



Message Implementation Guideline

## **ZUGFeRD v2.0**

outgoing invoice

Version: v1.1  
Issue date: 30.11.2020  
Author: BMW

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# Important notices

## FORMAT

An XSD file provided with XRechnung standard defines structure of the XRechnung UBL XML version 2.0 and data type attribute for each element. The XSD file does not define length limitation of the element value. For informational purposes format defines type and length or date mask of each element sent by BMW. Some of elements are listed in provided code lists. For elements limited by ISO code lists, references to the corresponding lists are added in code list properties.

## Change History

Changed Date for Release	Version	Change description	Element	Author
Go Live 25.03.2020	v1.0	MIG creation	CrossIndustryInvoice	BMW
Release2 30.11.2020	v1.1	Additional BMW Company Codes	BuyerTradeParty - ID	BMW

## Structur - ZUGFeRD 2.0

Cardinality	Element	Description	EN 16931-ID
	<b>CrossIndustryInvoice</b>	Invoice	
1..1 R	<b>ExchangedDocumentContext</b>	Process Control	BG-2
0..1 O	<b>TestIndicator</b>	Test indicator	
1..1 R	<b>Indicator</b>	Test indicator, value	
0..1 O	<b>BusinessProcessSpecifiedDocumentContextParameter</b>	Grouping of business context information	
0..1 O	<b>ID</b>	Business process, value	BT-23
1..1 R	<b>GuidelineSpecifiedDocumentContextParameter</b>	Grouping of application recommendation information	
1..1 R	<b>ID</b>	Specification Identifier	BT-24
1..1 R	<b>ExchangedDocument</b>	Grouping of characteristics that affect the entire document	
1..1 R	<b>ID</b>	Invoice Number	BT-1
1..1 R	<b>Name</b>	Document name (free text)	
1..1 R	<b>TypeCode</b>	Document name (Code)	BT-3
1..1 R	<b>IssueDateTime</b>	Invoice date	
1..1 R	<b>DateTimeString</b>	Invoice date, value	BT-2
required	<b>@format</b>	Date, format	BT-2-0
0..1	<b>CopyIndicator</b>		
1..1 R	<b>Indicator</b>	Copy indicator	
0..n O	<b>IncludedNote</b>	Free text on header level	BG-1
1..1 R	<b>Content</b>	Freetext on document level (Content)	BT-22
0..1 A	<b>SubjectCode</b>	Code for qualifying the free text for the invoice	BT-21
1..1 R	<b>SupplyChainTradeTransaction</b>	Grouping of information about the business transaction	
1..n R	<b>IncludedSupplyChainTradeLineItem</b>	Grouping of item information	BG-25
1..1 R	<b>AssociatedDocumentLineDocument</b>	Grouping of general information	
1..1 A	<b>LineID</b>	Line number	BT-126
0..99 O	<b>IncludedNote</b>	Details of free text relating to the item	
1..1 R	<b>Content</b>	Free text of the line item	BT-127
0..1 A	<b>SubjectCode</b>	Free text (Subject code)	
1..1 A	<b>SpecifiedTradeProduct</b>	Grouping of product or service information	BG-31
0..1 O	<b>SellerAssignedID</b>	Seller's article number	BT-155
0..1 O	<b>BuyerAssignedID</b>	buyer's article number	BT-156
1..1 R	<b>Name</b>	Article name	BT-153
0..n O	<b>ApplicableProductCharacteristic</b>	Details on product characteristics	BG-32
0..1 O	<b>TypeCode</b>	Type of product characteristic (Code)	
1..1 R	<b>Description</b>	Type of product characteristic (free text)	BT-160
1..1 R	<b>Value</b>	Value of product characteristic (text)	BT-161
0..n O	<b>DesignatedProductClassification</b>	Details on product classification	
1..1 R	<b>ClassCode</b>	Details on product classification	BT-158
required	<b>@listID</b>	Product classification name	BT-158-1
0..1 O	<b>ClassName</b>	Classification name	
0..1 D	<b>OriginTradeCountry</b>	Details of product origin	
1..1 R	<b>ID</b>	Country of origin (Code)	BT-159
1..1 R	<b>SpecifiedLineTradeAgreement</b>	Grouping of agreement information	BG-29
0..1 D	<b>BuyerOrderReferencedDocument</b>	Details on referenced order	
1..1 R	<b>IssuerAssignedID</b>	order Id / number	
0..1 O	<b>LineID</b>	reference to the order Item number	BT-132
0..1 O	<b>FormattedIssueDateTime</b>	Order date	
1..1 R	<b>DateTimeString</b>	Order date, value	
required	<b>@format</b>	Date, format	
0..n O	<b>AdditionalReferencedDocument</b>	Details on additional document references	
1..1 R	<b>IssuerAssignedID</b>	Document Id	
1..1 R	<b>TypeCode</b>	Document, code	
0..1 A	<b>GrossPriceProductTradePrice</b>	Details on gross price excluding taxes	
1..1 R	<b>ChargeAmount</b>	Gross price	BT-148
0..n O	<b>AppliedTradeAllowanceCharge</b>	Details on allowances and charges	
0..1 R	<b>ChargeIndicator</b>	Charge indicator	
1..1 R	<b>Indicator</b>	Charge indicator, Wert	
0..1 O	<b>CalculationPercent</b>	Allowance charge percent	
1..1 R	<b>ActualAmount</b>	Allowance or charge amount	BT-147
0..1 D	<b>Reason</b>	Reason for allowance or charge (free text)	

## Structur - ZUGFeRD 2.0

Cardinality	Element	Description	EN 16931-ID
1..1 R	<b>NetPriceProductTradePrice</b>	Details on net price without tax	
1..1 R	<b>ChargeAmount</b>	Net price	BT-146
1..1 R	<b>SpecifiedLineTradeDelivery</b>	Grouping on delivery information	
1..1 R	<b>BilledQuantity</b>	Billed quantity	BT-129
<i>required</i>	<b>@unitCode</b>	Measurement unit	BT-130
0..1 D	<b>ShipToTradeParty</b>	Details on the alternative ship to	
0..1 O	<b>ID</b>	Identification of ship to	
1..1 R	<b>Name</b>	(Company) name of ship to	
0..1 O	<b>DefinedTradeContact</b>	Details of the contact person	
0..1 D	<b>PersonName</b>	Name of the contact person	
0..1 D	<b>DepartmentName</b>	Department name	
0..1 O	<b>TelephoneUniversalCommunication</b>	Phone number	
1..1 R	<b>CompleteNumber</b>	Phone number, value	
0..1 O	<b>FaxUniversalCommunication</b>	Details of the fax number	
1..1 R	<b>CompleteNumber</b>	Fax number	
0..1 O	<b>EmailURIUniversalCommunication</b>	Details on email	
1..1 R	<b>URIID</b>	Email	
0..1 A	<b>PostalTradeAddress</b>	Details on address	
1..1 R	<b>PostcodeCode</b>	Postcode	
0..1 O	<b>LineOne</b>	Line one of address	
1..1 R	<b>CityName</b>	City	
1..1 A	<b>CountryID</b>	Country (Code)	
0..1 D	<b>ActualDeliverySupplyChainEvent</b>	Details on actual delivery	
1..1 R	<b>OccurrenceDateTime</b>	Actual date of delivery or date of service provision	
1..1 R	<b>DateTimeString</b>	Actual date of delivery or date of service provision, value	
<i>required</i>	<b>@format</b>	Date, format	
0..1 O	<b>ReceivingAdviceReferencedDocument</b>	Details on referenced receiving advice	
0..1 O	<b>IssuerAssignedID</b>	Goods receipt number	
0..1 O	<b>FormattedIssueDateTime</b>	Goods receipt date	
1..1 R	<b>DateTimeString</b>	Document date, value	
<i>required</i>	<b>@format</b>	Date, format	
0..1 O	<b>DeliveryNoteReferencedDocument</b>	Details on referenced delivery note	
0..1 O	<b>IssuerAssignedID</b>	Delivery Note Number, line item	
0..1 O	<b>FormattedIssueDateTime</b>	Document date	
1..1 R	<b>DateTimeString</b>	Delivery Note date, value	
<i>required</i>	<b>@format</b>	Date, format	
1..1 R	<b>SpecifiedLineTradeSettlement</b>	Grouping on settlement information	
1..n D	<b>ApplicableTradeTax</b>	Details on taxes	BG-30
1..1 R	<b>TypeCode</b>	Tax type (Code)	BT-151-0
0..1 D	<b>ExemptionReason</b>	Exemption reason (free text)	
1..1 R	<b>CategoryCode</b>	Tax category	BT-151
0..1 R	<b>RateApplicablePercent</b>	Tax percentage	BT-152
1..1 D	<b>SpecifiedTradeSettlementLineMonetary Summation</b>	Details on summation	
1..1 R	<b>LineTotalAmount</b>	Line total amount	BT-131
0..1 O	<b>TotalAllowanceChargeAmount</b>	Allowance and charge total	
1..1 R	<b>ApplicableHeaderTradeAgreement</b>	Grouping on trade agreement	
0..1 A	<b>BuyerReference</b>	Buyer reference	BT-10
1..1 R	<b>SellerTradeParty</b>	Seller (=beneficiary)	BG-4
1..1 R	<b>ID</b>	Supplier/seller number	BT-29
0..n A	<b>GlobalID</b>	Global identifier of the seller	BT-29-0
<i>required</i>	<b>@schemeID</b>	Type of global identifier	BT-29-1
1..1 R	<b>Name</b>	(Company) name of the seller	BT-27
0..1 O	<b>DefinedTradeContact</b>	Details on the seller's contact person	BG-6
0..1 D	<b>PersonName</b>	Contact person name	BT-41
0..1 D	<b>DepartmentName</b>	Department name	BT-41-0
0..1 O	<b>TelephoneUniversalCommunication</b>	Details of the phone number	
1..1 R	<b>CompleteNumber</b>	Phone number	BT-42
0..1 O	<b>FaxUniversalCommunication</b>	Details of the fax number	
1..1 R	<b>CompleteNumber</b>	Fax number	
0..1 O	<b>EmailURIUniversalCommunication</b>	Details on email	

## Structur - ZUGFeRD 2.0

Cardinality	Element	Description	EN 16931-ID
1..1 R	URIID	Email	BT-43
1..1 R	PostalTradeAddress	Details on address	BG-5
1..1 R	PostcodeCode	Postcode	BT-38
1..1 R	LineOne	Line one of address	BT-35
0..1 O	LineTwo	Line two	BT-36
1..1 R	CityName	City	BT-37
1..1 R	CountryID	Country (Code)	BT-40
0..1 O	CountrySubDivisionName	Country sub division	BT-39
0..n A	SpecifiedTaxRegistration	Tax registration details	
1..1 D	ID	(Local) tax Id	BT-31, BT-32
R		VAT Id	
required	@schemeID	Type of tax identifier	BT-31-0, BT-32-0
1..1 R	BuyerTradeParty	Buyer (=beneficiary)	BG-7
1..1 R	ID	Buyer number	BT-46
0..n A	GlobalID	Global identifier of the buyer	BT-46-0
required	@schemeID	Type of global identifier	BT-46-1
1..1 R	Name	Buyer company name	BT-44
0..1 O	DefinedTradeContact	Details on the buyer's contact person	BG-9
0..1 D	PersonName	Contact person name	BT-56
0..1 D	DepartmentName	Department name	BT-56-0
0..1 O	TelephoneUniversalCommunication	Details of the phone number	
1..1 R	CompleteNumber	Phone number	BT-57
0..1 O	FaxUniversalCommunication	Details of the fax number	
1..1 R	CompleteNumber	Fax number	
0..1 O	EmailURIUniversalCommunication	Details on email	
1..1 R	URIID	Email	BT-58
1..1 R	PostalTradeAddress	Details on buyer address	BG-8
1..1 R	PostcodeCode	Postcode buyer	BT-53
1..1 R	LineOne	Line one of address	BT-50
0..1 O	LineTwo	Line two	BT-51
1..1 R	CityName	City	BT-52
1..1 R	CountryID	Country (Code), buyer	BT-55
0..1 A	SpecifiedTaxRegistration	Tax registration details	
1..1 D	ID	(Local) tax Id	BT-48
R		VAT Id, buyer	
required	@schemeID	Type of tax identifier	BT-48-0
0..1 O	ApplicableTradeDeliveryTerms	Details on delivery terms	
1..1 R	DeliveryTypeCode	Delivery type (Code)	
0..1 A	BuyerOrderReferencedDocument	Details on corresponding order	
1..1 R	IssuerAssignedID	Order number	BT-13
0..1 O	FormattedIssueDateTime	Order date	
1..1 R	DateTimeString	Order date, value	
required	@format	Date, format	
1..1 R	ApplicableHeaderTradeDelivery	Grouping on delivery information	
0..1 D	ShipToTradeParty	ship to	BG-13
0..1 O	ID	Identification of ship to	BT-71
0..1 O	Name	(Company) name of ship to	BT-70
0..1 O	DefinedTradeContact	Details of the contact person	
0..1 D	PersonName	Name of the contact person	
0..1 D	DepartmentName	Department name	
0..1 O	TelephoneUniversalCommunication	Details of the phone number	
1..1 R	CompleteNumber	Phone number	
0..1 O	FaxUniversalCommunication	Details of the fax number	
1..1 R	CompleteNumber	Fax number	
0..1 O	EmailURIUniversalCommunication	Details on email	
1..1 R	URIID	Email	
0..1 O	PostalTradeAddress	Details on address	BG-15
0..1 A	PostcodeCode	Postcode	BT-78
0..1 A	LineOne	Line one of address	BT-75
0..1 O	LineTwo	Line two	BT-76
0..1 A	CityName	City	BT-77
1..1 R	CountryID	Country (Code)	BT-80

## Structur - ZUGFeRD 2.0

Cardinality	Element	Description	EN 16931-ID
0..1 O	<b>ShipFromTradeParty</b>	Identification of the alternative ship from	
0..n O	<b>ID</b>	Identification of ship from	
0..1 O	<b>Name</b>	(Company) name of the ship from	
0..1 O	<b>DefinedTradeContact</b>	Details of the contact person	
0..1 D	<b>PersonName</b>	Name of the contact person	
0..1 D	<b>DepartmentName</b>	Department name	
0..1 O	<b>TelephoneUniversalCommunication</b>	Details of the phone number	
1..1 R	<b>CompleteNumber</b>	Phone number	
0..1 O	<b>FaxUniversalCommunication</b>	Details of the fax number	
1..1 R	<b>CompleteNumber</b>	Fax number	
0..1 O	<b>EmailURIUniversalCommunication</b>	Details on email	
1..1 R	<b>URIID</b>	Email	
0..1 A	<b>PostalTradeAddress</b>	Details on address	
0..1 A	<b>PostcodeCode</b>	Postcode	
0..1 A	<b>LineOne</b>	Line one of address	
0..1 O	<b>LineTwo</b>	Line two	
0..1 A	<b>CityName</b>	City	
1..1 R	<b>CountryID</b>	Country (Code)	
1..1 R	<b>ActualDeliverySupplyChainEvent</b>	Details on actual delivery	
1..1 R	<b>OccurrenceDateTime</b>	Actual date of delivery of goods/provision of services	
1..1 R	<b>DateTimeString</b>	Actual date of delivery of goods/provision of services, value	BT-72
<i>required</i>	<b>@format</b>	Date, format	BT-72-0
1..1 R	<b>ApplicableHeaderTradeSettlement</b>	Grouping on settlement information	
0..1 D	<b>TaxCurrencyCode</b>	VAT accounting currency code	BT-6
1..1 R	<b>InvoiceCurrencyCode</b>	Invoice Currency	BT-5
0..1 O	<b>InvoiceeTradeParty</b>	Details on the alternative invoicee	
1..1 R	<b>ID</b>	Identification of the alternative invoicee	
0..n A	<b>GlobalID</b>	Global identifier	
<i>required</i>	<b>@schemeID</b>	Type of global identifier	
1..1 R	<b>Name</b>	(Company) name of the alternative invoicee	
0..1 O	<b>DefinedTradeContact</b>	Details of the contact person	
0..1 D	<b>PersonName</b>	Name of the contact person	
0..1 D	<b>DepartmentName</b>	Department name	
0..1 O	<b>TelephoneUniversalCommunication</b>	Details of the phone number	
1..1 R	<b>CompleteNumber</b>	Phone number	
0..1 O	<b>FaxUniversalCommunication</b>	Details of the fax number	
1..1 R	<b>CompleteNumber</b>	Fax number	
0..1 O	<b>EmailURIUniversalCommunication</b>	Details on email	
1..1 R	<b>URIID</b>	Email	
1..1 R	<b>PostalTradeAddress</b>	Details on address	
1..1 R	<b>PostcodeCode</b>	Postcode	
1..1 R	<b>LineOne</b>	Line one of address	
0..1 O	<b>LineTwo</b>	Line two	
1..1 R	<b>CityName</b>	City	
1..1 R	<b>CountryID</b>	Country (Code)	
0..1	<b>TaxApplicableTradeCurrencyExchange</b>		
1..1 R	<b>SourceCurrencyCode</b>	Invoice currency	
1..1 R	<b>TargetCurrencyCode</b>	Home Currency	
1..1 R	<b>ConversionRate</b>	Exchangerate	
0..1 O	<b>ConversionRateDateTime</b>	Exchange date	
1..1 R	<b>DateTimeString</b>	Exchangerate date	
<i>required</i>	<b>@format</b>	Date, format	
0..n O	<b>SpecifiedTradeSettlementPaymentMeans</b>	Details on payment means	BG-16
1..1 R	<b>TypeCode</b>	Payment means type (code)	BT-81
0..1 D	<b>Information</b>	Free text information on payment means	BT-82
0..1 D	<b>PayerPartyDebtorFinancialAccount</b>	Buyer's financial institution	
1..1 R	<b>IBANID</b>	IBAN	BG-19/BT-91
0..1 D	<b>PayeePartyCreditorFinancialAccount</b>	Seller's bank account	BG-17
0..1 D	<b>IBANID</b>	IBAN	BT-84
0..1 O	<b>AccountName</b>	Financial account name	BT-85

## Structur - ZUGFeRD 2.0

Cardinality	Element	Description	EN 16931-ID
0..1 D	<b>PayeeSpecifiedCreditorFinancialInstitution</b>	Seller's financial institution	
1..1 R	<b>BICID</b>	BIC	BT-86
1..n R	<b>ApplicableTradeTax</b>	Details on trade tax	BG-23
1..1 R	<b>CalculatedAmount</b>	Tax calculated amount	BT-117
1..1 R	<b>TypeCode</b>	Tax type (code)	BT-118-0
0..1 D	<b>ExemptionReason</b>	Exemption reason (free text)	BT-120
1..1 R	<b>BasisAmount</b>	Tax base amount	BT-116
0..1 O	<b>LineTotalBasisAmount</b>	Goods amount for tax rate	
1..1 R	<b>CategoryCode</b>	Tax category	BT-118
0..1 O	<b>RateApplicablePercent</b>	Tax rate percentage	BT-119
0..n D	<b>SpecifiedTradeAllowanceCharge</b>	Details on allowances and charges	BG-20, BG-21
1..1 R	<b>ChargeIndicator</b>	Charge indicator	BG-20-0, BG-21-0
1..1 R	<b>Indicator</b>	Charge indicator, value	BG-20-00, BG-21-00
0..1 O	<b>CalculationPercent</b>	Allowance Charge Percent	BT-94, BT-101
1..1 R	<b>ActualAmount</b>	Allowance or charge actual amount	BT-92
0..1 O	<b>ReasonCode</b>	Reason for allowance or charge (Code)	BT-98, BT-105
0..1 O	<b>Reason</b>	Reason for allowance or charge (free text)	BT-97
1..1 R	<b>CategoryTradeTax</b>	Details of tax information	
1..1 R	<b>TypeCode</b>	Tax type (Code)	BT-95-0
1..1 R	<b>CategoryCode</b>	Tax category	BT-102-0
0..1 D	<b>RateApplicablePercent</b>	Tax rate percentage	BT-95
0..n O	<b>SpecifiedLogisticsServiceCharge</b>	Details on logistics service charges	BT-102
1..1 R	<b>Description</b>	Service charge ID	BT-96, BT-103
1..1 R	<b>AppliedAmount</b>	Service charge amount	
0..n D	<b>AppliedTradeTax</b>	Details on taxes	
0..1 O	<b>TypeCode</b>	Tax type (Code)	
1..1 R	<b>CategoryCode</b>	Tax category	
1..1 R	<b>RateApplicablePercent</b>	Tax rate percentage	
0..n D	<b>SpecifiedTradePaymentTerms</b>	Details on payment terms	
0..1 D	<b>Description</b>	Free text of the payment terms	BT-20
0..1 D	<b>DueDateDateTime</b>	Due date	
1..1 R	<b>DateTimeString</b>	Due date, value	BT-9
<i>required</i>	<b>@format</b>	Date, format	BT-9-0
1..1 R	<b>SpecifiedTradeSettlementHeaderMonetarySummation</b>	Details of document totals	BG-22
1..1 R	<b>LineTotalAmount</b>	Line total amount	BT-106
0..1 O	<b>ChargeTotalAmount</b>	Charge total amount, document level	BT-108
0..1 O	<b>AllowanceTotalAmount</b>	Allowance total amount, document level	BT-107
1..2 R	<b>TaxBasisTotalAmount</b>	Tax basis total amount	BT-109
	<b>@currencyID</b>	Currency (code)	
1..2 R	<b>TaxTotalAmount</b>	Tax total amount	BT-110, BT-111
<i>required</i>	<b>@currencyID</b>	Currency	BT-110-0, BT-111-0
1..2 R	<b>GrandTotalAmount</b>	Grand total	BT-112
	<b>@currencyID</b>	Currency (code)	
0..1 D	<b>TotalPrepaidAmount</b>	Total prepaid amount	BT-113
1..1 R	<b>DuePayableAmount</b>	Due payable amount	BT-115
0..1 D	<b>InvoiceReferencedDocument</b>	Details on referenced invoice	BG-3
1..1 R	<b>IssuerAssignedID</b>	Invoice number previous document	BT-25

## Details - ZUGFeRD 2.0 schema

### CrossIndustryInvoice

#### ExchangedDocumentContext

Process Control

Status: **R**  
 Path: *CrossIndustryInvoice/ExchangedDocumentContext*  
 Data Type: ram:ExchangedDocumentContextType  
 Synonym: Grouping of message based properties  
 Cardinality: 1..1  
 EN 16931-ID: BG-2  
 Note: An aggregation of business terms containing information about the business process regarding the rules which are applicable to the invoicing document.

Comfort: X

Extended: X

#### TestIndicator

Test indicator

Status: **O**  
 Path: *CrossIndustryInvoice/ExchangedDocumentContext/TestIndicator*  
 Data Type: udt:IndicatorType  
 Cardinality: 0..1  
 Remark: The Indicator type may be used when implementing a new system in order to mark the invoice as „trial invoice“.

Extended: X

#### Indicator

Test indicator, value

Status: **R**  
 Path: *CrossIndustryInvoice/ExchangedDocumentContext/TestIndicator/Indicator*  
 Data Type: xs:boolean  
 Cardinality: 1..1  
 Usage: true = test invoice  
       false = production invoice  
 Remark: The Indicator type may be used when implementing a new system in order to mark the invoice as „trial invoice“.

Example true

Extended: X

#### BusinessProcessSpecifiedDocumentContextParameter

Grouping of business context information

Status: **O**  
 Path: *CrossIndustryInvoice/ExchangedDocumentContext/BusinessProcessSpecifiedDocumentContextParameter*  
 Data Type: ram:DocumentContextParameterType  
 Synonym: Grouping of business process information.  
 Cardinality: 0..1

Comfort: X

Extended: X

#### ID

Business process, value

Status: **O**  
 Path: *CrossIndustryInvoice/ExchangedDocumentContext/BusinessProcessSpecifiedDocumentContextParameter/ID*  
 Data Type: udt:IDType  
 Synonym: Invoice process  
 Cardinality: 0..1  
 Remark: These data make it possible to define the purpose of the settlement (invoice of the authorised person, contractual partner, subcontractor, settlement document for a building contract etc.).  
 EN 16931-ID: BT-23  
 Note: Identifies the context of a business process where the transaction is taking place, thus allowing the buyer to process the invoice in an appropriate manner.  
 Example SBI

## Details - ZUGFeRD 2.0 schema

Comfort: X

Extended: X

### Codelist:

Allowed codes:	Code	Codename
	BPO	Bank posting
	BTS	Business trip settlement
	CAN	Cancellation
	CDN	Credit or Debit note
	CNS	Cantine settlement
	FCN	freight credit notes
	FCS	Fix cost settlement
	GUA	Gurantee
	GUF	Gurantee
	INF	Information letter
	LTS	Literatur settlement
	MMS	Maintenance material settlement
	REV	Revaluation
	SBI	Self-billing invoice
	VHS	Vehicle settlement

### GuidelineSpecifiedDocumentContextParameter

Grouping of application recommendation information

Status: **R**

Path: *CrossIndustryInvoice/ExchangedDocumentContext/*  
*GuidelineSpecifiedDocumentContextParameter*

Data Type: ram:DocumentContextParameterType

Cardinality: 1..1

Comfort: X

Extended: X

### ID

Specification Identifier

Status: **R**

Path: *CrossIndustryInvoice/ExchangedDocumentContext/*  
*GuidelineSpecifiedDocumentContextParameter/ID*

Data Type: udt:IDType

Length: 1 ...

Cardinality: 1..1

Usage: For Zugferd v2.0 "urn:cen.eu:en16931:2017#conformant#urn:invoice.de:2p0:extended" will be sent

Remark: BMW sends only invoices with Extended profile.  
Here, either compliance or conformance of the instance is expressed.

EN 16931-ID: BT-24

Note: The identification of the specification which contains the entire set of rules for the semantic content, for the cardinalities and for the business rules, and with which the rules contained in the instance document are conformant.

Example: urn:cen.eu:en16931:2017#conformant#urn:invoice.de:2p0:extended

Comfort: X

Extended: X

### ExchangedDocument

Grouping of characteristics that affect the entire document

Status: **R**

Path: *CrossIndustryInvoice/ExchangedDocument*

Data Type: ram:ExchangedDocumentType

Cardinality: 1..1

Comfort: X

Extended: X

## Details - ZUGFeRD 2.0 schema

ID		Invoice Number
Status: R		
Path: CrossIndustryInvoice/ExchangedDocument/ID		
Data Type: udt:IDType		
Length: 1 ... 16		
Cardinality: 1..1		
Remark: The continuous number as requested in accordance with artikel 226 (2) of the directive 2006/112/EG. It is issued once only to identify the invoice within the business context, the time frame, the operating systems as well as the recordings by the seller. It may consist of one or more number sequences which also may contain alpha-numeric characters. An identification scheme must not be used.		
EN 16931-ID: BT-1		
Note: A unique Identifier for the invoice.		
Example 7412B123456789		
Comfort: X		
Extended: X		
Name		Document name (free text)
Status: R		
Path: CrossIndustryInvoice/ExchangedDocument/Name		
Data Type: udt:TextType		
Cardinality: 1..1		
Example INVOICE		
Extended: X		
TypeCode		Document name (Code)
Status: R		
Path: CrossIndustryInvoice/ExchangedDocument/TypeCode		
Data Type: qdt:DocumentCodeType		
Cardinality: 1..1		
Usage: -		
BMW use additional codes compared to the ZUGFeRD recommendation		
EN 16931-ID: BT-3		
Example 389		
Comfort: X		
Extended: X		
Codelist: UNTDID 1001		
Allowed codes:		
Code	Codename	
261	Self billed credit note	
295	Price variation invoice	
296	Credit note for price variation	
380	Commercial invoice	
381	Credit note	
383	Debit note	
389	Self-billed invoice	
527	Self billed debit note	
IssueDateTime		Invoice date
Status: R		
Path: CrossIndustryInvoice/ExchangedDocument/IssueDateTime		
Data Type: udt:DateTimeType		
Cardinality: 1..1		
Comfort: X		
Extended: X		

## Details - ZUGFeRD 2.0 schema

<b>DateTimeString</b>		Invoice date, value						
Status: <b>R</b>								
Path: <i>CrossIndustryInvoice/ExchangedDocument/IssueDateTime/DateTimeString</i>								
Data Type: extension (xsd:string)								
Length: 1 ...								
Synonym: Invoice Date, Value								
Cardinality: 1..1								
Remark: 20171014								
EN 16931-ID: BT-2								
Note: The date the invoice was issued.								
Comfort: X								
Extended: X								
<b>format</b>		Date, format						
Status: <b>R</b>								
Path: <i>CrossIndustryInvoice/ExchangedDocument/IssueDateTime/DateTimeString/@format</i>								
Data Type: xs:string								
Use: required								
EN 16931-ID: BT-2-0								
Example 102								
Comfort: X								
Extended: X								
<b>Codelist:</b> UNTDID 2379								
<table><tr><td><b>Allowed codes:</b></td><td><i>Code</i></td><td><i>Codename</i></td></tr><tr><td></td><td>102</td><td>CCYYMMDD</td></tr></table>			<b>Allowed codes:</b>	<i>Code</i>	<i>Codename</i>		102	CCYYMMDD
<b>Allowed codes:</b>	<i>Code</i>	<i>Codename</i>						
	102	CCYYMMDD						
<b>CopyIndicator</b>								
Path: <i>CrossIndustryInvoice/ExchangedDocument/CopyIndicator</i>								
Data Type: udt:IndicatorType								
Cardinality: 0..1								
Extended: X								
<b>Indicator</b>		Copy indicator						
Status: <b>R</b>								
Path: <i>CrossIndustryInvoice/ExchangedDocument/CopyIndicator/Indicator</i>								
Data Type: xs:boolean								
Cardinality: 1..1								
Note: true = copy false = original								
Example false								
Extended: X								
<b>IncludedNote</b>		Free text on header level						
Status: <b>O</b>								
Path: <i>CrossIndustryInvoice/ExchangedDocument/IncludedNote</i>								
Data Type: ram:NoteType								
Synonym: Free text at document level								
Cardinality: 0..n								
EN 16931-ID: BG-1								
Note: An aggregation of business terms to disclose free text which is invoice-relevant, as well as their qualification.								
Comfort: X								
Extended: X								

## Details - ZUGFeRD 2.0 schema

### Content

Freetext on document level (Content)

Status: **R**  
 Path: *CrossIndustryInvoice/ExchangedDocument/IncludedNote/Content*  
 Data Type: udt:TextType  
 Length: 1 ...  
 Synonym: Freetext on document level (Content)  
 Cardinality: 1..1  
 Remark: For instance, the reason for a correction or a memorandum of allocation if an invoice has been consigned to a factoring procedure.  
 EN 16931-ID: BT-22  
 Note: A free text containing unstructured information which is relevant for the invoice as a whole.  
 Example: As confirmed by Jon Doe, Allowances will be applied later.

Comfort: X

Extended: X

### SubjectCode

Code for qualifying the free text for the invoice

Status: **A**  
 Path: *CrossIndustryInvoice/ExchangedDocument/IncludedNote/SubjectCode*  
 Data Type: udt:CodeType  
 Synonym: Free text at document level (Qualifying the type of text)  
 Cardinality: 0..1  
 Usage: The following codes are recommended:  
 AAI : General information  
 SUR : Comments by the seller  
 REG : Regulatory information  
 ABL : Legal information  
 TXD : Information about tax  
 CUS : Customs information  
 Remark: To be selected from UNTDID 4451.  
 EN 16931-ID: BT-21  
 Note: The qualification of the free text of an invoice of BT-22  
 Example: REG

Comfort: X

Extended: X

### SupplyChainTradeTransaction

Grouping of information about the business transaction

Status: **R**  
 Path: *CrossIndustryInvoice/SupplyChainTradeTransaction*  
 Data Type: ram:SupplyChainTradeTransactionType  
 Cardinality: 1..1

Comfort: X

Extended: X

### IncludedSupplyChainTradeLineItem

Grouping of item information

Status: **R**  
 Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/IncludedSupplyChainTradeLineItem*  
 Data Type: ram:SupplyChainTradeLineItemType  
 Synonym: Aggregation of positionings  
 Cardinality: 1..n  
 EN 16931-ID: BG-25  
 Note: An aggregation of business terms containing information about individual invoice positions

Comfort: X

Extended: X

## Details - ZUGFeRD 2.0 schema

<b>AssociatedDocumentLineDocument</b>		Grouping of general information
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/IncludedSupplyChainTradeLineItem/AssociatedDocumentLineDocument</i> Data Type: ram:DocumentLineDocumentType Cardinality: 1..1 Comfort: X Extended: X		
<b>LineID</b>		Line number
Status: <b>A</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/IncludedSupplyChainTradeLineItem/AssociatedDocumentLineDocument/LineID</i> Data Type: udt:IDType Length: 1 ... 5 Cardinality: 1..1 EN 16931-ID: BT-126 Note: An unambiguous identifier for the respective position within the invoice Example 1 Comfort: X Extended: X		
<b>IncludedNote</b>		Details of free text relating to the item
Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/IncludedSupplyChainTradeLineItem/AssociatedDocumentLineDocument/IncludedNote</i> Data Type: ram:NoteType Cardinality: 0..99 Comfort: X Extended: X		
<b>Content</b>		Free text of the line item
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/IncludedSupplyChainTradeLineItem/AssociatedDocumentLineDocument/IncludedNote/Content</i> Data Type: udt:TextType Length: 1 ... 250 Synonym: Free text on positioning Cardinality: 1..1 EN 16931-ID: BT-127 Note: A free text containing unstructured information which is relevant for the positioning of invoice items Comfort: X Extended: X		
<b>SubjectCode</b>		Free text (Subject code)
Status: <b>A</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/IncludedSupplyChainTradeLineItem/AssociatedDocumentLineDocument/IncludedNote/SubjectCode</i> Data Type: udt:CodeType Cardinality: 0..1 Usage: The following codes are recommended: AAI : General information SUR : Comments by the seller REG : Regulatory information ABL : Legal information TXD : Information about tax CUS : Customs information Example AAI		

## Details - ZUGFeRD 2.0 schema

Extended: X	
<b>SpecifiedTradeProduct</b>	Grouping of product or service information
Status: <b>A</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/IncludedSupplyChainTradeLineItem/SpecifiedTradeProduct</i> Data Type: ram:TradeProductType Synonym: Grouping of information about the product or the service provided Cardinality: 1..1 EN 16931-ID: BG-31 Note: A group of business terms that contains information about the goods and services invoiced	
Comfort: X	
Extended: X	
<b>SellerAssignedID</b>	Seller's article number
Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/IncludedSupplyChainTradeLineItem/SpecifiedTradeProduct/SellerAssignedID</i> Data Type: udt:IDType Cardinality: 0..1 EN 16931-ID: BT-155 Note: Information directly relating to the identification of an article by the sellers identification system. Note: The term article is synonymous to the term item. In the global joint automotive guidelines the term article is used. Example 1LE1504-1EB43-4AB4	
Comfort: X	
Extended: X	
<b>BuyerAssignedID</b>	buyer's article number
Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/IncludedSupplyChainTradeLineItem/SpecifiedTradeProduct/BuyerAssignedID</i> Data Type: udt:IDType Length: 1 ... 20 Cardinality: 0..1 Remark: The identifier of the product is a unique, bilaterally agreed number of the product. It can, for example, be a customer item number or reference to the manufacturers part number. EN 16931-ID: BT-156 Example 1234567-12	
Comfort: X	
Extended: X	
<b>Name</b>	Article name
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/IncludedSupplyChainTradeLineItem/SpecifiedTradeProduct/Name</i> Data Type: udt:TextType Length: 1 ... 250 Cardinality: 1..1 EN 16931-ID: BT-153 Example SIMOTICS SD 1LE15 IEC-LV-MOTOR IE4	
Comfort: X	
Extended: X	

## Details - ZUGFeRD 2.0 schema

<b>ApplicableProductCharacteristic</b>	Details on product characteristics
Status: <span style="color: red;">O</span> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedTradeProduct/ ApplicableProductCharacteristic</i> Data Type: ram:ProductCharacteristicType Cardinality: 0..n EN 16931-ID: BG-32	
Comfort: X Extended: X	
<b>TypeCode</b>	Type of product characteristic (Code)
Status: <span style="color: red;">O</span> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedTradeProduct/ ApplicableProductCharacteristic/TypeCode</i> Data Type: udt:CodeType Cardinality: 0..1 Usage: BMW is sending the code "KIND_OF_ARTICLE" Example KIND_OF_ARTICLE	
Extended: X	
<b>Description</b>	Type of product characteristic (free text)
Status: <span style="color: red;">R</span> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedTradeProduct/ ApplicableProductCharacteristic/Description</i> Data Type: udt:TextType Length: 1 ... Cardinality: 1..1 EN 16931-ID: BT-160 Example Zylinder	
Comfort: X Extended: X	
<b>Value</b>	Value of product characteristic (text)
Status: <span style="color: red;">R</span> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedTradeProduct/ ApplicableProductCharacteristic/Value</i> Data Type: udt:TextType Length: 1 ... Cardinality: 1..1 EN 16931-ID: BT-161 Example 6	
Comfort: X Extended: X	
<b>DesignatedProductClassification</b>	Details on product classification
Status: <span style="color: red;">O</span> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedTradeProduct/ DesignatedProductClassification</i> Data Type: ram:ProductClassificationType Cardinality: 0..n	
Comfort: X Extended: X	

## Details - ZUGFeRD 2.0 schema

### ClassCode

[Details on product classification](#)

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedTradeProduct/  
DesignatedProductClassification/ClassCode*

Data Type: udt:CodeType

Synonym: customTariffCode (HS), SPAP Order Number (PO), part family (PD), VIN (PD)

Cardinality: 1..1

EN 16931-ID: BT-158

Example 10000159

Comfort: X

Extended: X

### listID

[Product classification name](#)

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedTradeProduct/  
DesignatedProductClassification/ClassCode/@listID*

Data Type: xs:token

Use: required

EN 16931-ID: BT-158-1

Example HS

Comfort: X

Extended: X

**Codelist:** UNTDID 7143

**Allowed codes:** Code Codename

HS

PD

PO

### ClassName

[Classification name](#)

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedTradeProduct/  
DesignatedProductClassification/ClassName*

Data Type: udt:TextType

Cardinality: 0..1

Usage: possible names:  
customTariffCode, SPAP partFamily, VINCode, SPAP partFamily

Example customTariffCode

Extended: X

### OriginTradeCountry

[Details of product origin](#)

Status: **D**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedTradeProduct/OriginTradeCountry*

Data Type: ram:TradeCountryType

Cardinality: 0..1

Usage: Must be sent only if this information is required by law.

Comfort: X

Extended: X

## Details - ZUGFeRD 2.0 schema

ID	Country of origin (Code)
<p>Status: <b>R</b></p> <p>Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/IncludedSupplyChainTradeLineItem/SpecifiedTradeProduct/OriginTradeCountry/ID</i></p> <p>Data Type: qdt:CountryIDType</p> <p>Length: 2 ... 2</p> <p>Cardinality: 1..1</p> <p>Usage: ISO 3166-1</p> <p>EN 16931-ID: BT-159</p>	
Example DE	
Comfort: X	
Extended: X	
SpecifiedLineTradeAgreement	Grouping of agreement information
<p>Status: <b>R</b></p> <p>Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/IncludedSupplyChainTradeLineItem/SpecifiedLineTradeAgreement</i></p> <p>Data Type: ram:LineTradeAgreementType</p> <p>Cardinality: 1..1</p> <p>EN 16931-ID: BG-29</p>	
Comfort: X	
Extended: X	
BuyerOrderReferencedDocument	Details on referenced order
<p>Status: <b>D</b></p> <p>Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/IncludedSupplyChainTradeLineItem/SpecifiedLineTradeAgreement/BuyerOrderReferencedDocument</i></p> <p>Data Type: ram:ReferencedDocumentType</p> <p>Cardinality: 0..1</p>	
Comfort: X	
Extended: X	
IssuerAssignedID	order Id / number
<p>Status: <b>R</b></p> <p>Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/IncludedSupplyChainTradeLineItem/SpecifiedLineTradeAgreement/BuyerOrderReferencedDocument/IssuerAssignedID</i></p> <p>Data Type: udt:IDType</p> <p>Length: 1 ... 16</p> <p>Cardinality: 1..1</p> <p>Example F37PNPF</p>	
Extended: X	
LineID	reference to the order Item number
<p>Status: <b>O</b></p> <p>Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/IncludedSupplyChainTradeLineItem/SpecifiedLineTradeAgreement/BuyerOrderReferencedDocument/LineID</i></p> <p>Data Type: udt:IDType</p> <p>Length: 1 ... 5</p> <p>Synonym: order item number</p> <p>Cardinality: 0..1</p> <p>Remark: Reference to the order reference is made at the document level.</p> <p>EN 16931-ID: BT-132</p> <p>Note: An identifier for a position within an order made by the buyer</p>	
Example 1	
Comfort: X	
Extended: X	

## Details - ZUGFeRD 2.0 schema

<b>FormattedIssueDateTime</b>	Order date						
Status: <span style="color: red;">O</span> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeAgreement/ BuyerOrderReferencedDocument/FormattedIssueDateTime</i> Data Type: qdt:FormattedDateTimeType Cardinality: 0..1 Extended: X							
<b>DateTimeString</b>	Order date, value						
Status: <span style="color: red;">R</span> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeAgreement/ BuyerOrderReferencedDocument/FormattedIssueDateTime/DateTimeString</i> Data Type: extension (xsd:string) Length: 1 ... Cardinality: 1..1 Example 20200101 Extended: X							
<b>format</b>	Date, format						
Status: <span style="color: red;">R</span> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeAgreement/ BuyerOrderReferencedDocument/FormattedIssueDateTime/DateTimeString/@format</i> Data Type: qdt:FormattedDateTimeFormatContentType Use: required Example 102 Extended: X							
<b>Codelist:</b> UNTDID 2379							
<table><tr><td><b>Allowed codes:</b></td><td>Code</td><td>Codename</td></tr><tr><td></td><td>102</td><td>CCYYMMDD</td></tr></table>		<b>Allowed codes:</b>	Code	Codename		102	CCYYMMDD
<b>Allowed codes:</b>	Code	Codename					
	102	CCYYMMDD					
<b>AdditionalReferencedDocument</b>	Details on additional document references						
Status: <span style="color: red;">O</span> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeAgreement/ AdditionalReferencedDocument</i> Data Type: ram:ReferencedDocumentType Cardinality: 0..n Extended: X							
<b>IssuerAssignedID</b>	Document Id						
Status: <span style="color: red;">R</span> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeAgreement/ AdditionalReferencedDocument/IssuerAssignedID</i> Data Type: udt:IDType Length: 1 ... Synonym: BMW reference number Cardinality: 1..1 Extended: X							
<b>TypeCode</b>	Document, code						
Status: <span style="color: red;">R</span> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeAgreement/ AdditionalReferencedDocument/TypeCode</i> Data Type: qdt:DocumentCodeType Cardinality: 1..1 Example 130 Extended: X							

## Details - ZUGFeRD 2.0 schema

### GrossPriceProductTradePrice

Details on gross price excluding taxes

Status: **A**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedLineTradeAgreement/  
GrossPriceProductTradePrice*

Data Type: ram:TradePriceType

Cardinality: 0..1

Comfort: X

Extended: X

### ChargeAmount

Gross price

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedLineTradeAgreement/  
GrossPriceProductTradePrice/ChargeAmount*

Data Type: udt:AmountType

Cardinality: 1..1

Remark: Gross and net price always have to be used.

EN 16931-ID: BT-148

Example 2580.28

Comfort: X

Extended: X

### AppliedTradeAllowanceCharge

Details on allowances and charges

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedLineTradeAgreement/  
GrossPriceProductTradePrice/AppliedTradeAllowanceCharge*

Data Type: ram:TradeAllowanceChargeType

Cardinality: 0..n

Note: In principle, invoice in the automotive industry have to include the last price including all allowances and charges related to the line item. Other allowances / charges shall not be used. They are either incorporated in the net price or represented as a separate line item. In the EN 16931 and the German implementation, the XRechnung, the options are somewhat wider: Every line item has to state the net price, which is calculated as gross price minus price allowances per price unit. Beside this there can be allowances and charges as lump sum or percentage which are related to the product net price \* invoiced quantity. Since there is the intention to accept invoices compliant to the EU norm, this guideline allows to use Allowance/Charge for this purpose.

Comfort: X

Extended: X

### ChargeIndicator

Charge indicator

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedLineTradeAgreement/  
GrossPriceProductTradePrice/AppliedTradeAllowanceCharge/ChargeIndicator*

Data Type: udt:IndicatorType

Cardinality: 0..1

Extended: X

Comfort: X

### Indicator

Charge indicator, Wert

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedLineTradeAgreement/  
GrossPriceProductTradePrice/AppliedTradeAllowanceCharge/ChargeIndicator/Indicator*

Data Type: xs:boolean

Cardinality: 1..1

Usage: EN 16931: false = allowance

Extended: false = allowance and true = charge

Example false

## Details - ZUGFeRD 2.0 schema

Extended: X Comfort: X	
<b>CalculationPercent</b>	Allowance charge percent
Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeAgreement/ GrossPriceProductTradePrice/AppliedTradeAllowanceCharge/CalculationPercent</i> Data Type: udt:PercentType Cardinality: 0..1 Remark: Up to level COMFORT only the calculation result ist given (Actual.Amount). Example 8.00	
Extended: X	
<b>ActualAmount</b>	Allowance or charge amount
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeAgreement/ GrossPriceProductTradePrice/AppliedTradeAllowanceCharge/ActualAmount</i> Data Type: udt:AmountType Synonym: Amount of the charge / discount Cardinality: 1..1 Remark: Only applies if the discount is given per unit and is not included in the gross price. EN 16931-ID: BT-147 Note: The total discount subtracted from the gross price to calculate the net price Example 206.42	
Comfort: X Extended: X	
<b>Reason</b>	Reason for allowance or charge (free text)
Status: <b>D</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeAgreement/ GrossPriceProductTradePrice/AppliedTradeAllowanceCharge/Reason</i> Data Type: udt:TextType Length: 1 ... Cardinality: 0..1 Example Allowance	
Extended: X	
<b>NetPriceProductTradePrice</b>	Details on net price without tax
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeAgreement/ NetPriceProductTradePrice</i> Data Type: ram:TradePriceType Cardinality: 1..1 Remark: The net prices included all allowances and charges, but no taxes.	
Comfort: X Extended: X	
<b>ChargeAmount</b>	Net price
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeAgreement/ NetPriceProductTradePrice/ChargeAmount</i> Data Type: udt:AmountType Cardinality: 1..1 Remark: Net and gross price must always be used. EN 16931-ID: BT-146 Example 2373.86	

## Details - ZUGFeRD 2.0 schema

	Comfort: X	
	Extended: X	
SpecifiedLineTradeDelivery		Grouping on delivery information
	Status: R	
	Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery</i>	
	Data Type: ram:LineTradeDeliveryType	
	Cardinality: 1..1	
	Comfort: X	
	Extended: X	
BilledQuantity		Billed quantity
	Status: R	
	Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/BilledQuantity</i>	
	Data Type: udt:QuantityType	
	Synonym: Invoiced quantity	
	Cardinality: 1..1	
	EN 16931-ID: BT-129	
	Example 1.00	
	Comfort: X	
	Extended: X	

## Details - ZUGFeRD 2.0 schema

### unitCode

Measurement unit

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/BilledQuantity/  
@unitCode*

Data Type: xs:token

Usage: In particular this codes can be used

C62 one (piece)  
PCE piece  
DAY day  
HAR hectare  
HUR hour  
KGM kilogram  
KTM kilometre  
KWH kilowatt hour  
LS lump sum  
LTR litre  
MIN minute  
MMK square millimetre  
MMT millimetre  
MTK square metre  
MTQ cubic metre  
MTR metre  
NAR number of articles  
NPR number of pairs  
SET set  
TNE tonne (metric ton)  
WEE week

Remark: The unit of measurement must be from the lists in UN / ECE Recommendation No. 20 "Codes for Units of Measure Used in International Trade" and UN / ECE Recommendation No. 21 "Codes for Passengers, Types of Cargo, Packages and Packaging Materials (with Complementary Codes for Package Names)" using the UN / ECE Rec No. 20 intro 2.a) selected procedure. Please noted that in most cases it is not necessary for buyers and sellers to fully implement these lists in their software. Sellers only need to support the units necessary for their goods and services; Buyers only need to verify that the units used in the invoice match the units used in other documents (such as contracts, catalogs, orders, and shipping notifications).

**BMW uses only some unit of measure codes**

Use: required

EN 16931-ID: BT-130

Note: The unit of measurement that applies to the amount invoiced

Example: C62

Comfort: X

Extended: X

### ShipToTradeParty

Details on the alternative ship to

Status: **D**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/ShipToTradeParty*

Data Type: ram:TradePartyType

Cardinality: 0..1

Extended: X

## Details - ZUGFeRD 2.0 schema

ID

Identification of ship to

Status: O

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/*

*IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/ShipToTradeParty/ID*

Data Type: udt:IDType

Length: 2 ... 2

Cardinality: 0..1

Usage: BMW is sending different plant codes compared to VDA4905 / VDA4913.

Following codelist is for your reference: New code <-> Old code

Example A120

Extended: X

Codelist:

Allowed codes:	Code	Codename
	A1	001
	A101	001
	A110	010
	A111	010
	A115	015
	A116	016
	A117	017
	A120	020
	A121	021
	A123	020
	A130	030
	A131	030
	A140	040
	A141	041
	A147	040
	A148	040
	A149	049
	A150	070
	A160	060
	A162	060
	A163	163
	A164	164
	A165	WKD
	A166	060
	A167	167
	A168	060
	A170	007
	A180	080
	A190	020
	A1C5	WKD
	A1F2	020
	A1F3	030
	A1F4	040
	A1U0	1U0
	B700	008
	BXA	001
	BXB	001
	BXD	001
	BXE	001
	BXF	001
	BXG	001
	C100	092
	C5	C5
	CX10	CX1
	CXA	001
	CXB	001
	DC17	170
	DGA	001
	DXA	001

## Details - ZUGFeRD 2.0 schema

### Codelist:

Allowed codes:	Code	Codename
	DXB	001
	DXC	001
	DXD	001
	DXE	001
	DXF	001
	DXG	001
	DXH	001
	DXI	001
	DXK	001
	FIA	001
	FXA	001
	FXB	001
	FXD	001
	FXE	001
	FXF	001
	FXH	001
	FXI	001
	FXK	001
	FXL	001
	FXM	001
	FXN	001
	FXS	001
	HHA	001
	HHB	001
	HHC	001
	HHD	001
	HHE	001
	HHG	001
	HHH	001
	HXA	001
	HXB	001
	HXC	001
	HXD	001
	HXE	001
	HXF	001
	HXG	001
	I800	001
	LXA	001
	LXB	001
	LXC	001
	LXD	001
	LXE	001
	LXF	001
	LXG	001
	MU	080
	MU80	080
	MXA	001
	MXB	001
	MXC	001
	MXD	001
	MXE	001
	MXF	001
	MXG	001
	MXH	001
	MXI	001
	MXK	001
	MXL	001
	MXV	001
	NXA	001
	NXB	001
	NXC	001

## Details - ZUGFeRD 2.0 schema

### Codelist:

Allowed codes:	Code	Codename
	NXD	001
	NXE	001
	OMI	170
	OMP	170
	RXA	001
	SBA	001
	SBB	001
	SBC	001
	SBE	001
	SXA	001
	SXB	001
	SXC	001
	SXD	001
	SXE	001
	SXG	001
	SXH	001
	SXK	001
	SXL	001

### Name

(Company) name of ship to

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/ShipToTradeParty/  
Name*

Data Type: udt:TextType

Length: 1 ... 35

Cardinality: 1..1

Extended: X

### DefinedTradeContact

Details of the contact person

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/ShipToTradeParty/  
DefinedTradeContact*

Data Type: ram:TradeContactType

Cardinality: 0..1

Extended: X

### PersonName

Name of the contact person

Status: **D**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/ShipToTradeParty/  
DefinedTradeContact/PersonName*

Data Type: udt:TextType

Length: 1 ... 35

Cardinality: 0..1

Example Hans Muster

Extended: X

### DepartmentName

Department name

Status: **D**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/ShipToTradeParty/  
DefinedTradeContact/DepartmentName*

Data Type: udt:TextType

Length: 1 ... 20

Cardinality: 0..1

Example Warenannahme

Extended: X

## Details - ZUGFeRD 2.0 schema

<b>TelephoneUniversalCommunication</b>		Phone number
Status:	O	
Path:	CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/ShipToTradeParty/ DefinedTradeContact/TelephoneUniversalCommunication	
Data Type:	ram:UniversalCommunicationType	
Cardinality:	0..1	
Extended:	X	
<b>CompleteNumber</b>		Phone number, value
Status:	R	
Path:	CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/ShipToTradeParty/ DefinedTradeContact/TelephoneUniversalCommunication/CompleteNumber	
Data Type:	udt:TextType	
Length:	1 ... 20	
Cardinality:	1..1	
Example	+49 (123) 56789-0	
Extended:	X	
<b>FaxUniversalCommunication</b>		Details of the fax number
Status:	O	
Path:	CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/ShipToTradeParty/ DefinedTradeContact/FaxUniversalCommunication	
Data Type:	ram:UniversalCommunicationType	
Cardinality:	0..1	
Extended:	X	
<b>CompleteNumber</b>		Fax number
Status:	R	
Path:	CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/ShipToTradeParty/ DefinedTradeContact/FaxUniversalCommunication/CompleteNumber	
Data Type:	udt:TextType	
Length:	1 ... 20	
Cardinality:	1..1	
Example	+49 (123) 56789-999	
Extended:	X	
<b>EmailURIUniversalCommunication</b>		Details on email
Status:	O	
Path:	CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/ShipToTradeParty/ DefinedTradeContact/EmailURIUniversalCommunication	
Data Type:	ram:UniversalCommunicationType	
Cardinality:	0..1	
Extended:	X	
<b>URIID</b>		Email
Status:	R	
Path:	CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/ShipToTradeParty/ DefinedTradeContact/EmailURIUniversalCommunication/URIID	
Data Type:	udt:IDType	
Length:	1 ... 100	
Cardinality:	1..1	
Example	hans.muster@buyer.de	
Extended:	X	

## Details - ZUGFeRD 2.0 schema

<b>PostalTradeAddress</b>	<a href="#">Details on address</a>
Status: <b>A</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/ShipToTradeParty/ PostalTradeAddress</i> Data Type: ram:TradeAddressType Cardinality: 0..1 <a href="#">Extended: X</a>	
<b>PostcodeCode</b>	<a href="#">Postcode</a>
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/ShipToTradeParty/ PostalTradeAddress/PostcodeCode</i> Data Type: udt:CodeType Cardinality: 1..1 Example 80788 <a href="#">Extended: X</a>	
<b>LineOne</b>	<a href="#">Line one of address</a>
Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/ShipToTradeParty/ PostalTradeAddress/LineOne</i> Data Type: udt:TextType Length: 1 ... 35 Cardinality: 0..1 Remark: Indication of street or postal box. Example Knorrstraße 147 <a href="#">Extended: X</a>	
<b>CityName</b>	<a href="#">City</a>
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/ShipToTradeParty/ PostalTradeAddress/CityName</i> Data Type: udt:TextType Length: 1 ... 35 Cardinality: 1..1 Example München <a href="#">Extended: X</a>	
<b>CountryID</b>	<a href="#">Country (Code)</a>
Status: <b>A</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/ShipToTradeParty/ PostalTradeAddress/CountryID</i> Data Type: qdt:CountryIDType Cardinality: 1..1 Usage: ISO 3166-1 Example DE <a href="#">Extended: X</a>	
<b>ActualDeliverySupplyChainEvent</b>	<a href="#">Details on actual delivery</a>
Status: <b>D</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/ ActualDeliverySupplyChainEvent</i> Data Type: ram:SupplyChainEventType Cardinality: 0..1 <a href="#">Extended: X</a>	

## Details - ZUGFeRD 2.0 schema

### OccurrenceDateTime

Actual date of delivery or date of service provision

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/  
ActualDeliverySupplyChainEvent/OccurrenceDateTime*

Data Type: udt:DateTimeType

Cardinality: 1..1

Remark: The actual date of delivery in respect of VAT must be provided on header level

Extended: X

### DateTimeString

Actual date of delivery or date of service provision, value

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/  
ActualDeliverySupplyChainEvent/OccurrenceDateTime/DateTimeString*

Data Type: extension (xsd:string)

Length: 1 ...

Synonym: Delivery / Service Completion Date, date of supply

Cardinality: 1..1

Remark: The actual date of delivery in respect of VAT must be provided on header level

Example 20200101

Extended: X

### format

Date, format

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/  
ActualDeliverySupplyChainEvent/OccurrenceDateTime/DateTimeString/@format*

Data Type: xs:string

Use: required

Example 102

Extended: X

**Codelist:** UNTDID 2379

Allowed codes:	Code	Codename
	102	CCYYMMDD

### ReceivingAdviceReferencedDocument

Details on referenced receiving advice

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/  
ReceivingAdviceReferencedDocument*

Data Type: ram:ReferencedDocumentType

Cardinality: 0..1

Extended: X

### IssuerAssignedID

Goods receipt number

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/  
ReceivingAdviceReferencedDocument/IssuerAssignedID*

Data Type: udt:IDType

Cardinality: 0..1

Example 5000832699

Extended: X

### FormattedIssueDateTime

Goods receipt date

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/  
ReceivingAdviceReferencedDocument/FormattedIssueDateTime*

Data Type: qdt:FormattedDateTimeType

Cardinality: 0..1

## Details - ZUGFeRD 2.0 schema

Extended: X							
<b>DateTimeString</b>	Document date, value						
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/ ReceivingAdviceReferencedDocument/FormattedIssueDateTime/DateTimeString</i> Data Type: extension (xsd:string) Length: 1 ... Cardinality: 1..1 Example 20160419							
Extended: X							
<b>format</b>	Date, format						
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/ ReceivingAdviceReferencedDocument/FormattedIssueDateTime/DateTimeString/ @format</i> Data Type: qdt:FormattedDateTimeFormatContentType Use: required Example 102							
Extended: X							
<b>Codelist:</b> UNTDID 2379							
<table><tr><td><b>Allowed codes:</b></td><td>Code</td><td>Codename</td></tr><tr><td></td><td>102</td><td>CCYYMMDD</td></tr></table>		<b>Allowed codes:</b>	Code	Codename		102	CCYYMMDD
<b>Allowed codes:</b>	Code	Codename					
	102	CCYYMMDD					
<b>DeliveryNoteReferencedDocument</b>	Details on referenced delivery note						
Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/ DeliveryNoteReferencedDocument</i> Data Type: ram:ReferencedDocumentType Cardinality: 0..1							
Extended: X							
<b>IssuerAssignedID</b>	Delivery Note Number, line item						
Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/ DeliveryNoteReferencedDocument/IssuerAssignedID</i> Data Type: udt:IDType Synonym: ASN Cardinality: 0..1 Example SIPS80081334790							
Extended: X							
<b>FormattedIssueDateTime</b>	Document date						
Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/ DeliveryNoteReferencedDocument/FormattedIssueDateTime</i> Data Type: qdt:FormattedDateTimeType Cardinality: 0..1							
Extended: X							

## Details - ZUGFeRD 2.0 schema

<b>DateTimeString</b>	Delivery Note date, value				
Status: <b>R</b>					
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/DeliveryNoteReferencedDocument/FormattedIssueDateTime/DateTimeString</i>					
Data Type: extension (xsd:string)					
Length: 1 ...					
Cardinality: 1..1					
Example 20160419					
Extended: X					
<b>format</b>	Date, format				
Status: <b>R</b>					
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/IncludedSupplyChainTradeLineItem/SpecifiedLineTradeDelivery/DeliveryNoteReferencedDocument/FormattedIssueDateTime/DateTimeString/@format</i>					
Data Type: qdt:FormattedDateTimeFormatContentType					
Use: required					
Example 102					
Extended: X					
<b>Codelist:</b> UNTDID 2379					
<b>Allowed codes:</b>	<table><tr><td><i>Code</i></td><td><i>Codename</i></td></tr><tr><td>102</td><td>CCYYMMDD</td></tr></table>	<i>Code</i>	<i>Codename</i>	102	CCYYMMDD
<i>Code</i>	<i>Codename</i>				
102	CCYYMMDD				
<b>SpecifiedLineTradeSettlement</b>	Grouping on settlement information				
Status: <b>R</b>					
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/IncludedSupplyChainTradeLineItem/SpecifiedLineTradeSettlement</i>					
Data Type: ram:LineTradeSettlementType					
Cardinality: 1..1					
Extended: X					
Comfort: X					
<b>ApplicableTradeTax</b>	Details on taxes				
Status: <b>D</b>					
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/IncludedSupplyChainTradeLineItem/SpecifiedLineTradeSettlement/ApplicableTradeTax</i>					
Data Type: ram:TradeTaxType					
Cardinality: 1..n					
Remark: This section must be used even in the BASIC profile, if the invoice needs to show more than one tax type.					
EN 16931-ID: BG-30					
Extended: X					
Comfort: X					
<b>TypeCode</b>	Tax type (Code)				
Status: <b>R</b>					
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/IncludedSupplyChainTradeLineItem/SpecifiedLineTradeSettlement/ApplicableTradeTax/TypeCode</i>					
Data Type: qdt:TaxTypeCodeType					
Cardinality: 1..1					
Remark: fixed value = "VAT"					
EN 16931-ID: BT-151-0					
Example VAT					
Extended: X					
Comfort: X					

## Details - ZUGFeRD 2.0 schema

### ExemptionReason

Exemption reason (free text)

Status: **D**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedLineTradeSettlement/  
ApplicableTradeTax/ExemptionReason*

Data Type: udt:TextType

Length: 1 ... 300

Cardinality: 0..1

Usage: If the invoice is exempt from tax a reason is required

Example VAT exempt for EEA intra-community supply of goods and services

Extended: X

### CategoryCode

Tax category

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedLineTradeSettlement/  
ApplicableTradeTax/CategoryCode*

Data Type: qdt:TaxCategoryCodeType

Cardinality: 1..1

Usage: The VAT category codes are as follows:

- S = VAT is charged at the standard rate
- Z = goods to be taxed at the zero rate
- E = tax exempt
- AE = reverse charge
- K = No VAT is shown for intra-Community deliveries
- G = tax not charged due to export outside the EU
- O = Outside the tax application area
- L = IGIC (Canary Islands)
- M = IPSI (Ceuta / Melilla)

Remark: The following entries from UNTDID 5305 are used (details in brackets):

- standard rate (sales tax applies according to normal procedure);
- goods to be taxed at the zero rate (sales tax is due at a percentage of zero);
- tax exempt (VAT / IGIC / IPSI);
- Reverse tax liability (the rules for reverse tax liability apply to VAT / IGIC / IPSI);
- VAT exempt for intra-community goods deliveries (VAT / IGIC / IPSI not levied due to rules on intra-community deliveries);
- Free export item, tax not charged (VAT / IGIC / IPSI not charged due to export outside the EU);
- Services outside the tax application area (sales are not subject to VAT / IGIC / IPSI)
- Canary Islands general indirect tax (IGIC tax applies);
- IPSI (tax for Ceuta / Melilla) applies.

EN 16931-ID: BT-151

Example: S

Extended: X

Comfort: X

Code list: UNTDID 5305

Allowed codes:	Code	Codename
	AE	VAT Reverse Charge
	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
	M	Tax for production, services and importation in Ceuta and Melilla
	O	Services outside scope of tax
	S	Standard rate
	Z	Zero rated goods

## Details - ZUGFeRD 2.0 schema

### RateApplicablePercent

Tax percentage

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedLineTradeSettlement/  
ApplicableTradeTax/RateApplicablePercent*

Data Type: udt:PercentType

Cardinality: 0..1

Usage: Depending on the tax CategoryCode, this field is mandatory or optional.

EN 16931-ID: BT-152

Note: The VAT rate applicable to the item being billed and expressed as a percentage

Example 19.00

Extended: X

Comfort: X

### SpecifiedTradeSettlementLineMonetarySummation

Details on summation

Status: **D**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedLineTradeSettlement/  
SpecifiedTradeSettlementLineMonetarySummation*

Data Type: ram:TradeSettlementLineMonetarySummationType

Cardinality: 1..1

Comfort: X

Extended: X

### LineTotalAmount

Line total amount

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedLineTradeSettlement/  
SpecifiedTradeSettlementLineMonetarySummation/LineTotalAmount*

Data Type: udt:AmountType

Cardinality: 1..1

Remark: The line total amount is the net amount, including any additions and deductions without specifying the value-added tax.

EN 16931-ID: BT-131

Example 2373.86

Comfort: X

Extended: X

### TotalAllowanceChargeAmount

Allowance and charge total

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
IncludedSupplyChainTradeLineItem/SpecifiedLineTradeSettlement/  
SpecifiedTradeSettlementLineMonetarySummation/TotalAllowanceChargeAmount*

Data Type: udt:AmountType

Cardinality: 0..1

Example 206.42

Extended: X

### ApplicableHeaderTradeAgreement

Grouping on trade agreement

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeAgreement*

Data Type: ram:HeaderTradeAgreementType

Cardinality: 1..1

Comfort: X

Extended: X

## Details - ZUGFeRD 2.0 schema

### BuyerReference

Buyer reference

Status: **A**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/*  
*ApplicableHeaderTradeAgreement/BuyerReference*

Data Type: udt:TextType

Cardinality: 0..1

Remark: The reference is determined by the buyer (e.g. contact details, department, office ID, project code), but specified by the seller in the invoice.

EN 16931-ID: BT-10

Example 7412B123456789

Comfort: X

Extended: X

### SellerTradeParty

Seller (=beneficiary)

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/*  
*ApplicableHeaderTradeAgreement/SellerTradeParty*

Data Type: ram:TradePartyType

Synonym: Supplier

Cardinality: 1..1

EN 16931-ID: BG-4

Note: The seller (=taxable person) is, by default, also the invoice issuer, the originator of the invoice, the supplier and the payee. If some of these roles have been transferred to other people, these must be defined separately.

Comfort: X

Extended: X

### ID

Supplier/seller number

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/*  
*ApplicableHeaderTradeAgreement/SellerTradeParty/ID*

Data Type: udt:IDType

Length: 1 ... 8

Synonym: BMW supplier/seller number, supplier identification assigned by the customer, , BMW Company Code

Cardinality: 1..1

Usage: 12345678, A1

Remark: The supplier's / seller's ID is a unique identifier assigned to the supplier/seller by BMW and agreed on a bilateral basis.  
In Self-Billing invoice BMW sends the BMW supplier number here.  
In an invoice BMW sends their BMW Company Codes in this field

EN 16931-ID: BT-29

Example A1

Comfort: X

Extended: X

### GlobalID

Global identifier of the seller

Status: **A**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/*  
*ApplicableHeaderTradeAgreement/SellerTradeParty/GlobalID*

Data Type: udt:IDType

Synonym: GLN, DUNS, BIC, ODETTE, ...

Cardinality: 0..n

Remark: The seller's global ID is a unique identifier assigned to a seller by a global registration body.

EN 16931-ID: BT-29-0

Example 4000001000005

Comfort: X

Extended: X

## Details - ZUGFeRD 2.0 schema

### — **schemeID**

Type of global identifier

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeAgreement/SellerTradeParty/GlobalID/@schemeID*

Data Type: xs:token

Usage: In particular, the following codes can be used:

0021: SWIFT  
0088: EAN  
0060: DUNS  
0177: ODETTE

Use: required

EN 16931-ID: BT-29-1

Example 0088

Comfort: X

Extended: X

### — **Name**

(Company) name of the seller

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeAgreement/SellerTradeParty/Name*

Data Type: udt:TextType

Length: 1 ... 70

Cardinality: 1..1

EN 16931-ID: BT-27

Note: The complete and official name under which the seller is registered in the national legal entity register or as a taxable person or otherwise acts as a person (s)

Example Lieferant GmbH

Comfort: X

Extended: X

### — **DefinedTradeContact**

Details on the seller's contact person

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeAgreement/SellerTradeParty/DefinedTradeContact*

Data Type: ram:TradeContactType

Cardinality: 0..1

EN 16931-ID: BG-6

Comfort: X

Extended: X

### — **PersonName**

Contact person name

Status: **D**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeAgreement/SellerTradeParty/DefinedTradeContact/PersonName*

Data Type: udt:TextType

Length: 1 ... 35

Cardinality: 0..1

EN 16931-ID: BT-41

Example Karin Mustermann

Comfort: X

Extended: X

## Details - ZUGFeRD 2.0 schema

### DepartmentName

Department name

Status: **D**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeAgreement/SellerTradeParty/DefinedTradeContact/  
DepartmentName*

Data Type: udt:TextType

Length: 1 ... 20

Cardinality: 0..1

EN 16931-ID: BT-41-0

Example Accounting

Comfort: X

Extended: X

### TelephoneUniversalCommunication

Details of the phone number

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeAgreement/SellerTradeParty/DefinedTradeContact/  
TelephoneUniversalCommunication*

Data Type: ram:UniversalCommunicationType

Cardinality: 0..1

Extended: X

Comfort: X

### CompleteNumber

Phone number

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeAgreement/SellerTradeParty/DefinedTradeContact/  
TelephoneUniversalCommunication/CompleteNumber*

Data Type: udt:TextType

Length: 1 ... 20

Cardinality: 1..1

EN 16931-ID: BT-42

Example +49 (123) 56789-0

Comfort: X

Extended: X

### FaxUniversalCommunication

Details of the fax number

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeAgreement/SellerTradeParty/DefinedTradeContact/  
FaxUniversalCommunication*

Data Type: ram:UniversalCommunicationType

Cardinality: 0..1

Extended: X

### CompleteNumber

Fax number

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeAgreement/SellerTradeParty/DefinedTradeContact/  
FaxUniversalCommunication/CompleteNumber*

Data Type: udt:TextType

Length: 1 ... 20

Cardinality: 1..1

Example +49 (123) 456789-999

Extended: X

### EmailURIUniversalCommunication

Details on email

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeAgreement/SellerTradeParty/DefinedTradeContact/  
EmailURIUniversalCommunication*

Data Type: ram:UniversalCommunicationType

Cardinality: 0..1

## Details - ZUGFeRD 2.0 schema

Extended: X Comfort: X	
URIID	Email
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeAgreement/SellerTradeParty/DefinedTradeContact/</i> <i>EmailURIUniversalCommunication/URIID</i> Data Type: udt:IDType Length: 1 ... 100 Cardinality: 1..1 EN 16931-ID: BT-43 Example karin.mustermann@seller.de	
Comfort: X Extended: X	
PostalTradeAddress	Details on address
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeAgreement/SellerTradeParty/PostalTradeAddress</i> Data Type: ram:TradeAddressType Cardinality: 1..1 EN 16931-ID: BG-5	
Comfort: X Extended: X	
PostcodeCode	Postcode
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeAgreement/SellerTradeParty/PostalTradeAddress/PostcodeCode</i> Data Type: udt:CodeType Length: 1 ... 17 Cardinality: 1..1 EN 16931-ID: BT-38 Example 80333	
Comfort: X Extended: X	
LineOne	Line one of address
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeAgreement/SellerTradeParty/PostalTradeAddress/LineOne</i> Data Type: udt:TextType Length: 1 ... 35 Cardinality: 1..1 Remark: Indication of street or postal box. For addresses indicating the postcode and locality, "-" must be entered. EN 16931-ID: BT-35	
Comfort: X Extended: X	
LineTwo	Line two
Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeAgreement/SellerTradeParty/PostalTradeAddress/LineTwo</i> Data Type: udt:TextType Length: 1 ... 35 Cardinality: 0..1 Usage: If street, line 1 exceed 35 characters, please use part 2 for character 36-70 EN 16931-ID: BT-36 Example Gebäude 3	

## Details - ZUGFeRD 2.0 schema

<b>CityName</b>		Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeAgreement/SellerTradeParty/PostalTradeAddress/CityName</i> Data Type: udt:TextType Length: 1 ... 35 Cardinality: 1..1 EN 16931-ID: BT-37 Example München	City
<b>CountryID</b>		Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeAgreement/SellerTradeParty/PostalTradeAddress/CountryID</i> Data Type: qdt:CountryIDType Length: 2 ... 2 Cardinality: 1..1 EN 16931-ID: BT-40 Example DE	Country (Code)
<b>CountrySubDivisionName</b>		Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeAgreement/SellerTradeParty/PostalTradeAddress/</i> <i>CountrySubDivisionName</i> Data Type: udt:TextType Cardinality: 0..1 EN 16931-ID: BT-39 Example Bayern	Country sub division
<b>SpecifiedTaxRegistration</b>		Status: <b>A</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeAgreement/SellerTradeParty/SpecifiedTaxRegistration</i> Data Type: ram:TaxRegistrationType Cardinality: 0..n	Tax registration details

## Details - ZUGFeRD 2.0 schema

ID

(Local) tax Id  
VAT Id

Status: **D**  
**R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeAgreement/SellerTradeParty/SpecifiedTaxRegistration/ID*

Data Type: udt:IDType

Length: 1 ...

Cardinality: 1..1

Usage: In case of Seller's country code belongs to European Union (EU), Seller's VAT Registration Number is mandatory and Seller's Fiscal Number is optional for most of the EU countries.

In case of Seller's country code does not belong to European Union (EU), both Seller's VAT Registration Number and Seller's Fiscal Number are optional. But maybe some different Id and based on the country specific laws becomes mandatory.

Example:

Canada: GST/HST registration number of the supplier

Australia: Australian business number (ABN) of the supplier

EN 16931-ID: BT-31, BT-32

Example 201/113/40209

DE234567891

Comfort: X

Extended: X

schemelD

Type of tax identifier

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeAgreement/SellerTradeParty/SpecifiedTaxRegistration/ID/  
@schemelD*

Data Type: xs:token

Synonym: tax Id, VAT Id

Use: required

EN 16931-ID: BT-31-0, BT-32-0

Example FC, VA

Comfort: X

Extended: X

Codelist: UNTDID 1153

Allowed codes:	Code	Codename
	FC	Fiscal number
	VA	VAT registration number

BuyerTradeParty

Buyer (=beneficiary)

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeAgreement/BuyerTradeParty*

Data Type: ram:TradePartyType

Synonym: Invoice recipient

Cardinality: 1..1

EN 16931-ID: BG-7

Note: The buyer (=customer) is, by default, also the ship-to-party, the invoicee and the payee. If some of these roles have been transferred to other people, these must be defined separately.

Comfort: X

Extended: X

## Details - ZUGFeRD 2.0 schema

### ID

Buyer number

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeAgreement/BuyerTradeParty/ID*

Data Type: udt:IDType

Length: 1 ... 10

Synonym: BMW Company Code, BMW client code, customer number

Cardinality: 1..1

Remark: For Self-Billing invoice - Code to identify the correct BMW company and assigned from BMW

In a sales Invoice BMW will send the customer number in this field

EN 16931-ID: BT-46

Example A1

Comfort: X

Extended: X

#### Codelist:

Allowed codes:	Code	Codename
	A1	BMW AG
	B7	BMW Fahrzeugtechnik GmbH
	C5	BMW Motoren GmbH
	FE	Rolls-Royce Motor Cars GmbH
	LG	Rolls-Royce Motor Cars Limited
	MU	BMW (UK) Manufacturing Ltd.
	RK	BMW Mobility Development Center s.r.o.
	S5	BMW Österreich Holding GmbH
	U0	BMW Hams Hall Motoren GmbH
	UH	BMW Manufact Hungary Kft

### GlobalID

Global identifier of the buyer

Status: **A**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeAgreement/BuyerTradeParty/GlobalID*

Data Type: udt:IDType

Synonym: GLN, DUNS, BIC,ODETTE, ...

Cardinality: 0..n

Remark: The buyer's global ID is a unique identifier assigned to a buyer by a global registration body.

EN 16931-ID: BT-46-0

Example 4000001000005

Comfort: X

Extended: X

### schemeID

Type of global identifier

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeAgreement/BuyerTradeParty/GlobalID/@schemeID*

Data Type: xs:token

Usage: In particular, the following codes can be used:

0021: SWIFT  
0088: EAN  
0060: DUNS  
0177: ODETTE

Use: required

EN 16931-ID: BT-46-1

Example 0060

Comfort: X

Extended: X

## Details - ZUGFeRD 2.0 schema

Name	Buyer company name
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeAgreement/BuyerTradeParty/Name</i> Data Type: udt:TextType Length: 1 ... 35 Cardinality: 1..1 Usage: Buyer GmbH, BMW AG EN 16931-ID: BT-44 Example BMW AG	
Comfort: X Extended: X	
DefinedTradeContact	Details on the buyer's contact person
Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeAgreement/BuyerTradeParty/DefinedTradeContact</i> Data Type: ram:TradeContactType Cardinality: 0..1 EN 16931-ID: BG-9	
Comfort: X Extended: X	
PersonName	Contact person name
Status: <b>D</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeAgreement/BuyerTradeParty/DefinedTradeContact/PersonName</i> Data Type: udt:TextType Length: 1 ... 35 Cardinality: 0..1 EN 16931-ID: BT-56 Example Hans Muster	
Comfort: X Extended: X	
DepartmentName	Department name
Status: <b>D</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeAgreement/BuyerTradeParty/DefinedTradeContact/ DepartmentName</i> Data Type: udt:TextType Length: 1 ... 20 Cardinality: 0..1 EN 16931-ID: BT-56-0 Example Purchasing department	
Comfort: X Extended: X	
TelephoneUniversalCommunication	Details of the phone number
Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeAgreement/BuyerTradeParty/DefinedTradeContact/ TelephoneUniversalCommunication</i> Data Type: ram:UniversalCommunicationType Cardinality: 0..1	
Comfort: X Extended: X	

## Details - ZUGFeRD 2.0 schema

<b>CompleteNumber</b>	Phone number
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeAgreement/BuyerTradeParty/DefinedTradeContact/ TelephoneUniversalCommunication/CompleteNumber</i> Data Type: udt:TextType Length: 1 ... 20 Cardinality: 1..1 EN 16931-ID: BT-57	
Example +49 (123) 56789-0	
Comfort: X	
Extended: X	
<b>FaxUniversalCommunication</b>	Details of the fax number
Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeAgreement/BuyerTradeParty/DefinedTradeContact/ FaxUniversalCommunication</i> Data Type: ram:UniversalCommunicationType	
Cardinality: 0..1	
Extended: X	
<b>CompleteNumber</b>	Fax number
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeAgreement/BuyerTradeParty/DefinedTradeContact/ FaxUniversalCommunication/CompleteNumber</i> Data Type: udt:TextType Length: 1 ... 20 Cardinality: 1..1	
Example +49 (123) 56789-999	
Extended: X	
<b>EmailURIUniversalCommunication</b>	Details on email
Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeAgreement/BuyerTradeParty/DefinedTradeContact/ EmailURIUniversalCommunication</i> Data Type: ram:UniversalCommunicationType	
Cardinality: 0..1	
Comfort: X	
Extended: X	
<b>URIID</b>	Email
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeAgreement/BuyerTradeParty/DefinedTradeContact/ EmailURIUniversalCommunication/URIID</i> Data Type: udt:IDType Length: 1 ... 100 Cardinality: 1..1 EN 16931-ID: BT-58	
Example hans.muster@buyer.de	
Comfort: X	
Extended: X	

## Details - ZUGFeRD 2.0 schema

### PostalTradeAddress

Details on buyer address

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeAgreement/BuyerTradeParty/PostalTradeAddress*

Data Type: ram:TradeAddressType

Cardinality: 1..1

EN 16931-ID: BG-8

Note: Complete address of the buyer

Comfort: X

Extended: X

### PostcodeCode

Postcode buyer

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeAgreement/BuyerTradeParty/PostalTradeAddress/  
PostcodeCode*

Data Type: udt:CodeType

Length: 1 ... 17

Cardinality: 1..1

EN 16931-ID: BT-53

Example 80788

Comfort: X

Extended: X

### LineOne

Line one of address

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeAgreement/BuyerTradeParty/PostalTradeAddress/LineOne*

Data Type: udt:TextType

Length: 1 ... 35

Cardinality: 1..1

Remark: If address is a postbox address please send "Postfach", "Accounting",  
Rechnungsprüfung", "Kreditorenbuchhaltung" as street

EN 16931-ID: BT-50

Example Petuelring 130

Comfort: X

Extended: X

### LineTwo

Line two

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeAgreement/BuyerTradeParty/PostalTradeAddress/LineTwo*

Data Type: udt:TextType

Length: 1 ... 35

Cardinality: 0..1

EN 16931-ID: BT-51

Note: If street, line 1 exceed 35 characters, please use part 2 for character 36-70

Example 3. Etage rechts

Comfort: X

Extended: X

### CityName

City

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeAgreement/BuyerTradeParty/PostalTradeAddress/CityName*

Data Type: udt:TextType

Length: 1 ... 35

Cardinality: 1..1

EN 16931-ID: BT-52

Example München

## Details - ZUGFeRD 2.0 schema

<b>CountryID</b>		Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeAgreement/BuyerTradeParty/PostalTradeAddress/CountryID</i> Data Type: qdt:CountryIDType Cardinality: 1..1 EN 16931-ID: BT-55 Example DE	Country (Code), buyer
<b>SpecifiedTaxRegistration</b>		Status: <b>A</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeAgreement/BuyerTradeParty/SpecifiedTaxRegistration</i> Data Type: ram:TaxRegistrationType Cardinality: 0..1	Tax registration details
<b>ID</b>		Status: <b>D</b> <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeAgreement/BuyerTradeParty/SpecifiedTaxRegistration/ID</i> Data Type: udt:IDType Length: 1 ... Cardinality: 1..1 EN 16931-ID: BT-48 Example 201/123/12340 DE234567780	(Local) tax Id VAT Id, buyer
<b>schemeID</b>		Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeAgreement/BuyerTradeParty/SpecifiedTaxRegistration/ID/</i> <i>@schemeID</i> Data Type: xs:token Synonym: tax Id, VAT Id Use: required EN 16931-ID: BT-48-0 Example FC, VA	Type of tax identifier
<b>CodeList</b>		UNTDID 1153 Allowed codes: Code      Codename VA          VAT registration number	
<b>ApplicableTradeDeliveryTerms</b>		Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeAgreement/ApplicableTradeDeliveryTerms</i> Data Type: ram:TradeDeliveryTermsType Cardinality: 0..1	Details on delivery terms

## Details - ZUGFeRD 2.0 schema

<b>DeliveryTypeCode</b>	Delivery type (Code)
Status: <b>R</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeAgreement/ApplicableTradeDeliveryTerms/DeliveryTypeCode</i>	
Data Type: qdt:DeliveryTermsCodeType	
Synonym: Incoterms	
Cardinality: 1..1	
Example EXW	
Extended: X	
<b>BuyerOrderReferencedDocument</b>	Details on corresponding order
Status: <b>A</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeAgreement/BuyerOrderReferencedDocument</i>	
Data Type: ram:ReferencedDocumentType	
Cardinality: 0..1	
Comfort: X	
Extended: X	
<b>IssuerAssignedID</b>	Order number
Status: <b>R</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeAgreement/BuyerOrderReferencedDocument/IssuerAssignedID</i>	
Data Type: udt:IDType	
Length: 1 ... 16	
Cardinality: 1..1	
EN 16931-ID: BT-13	
Example F37PNPF	
Comfort: X	
Extended: X	
<b>FormattedIssueDateTime</b>	Order date
Status: <b>O</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeAgreement/BuyerOrderReferencedDocument/</i> <i>FormattedIssueDateTime</i>	
Data Type: qdt:FormattedDateTimeType	
Cardinality: 0..1	
Extended: X	
<b>DateTimeString</b>	Order date, value
Status: <b>R</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeAgreement/BuyerOrderReferencedDocument/</i> <i>FormattedIssueDateTime/DateTimeString</i>	
Data Type: extension (xsd:string)	
Length: 1 ...	
Cardinality: 1..1	
Example 20191224	
Extended: X	
<b>format</b>	Date, format
Status: <b>R</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeAgreement/BuyerOrderReferencedDocument/</i> <i>FormattedIssueDateTime/DateTimeString/@format</i>	
Data Type: qdt:FormattedDateTimeFormatContentType	
Use: required	
Example 102	
Extended: X	

## Details - ZUGFeRD 2.0 schema

**Codelist:** UNTDID 2379

**Allowed codes:** *Code*      *Codename*  
102      CCYYMMDD

### ApplicableHeaderTradeDelivery

Grouping on delivery information

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery*

Data Type: ram:HeaderTradeDeliveryType

Cardinality: 1..1

Comfort: X

Extended: X

### ShipToTradeParty

ship to

Status: **D**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipToTradeParty*

Data Type: ram:TradePartyType

Synonym: Ship To / Delivery

Cardinality: 0..1

EN 16931-ID: BG-13

Comfort: X

Extended: X

### ID

Identification of ship to

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipToTradeParty/ID*

Data Type: udt:IDType

Length: 2 ... 2

Cardinality: 0..1

Usage: BMW is sending different plant codes compared to VDA4905 / VDA4913.

EN 16931-ID: BT-71

Example A120

Comfort: X

Extended: X

### Name

(Company) name of ship to

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipToTradeParty/Name*

Data Type: udt:TextType

Length: 1 ... 35

Cardinality: 0..1

EN 16931-ID: BT-70

Example BMW AG

Comfort: X

Extended: X

### DefinedTradeContact

Details of the contact person

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipToTradeParty/DefinedTradeContact*

Data Type: ram:TradeContactType

Cardinality: 0..1

Extended: X

## Details - ZUGFeRD 2.0 schema

### PersonName

Name of the contact person

Status: **D**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipToTradeParty/DefinedTradeContact/PersonName*

Data Type: udt:TextType

Length: 1 ... 35

Cardinality: 0..1

Example Hans Muster

Extended: X

### DepartmentName

Department name

Status: **D**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipToTradeParty/DefinedTradeContact/DepartmentName*

Data Type: udt:TextType

Length: 1 ... 20

Cardinality: 0..1

Example Warenannahme

Extended: X

### TelephoneUniversalCommunication

Details of the phone number

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipToTradeParty/DefinedTradeContact/TelephoneUniversalCommunication*

Data Type: ram:UniversalCommunicationType

Cardinality: 0..1

Extended: X

### CompleteNumber

Phone number

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipToTradeParty/DefinedTradeContact/TelephoneUniversalCommunication/CompleteNumber*

Data Type: udt:TextType

Length: 1 ... 20

Cardinality: 1..1

Example +49 (123) 56789-0

Extended: X

### FaxUniversalCommunication

Details of the fax number

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipToTradeParty/DefinedTradeContact/FaxUniversalCommunication*

Data Type: ram:UniversalCommunicationType

Cardinality: 0..1

Extended: X

### CompleteNumber

Fax number

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipToTradeParty/DefinedTradeContact/FaxUniversalCommunication/CompleteNumber*

Data Type: udt:TextType

Length: 1 ... 20

Cardinality: 1..1

Example +49 (123) 56789-999

Extended: X

### EmailURIUniversalCommunication

Details on email

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipToTradeParty/DefinedTradeContact/EmailURIUniversalCommunication*

Data Type: ram:UniversalCommunicationType

Cardinality: 0..1

## Details - ZUGFeRD 2.0 schema

<div> <div></div> <div></div> <div></div> </div>	<div> <div>Extended: X</div> <div>URIID</div> <div>Email</div> </div>
	<div> <div>Status: <b>R</b></div> <div>Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipToTradeParty/DefinedTradeContact/EmailURIUniversalCommunication/URIID</i></div> <div>Data Type: udt:IDType</div> <div>Length: 1 ... 100</div> <div>Cardinality: 1..1</div> <div>Example hans.muster@buyer.de</div> </div>
	<div> <div>Extended: X</div> <div>PostalTradeAddress</div> <div>Details on address</div> </div>
	<div> <div>Status: <b>O</b></div> <div>Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipToTradeParty/PostalTradeAddress</i></div> <div>Data Type: ram:TradeAddressType</div> <div>Cardinality: 0..1</div> <div>EN 16931-ID: BG-15</div> </div>
	<div> <div>Comfort: X</div> <div>Extended: X</div> </div>
	<div> <div>PostcodeCode</div> <div>Postcode</div> </div>
	<div> <div>Status: <b>A</b></div> <div>Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipToTradeParty/PostalTradeAddress/PostcodeCode</i></div> <div>Data Type: udt:CodeType</div> <div>Length: 1 ... 17</div> <div>Cardinality: 0..1</div> <div>EN 16931-ID: BT-78</div> <div>Example 69876</div> </div>
	<div> <div>Comfort: X</div> <div>Extended: X</div> </div>
	<div> <div>LineOne</div> <div>Line one of address</div> </div>
	<div> <div>Status: <b>A</b></div> <div>Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipToTradeParty/PostalTradeAddress/LineOne</i></div> <div>Data Type: udt:TextType</div> <div>Length: 1 ... 35</div> <div>Cardinality: 0..1</div> <div>Remark: Indication of street or postal box. For addresses indicating the postcode and locality, "-" must be entered.</div> <div>EN 16931-ID: BT-75</div> <div>Example Kundenstraße 15</div> </div>
	<div> <div>Comfort: X</div> <div>Extended: X</div> </div>
	<div> <div>LineTwo</div> <div>Line two</div> </div>
	<div> <div>Status: <b>O</b></div> <div>Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipToTradeParty/PostalTradeAddress/LineTwo</i></div> <div>Data Type: udt:TextType</div> <div>Cardinality: 0..1</div> <div>EN 16931-ID: BT-76</div> <div>Example Gebäude 3</div> </div>
	<div> <div>Comfort: X</div> <div>Extended: X</div> </div>

## Details - ZUGFeRD 2.0 schema

CityName	City
Status: <b>A</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipToTradeParty/PostalTradeAddress/CityName</i> Data Type: udt:TextType Length: 1 ... 35 Cardinality: 0..1 EN 16931-ID: BT-77 Example Frankfurt	
Comfort: X	
Extended: X	
CountryID	Country (Code)
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipToTradeParty/PostalTradeAddress/CountryID</i> Data Type: qdt:CountryIDType Length: 2 ... 2 Cardinality: 1..1 EN 16931-ID: BT-80 Example DE	
Comfort: X	
Extended: X	
ShipFromTradeParty	Identification of the alternative ship from
Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipFromTradeParty</i> Data Type: ram:TradePartyType Cardinality: 0..1 Extended: X	
ID	Identification of ship from
Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipFromTradeParty/ID</i> Data Type: udt:IDType Cardinality: 0..n Example 12345678 Extended: X	
Name	(Company) name of the ship from
Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipFromTradeParty/Name</i> Data Type: udt:TextType Length: 1 ... 35 Cardinality: 0..1 Example Supplier GmbH Extended: X	
DefinedTradeContact	Details of the contact person
Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipFromTradeParty/DefinedTradeContact</i> Data Type: ram:TradeContactType Cardinality: 0..1 Extended: X	

## Details - ZUGFeRD 2.0 schema

<b>PersonName</b>	Name of the contact person
Status: <b>D</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipFromTradeParty/DefinedTradeContact/PersonName</i> Data Type: udt:TextType Length: 1 ... 35 Cardinality: 0..1 Example Hans Muster Extended: X	
<b>DepartmentName</b>	Department name
Status: <b>D</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipFromTradeParty/DefinedTradeContact/DepartmentName</i> Data Type: udt:TextType Length: 1 ... 20 Cardinality: 0..1 Example Shipping Extended: X	
<b>TelephoneUniversalCommunication</b>	Details of the phone number
Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipFromTradeParty/DefinedTradeContact/TelephoneUniversalCommunication</i> Data Type: ram:UniversalCommunicationType Cardinality: 0..1 Extended: X	
<b>CompleteNumber</b>	Phone number
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipFromTradeParty/DefinedTradeContact/TelephoneUniversalCommunication/CompleteNumber</i> Data Type: udt:TextType Length: 1 ... 20 Cardinality: 1..1 Example +49 (123) 56789-0 Extended: X	
<b>FaxUniversalCommunication</b>	Details of the fax number
Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipFromTradeParty/DefinedTradeContact/FaxUniversalCommunication</i> Data Type: ram:UniversalCommunicationType Cardinality: 0..1 Extended: X	
<b>CompleteNumber</b>	Fax number
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipFromTradeParty/DefinedTradeContact/FaxUniversalCommunication/CompleteNumber</i> Data Type: udt:TextType Length: 1 ... 20 Cardinality: 1..1 Example +49 (123) 56789-999 Extended: X	

## Details - ZUGFeRD 2.0 schema

<b>EmailURIUniversalCommunication</b>	<a href="#">Details on email</a>
Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipFromTradeParty/DefinedTradeContact/EmailURIUniversalCommunication</i> Data Type: ram:UniversalCommunicationType Cardinality: 0..1 Extended: X	
<b>URIID</b>	<a href="#">Email</a>
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipFromTradeParty/DefinedTradeContact/EmailURIUniversalCommunication/URIID</i> Data Type: udt:IDType Length: 1 ... 100 Cardinality: 1..1 Example hans.muster@buyer.tld Extended: X	
<b>PostalTradeAddress</b>	<a href="#">Details on address</a>
Status: <b>A</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipFromTradeParty/PostalTradeAddress</i> Data Type: ram:TradeAddressType Cardinality: 0..1 Extended: X	
<b>PostcodeCode</b>	<a href="#">Postcode</a>
Status: <b>A</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipFromTradeParty/PostalTradeAddress/PostcodeCode</i> Data Type: udt:CodeType Length: 1 ... 17 Cardinality: 0..1 Example 69876 Extended: X	
<b>LineOne</b>	<a href="#">Line one of address</a>
Status: <b>A</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipFromTradeParty/PostalTradeAddress/LineOne</i> Data Type: udt:TextType Length: 1 ... 35 Cardinality: 0..1 Remark: Indication of street or postal box. For addresses indicating the postcode and locality, "-" must be entered. Example Kundenstraße 15 Extended: X	
<b>LineTwo</b>	<a href="#">Line two</a>
Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipFromTradeParty/PostalTradeAddress/LineTwo</i> Data Type: udt:TextType Length: 1 ... 35 Cardinality: 0..1 Example Gebäude 3 Extended: X	

## Details - ZUGFeRD 2.0 schema

<b>CityName</b>	City
Status: <b>A</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipFromTradeParty/PostalTradeAddress/CityName</i>	
Data Type: udt:TextType	
Length: 1 ... 35	
Cardinality: 0..1	
Example Frankfurt	
Extended: X	
<b>CountryID</b>	Country (Code)
Status: <b>R</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ShipFromTradeParty/PostalTradeAddress/CountryID</i>	
Data Type: qdt:CountryIDType	
Length: 2 ... 2	
Cardinality: 1..1	
Example DE	
Extended: X	
<b>ActualDeliverySupplyChainEvent</b>	Details on actual delivery
Status: <b>R</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ActualDeliverySupplyChainEvent</i>	
Data Type: ram:SupplyChainEventType	
Cardinality: 1..1	
Comfort: X	
Extended: X	
<b>OccurrenceDateTime</b>	Actual date of delivery of goods/provision of services
Status: <b>R</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ActualDeliverySupplyChainEvent/OccurrenceDateTime</i>	
Data Type: udt:DateTimeType	
Cardinality: 1..1	
Usage: In Germany, the actual delivery date is mandatory. It can be stated here or on line item level.	
Comfort: X	
Extended: X	
<b>DateTimeString</b>	Actual date of delivery of goods/provision of services, value
Status: <b>R</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ActualDeliverySupplyChainEvent/OccurrenceDateTime/DateTimeString</i>	
Data Type: extension (xsd:string)	
Length: 1 ...	
Synonym: Actual date of delivery of goods/provision of services for VAT purposes, date of supply, service completion date	
Cardinality: 1..1	
Usage: In Germany, the delivery and service date must always be stated in invoices. Prepayment invoices are an exception (ExchangedDocument \ TypeCode = 386), in which the delivery or service date has not yet been determined at the time of invoicing.	
Remark: Indicating either here for the entire bill, or alternatively for each line item	
EN 16931-ID: BT-72	
Example 20200201	
Comfort: X	
Extended: X	

## Details - ZUGFeRD 2.0 schema

### format

Date, format

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeDelivery/ActualDeliverySupplyChainEvent/OccurrenceDateTime/DateTimeString/@format*

Data Type: xs:string

Use: required

EN 16931-ID: BT-72-0

Example 102

Comfort: X

Extended: X

Codelist: UNTDID 2379

Allowed codes:	Code	Codename
	102	CCYYMMDD

### ApplicableHeaderTradeSettlement

Grouping on settlement information

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement*

Data Type: ram:HeaderTradeSettlementType

Cardinality: 1..1

Comfort: X

Extended: X

### TaxCurrencyCode

VAT accounting currency code

Status: **D**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/TaxCurrencyCode*

Data Type: qdt:CurrencyCodeType

Cardinality: 0..1

Remark: Shall be used in combination with the Invoice total VAT amount in accounting currency (BT-111) when the VAT accounting currency code differs from the Invoice currency code.

The lists of valid currencies are registered with the ISO 4217 Maintenance Agency "Codes for the representation of currencies and funds". Please refer to Article 230 of the Council Directive 2006/112/EC for more information.

EN 16931-ID: BT-6

Note: The currency used for VAT accounting and reporting purposes as accepted or required in the country of the Seller.

Example EUR

Comfort: X

Extended: X

### InvoiceCurrencyCode

Invoice Currency

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/InvoiceCurrencyCode*

Data Type: qdt:CurrencyCodeType

Cardinality: 1..1

EN 16931-ID: BT-5

Example EUR

Comfort: X

Extended: X

### InvoiceeTradeParty

Details on the alternative invoicee

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/InvoiceeTradeParty*

Data Type: ram:TradePartyType

Synonym: Validator, Auditor, Deviating Invoicee

Cardinality: 0..1

Usage: Deviating Invoicee party has to occur in the message when differs from buyer.

## Details - ZUGFeRD 2.0 schema

Extended: X	
<b>ID</b>	Identification of the alternative invoicee
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/InvoiceeTradeParty/ID</i> Data Type: udt:IDType Length: 2 ... 2 Synonym: BMW Company Code, customer number, supplier number Cardinality: 1..1 Note: Identification of the alternative invoicee Example A1	
Extended: X	
<b>GlobalID</b>	Global identifier
Status: <b>A</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/InvoiceeTradeParty/GlobalID</i> Data Type: udt:IDType Synonym: GLN, DUNS, BIC,ODETTE, ... Cardinality: 0..n Example GENODED1SPK, 4000001000005	
Extended: X	
<b>schemeID</b>	Type of global identifier
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/InvoiceeTradeParty/GlobalID/@schemeID</i> Data Type: xs:token Use: required Example 0021, 0088, 0060, 0177	
Extended: X	
<b>Name</b>	(Company) name of the alternative invoicee
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/InvoiceeTradeParty/Name</i> Data Type: udt:TextType Cardinality: 1..1 Example Invoicee AG	
Extended: X	
<b>DefinedTradeContact</b>	Details of the contact person
Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/InvoiceeTradeParty/DefinedTradeContact</i> Data Type: ram:TradeContactType Cardinality: 0..1	
Extended: X	
<b>PersonName</b>	Name of the contact person
Status: <b>D</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/InvoiceeTradeParty/DefinedTradeContact/PersonName</i> Data Type: udt:TextType Length: 1 ... 35 Cardinality: 0..1 Example Hans Muster	
Extended: X	

## Details - ZUGFeRD 2.0 schema

<b>DepartmentName</b>	Department name
Status: <b>D</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/InvoiceeTradeParty/DefinedTradeContact/DepartmentName</i>	
Data Type: udt:TextType	
Length: 1 ... 20	
Cardinality: 0..1	
Example Accounting	
Extended: X	
<b>TelephoneUniversalCommunication</b>	Details of the phone number
Status: <b>O</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/InvoiceeTradeParty/DefinedTradeContact/TelephoneUniversalCommunication</i>	
Data Type: ram:UniversalCommunicationType	
Cardinality: 0..1	
Extended: X	
<b>CompleteNumber</b>	Phone number
Status: <b>R</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/InvoiceeTradeParty/DefinedTradeContact/TelephoneUniversalCommunication/CompleteNumber</i>	
Data Type: udt:TextType	
Length: 1 ... 20	
Cardinality: 1..1	
Example +49 (123) 56789-0	
Extended: X	
<b>FaxUniversalCommunication</b>	Details of the fax number
Status: <b>O</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/InvoiceeTradeParty/DefinedTradeContact/FaxUniversalCommunication</i>	
Data Type: ram:UniversalCommunicationType	
Cardinality: 0..1	
Extended: X	
<b>CompleteNumber</b>	Fax number
Status: <b>R</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/InvoiceeTradeParty/DefinedTradeContact/FaxUniversalCommunication/CompleteNumber</i>	
Data Type: udt:TextType	
Length: 1 ... 20	
Cardinality: 1..1	
Example +49 (123) 56789-999	
Extended: X	
<b>EmailURIUniversalCommunication</b>	Details on email
Status: <b>O</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/InvoiceeTradeParty/DefinedTradeContact/EmailURIUniversalCommunication</i>	
Data Type: ram:UniversalCommunicationType	
Cardinality: 0..1	
Extended: X	

## Details - ZUGFeRD 2.0 schema

URIID	Email
<p>Status: <b>R</b></p> <p>Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/InvoiceeTradeParty/DefinedTradeContact/EmailURIUniversalCommunication/URIID</i></p> <p>Data Type: udt:IDType</p> <p>Length: 1 ... 100</p> <p>Cardinality: 1..1</p> <p>Example hans.muster@buyer.tld</p> <p>Extended: X</p>	
PostalTradeAddress	Details on address
<p>Status: <b>R</b></p> <p>Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/InvoiceeTradeParty/PostalTradeAddress</i></p> <p>Data Type: ram:TradeAddressType</p> <p>Cardinality: 1..1</p> <p>Extended: X</p>	
PostcodeCode	Postcode
<p>Status: <b>R</b></p> <p>Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/InvoiceeTradeParty/PostalTradeAddress/PostcodeCode</i></p> <p>Data Type: udt:CodeType</p> <p>Length: 1 ... 17</p> <p>Cardinality: 1..1</p> <p>Example 80788</p> <p>Extended: X</p>	
LineOne	Line one of address
<p>Status: <b>R</b></p> <p>Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/InvoiceeTradeParty/PostalTradeAddress/LineOne</i></p> <p>Data Type: udt:TextType</p> <p>Length: 1 ... 35</p> <p>Cardinality: 1..1</p> <p>Remark: If address is a postbox address please send "Postfach", "Accounting", Rechnungsprüfung", "Kreditorenbuchhaltung" as street</p> <p>Example Kreditorenbuchhaltung</p> <p>Extended: X</p>	
LineTwo	Line two
<p>Status: <b>O</b></p> <p>Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/InvoiceeTradeParty/PostalTradeAddress/LineTwo</i></p> <p>Data Type: udt:TextType</p> <p>Length: 1 ... 35</p> <p>Cardinality: 0..1</p> <p>Example Gebäude 3</p> <p>Extended: X</p>	
CityName	City
<p>Status: <b>R</b></p> <p>Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/InvoiceeTradeParty/PostalTradeAddress/CityName</i></p> <p>Data Type: udt:TextType</p> <p>Length: 1 ... 35</p> <p>Cardinality: 1..1</p> <p>Example München</p> <p>Extended: X</p>	

## Details - ZUGFeRD 2.0 schema

<b>CountryID</b>	Country (Code)
Status: <b>R</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/InvoiceeTradeParty/PostalTradeAddress/CountryID</i>	
Data Type: qdt:CountryIDType	
Cardinality: 1..1	
Example DE	
Extended: X	
<b>TaxApplicableTradeCurrencyExchange</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/TaxApplicableTradeCurrencyExchange</i>	
Data Type: ram:TradeCurrencyExchangeType	
Cardinality: 0..1	
Extended: X	
<b>SourceCurrencyCode</b>	Invoice currency
Status: <b>R</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/TaxApplicableTradeCurrencyExchange/SourceCurrencyCode</i>	
Data Type: qdt:CurrencyCodeType	
Cardinality: 1..1	
Example EUR	
Extended: X	
<b>TargetCurrencyCode</b>	Home Currency
Status: <b>R</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/TaxApplicableTradeCurrencyExchange/TargetCurrencyCode</i>	
Data Type: qdt:CurrencyCodeType	
Cardinality: 1..1	
Usage: In some countries it is a requirement that, for invoicing in foreign currency, the invoice taxable and tax (e.g. VAT) amounts must also be expressed in home currency. Relating this to this field, authorities would require the invoicing currency and the home currency to be shown, together with the rate of exchange	
Example GBP	
Extended: X	
<b>ConversionRate</b>	Exchangerate
Status: <b>R</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/TaxApplicableTradeCurrencyExchange/ConversionRate</i>	
Data Type: udt:RateType	
Cardinality: 1..1	
Example 0.8789	
Extended: X	
<b>ConversionRateDateTime</b>	Exchange date
Status: <b>O</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/TaxApplicableTradeCurrencyExchange/ConversionRateDateTime</i>	
Data Type: udt:DateTimeType	
Cardinality: 0..1	
Extended: X	

## Details - ZUGFeRD 2.0 schema

### DateTimeString

Exchangerate date

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeSettlement/TaxApplicableTradeCurrencyExchange/  
ConversionRateDateTime/DateTimeString*

Data Type: extension (xsd:string)

Length: 1 ...

Cardinality: 1..1

Example 20200110

### format

Date, format

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeSettlement/TaxApplicableTradeCurrencyExchange/  
ConversionRateDateTime/DateTimeString/@format*

Data Type: xs:string

Use: required

Example 102

**Codelist:** UNTDID 2379

Allowed codes:	Code	Codename
	102	CCYYMMDD

### SpecifiedTradeSettlementPaymentMeans

Details on payment means

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeSettlement/SpecifiedTradeSettlementPaymentMeans*

Data Type: ram:TradeSettlementPaymentMeansType

Cardinality: 0..n

EN 16931-ID: BG-16

Comfort: X

Extended: X

### TypeCode

Payment means type (code)

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeSettlement/SpecifiedTradeSettlementPaymentMeans/TypeCode*

Data Type: qdt:PaymentMeansCodeType

Cardinality: 1..1

Usage: ZZZ : Mutually defined

Remark: BMW only uses the code ZZZ

EN 16931-ID: BT-81

Example ZZZ

Comfort: X

Extended: X

### Information

Free text information on payment means

Status: **D**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeSettlement/SpecifiedTradeSettlementPaymentMeans/Information*

Data Type: udt:TextType

Cardinality: 0..1

EN 16931-ID: BT-82

Example per bank transfer

Comfort: X

Extended: X

## Details - ZUGFeRD 2.0 schema

<b>PayerPartyDebtorFinancialAccount</b>		Buyer's financial institution
Status:	<b>D</b>	
Path:	<i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeSettlement/SpecifiedTradeSettlementPaymentMeans/ PayerPartyDebtorFinancialAccount</i>	
Data Type:	ram:DebtorFinancialAccountType	
Cardinality:	0..1	
Comfort:	X	
Extended:	X	
<b>IBANID</b>		IBAN
Status:	<b>R</b>	
Path:	<i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeSettlement/SpecifiedTradeSettlementPaymentMeans/ PayerPartyDebtorFinancialAccount/IBANID</i>	
Data Type:	udt:IDType	
Length:	1 ...	
Cardinality:	1..1	
Remark:	Must be stated with direct debit	
EN 16931-ID:	BG-19/BT-91	
Example	DE55 1234 5678 9012 3456 12	
Comfort:	X	
Extended:	X	
<b>PayeePartyCreditorFinancialAccount</b>		Seller's bank account
Status:	<b>D</b>	
Path:	<i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeSettlement/SpecifiedTradeSettlementPaymentMeans/ PayeePartyCreditorFinancialAccount</i>	
Data Type:	ram:CreditorFinancialAccountType	
Cardinality:	0..1	
EN 16931-ID:	BG-17	
Comfort:	X	
Extended:	X	
<b>IBANID</b>		IBAN
Status:	<b>D</b>	
Path:	<i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeSettlement/SpecifiedTradeSettlementPaymentMeans/ PayeePartyCreditorFinancialAccount/IBANID</i>	
Data Type:	udt:IDType	
Cardinality:	0..1	
EN 16931-ID:	BT-84	
Example	DE55 5678 5678 9012 3456 12	
Comfort:	X	
Extended:	X	
<b>AccountName</b>		Financial account name
Status:	<b>O</b>	
Path:	<i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeSettlement/SpecifiedTradeSettlementPaymentMeans/ PayeePartyCreditorFinancialAccount/AccountName</i>	
Data Type:	udt:TextType	
Length:	1 ... 60	
Synonym:	Account holder	
Cardinality:	0..1	
Remark:	Only required if different to payee / seller.	
EN 16931-ID:	BT-85	
Example	Supplier Ltd.	
Comfort:	X	
Extended:	X	

## Details - ZUGFeRD 2.0 schema

<b>PayeeSpecifiedCreditorFinancialInstitution</b>		Seller's financial institution
Status: <b>D</b>		
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeSettlement/SpecifiedTradeSettlementPaymentMeans/</i> <i>PayeeSpecifiedCreditorFinancialInstitution</i>		
Data Type: ram:CreditorFinancialInstitutionType		
Cardinality: 0..1		
Comfort: X		
Extended: X		
<b>BICID</b>		BIC
Status: <b>R</b>		
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeSettlement/SpecifiedTradeSettlementPaymentMeans/</i> <i>PayeeSpecifiedCreditorFinancialInstitution/BICID</i>		
Data Type: udt:IDType		
Length: 1 ...		
Cardinality: 1..1		
EN 16931-ID: BT-86		
Example XXXXXXXXXXXX		
Comfort: X		
Extended: X		
<b>ApplicableTradeTax</b>		Details on trade tax
Status: <b>R</b>		
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeSettlement/ApplicableTradeTax</i>		
Data Type: ram:TradeTaxType		
Cardinality: 1..n		
EN 16931-ID: BG-23		
Comfort: X		
Extended: X		
<b>CalculatedAmount</b>		Tax calculated amount
Status: <b>R</b>		
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeSettlement/ApplicableTradeTax/CalculatedAmount</i>		
Data Type: udt:AmountType		
Cardinality: 1..1		
EN 16931-ID: BT-117		
Example 451.03		
Comfort: X		
Extended: X		
<b>TypeCode</b>		Tax type (code)
Status: <b>R</b>		
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/</i> <i>ApplicableHeaderTradeSettlement/ApplicableTradeTax/TypeCode</i>		
Data Type: qdt:TaxTypeCodeType		
Cardinality: 1..1		
Remark: fixed value = "VAT"		
EN 16931-ID: BT-118-0		
Example VAT		
Comfort: X		
Extended: X		

## Details - ZUGFeRD 2.0 schema

### ExemptionReason

Exemption reason (free text)

Status: **D**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeSettlement/ApplicableTradeTax/ExemptionReason*

Data Type: udt:TextType

Cardinality: 0..1

Usage: If the invoice is exempt from tax a reason is required

EN 16931-ID: BT-120

Example Tax Exempt - Zero Tax Goods

Comfort: X

Extended: X

### BasisAmount

Tax base amount

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeSettlement/ApplicableTradeTax/BasisAmount*

Data Type: udt:AmountType

Cardinality: 1..1

EN 16931-ID: BT-116

Example 2373.86

Comfort: X

Extended: X

### LineTotalBasisAmount

Goods amount for tax rate

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeSettlement/ApplicableTradeTax/LineTotalBasisAmount*

Data Type: udt:AmountType

Cardinality: 0..1

Example 2373.86

Extended: X

### CategoryCode

Tax category

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeSettlement/ApplicableTradeTax/CategoryCode*

Data Type: qdt:TaxCategoryCodeType

Cardinality: 1..1

Remark: Identification of exceptions, S = default

EN 16931-ID: BT-118

Example S

Comfort: X

Extended: X

**Codelist:** UNTDID 5305

Allowed codes:	Code	Codename
	AE	VAT Reverse Charge
	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
	M	Tax for production, services and importation in Ceuta and Melilla
	O	Services outside scope of tax
	S	Standard rate
	Z	Zero rated goods

## Details - ZUGFeRD 2.0 schema

### RateApplicablePercent

Tax rate percentage

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/*  
*ApplicableHeaderTradeSettlement/ApplicableTradeTax/RateApplicablePercent*

Data Type: udt:PercentType

Cardinality: 0..1

Usage: The value to be entered is the percentage. For example, the value 20 is given for 20% (and not 0.2)

EN 16931-ID: BT-119

Example 19.00

Comfort: X

Extended: X

### SpecifiedTradeAllowanceCharge

Details on allowances and charges

Status: **D**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/*  
*ApplicableHeaderTradeSettlement/SpecifiedTradeAllowanceCharge*

Data Type: ram:TradeAllowanceChargeType

Cardinality: 0..n

EN 16931-ID: BG-20, BG-21

Comfort: X

Extended: X

### ChargeIndicator

Charge indicator

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/*  
*ApplicableHeaderTradeSettlement/SpecifiedTradeAllowanceCharge/ChargeIndicator*

Data Type: udt:IndicatorType

Cardinality: 1..1

EN 16931-ID: BG-20-0, BG-21-0

Comfort: X

Extended: X

### Indicator

Charge indicator, value

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/*  
*ApplicableHeaderTradeSettlement/SpecifiedTradeAllowanceCharge/ChargeIndicator/*  
*Indicator*

Data Type: xs:boolean

Cardinality: 1..1

Usage: For discount (BG-27), the value of the ChargeIndicator must be set to "false".  
For surcharge (BG-28), the value of the ChargeIndicator must be set to "true".

EN 16931-ID: BG-20-00, BG-21-00

Example false

Comfort: X

Extended: X

### CalculationPercent

Allowance Charge Percent

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/*  
*ApplicableHeaderTradeSettlement/SpecifiedTradeAllowanceCharge/CalculationPercent*

Data Type: udt:PercentType

Cardinality: 0..1

Remark: Up to level COMFORT only the final result of the calculation is given. (Actual.Amount)

EN 16931-ID: BT-94, BT-101

Example 0.00

Comfort: X

Extended: X

## Details - ZUGFeRD 2.0 schema

ActualAmount	Allowance or charge actual amount
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeSettlement/SpecifiedTradeAllowanceCharge/ActualAmount</i> Data Type: udt:AmountType Cardinality: 1..1 EN 16931-ID: BT-92 BT-99	
Example 0.00	
Comfort: X	
Extended: X	
ReasonCode	Reason for allowance or charge (Code)
Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeSettlement/SpecifiedTradeAllowanceCharge/ReasonCode</i> Data Type: qdt:AllowanceChargeReasonCodeType Cardinality: 0..1 EN 16931-ID: BT-98, BT-105	
Example FC	
Comfort: X	
Extended: X	
Reason	Reason for allowance or charge (free text)
Status: <b>O</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeSettlement/SpecifiedTradeAllowanceCharge/Reason</i> Data Type: udt:TextType Cardinality: 0..1 EN 16931-ID: BT-97 BT-104	
Example Freight service	
Comfort: X	
Extended: X	
CategoryTradeTax	Details of tax information
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeSettlement/SpecifiedTradeAllowanceCharge/CategoryTradeTax</i> Data Type: ram:TradeTaxType Cardinality: 1..1	
Comfort: X	
Extended: X	
TypeCode	Tax type (Code)
Status: <b>R</b> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeSettlement/SpecifiedTradeAllowanceCharge/ CategoryTradeTax/TypeCode</i> Data Type: qdt:TaxTypeCodeType Cardinality: 1..1 Remark: fixed value = "VAT" EN 16931-ID: BT-95-0 BT-102-0	
Example VAT	
Comfort: X	
Extended: X	

## Details - ZUGFeRD 2.0 schema

### CategoryCode

Tax category

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeSettlement/SpecifiedTradeAllowanceCharge/  
CategoryTradeTax/CategoryCode*

Data Type: qdt:TaxCategoryCodeType

Cardinality: 1..1

EN 16931-ID: BT-95  
BT-102

Example S

Comfort: X

Extended: X

Codelist: UNTDID 5305

Allowed codes:	Code	Codename
	AE	VAT Reverse Charge
	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
	M	Tax for production, services and importation in Ceuta and Melilla
	O	Services outside scope of tax
	S	Standard rate
	Z	Zero rated goods

### RateApplicablePercent

Tax rate percentage

Status: **D**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeSettlement/SpecifiedTradeAllowanceCharge/  
CategoryTradeTax/RateApplicablePercent*

Data Type: udt:PercentType

Cardinality: 0..1

EN 16931-ID: BT-96, BT-103

Example 19.00

Comfort: X

Extended: X

### SpecifiedLogisticsServiceCharge

Details on logistics service charges

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeSettlement/SpecifiedLogisticsServiceCharge*

Data Type: ram:LogisticsServiceChargeType

Synonym: Transport and packaging costs

Cardinality: 0..n

Extended: X

### Description

Service charge ID

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeSettlement/SpecifiedLogisticsServiceCharge/Description*

Data Type: udt:TextType

Length: 1 ...

Cardinality: 1..1

Example Shipping and packaging costs

Extended: X

## Details - ZUGFeRD 2.0 schema

<b>AppliedAmount</b>	Service charge amount
Status: <b>R</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeSettlement/SpecifiedLogisticsServiceCharge/AppliedAmount</i>	
Data Type: udt:AmountType	
Cardinality: 1..1	
Example 4.95	
Extended: X	
<b>AppliedTradeTax</b>	Details on taxes
Status: <b>D</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeSettlement/SpecifiedLogisticsServiceCharge/AppliedTradeTax</i>	
Data Type: ram:TradeTaxType	
Cardinality: 0..n	
Extended: X	
<b>TypeCode</b>	Tax type (Code)
Status: <b>O</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeSettlement/SpecifiedLogisticsServiceCharge/AppliedTradeTax/ TypeCode</i>	
Data Type: qdt:TaxTypeCodeType	
Cardinality: 0..1	
Example VAT	
Extended: X	
<b>CategoryCode</b>	Tax category
Status: <b>R</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeSettlement/SpecifiedLogisticsServiceCharge/AppliedTradeTax/ CategoryCode</i>	
Data Type: qdt:TaxCategoryCodeType	
Cardinality: 1..1	
Example S	
Extended: X	
<b>RateApplicablePercent</b>	Tax rate percentage
Status: <b>R</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeSettlement/SpecifiedLogisticsServiceCharge/AppliedTradeTax/ RateApplicablePercent</i>	
Data Type: udt:PercentType	
Cardinality: 1..1	
Example 19.00	
Extended: X	
<b>SpecifiedTradePaymentTerms</b>	Details on payment terms
Status: <b>D</b>	
Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/ ApplicableHeaderTradeSettlement/SpecifiedTradePaymentTerms</i>	
Data Type: ram:TradePaymentTermsType	
Cardinality: 0..n	
Comfort: X	
Extended: X	

## Details - ZUGFeRD 2.0 schema

### Description

Free text of the payment terms

Status: **D**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeSettlement/SpecifiedTradePaymentTerms/Description*

Data Type: udt:TextType

Cardinality: 0..1

EN 16931-ID: BT-20

Example Payable within 30 days from date of invoice

Comfort: X

Extended: X

### DueDateDateTime

Due date

Status: **D**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeSettlement/SpecifiedTradePaymentTerms/DueDateDateTime*

Data Type: udt:DateTimeType

Cardinality: 0..1

Comfort: X

Extended: X

### DateTimeString

Due date, value

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeSettlement/SpecifiedTradePaymentTerms/DueDateDateTime/  
DateTimeString*

Data Type: extension (xsd:string)

Length: 1 ...

Cardinality: 1..1

EN 16931-ID: BT-9

Example 20200301

Comfort: X

Extended: X

### format

Date, format

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeSettlement/SpecifiedTradePaymentTerms/DueDateDateTime/  
DateTimeString/@format*

Data Type: xs:string

Use: required

EN 16931-ID: BT-9-0

Note: YYYYMMDD

Example 102

Comfort: X

Extended: X

Codelist: UNTDID 2379

Allowed codes:	Code	Codename
	102	CCYYMMDD

### SpecifiedTradeSettlementHeaderMonetarySummation

Details of document totals

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeSettlement/  
SpecifiedTradeSettlementHeaderMonetarySummation*

Data Type: ram:TradeSettlementHeaderMonetarySummationType

Cardinality: 1..1

EN 16931-ID: BG-22

Comfort: X

Extended: X

## Details - ZUGFeRD 2.0 schema

### LineTotalAmount

Line total amount

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeSettlement/  
SpecifiedTradeSettlementHeaderMonetarySummation/LineTotalAmount*

Data Type: udt:AmountType

Synonym: Total amount of positions

Cardinality: 1..1

Remark: Net amount

EN 16931-ID: BT-106

Note: Sum of all invoice item net amounts on the invoice

Example 2373.86

Comfort: X

Extended: X

### ChargeTotalAmount

Charge total amount, document level

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeSettlement/  
SpecifiedTradeSettlementHeaderMonetarySummation/ChargeTotalAmount*

Data Type: udt:AmountType

Cardinality: 0..1

Remark: Surcharges for the item level are already included in the total item amounts, which are added together to obtain the total net amount of the items.

EN 16931-ID: BT-108

Example 0.00

Comfort: X

Extended: X

### AllowanceTotalAmount

Allowance total amount, document level

Status: **O**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeSettlement/  
SpecifiedTradeSettlementHeaderMonetarySummation/AllowanceTotalAmount*

Data Type: udt:AmountType

Cardinality: 0..1

Remark: Discounts at item level are already included in the total item amounts, which are added together to obtain the total net amount of the items.

EN 16931-ID: BT-107

Note: Sum of all discounts of the document level contained in the invoice

Example 0.00

Comfort: X

Extended: X

### TaxBasisTotalAmount

Tax basis total amount

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeSettlement/  
SpecifiedTradeSettlementHeaderMonetarySummation/TaxBasisTotalAmount*

Data Type: udt:AmountType

Cardinality: 1..2

Remark: Sum of line total amount + charge totals - allowance totals

EN 16931-ID: BT-109

Comfort: X

Extended: X

## Details - ZUGFeRD 2.0 schema

currencyID	Currency (code)
Status: <span style="color: red;">O</span> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/            ApplicableHeaderTradeSettlement/            SpecifiedTradeSettlementHeaderMonetarySummation/TaxBasisTotalAmount/            @currencyID</i> Data Type: xs:token Remark: ISO 4217 codelist	
TaxTotalAmount	Tax total amount
Status: <span style="color: red;">R</span> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/            ApplicableHeaderTradeSettlement/            SpecifiedTradeSettlementHeaderMonetarySummation/TaxTotalAmount</i> Data Type: udt:AmountType Cardinality: 1..2 Remark: The total amount of tax is the sum of all amounts for the individual tax categories EN 16931-ID: BT-110, BT-111	
Comfort: X	
Extended: X	
currencyID	Currency
Status: <span style="color: red;">R</span> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/            ApplicableHeaderTradeSettlement/            SpecifiedTradeSettlementHeaderMonetarySummation/TaxTotalAmount/@currencyID</i> Data Type: xs:token Remark: @currencyID is mandatory to differentiate between VAT amount and VAT amount in accounting currency. Use: required EN 16931-ID: BT-110-0, BT-111-0 Example EUR	
Comfort: X	
Extended: X	
GrandTotalAmount	Grand total
Status: <span style="color: red;">R</span> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/            ApplicableHeaderTradeSettlement/            SpecifiedTradeSettlementHeaderMonetarySummation/GrandTotalAmount</i> Data Type: udt:AmountType Synonym: Invoice total amount Cardinality: 1..2 EN 16931-ID: BT-112 Note: The total amount of the invoice with tax Example 2824.89	
Comfort: X	
Extended: X	
currencyID	Currency (code)
Status: <span style="color: red;">O</span> Path: <i>CrossIndustryInvoice/SupplyChainTradeTransaction/            ApplicableHeaderTradeSettlement/            SpecifiedTradeSettlementHeaderMonetarySummation/GrandTotalAmount/@currencyID</i> Data Type: xs:token Remark: ISO 4217 codelist Example EUR	
Extended: X	

## Details - ZUGFeRD 2.0 schema

### TotalPrepaidAmount

Total prepaid amount

Status: **D**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeSettlement/  
SpecifiedTradeSettlementHeaderMonetarySummation/TotalPrepaidAmount*

Data Type: udt:AmountType

Synonym: Down payment

Cardinality: 0..1

EN 16931-ID: BT-113

Note: This field can be used for indication of received prepayments.

Example 0.00

Comfort: X

Extended: X

### DuePayableAmount

Due payable amount

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/  
ApplicableHeaderTradeSettlement/  
SpecifiedTradeSettlementHeaderMonetarySummation/DuePayableAmount*

Data Type: udt:AmountType

Synonym: Payable amount

Cardinality: 1..1

Remark: With prepayments it is different to the grand total.

EN 16931-ID: BT-115

Note: In the case of prepayments made, this amount may differ from the invoice total amount

Example 2824.89

Comfort: X

Extended: X

### InvoiceReferencedDocument

Details on referenced invoice

Status: **D**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/  
InvoiceReferencedDocument*

Data Type: ram:ReferencedDocumentType

Cardinality: 0..1

Remark: To be used if:

- a previous invoice is corrected;
- reference from a final invoice to previous partial invoices;
- reference is made to a previous invoice for prepayments from a final invoice.

EN 16931-ID: BG-3

Note: previous invoice number, original invoice number

Comfort: X

Extended: X

### IssuerAssignedID

Invoice number previous document

Status: **R**

Path: *CrossIndustryInvoice/SupplyChainTradeTransaction/ApplicableHeaderTradeSettlement/  
InvoiceReferencedDocument/IssuerAssignedID*

Data Type: udt:IDType

Length: 1 ...

Cardinality: 1..1

EN 16931-ID: BT-25

Example F111N22

Comfort: X

Extended: X