

Opentrans V2.1 Invoice

Competec Service AG

Version 1.1, 12-07-2024

Preface

This document describes the implementation of Opentrans V2.1 for supplier invoice.

Invoice Header

Control Info

Table 1. Control info elements

Element name	Description	Example	Required
GENERATION_DATE	Date Time	2023-04-22T09:48:11	YES

Invoice Info

Table 2. dispatch notification info elements

Element name	Description	Example	Required
INVOICE_ID	Invoice ID	1112223334	YES
INVOICE_DATE	Date Time	2023-04-22T09:48:11	YES
INVOICE_TYPE	Document type	only invoice is supported	YES
DELIVERYNOTE_ID	Delivery Note ID	778899445566	
PARTIES	Parties	Parties	YES
INVOICE_ISSUER_IDREF	References	Address referencing	YES
INVOICE_RECIPIENT_IDREF	References	Address referencing	YES
CURRENCY	Currency	CHF	YES
PAYMENT	Tracking URL	Payment	

Parties

Required parties are SUPPLIER and BUYER.

Table 3. Party Elements

Element name	Description	Example
PARTY_ID	buyer_specific ID	Party Identifiers
PARTY_ROLE	Identifies the role of this party	buyer
ADDRESS	Address data	Address

Party Identifiers

type	Description	Remarks
gln	gln	for all parties, optional
supplier_specific	ID given by supplier	mandatory for buyer/invoice receiver party

type	Description	Remarks
buyer_specific	ID given by buying party	mandatory for supplier/invoice issuer party

Party Role

Supported codes for PARTY_ROLE and their interpretation:

Code	Description	Remarks
buyer	Buyers Address	preferred
supplier	Suppliers Address	preferred
invoice_issuer	Suppliers Address	Alternative to buyer
invoice_recipient	Buyer Address	Alternative to supplier

Address

Table 4. Address Elements

Element name	Description	Example	Required
NAME	Company Name	Sample AG	YES
STREET	Street	Mustergasse 1	YES
ZIP	ZIP	8000	YES
CITY	City	Zürich	YES
COUNTRY_CODED	Country code	CH	
VAT_ID	Vat number	CH...	supplier: YES

Example Parties Block:

```
<PARTIES>
  <PARTY>
    <bmeecat:PARTY_ID type="gln">760000000000</bmeecat:PARTY_ID>
    <bmeecat:PARTY_ID type="supplier_specific">K1234567</bmeecat:PARTY_ID>
    <PARTY_ROLE>buyer</PARTY_ROLE>
    <ADDRESS>
      <bmeecat:NAME>BRACK.CH AG</bmeecat:NAME>
      <bmeecat:STREET>Hintermättlistr. 3</bmeecat:STREET>
      <bmeecat:ZIP>5506</bmeecat:ZIP>
      <bmeecat:CITY>Mägenwil</bmeecat:CITY>
      <bmeecat:COUNTRY>Switzerland</bmeecat:COUNTRY>
      <bmeecat:COUNTRY_CODED>CH</bmeecat:COUNTRY_CODED>
    </ADDRESS>
  </PARTY>
  <PARTY>
    <bmeecat:PARTY_ID type="buyer_specific">L12345678</bmeecat:PARTY_ID>
    <bmeecat:PARTY_ID type="gln">760000000001</bmeecat:PARTY_ID>
    <PARTY_ROLE>supplier</PARTY_ROLE>
    <ADDRESS>
      <bmeecat:NAME>Supplier Name AG</bmeecat:NAME>
      <bmeecat:STREET>Hauptstrasse 2</bmeecat:STREET>
      <bmeecat:ZIP>3000</bmeecat:ZIP>
      <bmeecat:CITY>Bern</bmeecat:CITY>
      <bmeecat:COUNTRY_CODED>CH</bmeecat:COUNTRY_CODED>
      <bmeecat:VAT_ID>CHE-111.222.333 MWST</bmeecat:VAT_ID>
    </ADDRESS>
  </PARTY>
</PARTIES>
```

Address referencing

The type for each reference can be `supplier_specific`, `buyer_specific` or `gln`. Both references are mandatory and must be provided with their respective identifier, in alignment with the party elements above.

Table 5. Address references

Element name	Description	allowed Type
INVOICE_ISSUER_IDREF	defines supplier party id with type	gln, buyer_specific
INVOICE_RECIPIENT_IDREF	defines payer party id with type	gln, buyer_specific

Example:

```
<INVOICE_INFO>
<!-- more elements here -->
  <INVOICE_ISSUER_IDREF type="buyer_specific">L12345678</INVOICE_ISSUER_IDREF>
  <INVOICE_RECIPIENT_IDREF type="gln">760000000000</INVOICE_RECIPIENT_IDREF>
<!-- more elements here -->
</INVOICE_INFO>
```

Payment

Table 6. Payment Elements

Element name	Description		Required
ACCOUNT	Account holder and IBAN	Account	YES
PAYMENT_TERMS	Payment terms and value date	Payment Terms	

Account

Table 7. Account Elements

Element name	Description		Required
HOLDER	Account holder and IBAN	Muster AG	
BANK_ACCOUNT	type = iban	iban	preferred

Payment Terms

Table 8. Payment Terms Elements

Element name	Description	
TIME_FOR_PAYMENT	allowed: DAYS	30
VALUE_DATE	date	2026-06-15

Invoice Item List

Invoice Items

Table 9. Invoice item list element

Element name	Description	Example	Remarks
INVOICE_ITEM_LIST	contains all line items	Invoice Item	at least one valid line is required

Invoice Item

Table 10. Invoice Item Elements

Element name	Description	Example
LINE_ITEM_ID	Line number	1
PRODUCT_ID	Product IDs	Product ID
QUANTITY	Amount ordered	10
ORDER_UNIT	Unit, always p. piece	C62
PRODUCT_PRICE_FIX	Reference to Order by buyer	Product Price Fix
PRICE_LINE_AMOUNT	ID to delivery address	103.10
ORDER_REFERENCE	reference to original Order	Order Reference

Product ID

Table 11. Product Id elements

Element name	Description	Example	type
BUYER_PID	Product id by buyer	abc1234	sku
DESCRIPTION_SHORT	Product name	Sample Product	

Example:

```
<PRODUCT_ID>
  <bme:BUYER_PID>1567326</bme:BUYER_PID>
  <bme:DESCRIPTION_SHORT>Some product text</bme:DESCRIPTION_SHORT>
</PRODUCT_ID>
```


Product Price Fix

Table 12. Product Price Fix elements

Element name	Description	Example
PRICE_AMOUNT	price per piece	10.31
TAX_DETAILS_FIX	Tax details	Tax Details Fix

Tax Details Fix

Table 13. Tax Details Fix elements

Element name	Description	Example
TAX_TYPE	tax type	VAT
TAX	Percentage	0.077
TAX_AMOUNT	amount in currency	7.94

Example:

```
<TAX_DETAILS_FIX>
  <bmeecat:TAX_TYPE>VAT</bmeecat:TAX_TYPE>
  <bmeecat:TAX>0.077</bmeecat:TAX>
  <TAX_AMOUNT>7.94</TAX_AMOUNT>
</TAX_DETAILS_FIX>
```

Order Reference

Table 14. Order Reference elements

Element name	Description	Example
ORDER_ID	original order id	4559022201
LINE_ITEM_ID	original order line id	10

Example Invoice Line Item:

```
<INVOICE_ITEM>
  <LINE_ITEM_ID>1</LINE_ITEM_ID>
  <PRODUCT_ID>
    <bmeecat:BUYER_PID>250035</bmeecat:BUYER_PID>
    <bmeecat:DESCRIPTION_SHORT>
      Caran d'Ache Druckbleistift Fixpencil</bmeecat:DESCRIPTION_SHORT>
    </PRODUCT_ID>
  <QUANTITY>10</QUANTITY>
  <bmeecat:ORDER_UNIT>C62</bmeecat:ORDER_UNIT>
  <PRODUCT_PRICE_FIX>
    <bmeecat:PRICE_AMOUNT>10.31</bmeecat:PRICE_AMOUNT>
    <TAX_DETAILS_FIX>
      <bmeecat:TAX_TYPE>VAT</bmeecat:TAX_TYPE>
      <bmeecat:TAX>0.077</bmeecat:TAX>
      <TAX_AMOUNT>7.94</TAX_AMOUNT>
    </TAX_DETAILS_FIX>
  </PRODUCT_PRICE_FIX>
  <PRICE_LINE_AMOUNT>103.10</PRICE_LINE_AMOUNT>
  <ORDER_REFERENCE>
    <ORDER_ID>4800070257</ORDER_ID>
    <LINE_ITEM_ID>1</LINE_ITEM_ID>
  </ORDER_REFERENCE>
</INVOICE_ITEM>
```

Invoice Summary

Table 15. Invoice summary Elements

Element name	Description	Example
TOTAL_ITEM_NUM	Count of line items	3
NET_VALUE_GOODS	Total NET Value	287.56
TOTAL_AMOUNT	Total incl Tax	309.7
TOTAL_TAX	List of taxes	Total Tax / Tax details fix

Total Tax / Tax details fix

Total Tax may contain multiple tax details fix.

Table 16. Total Tax Elements

Element name	Description	Example
TAX_TYPE	Tax type	VAT
TAX	Percentage	0.077
TAX_AMOUNT	Tax amount in currency	22.14
TAX_BASE	Total without tax	287.55

Example:

```
<INVOICE_SUMMARY>
  <TOTAL_ITEM_NUM>3</TOTAL_ITEM_NUM>
  <NET_VALUE_GOODS>287.56</NET_VALUE_GOODS>
  <TOTAL_AMOUNT>309.7</TOTAL_AMOUNT>
  <TOTAL_TAX>
    <TAX_DETAILS_FIX>
      <bmeCAT:TAX_TYPE>VAT</bmeCAT:TAX_TYPE>
      <bmeCAT:TAX>0.077</bmeCAT:TAX>
      <TAX_AMOUNT>22.14</TAX_AMOUNT>
      <TAX_BASE>287.55</TAX_BASE>
    </TAX_DETAILS_FIX>
  </TOTAL_TAX>
</INVOICE_SUMMARY>
```

Appendix

Sample Invoice

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<INVOICE xmlns="http://www.opentrans.org/XMLSchema/2.1" version="2.1"
  xmlns:bmeecat="http://www.bmeecat.org/bmeecat/2005">
  <INVOICE_HEADER>
    <CONTROL_INFO>
      <GENERATOR_INFO>EDI</GENERATOR_INFO>
      <GENERATION_DATE>2022-04-22T09:48:11</GENERATION_DATE>
    </CONTROL_INFO>
    <INVOICE_INFO>
      <INVOICE_ID>30535156</INVOICE_ID>
      <INVOICE_DATE>2023-04-22T09:48:11</INVOICE_DATE>
      <INVOICE_TYPE>invoice</INVOICE_TYPE>
      <DELIVERYNOTE_ID>12345678</DELIVERYNOTE_ID>
    <PARTIES>
      <PARTY>
        <bmeecat:PARTY_ID type="gln">
          760000000000</bmeecat:PARTY_ID>
        <bmeecat:PARTY_ID type="supplier_specific">
          K1234567</bmeecat:PARTY_ID>
        <PARTY_ROLE>Buyer</PARTY_ROLE>
        <ADDRESS>
          <bmeecat:NAME>BRACK.CH AG</bmeecat:NAME>
          <bmeecat:STREET>Hintermättlistr. 3</bmeecat:STREET>
          <bmeecat:ZIP>5506</bmeecat:ZIP>
          <bmeecat:CITY>Mägenwil</bmeecat:CITY>
          <bmeecat:COUNTRY>Switzerland</bmeecat:COUNTRY>
          <bmeecat:COUNTRY_CODED>CH</bmeecat:COUNTRY_CODED>
        </ADDRESS>
      </PARTY>
      <PARTY>
        <bmeecat:PARTY_ID type="buyer_specific">
          L12345678</bmeecat:PARTY_ID>
        <bmeecat:PARTY_ID type="gln">
          760000999999</bmeecat:PARTY_ID>
        <PARTY_ROLE>supplier</PARTY_ROLE>
        <ADDRESS>
          <bmeecat:NAME>Supplier Name AG</bmeecat:NAME>
          <bmeecat:STREET>Hauptstrasse 2</bmeecat:STREET>
          <bmeecat:ZIP>3000</bmeecat:ZIP>
          <bmeecat:CITY>Bern</bmeecat:CITY>
          <bmeecat:COUNTRY_CODED>CH</bmeecat:COUNTRY_CODED>
          <bmeecat:VAT_ID>CHE-111.222.333 MWST</bmeecat:VAT_ID>
        </ADDRESS>
      </PARTY>
    </PARTIES>
  </INVOICE_INFO>
</INVOICE_HEADER>
</INVOICE>
```

```

<INVOICE_ISSUER_IDREF type="buyer_specific">
  L12345678</INVOICE_ISSUER_IDREF>
<INVOICE_RECIPIENT_IDREF type="gln">
  760000000000</INVOICE_RECIPIENT_IDREF>
<bmeCAT:CURRENCY>CHF</bmeCAT:CURRENCY>
<PAYMENT>
  <ACCOUNT>
    <HOLDER>SUPPLIER NAME AG</HOLDER>
    <BANK_ACCOUNT type="iban">
      IBAN-CODE-1234-1234-12345</BANK_ACCOUNT>
    </ACCOUNT>
    <PAYMENT_TERMS>
      <TIME_FOR_PAYMENT>
        <DAYS>30</DAYS>
      </TIME_FOR_PAYMENT>
      <VALUE_DATE>2023-06-15</VALUE_DATE>
    </PAYMENT_TERMS>
  </PAYMENT>
</INVOICE_INFO>
</INVOICE_HEADER>

<INVOICE_ITEM_LIST>
  <INVOICE_ITEM>
    <LINE_ITEM_ID>1</LINE_ITEM_ID>
    <PRODUCT_ID>
      <bmeCAT:BUYER_PID>250035</bmeCAT:BUYER_PID>
      <bmeCAT:DESCRIPTION_SHORT>
        Caran d'Ache Druckbleistift Fixpencil
      </bmeCAT:DESCRIPTION_SHORT>
    </PRODUCT_ID>
    <QUANTITY>10</QUANTITY>
    <bmeCAT:ORDER_UNIT>C62</bmeCAT:ORDER_UNIT>
    <PRODUCT_PRICE_FIX>
      <bmeCAT:PRICE_AMOUNT>10.31</bmeCAT:PRICE_AMOUNT>
      <TAX_DETAILS_FIX>
        <bmeCAT:TAX_TYPE>VAT</bmeCAT:TAX_TYPE>
        <bmeCAT:TAX>0.077</bmeCAT:TAX>
        <TAX_AMOUNT>7.94</TAX_AMOUNT>
      </TAX_DETAILS_FIX>
    </PRODUCT_PRICE_FIX>
    <PRICE_LINE_AMOUNT>103.10</PRICE_LINE_AMOUNT>
    <ORDER_REFERENCE>
      <ORDER_ID>4800070257</ORDER_ID>
      <LINE_ITEM_ID>1</LINE_ITEM_ID>
    </ORDER_REFERENCE>
  </INVOICE_ITEM>

  <INVOICE_ITEM>
    <LINE_ITEM_ID>2</LINE_ITEM_ID>
    <PRODUCT_ID>
      <bmeCAT:BUYER_PID>249172</bmeCAT:BUYER_PID>

```

```

        <bmeecat:DESCRIPTION_SHORT>
            Staedtler OHP-Marker Lumocolor permanent F
        </bmeecat:DESCRIPTION_SHORT>
    </PRODUCT_ID>
    <QUANTITY>10</QUANTITY>
    <bmeecat:ORDER_UNIT>C62</bmeecat:ORDER_UNIT>
    <PRODUCT_PRICE_FIX>
        <bmeecat:PRICE_AMOUNT>1.98</bmeecat:PRICE_AMOUNT>
        <TAX_DETAILS_FIX>
            <bmeecat:TAX_TYPE>VAT</bmeecat:TAX_TYPE>
            <bmeecat:TAX>0.077</bmeecat:TAX>
            <TAX_AMOUNT>1.52</TAX_AMOUNT>
        </TAX_DETAILS_FIX>
    </PRODUCT_PRICE_FIX>
    <PRICE_LINE_AMOUNT>19.80</PRICE_LINE_AMOUNT>
    <ORDER_REFERENCE>
        <ORDER_ID>4800070257</ORDER_ID>
        <LINE_ITEM_ID>2</LINE_ITEM_ID>
    </ORDER_REFERENCE>
</INVOICE_ITEM>

```

```

<INVOICE_ITEM>
    <LINE_ITEM_ID>3</LINE_ITEM_ID>
    <PRODUCT_ID>
        <bmeecat:BUYER_PID>335127</bmeecat:BUYER_PID>
        <bmeecat:DESCRIPTION_SHORT>
            Edding Boardmarker 29 EcoLine
        </bmeecat:DESCRIPTION_SHORT>
    </PRODUCT_ID>
    <QUANTITY>10</QUANTITY>
    <bmeecat:ORDER_UNIT>C62</bmeecat:ORDER_UNIT>
    <PRODUCT_PRICE_FIX>
        <bmeecat:PRICE_AMOUNT>2.58</bmeecat:PRICE_AMOUNT>
        <TAX_DETAILS_FIX>
            <bmeecat:TAX_TYPE>VAT</bmeecat:TAX_TYPE>
            <bmeecat:TAX>0.077</bmeecat:TAX>
            <TAX_AMOUNT>1.99</TAX_AMOUNT>
        </TAX_DETAILS_FIX>
    </PRODUCT_PRICE_FIX>
    <PRICE_LINE_AMOUNT>25.80</PRICE_LINE_AMOUNT>
    <ORDER_REFERENCE>
        <ORDER_ID>4800070257</ORDER_ID>
        <LINE_ITEM_ID>3</LINE_ITEM_ID>
    </ORDER_REFERENCE>
</INVOICE_ITEM>

```

```

</INVOICE_ITEM_LIST>

```

```

<INVOICE_SUMMARY>
    <TOTAL_ITEM_NUM>9</TOTAL_ITEM_NUM>
    <NET_VALUE_GOODS>148.7</NET_VALUE_GOODS>

```

```
<TOTAL_AMOUNT>160.15</TOTAL_AMOUNT>
<TOTAL_TAX>
  <TAX_DETAILS_FIX>
    <bmeecat:TAX_TYPE>VAT</bmeecat:TAX_TYPE>
    <bmeecat:TAX>0.077</bmeecat:TAX>
    <TAX_AMOUNT>11.45</TAX_AMOUNT>
    <TAX_BASE>148.7</TAX_BASE>
  </TAX_DETAILS_FIX>
</TOTAL_TAX>
</INVOICE_SUMMARY>
</INVOICE>
```

Glossary

sku

Stock Keeping Unit, product id by competec.