SIEMENS energy



Illustration of Surcharges

Overview of the various types of surcharges (CII/UBL) in terms of surcharge amount:

	1. BT- 99 Header Level/Document Level	2. BT-141 Position Level/Invoice Item	3. n/a Surcharge Price Level
CII	/**rsm**:CrossIndustryInvoice/**rsm**:SupplyChainTradeTransaction/**ram**:ApplicableHeaderTradeSettlement/**ram**:SpecifiedTradeAllowanceCharge/**ram**:ActualAmount	/**rsm**:CrossIndustryInvoice/**rsm**:SupplyChainTradeTransaction/**ram**:IncludedSupplyChainTradeLineItem/**ram**:SpecifiedLineTradeSettlement/**ram**:SpecifiedTradeAllowanceCharge/**ram**:ActualAmount	not allowed according to EN 16931 (only discounts at price-level)
UBL	/**cac**:AllowanceCharge/**cbc**:Amount	/**cac**:InvoiceLine/cac:AllowanceCharge/**cbc**:Amount	not allowed according to EN 16931 (only discounts at price-level)

1. Surcharges at Header Level / Document Level

Field	Content	Description
BT-99	Surcharge value (net)	Surcharge amount (excluding value added tax) added to the total invoice amount
BG-21	Document level surcharges	
BG-22	Total amounts at the document level	
BT-100	Base amount (net)	Base amount, which results in the surcharge amount when multiplied by the surcharge percentage
BT-101	Percentage surcharge at the document level	Percentage markup (e.g. 50 für 50%)
BT-103	Value-added tax rate on the surcharge	Value-added tax rate (in percent) applicable to the surcharge
BT-104	Reason for the surcharge at the document level	Explanation of the surcharge
BT-105	Code for the reason for the surcharge at the document level	List of permitted codes https://erechnung.berlin/cii/5189allowance/
BT-108	Total of surcharges at the document level	Total sum of all surcharges at invoice level (excluding surcharges at invoice item level)

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1.1 Surcharges at Header Level / Document Level – Example

Your invoice contains multiple items, and you want to apply a shipping surcharge to the entire order:

Invoice

	Item	Quantity	Price	Tax	Total
1	Position 1 ABC Item No. (Seller): Material No 1	2 H87	100,00 €	19% S	200,00 €
2	Position 2 ABC Item No. (Seller): Material No. 2	1 H87	200,00 €	19% S	200,00 €
Charge	Shipping			19% S	10,00 €

Sum items (net):	400,00 €
Charge (net):	10,00 €
Total (net):	410,00 €
Tax 19% (S):	77,90 €
Total (gross):	487,90 €
Amount due:	**487,90 €**

1.2 Surcharges at Header Level / Document Level – Structure CII

SpecifiedTradeAllowanceCharge	Surcharges at document level	BG-21
ChargeIndicator	Surcharge indicator	BG-21
Indicator	Indicator	BG-21
CalculationPercent	Percentage surcharge at document level	BT-101
BasisAmount	Base amount of the surcharge at document level	BT-100
ActualAmount	Amount of the surcharge at document level	BT-99
ReasonCode	Code for the reason of the surcharge at document level	BT-105
Reason	Reason for the surcharge at document level	BT-104
CategoryTradeTax	Detailed tax information	BT-102
TypeCode	Type of tax (code)	BT-102
CategoryCode	VAT category code applicable to the surcharge at document level	BT-102
RateApplicablePercent	VAT rate of the surcharge at document level	BT-101
SpecifiedTradeSettlementHeaderMonetarySummation	Total sum at document level	BG-22
LineTotalAmount	Total of the net amounts of all invoice items	BT-106
ChargeTotalAmount	Total of the surcharges at the document level	BT-108

```
<ram:SpecifiedTradeAllowanceCharge>
    <ram:ChargeIndicator>
        <udt:Indicator>true</udt:Indicator>
    </ram:ChargeIndicator>
    <ram:CalculationPercent>2.5</ram:CalculationPercent>
    <ram:BasisAmount>400.00</ram:BasisAmount>
    <ram:ActualAmount>10.00</ram:ActualAmount>
    <ram:Reason>Shipping</ram:Reason>
    <ram:CategoryTradeTax>
        <ram:TypeCode>VAT</ram:TypeCode>
        <ram:CategoryCode>S</ram:CategoryCode>
        <ram:RateApplicablePercent>19</ram:RateApplicablePercent>
    </ram:CategoryTradeTax>
</ram:SpecifiedTradeAllowanceCharge>
```

```
<ram:SpecifiedTradeSettlementHeaderMonetarySummation>
    <ram:LineTotalAmount>400.00</ram:LineTotalAmount>
    <ram:ChargeTotalAmount>10.00</ram:ChargeTotalAmount>
    <ram:TaxBasisTotalAmount>410.00</ram:TaxBasisTotalAmount>
    <ram:TaxTotalAmount currencyID="EUR">77.90</ram:TaxTotalAmount>
    <ram:GrandTotalAmount>487.90</ram:GrandTotalAmount>
    <ram:DuePayableAmount>487.90</ram:DuePayableAmount>
</ram:SpecifiedTradeSettlementHeaderMonetarySummation>
```

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1.3 Surcharges at Header Level / Document Level – Structure UBL

cac:AllowanceCharge	Surcharges at document level	BG-21
cbc:ChargeIndicator	Surcharges at document level	BG-21
cbc:AllowanceChargeReasonCode	Code of the reason for the surcharge at document level	BT-105
cbc:AllowanceChargeReason	Reason for the surcharge at document level	BT-104
cbc:MultiplierFactorNumeric	Percentage surcharge at document level	BT-101
cbc:Amount	Amount of the surcharge at document level	BT-99
cbc:BaseAmount	Base amount of the surcharge at document level	BT-100
cac:TaxCategory		
cbc:ID		
cbc:Percent	VAT rate applicable to the surcharge at document level	BT-103
cac:TaxScheme		

cac:LegalMonetaryTotal	Total sum at document level	BG-22
cbc:LineExtensionAmount	Sum of the net amounts of all invoice items	BT-106
cbc:TaxExclusiveAmount	Total invoice amount excluding VAT	BT-109
cbc:TaxInclusiveAmount	Total invoice amount including VAT	BT-112
cbc:AllowanceTotalAmount	Total discount amount at document level	BT-107
cbc:ChargeTotalAmount	Total surcharge amount at document level	BT-108
cbc:PrepaidAmount	Prepaid amount	BT-113
cbc:PayableRoundingAmount	Rounding amount	BT-114
cbc:PayableAmount	Amount payable	BT-115

```
<cac:AllowanceCharge>
    <cbc:ChargeIndicator>true</cbc:ChargeIndicator>
    <cbc:AllowanceChargeReason>Shipping</cbc:AllowanceChargeReason>
    <cbc:MultiplierFactorNumeric>2.5</cbc:MultiplierFactorNumeric>
    <cbc:Amount currencyID="EUR">10</cbc:Amount>
    <cbc:BaseAmount currencyID="EUR">400</cbc:BaseAmount>
    <cac:TaxCategory>
        <cbc:ID>S</cbc:ID>
        <cbc:Percent>19</cbc:Percent>
        <cac:TaxScheme>
            <cbc:ID>VAT</cbc:ID>
        </cac:TaxScheme>
    </cac:TaxCategory>
</cac:AllowanceCharge>
```

```
<cac:TaxTotal>
    <cbc:TaxAmount currencyID="EUR">77.9</cbc:TaxAmount>
    <cac:TaxSubtotal>
        <cbc:TaxableAmount currencyID="EUR">410</cbc:TaxableAmount>
        <cbc:TaxAmount currencyID="EUR">77.9</cbc:TaxAmount>
        <cac:TaxCategory>
            <cbc:ID>S</cbc:ID>
            <cbc:Percent>19</cbc:Percent>
            <cac:TaxScheme>
                <cbc:ID>VAT</cbc:ID>
            </cac:TaxScheme>
        </cac:TaxCategory>
    </cac:TaxSubtotal>
</cac:TaxTotal>
<cac:LegalMonetaryTotal>
    <cbc:LineExtensionAmount currencyID="EUR">400</cbc:LineExtensionAmount>
    <cbc:TaxExclusiveAmount currencyID="EUR">410</cbc:TaxExclusiveAmount>
    <cbc:TaxInclusiveAmount currencyID="EUR">487.9</cbc:TaxInclusiveAmount>
    <cbc:ChargeTotalAmount currencyID="EUR">10</cbc:ChargeTotalAmount>
    <cbc:PayableAmount currencyID="EUR">487.9</cbc:PayableAmount>
</cac:LegalMonetaryTotal>
```

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2. Surcharges at Position Level / Invoice Item

Field	Content	Description
BG-28	Surcharges at invoice item level	Surcharge value (excluding VAT) that will be added to the total invoice line item amount.
BT-141	Amount of the surcharge at the invoice item level	Surcharge amount (excluding VAT) that will be added to the invoice item amount
BT-142	Base amount of the surcharge at the invoice item level	Base amount that, when multiplied by the surcharge percentage results into the surcharge amount
BT-143	Percentage markup at the invoice item level	Percentage surcharge (z.B. 50 für 50%)
BT-144	Reason for the surcharge at the invoice item level	Explanation of the surcharge
BT-145	Code indicating the reason for the invoice item surcharge	Overview of the codes allowed https://erechnung.berlin/cii/5189allowance/
BT-131	Net value of the invoice item	Total price (excluding VAT) but including all applicable discounts and surcharges for the invoice line item, as well as any other applicable taxes

2.1 Surcharges at Position Level / Invoice Item – Example

Your invoice includes several items, and you would like to apply a material surcharge for a position:

Invoice

	Item	Quantity	Price	Charge	Tax	Total
1	Position 1 ABC Item No. (Seller): Material No 1	2 H87	100,00 €		19% S	200,00 €
2	Position 2 ABC Item No. (Seller): Material No. 2 Charge: 20,00 € (10%) - Material surcharge	1 H87	200,00 €	20,00 €	19% S	220,00 €

Total (net):	420,00 €
Tax 19% (S):	79,80 €
Total (gross):	499,80 €
Amount due:	**499,80 €**

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2.2 Surcharges at Position Level / Invoice Item – Structure CII

SpecifiedTradeAllowanceCharge	Surcharges at the invoice line item level	BG-28
ChargeIndicator	Surcharge indicator	BG-28
Indicator	Surcharge indicator, value	BG-28
CalculationPercent	Percentage surcharge at the invoice line item level	BT-143
BasisAmount	Base amount of the surcharge at the invoice line item level	BT-142
ActualAmount	Amount of the surcharge at the invoice line item level	BT-141
ReasonCode	Code for the reason for the surcharge at the invoice line item level	BT-145
Reason	Reason for the surcharge at the invoice line item level	BT-144
SpecifiedTradeSettlementLineMonetarySummation	Detailed information on line item totals	BT-131
LineTotalAmount	Net amount of the invoice line item	BT-131

```
<ram:SpecifiedLineTradeAgreement>
    <ram:NetPriceProductTradePrice>
        <ram:ChargeAmount>200.00</ram:ChargeAmount>
        <ram:BasisQuantity unitCode="H87">1</ram:BasisQuantity>
    </ram:NetPriceProductTradePrice>
</ram:SpecifiedLineTradeAgreement>


<ram:SpecifiedLineTradeSettlement>
    <ram:ApplicableTradeTax>
        <ram:TypeCode>VAT</ram:TypeCode>
        <ram:CategoryCode>S</ram:CategoryCode>
        <ram:RateApplicablePercent>19</ram:RateApplicablePercent>
    </ram:ApplicableTradeTax>
    <ram:SpecifiedTradeAllowanceCharge>
        <ram:ChargeIndicator>
            <udt:Indicator>true</udt:Indicator>
        </ram:ChargeIndicator>
        <ram:CalculationPercent>10</ram:CalculationPercent>
        <ram:BasisAmount>200.00</ram:BasisAmount>
        <ram:ActualAmount>20.00</ram:ActualAmount>
        <ram:Reason>Material surcharge</ram:Reason>
    </ram:SpecifiedTradeAllowanceCharge>
    <ram:SpecifiedTradeSettlementLineMonetarySummation>
        <ram:LineTotalAmount>220.00</ram:LineTotalAmount>
    </ram:SpecifiedTradeSettlementLineMonetarySummation>
</ram:SpecifiedLineTradeSettlement>
<ram:ApplicableHeaderTradeSettlement>
    <ram:InvoiceCurrencyCode>EUR</ram:InvoiceCurrencyCode>
    <ram:ApplicableTradeTax>
        <ram:CalculatedAmount>79.80</ram:CalculatedAmount>
        <ram:TypeCode>VAT</ram:TypeCode>
        <ram:BasisAmount>420.00</ram:BasisAmount>
        <ram:CategoryCode>S</ram:CategoryCode>
        <ram:RateApplicablePercent>19</ram:RateApplicablePercent>
    </ram:ApplicableTradeTax>
    <ram:SpecifiedTradePaymentTerms>
        <ram:Description>    Payment terms: 30 days net    :/ram:Description>
        <ram:DueDateDateTime>
            <udt:DateTimeString format="102">20250409</udt:DateTimeString>
        </ram:DueDateDateTime>
    </ram:SpecifiedTradePaymentTerms>
    <ram:SpecifiedTradeSettlementHeaderMonetarySummation>
        <ram:LineTotalAmount>420.00</ram:LineTotalAmount>
        <ram:TaxBasisTotalAmount>420.00</ram:TaxBasisTotalAmount>
        <ram:TaxTotalAmount currencyID="EUR">79.80</ram:TaxTotalAmount>
        <ram:GrandTotalAmount>499.80</ram:GrandTotalAmount>
        <ram:DuePayableAmount>499.80</ram:DuePayableAmount>
    </ram:SpecifiedTradeSettlementHeaderMonetarySummation>
</ram:ApplicableHeaderTradeSettlement>
```

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2.3 Surcharges at Position Level / Invoice Item – Structure UBL

cac:AllowanceCharge	Surcharges at the invoice line item level	BG-28
cbc:ChargeIndicator	Surcharges at the invoice line item level	BG-28
cbc:AllowanceChargeReasonCode	Code for the reason for the surcharge at the invoice line item level	BT-145
cbc:AllowanceChargeReason	Reason for the surcharge at the invoice line item level	BT-144
cbc:MultiplierFactorNumeric	Percentage surcharge at the invoice line item level	BT-143
cbc:Amount	Amount of the surcharge at the invoice line item level	BT-141
cbc:BaseAmount	Base amount of the surcharge at the invoice line item level	BT-141
cbc:LineExtensionAmount	Net amount of the invoice item	BT-131

```
<cac:InvoiceLine>
    <cbc:ID>2</cbc:ID>
    <cbc:InvoicedQuantity unitCode="H87">1</cbc:InvoicedQuantity>
    <cbc:LineExtensionAmount currencyID="EUR">220</cbc:LineExtensionAmount>
    <cac:AllowanceCharge>
        <cbc:ChargeIndicator>true</cbc:ChargeIndicator>
        <cbc:AllowanceChargeReason>Material surcharge</cbc:AllowanceChargeReason>
        <cbc:MultiplierFactorNumeric>10</cbc:MultiplierFactorNumeric>
        <cbc:Amount currencyID="EUR">20</cbc:Amount>
        <cbc:BaseAmount currencyID="EUR">200</cbc:BaseAmount>
    </cac:AllowanceCharge>
    <cac:Item>
        <cbc:Name>Position 2 ABC</cbc:Name>
        <cac:SellersItemIdentification>
            <cbc:ID>Material No. 2</cbc:ID>
        </cac:SellersItemIdentification>
        <cac:ClassifiedTaxCategory>
            <cbc:ID>S</cbc:ID>
            <cbc:Percent>19</cbc:Percent>
            <cac:TaxScheme>
                <cbc:ID>VAT</cbc:ID>
            </cac:TaxScheme>
        </cac:ClassifiedTaxCategory>
    </cac:Item>
    <cac:Price>
        <cbc:PriceAmount currencyID="EUR">200</cbc:PriceAmount>
    </cac:Price>
</cac:InvoiceLine>
```

```
<cac:TaxTotal>
    <cbc:TaxAmount currencyID="EUR">79.8</cbc:TaxAmount>
    <cac:TaxSubtotal>
        <cbc:TaxableAmount currencyID="EUR">420</cbc:TaxableAmount>
        <cbc:TaxAmount currencyID="EUR">79.8</cbc:TaxAmount>
        <cac:TaxCategory>
            <cbc:ID>S</cbc:ID>
            <cbc:Percent>19</cbc:Percent>
            <cac:TaxScheme>
                <cbc:ID>VAT</cbc:ID>
            </cac:TaxScheme>
        </cac:TaxCategory>
    </cac:TaxSubtotal>
</cac:TaxTotal>
<cac:LegalMonetaryTotal>
    <cbc:LineExtensionAmount currencyID="EUR">420</cbc:LineExtensionAmount>
    <cbc:TaxExclusiveAmount currencyID="EUR">420</cbc:TaxExclusiveAmount>
    <cbc:TaxInclusiveAmount currencyID="EUR">499.8</cbc:TaxInclusiveAmount>
    <cbc:PayableAmount currencyID="EUR">499.8</cbc:PayableAmount>
</cac:LegalMonetaryTotal>
```

3. Surcharges at Price Level

Attention! According to EN 16931 it is not allowed to report price-based surcharges, this is only possible for discounts.

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