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:

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

```xml
<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

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	Price without VAT	Product Price Fix
PRICE_LINE_AMOUNT	Total of line, without VAT	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>
    <bmecat:BUYER_PID>1567326</bmecat:BUYER_PID>
    <bmecat:DESCRIPTION_SHORT>Some product text</bmecat: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>
    <bmecat:TAX_TYPE>VAT</bmecat:TAX_TYPE>
    <bmecat:TAX>0.077</bmecat: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>
        <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 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:

```xml
<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
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<INVOICE xmlns="http://www.opentrans.org/XMLSchema/2.1" version="2.1"
         xmlns:bmecat="http://www.bmecat.org/bmecat/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>
                    <bmecat:PARTY_ID type="gln">
                        760000000000</bmecat:PARTY_ID>
                    <bmecat:PARTY_ID type="supplier_specific">
                        K1234567</bmecat:PARTY_ID>
                    <PARTY_ROLE>Buyer</PARTY_ROLE>
                    <ADDRESS>
                        <bmecat:NAME>BRACK.CH AG</bmecat:NAME>
                        <bmecat:STREET>Hintermättlistr. 3</bmecat:STREET>
                        <bmecat:ZIP>5506</bmecat:ZIP>
                        <bmecat:CITY>Mägenwil</bmecat:CITY>
                        <bmecat:COUNTRY>Switzerland</bmecat:COUNTRY>
                        <bmecat:COUNTRY_CODED>CH</bmecat:COUNTRY_CODED>
                    </ADDRESS>
                </PARTY>
                <PARTY>
                    <bmecat:PARTY_ID type="buyer_specific">
                        L12345678</bmecat:PARTY_ID>
                    <bmecat:PARTY_ID type="gln">
                        760000999999</bmecat:PARTY_ID>
                    <PARTY_ROLE>supplier</PARTY_ROLE>
                    <ADDRESS>
                        <bmecat:NAME>Supplier Name AG</bmecat:NAME>
                        <bmecat:STREET>Hauptstrasse 2</bmecat:STREET>
                        <bmecat:ZIP>3000</bmecat:ZIP>
                        <bmecat:CITY>Bern</bmecat:CITY>
                        <bmecat:COUNTRY_CODED>CH</bmecat:COUNTRY_CODED>
                        <bmecat:VAT_ID>CHE-111.222.333 MWST</bmecat:VAT_ID>
                    </ADDRESS>
                </PARTY>
            </PARTIES>
```

```
            <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>
```

```xml
                    <bmecat:DESCRIPTION_SHORT>
                        Staedtler OHP-Marker Lumocolor permanent F
                    </bmecat:DESCRIPTION_SHORT>
                </PRODUCT_ID>
                <QUANTITY>10</QUANTITY>
                <bmecat:ORDER_UNIT>C62</bmecat:ORDER_UNIT>
                <PRODUCT_PRICE_FIX>
                    <bmecat:PRICE_AMOUNT>1.98</bmecat:PRICE_AMOUNT>
                    <TAX_DETAILS_FIX>
                        <bmecat:TAX_TYPE>VAT</bmecat:TAX_TYPE>
                        <bmecat:TAX>0.077</bmecat: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>
                    <bmecat:BUYER_PID>335127</bmecat:BUYER_PID>
                    <bmecat:DESCRIPTION_SHORT>
                        Edding Boardmarker 29 EcoLine
                    </bmecat:DESCRIPTION_SHORT>
                </PRODUCT_ID>
                <QUANTITY>10</QUANTITY>
                <bmecat:ORDER_UNIT>C62</bmecat:ORDER_UNIT>
                <PRODUCT_PRICE_FIX>
                    <bmecat:PRICE_AMOUNT>2.58</bmecat:PRICE_AMOUNT>
                    <TAX_DETAILS_FIX>
                        <bmecat:TAX_TYPE>VAT</bmecat:TAX_TYPE>
                        <bmecat:TAX>0.077</bmecat: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>
                    <bmecat:TAX_TYPE>VAT</bmecat:TAX_TYPE>
                    <bmecat:TAX>0.077</bmecat: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.