

CLIENT: EMAG RETAIL SRL (EMAG)

Process and data dictionary for merchandise electronic invoice – XML DX format

Versions

Version	Date	Changes
1.0	06.08.2021	Document creation
1.1	17.12.2021	Insert matching activity

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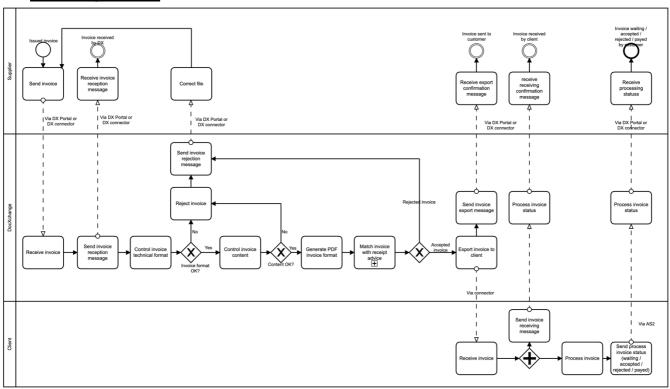


1 Context

This document contains the data dictionary for the electronic invoice in XML format, specific to EMAG RETAIL (EMAG) supplier.

The invoice types which can be transmitted in this electronic format are the merchandise invoices issued based on a merchandise order and a receipt advice document.

2 Invoice process



The activities from the diagram are described in the table below:

No	Activity	Actor	Description	Invoice status on DocProce ss	Action for the supplier
1.	Send invoice	Supplier	The invoice is sent to DocXchange Platform, via a connector (integrated suppliers) or via WEB form, according to the specifications agreed between DocProcess and the adherent.	-	-
2.	Receive invoice	DocXchang e Platform	The invoice is received by DocXchange Platform.	-	-
3.	Send invoice reception message	DocXchang e Platform	A message is sent to the supplier with the confirmation of the file receiving by DocXchange Platform.	Received by DX	-
4.	Receive invoice reception message	Supplier	The message which confirms the file reception by DocXchange platform is received by the supplier.	Received by DX	-
5.	Control invoice technical	DocXchang e Platform	The file format is validated according to the format structure (ex. XSD, IDOC parser, EDIFACT structure etc.).	-	-
	format		Exception In case the format is invalid, DocXchange Platform issues a message and sends it to the supplier, with the rejection reason.	Rejected by DX (invalid format)	To send a corrected file



No	Activity	Actor	Description	Invoice status on DocProce	Action for the supplier
				ss	
6.	Control invoice content	DocXchang e Platform	The invoice content is validated according to the data dictionary agreed with the client.	-	-
			Exception In case of the invalid content, DocXchange Platform issues a message and sends it to the supplier, with the rejection reason.	Rejected by DX (invalid content)	To make the corrections and send the storno / correction invoice
7.	Generate PDF invoice format	DocXchang e Platform	A readable image (PDF) is generated by merging the electronic document with a PDF template.	-	-
8.	Match invoice with the receipt advice	DocXchang e Platform	The matching between the invoice and the receipt advice is performed by DocXchange Platform, according to the specifications agreed between DocProcess and eMAG.	•	-
			Exception If the automated matching ideintifies that the matching conditions are not fulfilled, the invoice is sent to eEMAG for the validation	Exception Matching in progress	
		eMAG	Exception eMAG can accept or reject invoice based on the business documents associated to the invoice. 1. If the invoice is accepted, the invoice is sent to eMAG system for final verification. 2. If the invoice is rejected, a rejection message is sent to the supplier, with the rejection reason.	1.Sent 2. Rejected by recipient (non-matched invoice)	2. To correct the invoice and resend it
9.	Export invoice to client	DocXchang e Platform	eMag context: The eMAG format is sent to eMAG, according to the agreed specifications. Supplier context: The invoice PDF format is sent to supplier according with the	-	-
10.	Send export confirmation	DocXchang e Platform	agreement between supplier and DocProcess. A message with the invoice export confirmation is sent to the supplier via DX Portal and via DX connector.	Sent	-
11.	Send receiving confirmation by the client to the supplier	DocXchang e Platform	A message with the receiving confirmation by the client is sent to the supplier by DocXchange Platform, via DX Portal and via DX connector.	Received by recipient	-
12.	Process invoice	eMAG	The invoice content is processed by eMAG system.	-	-
13.	Send process invoice status (accepted/reje cted/payed)	eMAG	A message with invoice status according to the process result is sent to DocXchange Platform.	Accepted by recipient Rejected by recipient	To perform the corrections and resend the invoice/a storno/a correction
14.	Process invoice status	DocXchang	DocXchange receives the status message from eMAG and	receipient -	-
15.	Receive processing status	e Supplier	sends it to the supplier via DxPortal and DxConnector. The supplier receives the invoice status.	-	-



3 Invoice data dictionary

This chapter contains the data dictionary for the electronic invoice, in the **XML DX extended format**, sent by eMAG suppliers to eMAG system, via DocProcess Platform.

3.1 Conventions

3.1.1 Status

The status for the XML field are:

Code	Meaning
М	Mandatory - Indicates that the must be sent.
0	Optional - Indicates that the value is optional and may be sent at the discretion of the user.
D	Dependent - Indicates that the value must be sent in certain conditions, as defined by the relevant
	explanatory note.

3.1.2 General rules

No.	Rule
1.	All the fields must respect the data dictionary specifications (format, length, existence, content rules).
	Otherwise, the invoice is rejected.
2.	The decimal separator is dot (.). There is no thousands separator.
3.	An invoice can have lines only with positive values or lines only with negative values.
4.	The sign "-" (minus) must appear before a negative value. Example: -3.5
5.	The relationship between the order, the receipt advice and the invoice is:
	1 order = 1m receipt advices = 1n invoices

3.2 Invoice fields

Nr. crt.	Name	XML field	STATU S	Format	Example	Content control rules
	HEADER					
1.	Invoice subtype	DXInvoice/CustomizationID	М	String 3	FMF	The value must be equal with "FMF" (the characters are case sensitive).
2.	Invoice number	DXInvoice/Invoice/ID	M	Numeric 20	10000416	The invoice is rejected if the invoice has the same number and the same issuing date (both given by the supplier) with an invoice already accepted by eMAG. The invoice is verified against all the invoices from the same supplier, available on DocProcess Platform, at the verification moment.
3.	Copy Indicator The value is always FALSE.	DXInvoice/Invoice/CopyInd icator	М	String 5	FALSE	-
4.	Invoice issuing date	DXInvoice/Invoice/IssueDa te	М	YYYY- MM-DD	2020-05-19	The value must be less or equal with the current date.
5.	Invoice type code	DXInvoice/InvoiceT ypeCode	М	380 = original invoice 381 = storno invoice 384 = correction invoice	380	-



Nr.	Name	XML field	STATU	Format	Example	Content control rules
crt. 6.	Note Free text for significant and unstructured messages.	DXInvoice/Invoice/Note	0	String 3000	TVA la incasare	-
7.	Document currency code	DXInvoice/Invoice/Docume ntCurrencyCode	М	ISO 4217 code	RON EUR	-
8.	Number of invoice lines	DXInvoice/Invoice/Li neCountNumeric	М	Numeric	6	The value must be equal with the invoice lines number.
9.	Order identifier given by the client	DXInvoice/Invoice/OrderRe ference/ID	М	String 20	1333823	-
10.	Order date given by the client	DXInvoice/Invoice/OrderRe ference/IssueDate	0	YYYY- MM-DD	2020-05-16	-
11.	Billing reference identifier Identifier of the original invoice	DXInvoice/Invoice/BillingR eference/ID	D M in the storno (381) and correcti on invoices (384)	Numeric 20	123456789	-
12.	Billing reference issue date Issuing date of the original invoice	DXInvoice/Invoice/BillingR eference/IssueDate	D M in the storno (381) and correcti on invoices (384)	YYYY- MM-DD	2020-04-17	-
13.	Despatch advice identifier	DXInvoice/Invoice/Despatc hDocumentReference/ID	0	String 50	AVE010020083	-
14.	Despatch advice issue date	DXInvoice/Invoice/Despatc hDocumentReference/Issu eDate	0	YYYY- MM-DD	2020-05-18	-
15.	Receipt advice identifier	DXInvoice/Invoice/Receipt DocumentReference/ID	0	String 50	123456	-
16.	issue date	DXInvoice/Invoice/Receipt DocumentReference/Issue Date	0	YYYY- MM-DD	2020-05-18	-
	SUPPLIER HEAI	DQUARTERS				
17.	given by the customer	DXInvoice/Invoice/Accounti ngSupplierParty/Customer AssignedAccountID	М	String 20	123	The value must be equal with the value from DocProcess Platform.
18.	code	DXInvoice/Invoice/AccountingSupplierParty/Party/PartyIdentification	М	String 20	RO12345	-
19.	Supplier name	DXInvoice/Invoice/Accounti ngSupplierParty/Party/Part yName	М	String 100	EXEMPLU SA	-



Nr.	Name	XML field	STATU	Format	Example	Content control rules
crt.			S			
20.	Supplier street name	DXInvoice/Invoice/Accounti ngSupplierParty/Party/Post alAddress/StreetName	М	String 100	Str. Trotus	-
21.	Supplier additional street name	DXInvoice/Invoice/Accounti ngSupplierParty/Party/Post alAddress/AdditionalStreet Name	0	String 100	Zona 1	-
22.	Supplier street/building number	DXInvoice/Invoice/Accounti ngSupplierParty/Party/Post alAddress/BuildingNumber	M	String 10	Nr. 10	-
23.	Supplier city name	DXInvoice/Invoice/Accounti ngSupplierParty/Party/Post alAddress/CityName	М	String 100	Bucuresti, Sector 2	-
24.	Supplier postal code	DXInvoice/Invoice/Accounti ngSupplierParty/Party/Post alAddress/PostalZone	0	String 10	12345	-
25.	Supplier country identification code	DXInvoice/Invoice/Accounti ngSupplierParty/Party/Post alAddress/Country/Identific ationCode	M	Coded, according to ISO3166 (2 characters	RO	-
26.	Supplier Trade Register Number	DXInvoice/Invoice/Accounti ngSupplierParty/Party/Part yLegalEntity/CompanyID	М	String 50	J30/12.01.2014	-
27.	Supplier corporate stock amount	DXInvoice/Invoice/Accounti ngSupplierParty/Party/Part yLegalEntity/CorporateStoc kAmount	М	R2	10000.00	-
28.	Currency for supplier corporate stock amount	DXInvoice/Invoice/Accounti ngSupplierParty/Party/Part yLegalEntity/CorporateStoc kAmount@currencyID	М	ISO 4217	RON	-
	CUSTOMER HEA					
29.	Customer fiscal code	DXInvoice/Invoice/Accounti ngCustomerParty/Party/Pa rtyIdentification	М	String 20	RO14399840	The value must be equal with "RO44231872".
30.	Customer name	DXInvoice/Invoice/Accounti ngCustomerParty/Party/Pa rtyName	М	String 50	DANTE INTERNATIONAL SA	The value must be equal with "EMAG RETAIL SRL" (the characters are not sensitive).
31.	Customer street name	DXInvoice/Invoice/Accounti ngCustomerParty/Party/Po stalAddress/StreetName	М	String 100	SOS. VIRTUTII	The value must contain the "Soseaua Bucuresti-Nord" and "15-25" strings. The characters are
32.	Customer additional street name	DXInvoice/Invoice/Accounti ngCustomerParty/Party/Po stalAddress/AdditionalStre etName	0	String 100	-	not case sensitive.
33.	Customer street/building number	DXInvoice/Invoice/Accounti ngCustomerParty/Party/Po stalAddress/BuildingNumb er	М	String 10	148	
34.	Customer city name	DXInvoice/Invoice/Accounti ngCustomerParty/Party/Po stalAddress/CityName	М	String 100	BUCURESTI, SECTOR 6	The value must contain the value "VOLUNTARI, IF". The characters are not case sensitive.
35.	Customer postal code	DXInvoice/Invoice/Accounti ngCustomerParty/Party/Po stalAddress/PostalZone	0	String 10	077190	-
36.	Customer Trade Registry number	DXInvoice/InvoiceAccounti ngCustomerParty/Party/Pa rtyLegalEntity/CompanyID	М	String 20	J40/372/2002	The value must be equal with "J23/2852/2021" (the characters are not sensitive).
	DELIVERY LOCA	ATION				



Nr. crt.	Name	XML field	STATU S	Format	Example	Content control rules
37.	Actual delivery date	DXInvoice/Invoice/Delivery/ ActualDeliveryDate	M	YYYY- MM-DD	2020-05-18	The value must exist and be equal or less with the invoice issue date.
38.	Delivery location GLN	DXInvoice/Invoice/Delivery/ DeliveryLocation/ID	М	Numeric 13	5949358000018	The value must be equal with one of the GLNs associated to the customer delivery locations.
39.	Delivery location name	DXInvoice/Invoice/Delivery/ DeliveryLocation/Description	0	String 50	Emag Retail	-
40.	Delivery location street name	DXInvoice/Invoice/Delivery/ DeliveryLocation/LocationA ddress/StreetName	0	String 100	Sinaia	-
41.	Delivery location additional street name	DXInvoice/Invoice/Delivery/ DeliveryLocation/LocationA ddress/AdditionalStreetNa me	0	String 100	-	-
42.	Delivery ocation building number	DXInvoice/Invoice/Delivery/ DeliveryLocation/LocationA ddress/BuildingNumber	0	String 10	53-53B	-
43.	Delivery location city name	DXInvoice/Invoice/Delivery/ DeliveryLocation/LocationA ddress/CityName	0	String 100	Stefanestii de Jos, IF	-
	PAYMENT MEAN					
44.	Payment means code 42 = bank transfer	DXInvoice/Invoice/Paymen tMeans/PaymentMeansCo de	M	Numeric	42	-
45.	Due date	DXInvoice/Invoice/Paymen tMeans/PaymentDueDate	М	YYYY- MM-DD	2020-07-18	The value must be equal or greater than the invoice issue date.
40	CUSTOMER BAI Customer		0	Ctring EO	DOEZINODE0040	
46.	bank account	DXInvoice/Invoice/Paymen tMeans/PayerFinancialAcc ount/ID	0	String 50	RO57INGB50010 08230868910	-
47.	Currency for customer bank account	DXInvoice/Invoice/Paymen tMeans/PayerFinancialAcc ount/CurrencyID	D M if the bank account is present.	ISO 4217 code	RON	-
48.	bank name	DXInvoice/Invoice/Paymen tMeans/PayerFinancialAcc ount/FinancialInstitutionBra nch/FinancialInstitution/Na me	0	String 70	ING Bank N.V. Amsterdam – Sucursala Bucuresti	-
	SUPPLIER BANK					
49.	Supplier bank account	DXInvoice/Invoice/Paymen tMeans/PayeeFinancialAcc ount/ID	0	String 50	RO11BRD123455 1164781122	-
50.	supplier bank account	DXInvoice/Invoice/Paymen tMeans/PayeeFinancialAcc ount/CurrencyCode	D M if the bank account is present.	ISO 4217 code	RON	-
51.	Supplier bank name	DXInvoice/Invoice/Paymen tMeans/PayeeFinancialAcc ount/FinancialInstitutionBra nch/FinancialInstitution/Na me	Ö	String 70	BRD	-
	PAYMENT TERMS					



Nr.	Name	XML field	STATU	Format	Example	Content control rules
crt.	rianio	74.112 113.12	S	· omat	=xampio	
52.	Payment period (due period) in days	DXInvoice/Invoice/Paymen tTerms/SettlementPeriod/D urationMeasure	М	Integer	90	-
53.	Measure unit for payment period	DXInvoice/Invoice/Paymen tTerms/SettlementPeriod/D escriptionCode	М	String 3	D	The value must be equal with "D" (days).
	T SUBTOTAL					
	R VAT QUOTE VAT quote	DXInvoice/Invoice/Ta	M	R2	20.00	_
54.	(percent)	xTotal/TaxSubtotal/Percent	IVI	11/2	20.00	
55.	Taxable amount per VAT quote	DXInvoice/Invoice/Ta xTotal/TaxSubtotal/Taxable Amount	М	R2	60.00	-
56.	VAT amount per VAT quote	DXInvoice/Invoice/Ta xTotal/TaxSubtotal/TaxAm ount	М	R2	12.00	-
57.	Tax or fee function code qualifier	DXInvoice/Invoice/TaxTotal /TaxSubtotal/TaxCategory/ TaxScheme/ID	М	String 1	7	The value must be equal with 7.
58.	VAT category code	DXInvoice/Invoice/TaxTotal /TaxSubtotal/TaxCategory/ TaxScheme/Name	М	Standard UNECE 5305	S	The value must be equal with one of the values: S = standard VAT B = reverse charge AC = TVA la incasare
59.	Tax or fee type	DXInvoice/Invoice/TaxTotal /TaxSubtotal/TaxCategory/ TaxScheme/TaxTypeCode	M	String 3	VAT	The value must be equal with "VAT".
	INVOICE TOTALS					
60.		DXInvoice/Invoice/LegalMo netaryTotal/TaxExclusiveA mount	М	R2	250.00	-
61.	Invoice total VAT amount	DXInvoice/Invoice/TaxTotal /TaxAmount	М	R2	60.00	-
62.	amount with VAT	DXInvoice/Invoice/LegalMo netaryTotal/TaxInclusiveA mount	М	R2	310.00	-
	INVOICE LINES					
63.		DXInvoice/InvoiceLine/ID	М	Numeric 4	1	-
64.	Line note	DXInvoice/InvoiceLine/Not e	0	String 200	Free text	-
65.	Invoiced quantity	DXInvoice/InvoiceLine/InvoicedQuantity	М	R2	8	-



Nr.	Name	XML field	STATU	Format	Example	Content control rules
66.	Measurement unit	DXInvoice/InvoiceLine/InvoicedQuantity@unitCode	S M	String 3	PCE	The value must be equal with one of the values below: - KGM - PCE - LTR - MTR - GRM - MLT - CMT
67.	Line amount without VAT	DXInvoice/InvoiceLine/Line ExtensionAmount DXInvoice/InvoiceLine/Tax Total/TaxSubtot al/TaxableAmount	М	R2	120.00	 In 380 invoice, the value must be positive. In 381 invoice, the value must be negative. In 384 invoice, all the values are either positive or negative.
68.	Accounting cost code	/DXInvoice/InvoiceLine/Acc ountingCostCode	D	String 3	TRA	If the line is for the transport services, the value must be equal with "TRA". Otherwise the line is considered a merchandise line.
69.	Order ID	DXInvoice/InvoiceLine/Ord erLineReference/ID		String 20	1222126	The value must be equal with the order number from header level.
70.	Receipt advice ID given by the client	DXInvoice/InvoiceLine/Rec eiptLineReference/ID	0	String 20	000285501	-
71.	Receipt advice issue date given by the client	DXInvoice/InvoiceLine/Rec eiptLineReference/IssueDa te	0	YYYY- MM-DD	2017-09-12	-
72.	Discount (% value)	See "Allowance charge – Discount" chapter	0	R2	9	-
73.	Unitary green tax	See "Allowance charge – Green tax" chapter	D – it is filled in only for the product s that green tax is applied on	R2	1.5	-
74.	Line VAT amount	DXInvoice/InvoiceLin e/TaxTotal/TaxAmount DXInvoice/InvoiceLine/Tax Total/TaxSubtotal/TaxAmo unt	М	R2	28.80	-
75.	Line VAT quote (percent)	DXInvoice/InvoiceLine/Tax Total/TaxSubtot al/Percent	М	R2	20.00	-
76.	Line - Tax or fee function code qualifier	DXInvoice/InvoiceLine/Tax Total/TaxSubtotal/TaxCate gory/TaxScheme/ID	М	String 1	7	The value must be equal with "7".
77.	Line - VAT category code	DXInvoice/InvoiceLin e/TaxTotal/TaxSubtot al/TaxCategory/TaxSchem e/Name	M	Standard UNECE 5305	S	The value must be equal with one of the values: S = standard VAT B = reverse charge AC = TVA la incasare



Nr. crt.	Name	XML field	STATU S	Format	Example	Content control rules
78.	Line - tax or fee type (ex: VAT)	DXInvoice/InvoiceLine/Tax Total/TaxSubtotal/TaxCate gory/TaxScheme/TaxType Code	M	String 3	VAT	The value must be equal with "VAT".
79.	Item description	DXInvoice/InvoiceLine/Item /Description	М	String 255	Produs test 1	-
80.	Customer item code	DXInvoice/InvoiceLine/Item /BuyersItemIdentification/ID	М	String 255	FL78943278	The value must be unique in the invoice.
81.	Supplier item code	DXInvoice/InvoiceLine/Item / SellersItemIdentification/ID	0	String 50	FZ4645	-
82.	Product EAN Code	DXInvoice/InvoiceLine/Item /StandardItemIdentification/ ID	0	String 13	1234567891234	-
83.	Unitary price (without discount and without green tax if it is the case = the same unitary price as in the receipt advice)	DXInvoice/InvoiceLine/Pric e/PriceAmount	M	R2	15.00	-



3.3 Allowance Charge - Discount

Tag "AllowanceCharge" in extended XML	Status	Description	Example
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/ID	Optional	Identification ID for discount	1
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/ChargeIndicator	Mandatory	"false" for discount	false
/invoice:DXInvoice/ InvoiceLine/AllowanceCharge/AllowanceChargeReason		Explicit name of the discount	Discount
/invoice:DXInvoice/AllowanceCharge/MultiplierFactorNumeric	Mandatory	Procentual value without "%" sign	10
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/SequenceNumeric	Optional	One discount per line	1
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/Amount	Mandatory	Total discount amount per line	2
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/Amount/@currencyID	Mandatory	Currency of the total discount amount per line - ISO 4217 code	RON
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/BaseAmount	Optional	Total amount to which the discount is applied	20
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/BaseAmount/@currencyID	Depending	Currency of the total amount to which the discount is applied	RON
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/PerUnitAmount	Mandatory	Discount unitary value	0.5

3.4 Allowance Charge – Green tax

Tag "AllowanceCharge" in extended XML	Status	Comments	Example
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/ID	Optional	Identification ID for tax	2
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/ChargeIndicator	Mandatory	"true" for tax (ex. Green tax)	true
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/AllowanceChargeReason	Optional	Explicit name of the tax	Taxa verde
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/SequenceNumeric	Optional	One green tax per line	2
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/Amount	Mandatory	Total green tax amount per line	2
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/Amount/@currencyID	Mandatory	Currency of the total green tax amount per line	RON
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/BaseAmount	Optional	Total green tax amount to which the tax is applied	20
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/BaseAmount/@currencyID	Depending	Currency of the total amount to which the taxi s applied	RON
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/PerUnitAmount	Mandatory	Green tax unitary value	0.5



3.5 Rules for calculated values

RULE 1

Total_invoice_without_VAT + Total_invoice_VAT = Total_invoice_with_VAT (zero tolerance)

RULE 2

abs(Total_invoice_amount_without_VAT - sum(Line_amount_without_VAT)) < 0.1 RON

RULE 3

Mono VAT invoice

abs(Total_invoice_VAT_amount - sum(Line_VAT_amount)) < 0.1 RON

Factura MultiTVA

abs(Total_invoice_VAT_amount - sum(VAT_amount_per_each_VAT_quote)) < 0.1 RON

REGULA 4

abs((quantity x unitary price with discount and green tax) - Line_amount_without_VAT))<= 0.01 RON

End of document