application/vnd.openxmlformats-officedocument.wordprocessingml.document - Word .docx • application/vnd.openxmlformats-officedocument.spreadsheetml.sheet - Excel .xlsx See MimeTypeEnum for complete list of supported types.
AttributesType		ComplexType
AttributeType		ComplexType
Attributes		
name	Usage	M
	Type	xs:string
value	Usage	M
	Type	xs:string
CardAccountType		ComplexType
Description		Payment card information.

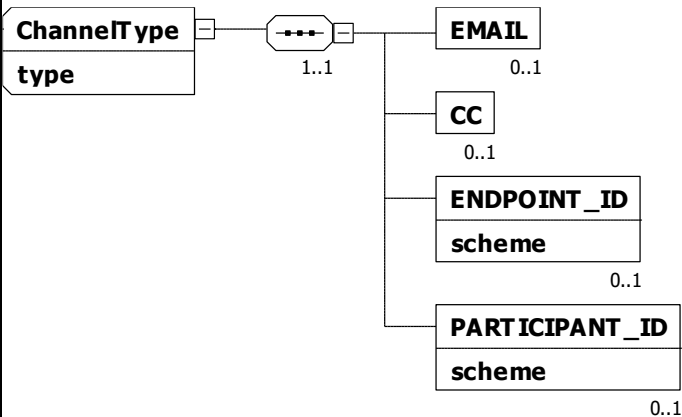
EN16931: BG-18 (Payment card information)
Contains masked card number and holder name.

Example:
<CARD_ACCOUNT>
 <ACCOUNT_NUMBER_ID>*****1234</ACCOUNT_NUMBER_ID>
 <HOLDER_NAME>Max Mustermann</HOLDER_NAME>
</CARD_ACCOUNT>

ChannelsType ComplexType

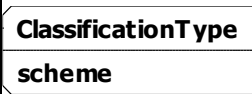


ChannelType ComplexType



Attributes		
type	Usage	M
	Type	xs:string

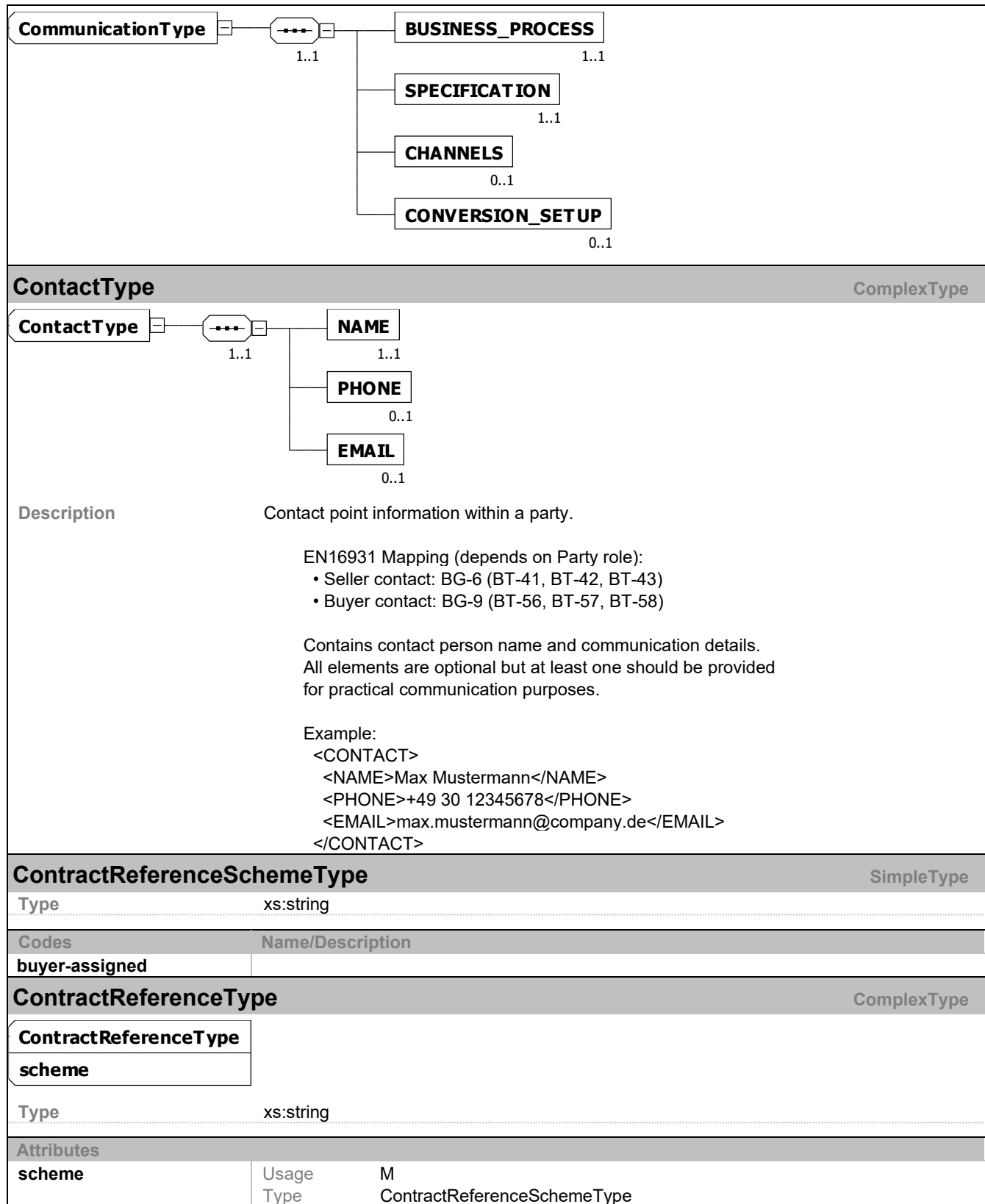
ClassificationType ComplexType



Type xs:string

Attributes		
scheme	Usage	O
	Type	xs:string

CommunicationType ComplexType



CountryCodeType		SimpleType
Type	xs:string	
Pattern	[A-Z]{2}	
CurrencyCodeType		SimpleType
Type	xs:string	
Codes	Name/Description	
AED	UAE Dirham	
AFN	Afghan Afghani	
ALL	Albanian Lek	
AMD	Armenian Dram	
ARS	Argentine Peso	
AUD	Australian Dollar	
AZN	Azerbaijani Manat	
BAM	Bosnia-Herzegovina Convertible Mark	
BDT	Bangladeshi Taka	
BGN	Bulgarian Lev	
BHD	Bahraini Dinar	
BND	Brunei Dollar	
BOB	Bolivian Boliviano	
BRL	Brazilian Real	
BWP	Botswana Pula	
BYN	Belarusian Ruble	
CAD	Canadian Dollar	
CHF	Swiss Franc	
CLP	Chilean Peso	
CNY	Chinese Yuan Renminbi	
COP	Colombian Peso	
CRC	Costa Rican Colon	
CZK	Czech Koruna	
DKK	Danish Krone	
DOP	Dominican Peso	
DZD	Algerian Dinar	
EGP	Egyptian Pound	
ETB	Ethiopian Birr	
EUR	Euro	
GBP	Pound Sterling	
GEL	Georgian Lari	
GHS	Ghanaian Cedi	
GTQ	Guatemalan Quetzal	
HKD	Hong Kong Dollar	
HNL	Honduran Lempira	
HUF	Hungarian Forint	
IDR	Indonesian Rupiah	
ILS	Israeli New Shekel	
INR	Indian Rupee	
IQD	Iraqi Dinar	
IRR	Iranian Rial	
ISK	Icelandic Krona	
JMD	Jamaican Dollar	

Codes	Name/Description
JOD	Jordanian Dinar
JPY	Japanese Yen
KES	Kenyan Shilling
KHR	Cambodian Riel
KRW	South Korean Won
KWD	Kuwaiti Dinar
KZT	Kazakhstani Tenge
LAK	Lao Kip
LBP	Lebanese Pound
LKR	Sri Lankan Rupee
LYD	Libyan Dinar
MAD	Moroccan Dirham
MDL	Moldovan Leu
MKD	Macedonian Denar
MMK	Myanmar Kyat
MNT	Mongolian Tugrik
MUR	Mauritian Rupee
MXN	Mexican Peso
MYR	Malaysian Ringgit
MZN	Mozambican Metical
NAD	Namibian Dollar
NGN	Nigerian Naira
NIO	Nicaraguan Cordoba
NOK	Norwegian Krone
NPR	Nepalese Rupee
NZD	New Zealand Dollar
OMR	Omani Rial
PAB	Panamanian Balboa
PEN	Peruvian Sol
PHP	Philippine Peso
PKR	Pakistani Rupee
PLN	Polish Zloty
PYG	Paraguayan Guarani
QAR	Qatari Rial
RON	Romanian Leu
RSD	Serbian Dinar
RUB	Russian Ruble
SAR	Saudi Riyal
SEK	Swedish Krona
SGD	Singapore Dollar
SYP	Syrian Pound
THB	Thai Baht
TND	Tunisian Dinar
TRY	Turkish Lira
TWD	Taiwan Dollar
TZS	Tanzanian Shilling
UAH	Ukrainian Hryvnia
UGX	Ugandan Shilling
USD	United States Dollar

Codes	Name/Description	
UYU	Uruguayan Peso	
UZS	Uzbekistani Som	
VES	Venezuelan Bolivar	
VND	Vietnamese Dong	
XAF	CFA Franc BEAC	
XCD	East Caribbean Dollar	
XOF	CFA Franc BCEAO	
XPF	CFP Franc	
YER	Yemeni Rial	
ZAR	South African Rand	
ZMW	Zambian Kwacha	
ZWL	Zimbabwean Dollar	

DateType			SimpleType
Type	xs:date		
Pattern	\d{4}-\d{2}-\d{2}		
Description	Date in ISO 8601 format.		
	Pattern: YYYY-MM-DD		
	Base Type: xs:date with pattern restriction		
	Valid Examples:		
	• 2025-11-26		
	• 2025-01-01		
	• 2026-12-31		
	Invalid Examples:		
	X 26.11.2025 (German format)		
	X 11/26/2025 (US format)		
	X 2025-9-5 (leading zeros required)		
	X 26-11-2025 (wrong order)		
	Usage: INVOICE_DATE, DUE_DATE, DELIVERY_DATE, TAX_POINT_DATE, etc.		
	EN16931: BT-2, BT-9, BT-72, BT-7, and others		

DeliveryDateType			ComplexType
DeliveryDateType type time			
Type	xs:date		
Attributes			
type	Usage	O	
	Type	DeliveryDateTypeEnum	
time	Usage	O	
	Type	xs:string	

DeliveryDateTypeEnum		SimpleType
Type	xs:string	

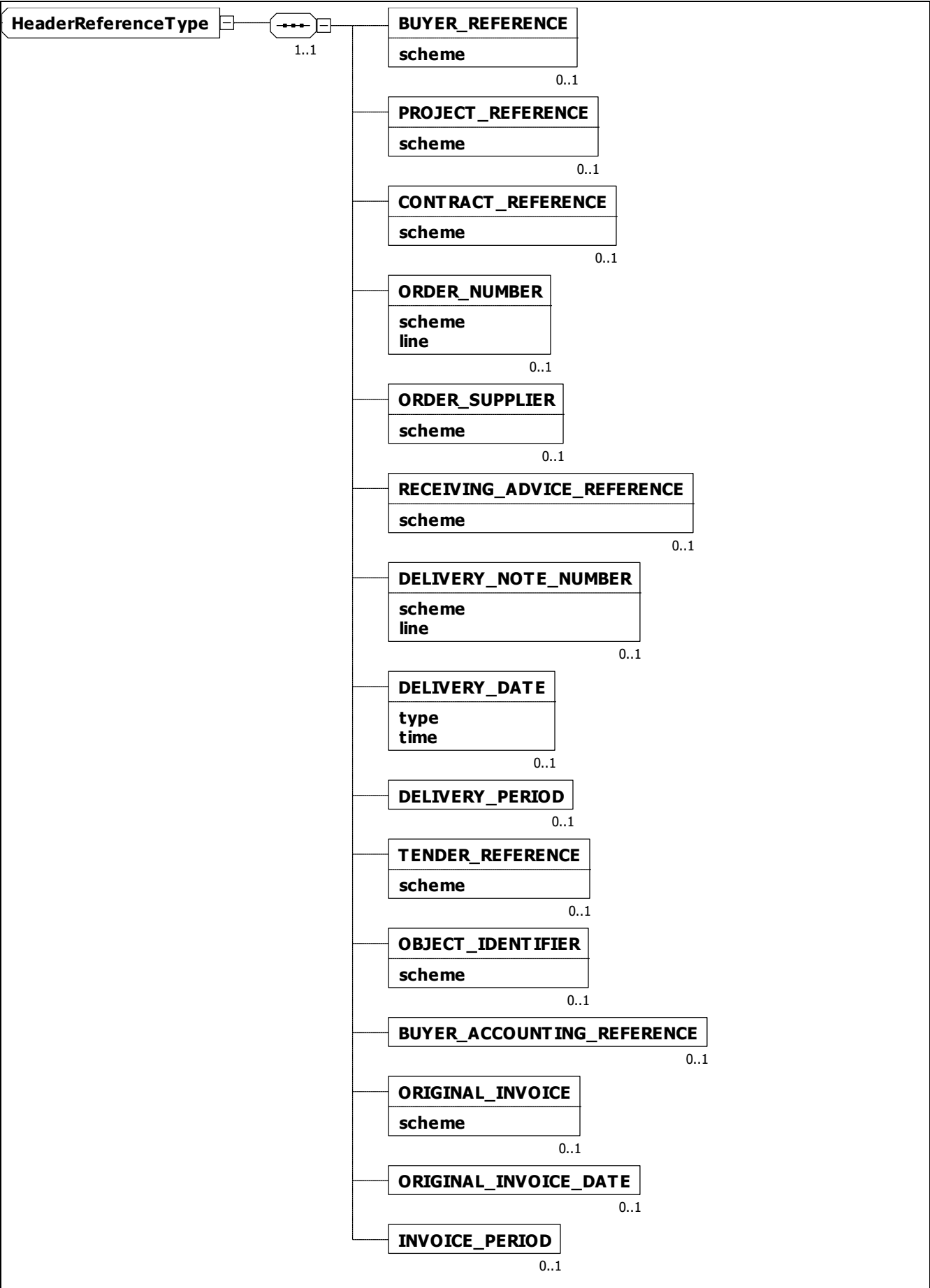
Codes		Name/Description	
actual			
DeliveryNoteNumberSchemeType		SimpleType	
Type	xs:string		
Codes		Name/Description	
seller-assigned			
DeliveryNoteNumberType		ComplexType	
DeliveryNoteNumberType scheme line			
Type	xs:string		
Attributes			
scheme	Usage	O	
	Type		DeliveryNoteNumberSchemeType
line	Usage	O	
	Type		xs:string
DiscountType		ComplexType	
DiscountType 1..1 PERCENTAGE 0..1 AMOUNT 0..1 BASE_AMOUNT 0..1 DUE_DATE days 0..1 TERM_TEXT 0..1			
Description		Cash discount for early payment. Contains discount percentage/amount and the due date for discount. Example: <pre><DISCOUNT> <PERCENTAGE>2.0</PERCENTAGE> <BASE_AMOUNT>1000.00</BASE_AMOUNT> <AMOUNT>20.00</AMOUNT> <DUE_DATE>2026-02-14</DUE_DATE> <TERM_TEXT>2% cash discount for payment within 14 days</TERM_TEXT> </DISCOUNT></pre>	
DocumentCodeEnum		SimpleType	
Type	xs:string		

Codes		Name/Description
326		Partial invoice
380		Commercial invoice
381		Credit note
384		Corrected invoice
389		Self-billed invoice

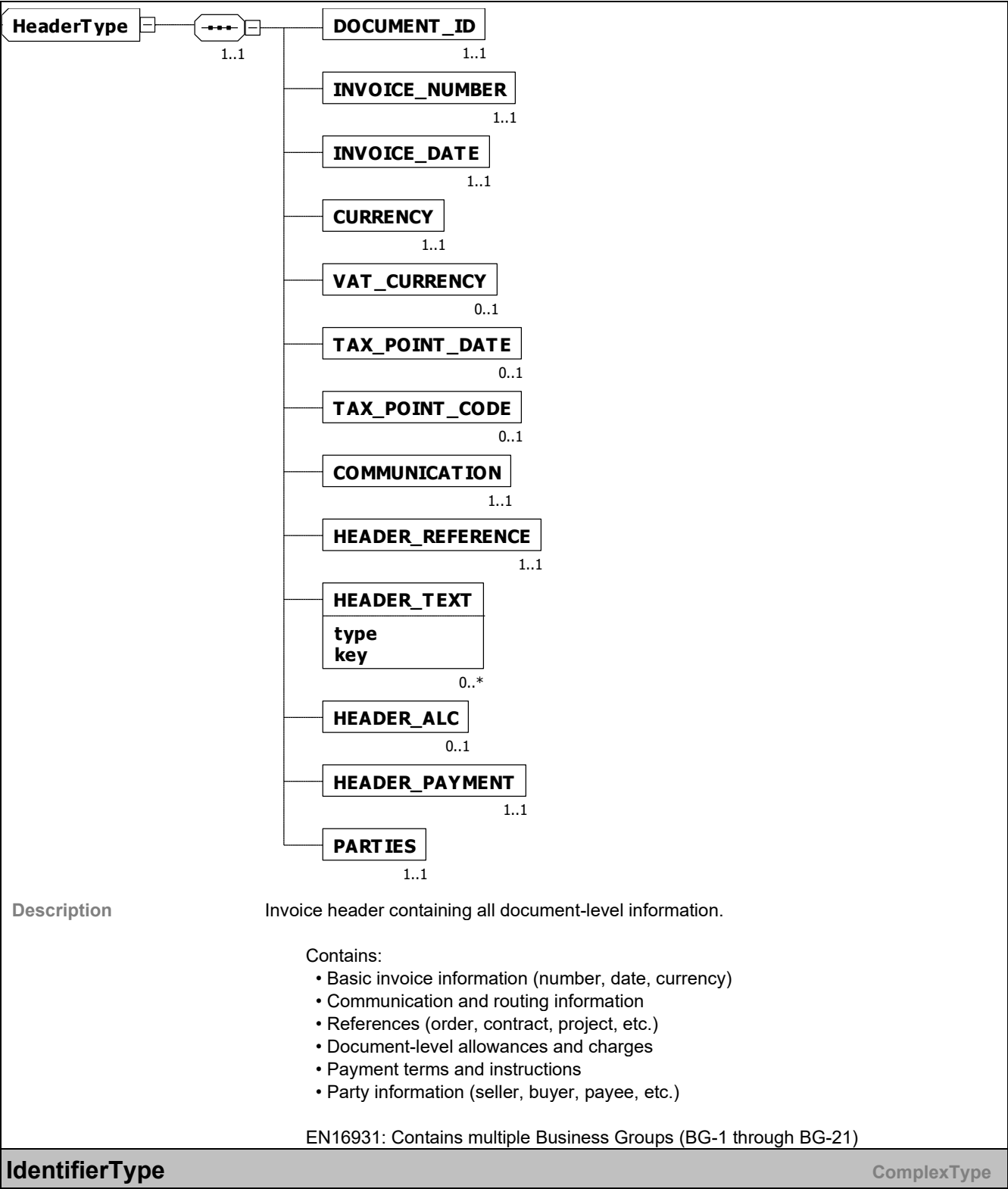
DocumentType		ComplexType
		Description Main document container for RIF_INVOIC format. Structure: - HEADER (mandatory) - Invoice metadata, parties, payment terms - ATTACHMENTS (optional) - Supporting documents (PDF, images, etc.) - POSITION (mandatory) - Line items with products/services - SUMMARY (mandatory) - Document totals and tax breakdown Attributes: @type - Document type (invoice or creditnote) @code - UN/CEFACT document type code (380=Invoice, 381=Credit Note) @timestamp - Document creation timestamp (ISO 8601) EN16931 Reference: Root level structure for electronic invoice Example: <pre><DOCUMENT type="invoice" code="380" timestamp="2025-11-26T15:00:00"> <HEADER>...</HEADER> <POSITION>...</POSITION> <SUMMARY>...</SUMMARY> </DOCUMENT></pre>

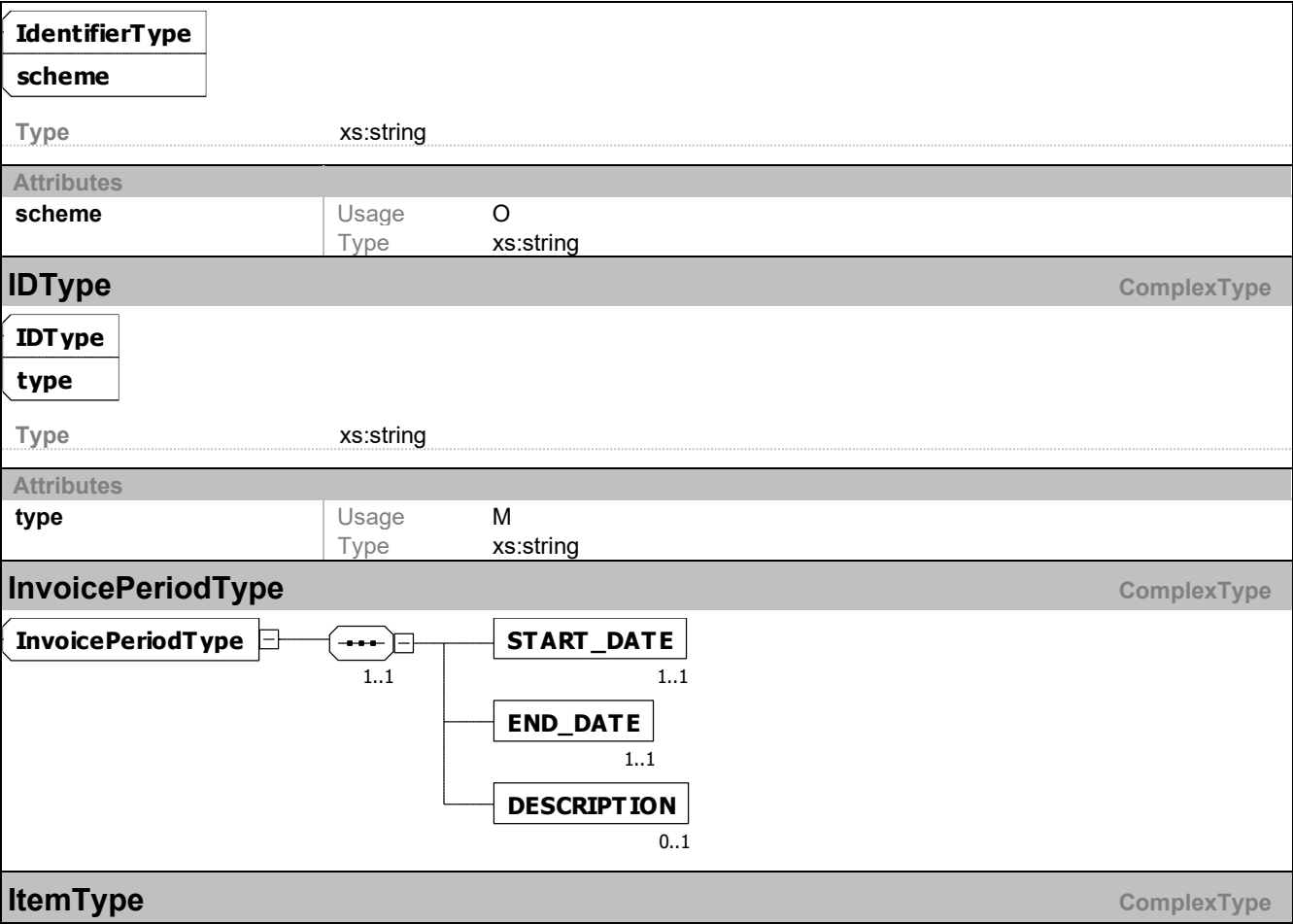
Attributes		
type	Usage Type	M DocumentTypeEnum
code	Usage Type	M DocumentCodeEnum
timestamp	Usage Type Description	M TimestampType Timestamp in ISO 8601 format WITHOUT timezone. Pattern: YYYY-MM-DDTHH:MM:SS Base Type: xs:dateTime with pattern restriction

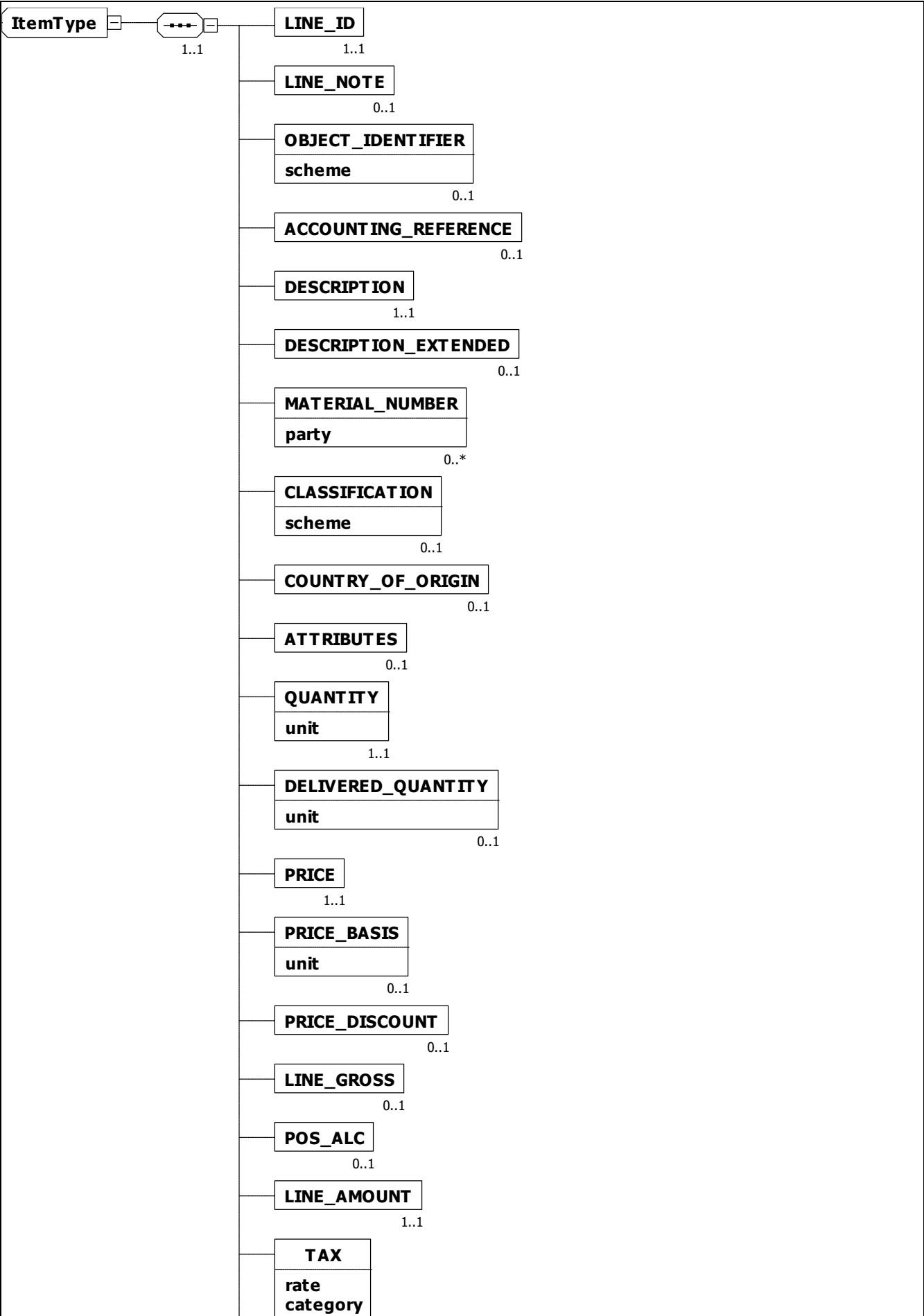
Attributes	
	Valid Examples: • 2025-11-26T15:00:00 • 2025-01-01T00:00:00 • 2026-12-31T23:59:59 Invalid Examples: - X 2025-11-26T15:00:00Z (timezone suffix not allowed) - X 2025-11-26 15:00:00 (space instead of T separator) - X 2025-9-5T15:0:0 (leading zeros required) - X 26.11.2025T15:00:00 (wrong date format) Usage: RIF_INVOIC/@timestamp, DOCUMENT/@timestamp
DocumentTypeEnum	
Type	xs:string
Codes	Name/Description
creditnote	
invoice	
HeaderALType	
HeaderPaymentType	
Description	Payment information for the invoice. EN16931: Contains BG-16 (Payment instructions) and BG-17 (Credit transfer) Contains payment terms (due date, discounts) and payment instructions (bank account details, payment method, etc.). Structure: PAYMENT_TERMS (mandatory) - When and how payment is due PAYMENT_INSTRUCTIONS (optional) - How to pay (bank account, etc.)
HeaderReferenceType	



Description		Document references and delivery information. Contains references to related business documents and delivery details. EN16931: Contains multiple Business Terms (BT-10 through BT-74)		
HeaderTextType		ComplexType		
<table><tr><td>HeaderTextType</td></tr><tr><td>type key</td></tr></table>		HeaderTextType	type key	
HeaderTextType				
type key				
Type	xs:string			
Attributes				
type	Usage Type	M xs:string		
key	Usage Type	O xs:string		
HeaderType		ComplexType		





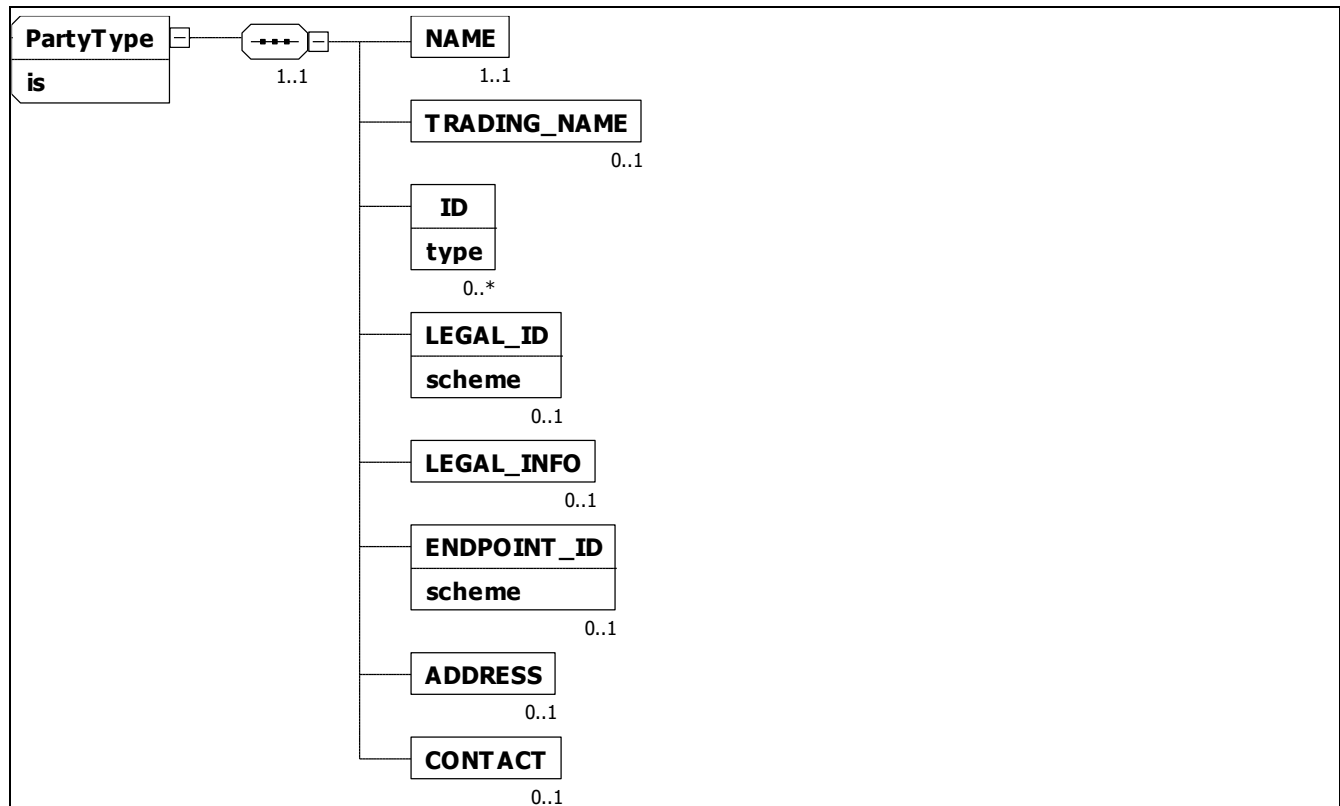


Description		Invoice line item (product or service).	
		EN16931: BG-25 (Invoice line) Contains all information about one invoiced item including description, quantity, price, allowances/charges, and tax.	
MaterialNumberPartyEnum		SimpleType	
Type		xs:string	
Codes		Name/Description	
BY			
EAN			
SE			
MaterialNumberType		ComplexType	
MaterialNumberType			
party			
Type		xs:string	
Attributes			
party		Usage	O
		Type	MaterialNumberPartyEnum
MimeTypeEnum		SimpleType	
Type		xs:string	
Codes		Name/Description	
application/gzip		GZIP Archive	
application/json		JSON Document	
application/ld+json		JSON-LD (Linked Data)	
application/msword		Microsoft Word (.doc)	
application/octet-stream		Binary Data	
application/pdf		PDF Document	
application/pkcs7-mime		PKCS#7 MIME	
application/pkcs7-signature		PKCS#7 Signature	
application/rtf		Rich Text Format	
application/vnd.etsi.asic-e+zip		ASiC-E Container (PEPPOL)	
application/vnd.etsi.asic-s+zip		ASiC-S Container	
application/vnd.fints		FinTS (Financial Transaction Services)	
application/vnd.ms-excel		Microsoft Excel (.xls)	
application/vnd.ms-fontobject		Embedded OpenType Font	
application/vnd.ms-powerpoint		Microsoft PowerPoint (.ppt)	
application/vnd.oasis.opendocument.presentation		OpenDocument Presentation (.odp)	
application/vnd.oasis.opendocument.		OpenDocument Spreadsheet (.ods)	

Codes	Name/Description
spreadsheet	
application/vnd.oasis.opendocument.text	OpenDocument Text (.odt)
application/vnd.openxmlformats-officedocument.presentationml.presentation	Microsoft PowerPoint (.pptx)
application/vnd.openxmlformats-officedocument.spreadsheetml.sheet	Microsoft Excel (.xlsx)
application/vnd.openxmlformats-officedocument.wordprocessingml.document	Microsoft Word (.docx)
application/x-7z-compressed	7-Zip Archive
application/x-rar-compressed	RAR Archive
application/x-shockwave-flash	Flash (.swf)
application/x-tar	TAR Archive
application/x-www-form-urlencoded	URL Encoded Form Data
application/xhtml+xml	XHTML Document
application/xml	XML Document
application/zip	ZIP Archive
audio/aac	AAC Audio
audio/flac	FLAC Audio
audio/mpeg	MP3 Audio
audio/ogg	OGG Audio
audio/wav	WAV Audio
audio/webm	WebM Audio
font/otf	OpenType Font
font/ttf	TrueType Font
font/woff	WOFF Font
font/woff2	WOFF2 Font
image/bmp	BMP Image
image/gif	GIF Image
image/jpeg	JPEG Image
image/png	PNG Image
image/svg+xml	SVG Vector Image
image/tiff	TIFF Image
image/webp	WebP Image
image/x-icon	Icon (.ico)
message/rfc822	Email Message (RFC 822)
multipart/form-data	Multipart Form Data
multipart/mixed	Multipart Mixed

Codes	Name/Description	
text/calendar	iCalendar (.ics)	
text/css	CSS Stylesheet	
text/csv	CSV (Comma-Separated Values)	
text/html	HTML Document	
text/javascript	JavaScript	
text/markdown	Markdown	
text/plain	Plain Text	
text/xml	XML Text	
video/mp4	MP4 Video	
video/mpeg	MPEG Video	
video/ogg	OGG Video	
video/quicktime	QuickTime Video (.mov)	
video/webm	WebM Video	
video/x-msvideo	AVI Video	
MoneyType SimpleType		
Type	xs:decimal	
FractionDigits / TotalDigits	2 /	
NonEmptyStringType SimpleType		
Type	xs:string	
Length	1 ..	
OrderNumberSchemeType SimpleType		
Type	xs:string	
Codes	Name/Description	
buyer-assigned		
OrderNumberType ComplexType		
OrderNumberType scheme line		
Type	xs:string	
Attributes		
scheme	Usage	O
	Type	OrderNumberSchemeType
line	Usage	O
	Type	xs:string
OrderSupplierSchemeType SimpleType		
Type	xs:string	
Codes	Name/Description	
seller-assigned		
OrderSupplierType ComplexType		

OrderSupplierType		
scheme		
Type	xs:string	
Attributes		
scheme	Usage	M
	Type	OrderSupplierSchemeType
OriginalInvoiceSchemeType		
SimpleType		
Type	xs:string	
Codes		
Name/Description		
seller-assigned		
OriginalInvoiceType		
ComplexType		
OriginalInvoiceType		
scheme		
Type	xs:string	
Attributes		
scheme	Usage	M
	Type	OriginalInvoiceSchemeType
PartiesType		
ComplexType		
PartiesType 1..1 PARTY is 1..*		
PartyRoleEnum		
SimpleType		
Type	xs:string	
Codes		
Name/Description		
BY	Buyer	
DP	Delivery Party	
PE	Payee	
SE	Seller	
TR	Tax Representative	
PartyType		
ComplexType		

**Description**

Party information for Seller, Buyer, Payee, Tax Representative, or Delivery Party.

EN16931 Mapping (BG - Business Group):

- Seller (is="SE"): BG-4 (MANDATORY)
- Buyer (is="BY"): BG-7 (MANDATORY)
- Payee (is="PE"): BG-10 (OPTIONAL - if different from seller)
- Tax Representative (is="TR"): BG-11 (OPTIONAL)
- Delivery Party (is="DP"): BG-13 (OPTIONAL - if different from seller)

Element Structure (strict order):

1. NAME (mandatory) - BT-27/BT-44/BT-59/BT-62/BT-70
2. TRADING_NAME (optional) - BT-28/BT-45
3. ID (multiple, optional) - Party identifiers with type attribute
Types: GLN, VAT, TAX, etc.
4. LEGAL_ID (optional) - BT-30/BT-47 - Legal registration ID
5. LEGAL_INFO (optional) - BT-33 - Additional legal information
6. ENDPOINT_ID (optional) - BT-34/BT-49 - Electronic address
7. ADDRESS (optional) - BG-5/BG-8/BG-12/BG-15
8. CONTACT (optional) - BG-6/BG-9

CRITICAL CONSTRAINT:

All <ID> elements MUST appear BEFORE <LEGAL_ID>!
Violating this order will cause validation failure.

Example - Seller:

```
<PARTY is="SE">
  <NAME>Seller Company GmbH</NAME>
```

<TRADING_NAME>Seller Brand</TRADING_NAME>
<ID type="GLN">4026227000001</ID>
<ID type="VAT">DE123456789</ID>
<LEGAL_ID scheme="0204">HRB 12345</LEGAL_ID>
<LEGAL_INFO>Local court Berlin HRB 12345</LEGAL_INFO>
<ENDPOINT_ID scheme="0088">4026227000001</ENDPOINT_ID>
<ADDRESS>
 <STREET>Main Street 1</STREET>
 <CITY>Berlin</CITY>
 <POSTAL_CODE>10115</POSTAL_CODE>
 <COUNTRY>DE</COUNTRY>
</ADDRESS>
<CONTACT>
 <NAME>Max Mustermann</NAME>
 <PHONE>+49 30 12345678</PHONE>
 <EMAIL>info@seller.de</EMAIL>
</CONTACT>
</PARTY>

Example - Payee (minimal):
<PARTY is="PE">
 <NAME>Factoring Bank AG</NAME>
 <ID type="GLN">4012345678901</ID>
 <LEGAL_ID scheme="0204">HRB 99999</LEGAL_ID>
</PARTY>

Attributes

is	Usage	M
	Type	PartyRoleEnum

PayeeAccountType

ComplexType

PayeeAccountType

type

1..1

BANK_NAME

0..1

IBAN

0..1

ACCOUNT_NUMBER_ID

0..1

BIC

0..1

ACCOUNT_HOLDER

0..1

Description

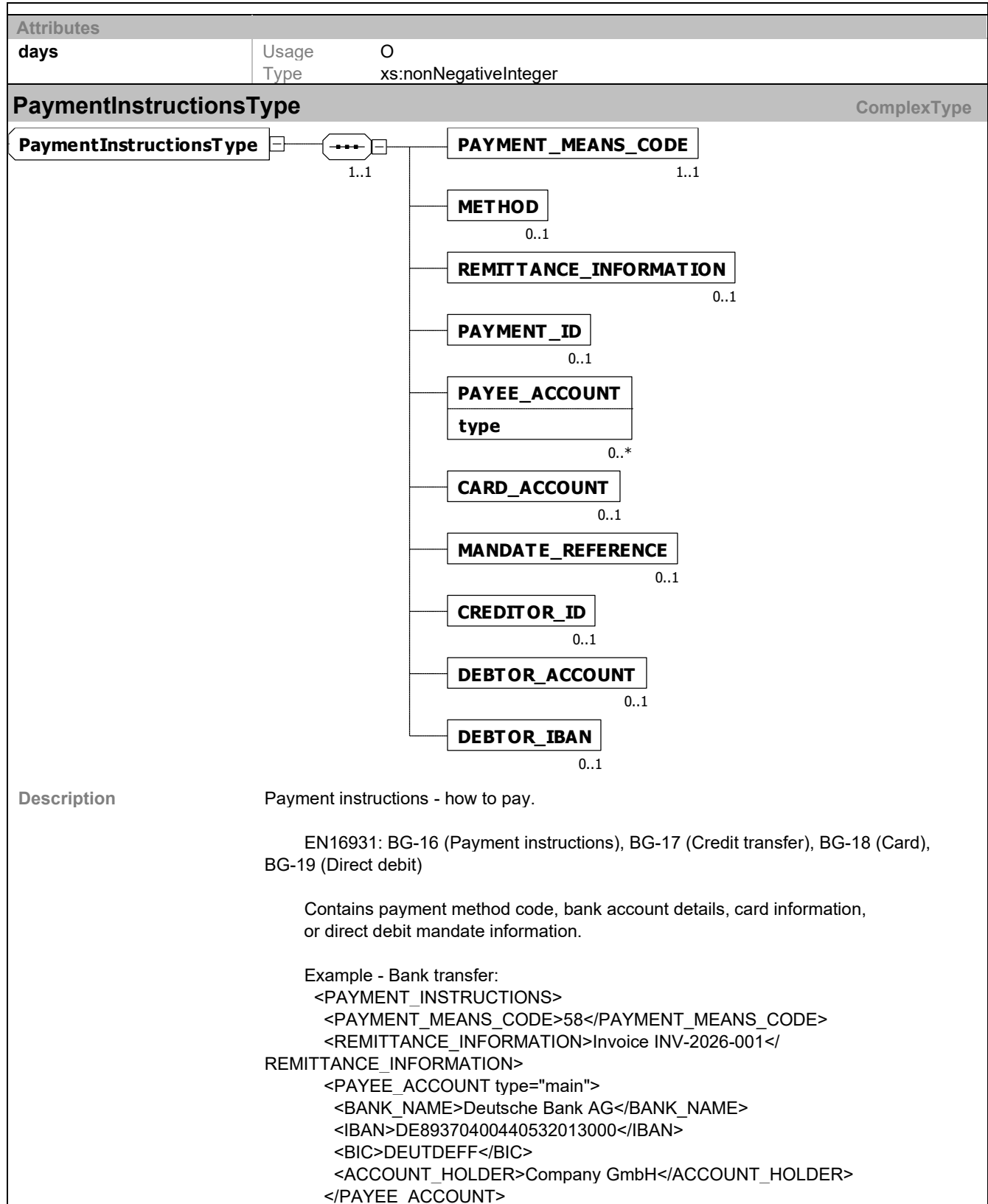
Bank account information for payment.

EN16931: BG-17 (Credit transfer)
Contains IBAN, BIC, bank name, and account holder.

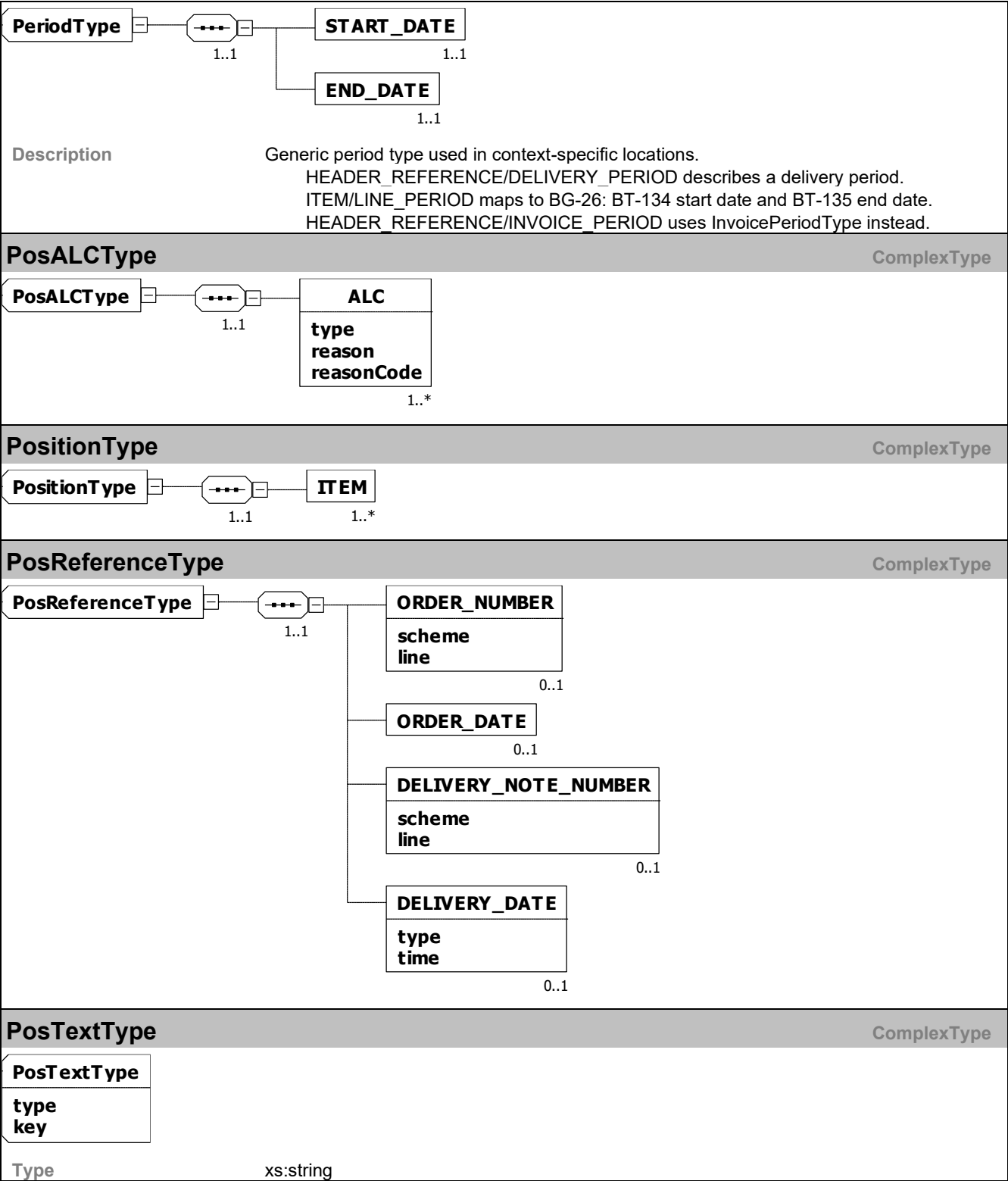
Multiple accounts can be provided (one main, others optional).

Example:
<PAYEE_ACCOUNT type="main">

<BANK_NAME>Deutsche Bank AG</BANK_NAME> <IBAN>DE89370400440532013000</IBAN> <BIC>DEUTDEFF</BIC> <ACCOUNT_HOLDER>Company GmbH</ACCOUNT_HOLDER> </PAYEE_ACCOUNT>	
Attributes	
type	Usage M Type PayeeAccountTypeEnum Description Account priority: "main" or "optional" • main - Primary payment account • optional - Alternative payment account Example: type="main"
PayeeAccountTypeEnum SimpleType	
Type	xs:string
Description	Account priority type. Values: • main - Primary/preferred payment account • optional - Alternative payment option
Codes Name/Description	
main	Primary payment account (mandatory)
optional	Alternative payment account (optional)
PaymentDueDateType ComplexType	
PaymentDueDateType days	
Type	DateType
Pattern	\d{4}-\d{2}-\d{2}
Description	Date in ISO 8601 format. Pattern: YYYY-MM-DD Base Type: xs:date with pattern restriction Valid Examples: • 2025-11-26 • 2025-01-01 • 2026-12-31 Invalid Examples: - X 26.11.2025 (German format) - X 11/26/2025 (US format) - X 2025-9-5 (leading zeros required) - X 26-11-2025 (wrong order) Usage: INVOICE_DATE, DUE_DATE, DELIVERY_DATE, TAX_POINT_DATE, etc. EN16931: BT-2, BT-9, BT-72, BT-7, and others

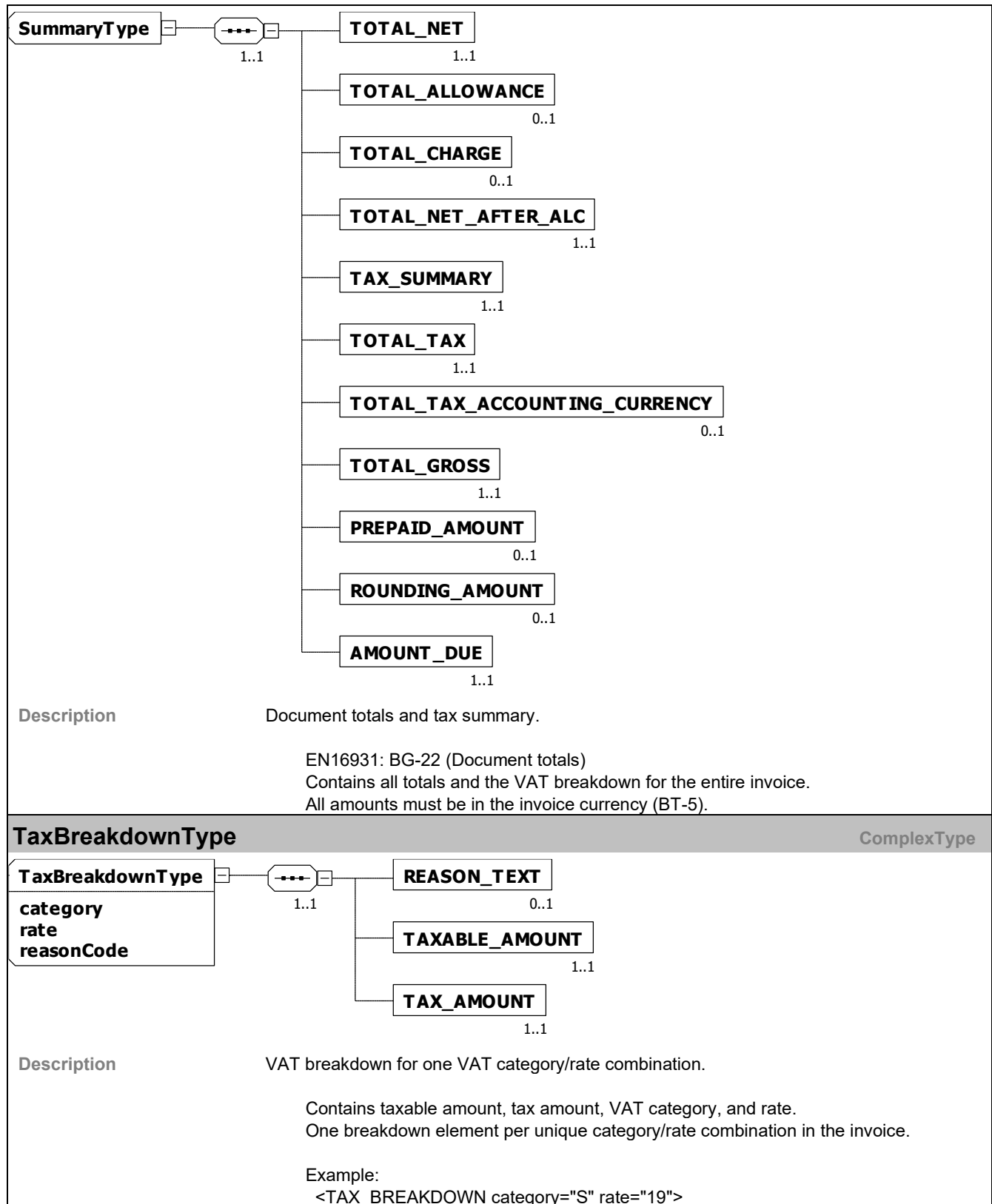


</PAYMENT_INSTRUCTIONS>	
PaymentMeansCodeType	
Type	xs:string
Codes	Name/Description
1	Instrument not defined
10	In cash
20	Cheque
30	Credit transfer
42	Payment to bank account
48	Bank card
49	Direct debit
54	Credit card
55	Debit card
57	Standing agreement
58	SEPA credit transfer
59	SEPA direct debit
68	Online payment service
97	Clearing between partners
PaymentTermsType	
ComplexType	
<pre> graph LR PT[PaymentTermsType 1..1] --- DUE_DATE[DUE_DATE 0..1] PT --- TERM_TEXT[TERM_TEXT 0..1] PT --- DISCOUNT[DISCOUNT 0..1] DUE_DATE --- days[days] </pre>	
Description	Payment terms and conditions. Contains due date, payment terms text, and optional cash discount. At least one element should be provided. Example: <pre> <PAYMENT_TERMS> <DUE_DATE>2026-02-28</DUE_DATE> <TERM_TEXT>Payment within 30 days net</TERM_TEXT> <DISCOUNT> <PERCENTAGE>2.0</PERCENTAGE> <DUE_DATE>2026-02-14</DUE_DATE> <TERM_TEXT>2% discount if paid within 14 days</TERM_TEXT> </DISCOUNT> </PAYMENT_TERMS> </pre>
PercentageType	
Type	xs:decimal
FractionDigits / TotalDigits	2 /
PeriodType	
ComplexType	



Attributes												
type	Usage	M										
	Type	xs:string										
key	Usage	O										
	Type	xs:string										
ProjectReferenceSchemeType		SimpleType										
Type	xs:string											
Codes		Name/Description										
buyer-assigned												
ProjectReferenceType		ComplexType										
ProjectReferenceType scheme												
Type	xs:string											
Attributes												
scheme	Usage	M										
	Type	ProjectReferenceSchemeType										
QuantityType		ComplexType										
QuantityType unit												
Type	xs:decimal											
Description	Quantity with unit of measure. EN16931: BT-129 (Invoiced quantity), BT-130 (Base quantity) Context mapping: ITEM/QUANTITY -> BT-129 Invoiced quantity; @unit is BT-130. ITEM/PRICE_BASIS -> BT-149 Item price base quantity; @unit is BT-150. ITEM/DELIVERED_QUANTITY -> RIF extension, not mapped to EN16931 core BT. Unit Codes: UNECE Recommendation No. 20 (140+ codes) Common Units: • C62 - Piece/Unit (default for countable items) • KGM - Kilogram (weight) • LTR - Litre (volume) • HUR - Hour (time/service) • MTR - Metre (length) • MTK - Square metre (area) • MTQ - Cubic metre (volume) • DAY - Day (time period) • TNE - Tonne/Metric ton Examples: <table><tr><td><QUANTITY unit="C62">100</QUANTITY></td><td>(100 pieces)</td></tr><tr><td><QUANTITY unit="KGM">25.5</QUANTITY></td><td>(25.5 kilograms)</td></tr><tr><td><QUANTITY unit="HUR">8.5</QUANTITY></td><td>(8.5 hours)</td></tr><tr><td><QUANTITY unit="LTR">150.0</QUANTITY></td><td>(150 litres)</td></tr><tr><td><QUANTITY unit="MTR">10.25</QUANTITY></td><td>(10.25 metres)</td></tr></table>		<QUANTITY unit="C62">100</QUANTITY>	(100 pieces)	<QUANTITY unit="KGM">25.5</QUANTITY>	(25.5 kilograms)	<QUANTITY unit="HUR">8.5</QUANTITY>	(8.5 hours)	<QUANTITY unit="LTR">150.0</QUANTITY>	(150 litres)	<QUANTITY unit="MTR">10.25</QUANTITY>	(10.25 metres)
<QUANTITY unit="C62">100</QUANTITY>	(100 pieces)											
<QUANTITY unit="KGM">25.5</QUANTITY>	(25.5 kilograms)											
<QUANTITY unit="HUR">8.5</QUANTITY>	(8.5 hours)											
<QUANTITY unit="LTR">150.0</QUANTITY>	(150 litres)											
<QUANTITY unit="MTR">10.25</QUANTITY>	(10.25 metres)											

Note: Decimal values allowed for precise measurements.		
Attributes		
unit	Usage Type	M UnitCodeType
ReceivingAdviceReferenceSchemeType		SimpleType
Type	xs:string	
Codes		Name/Description
buyer-assigned		
ReceivingAdviceReferenceType		ComplexType
ReceivingAdviceReferenceType scheme		
Type	xs:string	
Attributes		
scheme	Usage Type	M ReceivingAdviceReferenceSchemeType
SummaryType		ComplexType



<TAXABLE_AMOUNT>1000.00</TAXABLE_AMOUNT> <TAX_AMOUNT>190.00</TAX_AMOUNT> </TAX_BREAKDOWN>		
Attributes		
category	Usage M Type TaxCategoryCodeType Description BT-118: VAT category code (MANDATORY) UN/CEFACT UNTDID 5305 code. Common values: S - Standard rate Z - Zero rated E - Exempt AE - Reverse charge Example: category="S"	
rate	Usage M Type xs:decimal Description BT-119: VAT category rate (MANDATORY) VAT rate as percentage (0-100). Common rates: 19, 7 (Germany) 20, 5 (UK) 21, 9 (Netherlands) Example: rate="19"	
reasonCode	Usage O Type xs:string Description BT-121: VAT exemption reason code (CONDITIONAL) Code for VAT exemption reason. VATEX code list (EU). Required for certain VAT categories. Example: reasonCode="VATEX-EU-132"	
TaxCategoryCodeType		SimpleType
Type	xs:string	
Codes	Name/Description	
AE	VAT reverse charge	
B	Transferred VAT	
E	Exempt from tax	
G	Free export item, tax not charged	
K	VAT exempt for EEA intra-community supply of goods and services	
L	Canary Islands general indirect tax (IGIC)	
M	Tax for production, services and importation in Ceuta and Melilla (IPSI)	
O	Services outside scope of tax	
S	Standard rate	
Z	Zero rated goods with input tax deduction	
TaxPointCodeType		SimpleType
Type	xs:string	

Codes	Name/Description	
3	Invoice date	
35	Delivery date	
432	Paid to date	

TaxSummaryType		ComplexType
TaxSummaryType 1..1 TAX_BREAKDOWN category rate reasonCode 1..*		
Description	BG-23: VAT breakdown (MANDATORY) Contains breakdown of VAT by category and rate. At least one TAX_BREAKDOWN element required. Multiple breakdowns for different VAT rates/categories.	

TaxType		ComplexType
TaxType rate category		
Type	MoneyType	
FractionDigits / TotalDigits	2 /	
Description	VAT information with amount value plus @category and @rate. Context mapping: ITEM/TAX -> BT-151 VAT category and BT-152 VAT rate; element value is VAT amount. HEADER_ALC/ALC/TAX with ALLOWANCE -> BT-95 VAT category and BT-96 VAT rate. HEADER_ALC/ALC/TAX with CHARGE -> BT-102 VAT category and BT-103 VAT rate. POS_ALC/ALC/TAX -> RIF extension; line VAT is normally mapped via ITEM/TAX.	
Attributes		
rate	Usage	M
	Type	xs:decimal
category	Usage	M
	Type	TaxCategoryCodeType

TenderReferenceSchemeType		SimpleType
Type	xs:string	

Codes	Name/Description
buyer-assigned	

TenderReferenceType		ComplexType
TenderReferenceType scheme		
Type	xs:string	

Attributes	
scheme	Usage M Type TenderReferenceSchemeType
TimestampType	
Type	xs:dateTime
Pattern	\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}
Description	Timestamp in ISO 8601 format WITHOUT timezone. Pattern: YYYY-MM-DDTHH:MM:SS Base Type: xs:dateTime with pattern restriction Valid Examples: • 2025-11-26T15:00:00 • 2025-01-01T00:00:00 • 2026-12-31T23:59:59 Invalid Examples: - X 2025-11-26T15:00:00Z (timezone suffix not allowed) - X 2025-11-26 15:00:00 (space instead of T separator) - X 2025-9-5T15:0:0 (leading zeros required) - X 26.11.2025T15:00:00 (wrong date format) Usage: RIF_INVOIC/@timestamp, DOCUMENT/@timestamp
UnitCodeType	
Type	xs:string
Codes	Name/Description
2P	Kilobyte
4L	Megabyte
5I	Standard cubic foot
A53	Watt per kilogram
A9	Rate per unit
A90	Gigawatt hour
A97	Hectopascal
ACR	Acre
AD	Byte
AMP	Ampere
ANN	Year
ARE	Are (100 m²)
BAR	Bar
BG	Bag
BO	Bottle
BX	Box
C16	Millimetre per second
C55	Newton per square metre
C62	One (piece)
CA	Can
CEL	Degree Celsius
CLT	Centilitre
CMK	Square centimetre

Codes	Name/Description
CMQ	Cubic centimetre
CMT	Centimetre
CR	Crate
CS	Case
CT	Carton
CWA	Hundredweight (US)
CWI	Hundredweight (UK)
D33	Tesla
DAY	Day
DG	Decigram
DJ	Decagram
DLT	Decilitre
DMA	Cubic decametre
DMQ	Cubic decimetre
DPC	Dozen piece
DR	Drum
DTN	Decitonne (100 kg)
E34	Gigabyte
E35	Terabyte
EA	Each
FAH	Degree Fahrenheit
FOT	Foot
FTK	Square foot
FTQ	Cubic foot
G26	Stere (m ³)
GLI	Gallon (US)
GLL	Gallon (UK)
GRM	Gram
GRN	Grain
GRO	Gross
GWH	Gigawatt hour (1000 MWh)
H87	Piece - most common quantity unit in German invoices
HAR	Hectare
HLT	Hectolitre
HM	Mile per hour (statute mile)
HTZ	Hertz
HUR	Hour
INH	Inch
INK	Square inch
INQ	Cubic inch
KEL	Kelvin
KGM	Kilogram
KHZ	Kilohertz
KMH	Kilometre per hour
KMT	Kilometre
KNT	Knot
KT	Kit
KWH	Kilowatt hour
KWT	Kilowatt

Codes	Name/Description
LBR	Pound
LM	Linear metre
LPA	Litre of pure alcohol
LS	Lump sum
LTR	Litre
MGM	Milligram
MHZ	Megahertz
MIN	Minute
MLT	Millilitre
MMK	Square millimetre
MMT	Millimetre
MON	Month
MTK	Square metre
MTQ	Cubic metre
MTR	Metre
MTS	Metre per second
MWH	Megawatt hour
NAR	Number of articles
NIU	Number of international units
NPL	Number of packs
NPR	Number of pairs
OHM	Ohm
ONZ	Ounce
OZA	Fluid ounce (US)
OZI	Fluid ounce (UK)
PA	Packet
PCE	Piece (deprecated, use C62)
PK	Pack
PL	Pail
PR	Pair
PT	Pint (US)
PTI	Pint (UK)
Q3	Meal
QT	Quart (US)
RM	Ream
RO	Roll
SA	Sack
SEC	Second
SET	Set
SMI	Mile (statute mile)
STI	Stone (UK)
TNE	Tonne (metric ton)
VLТ	Volt
WEE	Week
WHR	Watt hour
YDK	Square yard
YDQ	Cubic yard
YRD	Yard
Z1	Manday

Codes	Name/Description	
Z3	Manmonth	
xs:date		SimpleType
xs:dateTime		SimpleType
xs:decimal		SimpleType
xs:integer		SimpleType
Type	xs:decimal	
FractionDigits / TotalDigits	0	/
xs:nonNegativeInteger		SimpleType
Type	xs:integer	
FractionDigits / TotalDigits	0	/
Inclusive	0	..
xs:string		SimpleType