



# DocXchange - Carrefour Merchandise electronic invoice Data Dictionary for XML DX extended

#### **Versions**

Version	Date	Modifications
1.0	25/03/2013	Creation
1.1	04/06/2013	Updating fields specifications
1.2	18/06/2013	Format updating
1.3	06/09/2013	OrderReference format
1.4	20/09/2013	Utpdating rule for the Carrefour code of the product
1.6	09/10/2014	Adding of the content validation rules + AllowanceCharge details
1.7	06/07/2015	Updating discount and tax specifications, return messages
1.8	24/11/2015	Separating return messages, adding "Supeco" entity; control rules updating
1.9	08/12/2015	Formating.
1.10	01/10/2016	Inserting Columbus context
1.11	22/11/2017	Inserting content validation rules for delivery GLN, standard article
		code, buyer article code, line amount without VAT and unitary price
1.12	06/07/2018	Updating control rule for PO number

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#### 1. Context

This document contains the data dictionary for XML extended and the verification rules for the electronic invoice format specific to Carrefour/Artima/Supeco/Columbus.

#### **General Rules**

- 1. All fields must respect the specifications from the data dictionary. Contrary, the invoices is rejected.
- 2. The fields content must not contain spaces before and after their content.
- 3. The decimal separator is dot ".". There is no thousand separator.
- 4. In an invoice can be lines with positive values and lines with negative values.



## 2. Specifications for the electronic invoice header and footer

No.	Field in extended XML	Size/ Format	Status	Definition	Example	Control rules for the invoice content
	INVOICE HEADER					
1.	/invoice:DXInvoice/Invoice/Acc ountingSupplierParty/Customer AssignedAccountID	6	Mandatory	Carrefour internal supplier Code	123456	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the specifications agreed in the data dictionary.
2.	/invoice:DXInvoice/Invoice/ID	50	Mandatory	Supplier invoice identification Code	ABC1234 56789	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the specifications agreed in the data dictionary.
3.	/invoice:DXInvoice/Invoice/Cop yIndicator	5	Mandatory	TRUE for a copy, FALSE for the original invoice. Only the supplier can set this field to FALSE.	FALSE	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the specifications agreed in the data dictionary.
4.	/invoice:DXInvoice/Invoice/Issu eDate	10 YYYY-MM- DD	Mandatory	Issue Date for the invoice	2015-12- 07	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the format agreed in the data dictionary.  3. The field value is bigger than the current date.  4. The field value has the year value less than current year minus one.
5.	/invoice:DXInvoice/Invoice/Pay mentMeans/PaymentDueDate	10 YYYY-MM- DD	Optional	Due Date for the invoice	2013-12- 09	The invoice is rejected if the field value does not have the specifications agreed in the data dictionary.
6.	/invoice:DXInvoice/Invoice/Note	200	Optional	General unstructured message from the supplier	Tva la incasare	-



No.	Field in extended XML	Size/ Format	Status	Definition	Example	Control rules for the invoice content
7.	/invoice:DXInvoice/Invoice/InvoiceTypeCode	3 FIX	Mandatory	Ex: Self billed credit note(261), proforma invoice (325), factura comercial invoice (380), factored invoice (393) - UN/ECE 1001 Subset. Allways 380 for Carrefour/Artima.	380	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the specifications agreed in the data dictionary.
8.	/invoice:DXInvoice/Invoice/Doc umentCurrencyCode	3 FIX	Optional	Code ISO 4217 In this moment, "RON" for Carrefour.	RON	The invoice is rejected if the field value does not respect the specifications from the data dictionary.
9.	/invoice:DXInvoice/Invoice/Tax CurrencyCode	3 FIX	Optional	Code ISO 4217 In this moment, "RON" for Carrefour.	RON	The invoice is rejected if the field value does not respect the specifications from the data dictionary.
10.	/invoice:DXInvoice/Invoice/Prici ngCurrencyCode	3 FIX	Optional	Code ISO 4217 In this moment, "RON" for Carrefour.	RON	The invoice is rejected if the field value does not respect the specifications from the data dictionary.
11.	/invoice:DXInvoice/Invoice/Pay mentCurrencyCode	3 FIX	Optional	Code ISO 4217 In this moment, "RON" for Carrefour.	RON	The invoice is rejected if the field value does not respect the specifications from the data dictionary.
12.	/invoice:DXInvoice/Invoice/Pay mentAlternativeCurrencyCode	3 FIX	Optional	Code ISO 4217 In this moment, "RON" for Carrefour.	RON	The invoice is rejected if the field value does not respect the specifications from the data dictionary.
13.	/invoice:DXInvoice/Invoice/Tax Total/TaxSubtotal/Percent	5 D(5.2)	Mandatory	VAT Code One TVA code per invoice. The decimal separator is "."(dot). It can not take values bigger than 100.	24	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the specifications agreed in the data dictionary.
14.	/invoice:DXInvoice/Invoice/Orde rReference/ID	8 numerical characters for Carrefour/Ar tima/Supeco 16 numerical characters for Columbus	Mandatory	PO number	123456	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the specifications agreed in the data dictionary.



No.	Field in extended XML	Size/ Format	Status	Definition	Example	Control rules for the invoice content
15.	/invoice:DXInvoice/Invoice/Billi ngReference/ID	50		A reference to a precedent invoice It appears only on the correction invoices.	ABC9852 4751	The invoice is rejected if the field value does not respect the specifications from the data dictionary.
16.	/invoice:DXInvoice/Invoice/Des patchDocumentReference/ID	50	Optional	Reference to a despatch document/YYYY-MM-DD Warning: reference and date separated by "/" character.	QW14556	The invoice is rejected if the field value does not respect the specifications from the data dictionary.
17.	/invoice:DXInvoice/Invoice/Des patchDocumentReference/Issue Date	YYYY-MM- DD	Mandatory	Despatch document issue date	2013-03- 05	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the specifications agreed in the data dictionary.
18.	/invoice:DXInvoice/Invoice/Rec eiptDocumentReference/ID	50	Optional	Reference to a receipt document	1234	The invoice is rejected if the field value does not respect the specifications from the data dictionary.
19.	/invoice:DXInvoice/Invoice/Stat ementDocumentReference/ID	50	Optional	Reference to a statement document	1234	The invoice is rejected if the field value does not respect the specifications from the data dictionary.
20.	/invoice:DXInvoice/Invoice/Origi natorDocumentReference/ID	50	Optional	An associative reference to Originator Document.	1234	The invoice is rejected if the field value does not respect the specifications from the data dictionary.
21.	/invoice:DXInvoice/Invoice/Cont ractDocumentReference/ID	50	Optional	Information about a Document referred to in another Document.	1234	The invoice is rejected if the field value does not respect the specifications from the data dictionary.
22.	/invoice:DXInvoice/Invoice/Addi tionalDocumentReference/ID	50	Optional	Reference to other related Document.	1234	The invoice is rejected if the field value does not respect the specifications from the data dictionary.
	SUPPLIER HEADQUARTER					
23.	/invoice:DXInvoice/Invoice/Acc ountingSupplierParty/Party/Part yName	50	Mandatory	Name	Furnizor SA	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the format agreed in the data dictionary.
24.	/invoice:DXInvoice/Invoice/Acc ountingSupplierParty/Party/Part yldentification	12	Mandatory	TVA Code without spaces	RO51823 1	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the format agreed in the data dictionary.  3. The field value is different than the DocXchange reference.



No.	Field in extended XML	Size/ Format	Status	Definition	Example	Control rules for the invoice content
25.	/invoice:DXInvoice/Invoice/Acc ountingSupplierParty/Party/Pos talAddress/Postbox	10	Optional	Postbox if any	BP204	The invoice is rejected if the field value does not respect the specifications from the data dictionary.
26.	/invoice:DXInvoice/Invoice/Acc ountingSupplierParty/Party/Pos talAddress/StreetName	50	Mandatory	Street 1	str. Republicii	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the format agreed in the data dictionary.
27.	/invoice:DXInvoice/Invoice/Acc ountingSupplierParty/Party/Pos talAddress/AdditionalStreetNa me	50	Optional	Street 2	Zona 1	The invoice is rejected if the field value does not respect the specifications from the data dictionary.
28.	/invoice:DXInvoice/Invoice/Acc ountingSupplierParty/Party/Pos talAddress/BuildingNumber	10	Mandatory	Building number	133	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the format agreed in the data dictionary.
29.	/invoice:DXInvoice/Invoice/Acc ountingSupplierParty/Party/Pos talAddress/CityName	50	Mandatory	City name	Bucuresti	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the format agreed in the data dictionary.
30.	/invoice:DXInvoice/Invoice/Acc ountingSupplierParty/Party/Pos talAddress/PostalZone	10	Optional	ZIP	011422	The invoice is rejected if the field value does not respect the specifications from the data dictionary.
31.	/invoice:DXInvoice/Invoice/Pay mentMeans/PayeeFinancialAcc ount/ID	50	Mandatory	IBAN	R022BTR L0010120 26500030 XX	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the format agreed in the data dictionary.



No.	Field in extended XML	Size/ Format	Status	Definition	Example	Control rules for the invoice content
	BUYER HEADQUARTER					
32.	/invoice:DXInvoice/Invoice/Acc ountingCustomerParty/Party/Pa rtyName	50	Mandatory	Name	Carrefour Romania S.A.	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty,  2. The field value does not have the format agreed in the data dictionary  3. The field value is incorrect. The correct values must contain at least the following characters:  CARREFOUR ROMANIA SA  ARTIMA SA  SUPECO INVESTMENT SRL  COLUMBUS OPERATIONAL SRL
33.	/invoice:DXInvoice/Invoice/Acc ountingCustomerParty/Party/Pa rtyIdentification	12	Mandatory	TVA Code without spaces	RO11588 780	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the format agreed in the data dictionary.  3. The field value is different than the DocXchange reference.
34.	/invoice:DXInvoice/Invoice/Deli very/DeliveryLocation/ID	13 FIX	Mandatory	GLN Code (delivery store or warehouse)	59404750 06006	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the specifications agreed in the data dictionary.  3. The field value does not belong to a customer's location GLN
35.	/invoice:DXInvoice/Invoice/Acc ountingCustomerParty/Party/Po stalAddress/Postbox	10	Optional	Postbox if any	-	The invoice is rejected if the field value does not respect the specifications from the data dictionary.
36.	/invoice:DXInvoice/Invoice/Acc ountingCustomerParty/Party/Po stalAddress/StreetName	50	Mandatory	Street 1	Str. Gara Herastrau	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the specifications agreed in the data dictionary.
37.	/invoice:DXInvoice/Invoice/Acc ountingCustomerParty/Party/Po stalAddress/AdditionalStreetNa me	50	Optional	Street 2	Green Court, Cladirea B, et. 4-7	The invoice is rejected if the field value does not respect the specifications from the data dictionary.



No.	Field in extended XML	Size/ Format	Status	Definition	Example	Control rules for the invoice content
38.	/invoice:DXInvoice/Invoice/Acc ountingCustomerParty/Party/Po stalAddress/BuildingNumber	10	Mandatory	Building number	4C	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the specifications agreed in the data dictionary.
39.	/invoice:DXInvoice/Invoice/Acc ountingCustomerParty/Party/Po stalAddress/CityName	50	Mandatory	City name	Bucuresti	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the specifications agreed in the data dictionary.
40.	/invoice:DXInvoice/Invoice/Acc ountingCustomerParty/Party/Po stalAddress/PostalZone	5 FIX	Optional	ZIP	061331	The invoice is rejected if the field value does not respect the specifications from the data dictionary.
41.	/invoice:DXInvoice/Invoice/Pay mentMeans/PayerFinancialAcc ount/ID	50	Mandatory	IBAN	RO91ING B0001081 00458910	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the specifications agreed in the data dictionary.
	INVOICE SUMMARY					
42.	/invoice:DXInvoice/Invoice/Line CountNumeric	4	Mandatory	The number of item lines in the document. min 1, max 9999	2	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the specifications agreed in the data dictionary.  3. The field value is different of the invoice lines number found on the invoice.
43.	/invoice:DXInvoice/Invoice/Tax Total/TaxAmount /invoice:DXInvoice/Invoice/Tax Total/TaxSubtotal/TaxAmount	18 D(18.2)	Mandatory	Total VAT for the invoice. The decimal separator is "." (dot).  In case of negative value, it must be preceded by the minus ("-") sign.	10.60	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the specifications agreed in the data dictionary.  The invoices are monoVAT.



No.	Field in extended XML	Size/ Format	Status	Definition	Example	Control rules for the invoice content
44.	/invoice:DXInvoice/Invoice/Lega IMonetaryTotal/TaxExclusiveA mount	18 D(18.2)	Mandatory	Total without VAT for the invoice. The decimal separator is "." (dot). In case of negative value, it must be preceded by the minus ("-") sign.	8.55	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the specifications agreed in the data dictionary.  3. The difference between the value written in the invoice and the value calculated by the system is bigger than the tolerance agreed in the client profile.
45.	/invoice:DXInvoice/Invoice/Lega IMonetaryTotal/TaxInclusiveAm ount	18 D(18.2)	Mandatory	Invoice total The decimal separator is "." (dot). In case of negative value, it must be preceded by the minus ("-") sign.	2.05	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the specifications agreed in the data dictionary.  3. Invoice total without VAT + invoice total VAT is different of invoice total with VAT.  4. The difference between the totals with VAT on lines and the invoice total with VAT is bigger than the tolerance accepted in the client profile.

## **3.** Specifications for the electronic invoice lines

	Field in extended XML	Size/ Format	Status	Definition	Example	Control rules for the invoice content
46.	/invoice:DXInvoice/InvoiceLi ne/ID	4	Mandator y	Line order number	1	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the specifications agreed in the data dictionary.
47.	/invoice:DXInvoice/InvoiceLi ne/Note	200	Optional	Line unstructured message from the supplier.		-
48.	/invoice:DXInvoice/InvoiceLi ne/InvoicedQuantity	18 D(18.3)	Mandator y	Product quantity The decimal separator is "." (dot).	1.5	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the specifications agreed in the data dictionary.



	Field in extended XML	Size/	Status	Definition	Example	Control rules for the invoice content
		Format		In case of negative value,		3. The field value is zero.
				it must be preceded by the minus ("-") sign.		
49.	/invoice:DXInvoice/InvoiceLi ne/AllowanceCharge	7 D(7.4)	Optional	Negociated discount (percentage). The decimal separator	2.5	The invoice is rejected if the field value does not respect the specifications from the data dictionary.
	See "Allowance Charge" chapter			is "." (dot).		
50.	/invoice:DXInvoice/InvoiceLi ne/AllowanceCharge	18 D(18.4)	Optional	Place for the Romanian tax: example: "Taxa verde"	10.00	The invoice is rejected if the field value does not respect the specifications from the data dictionary.
	See "Allowance Charge" chapter			The decimal separator is "." (dot).		
51.	/invoice:DXInvoice/InvoiceLi ne/LineExtensionAmount	18 D(18.4)	Mandator y	The total amount for the InvoiceLine, net of taxes. The decimal separator is "." (dot). In case of negative value,	351.86	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the specifications agreed in the data dictionary.  3. The field value is 0 (zero).
				it must be preceded by the minus ("-") sign.		
52.	invoice:DXInvoice/InvoiceLin e/ TaxInclusiveAmount	18 D(18.4)	Mandator y	InvoiceLine total amount, including taxes. The decimal separator is "." (dot). In case of negative value,	436.31	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the specifications agreed in the data dictionary.
				it must be preceded by the minus ("-") sign.		
53.	invoice:DXInvoice/InvoiceLin e/TaxTotal/TaxAmount	18 D(18.4)	Mandator y	InvoiceLine tax total. The decimal separator is "." (dot).  In case of negative value, it must be preceded by the minus ("-") sign.	84.45	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the specifications agreed in the data dictionary.
54.	invoice:DXInvoice/InvoiceLin e/Item/Description	50	Optional	Product description	Product 1	The invoice is rejected if one of the following conditions is fulfilled:



	Field in extended XML	Size/	Status	Definition	Example	Control rules for the invoice content
		Format				1 The Caldia anada
						<ol> <li>The field is empty.</li> <li>The field value does not have the specifications agreed in the data dictionary.</li> </ol>
55.	invoice:DXInvoice/InvoiceLin e/Item/SellersItemIdentificati on/ID	20	Optional	Supplier internal code for the product.	150013	The invoice is rejected if the field value does not respect the specifications from the data dictionary.
56.	invoice:DXInvoice/InvoiceLin e/Item/StandardItemIdentific ation/ID	20	Mandator y	EAN product code	38000033112 81	The invoice is rejected if one of the following conditions is fulfilled:  1. EAN product code and buyer product code are not filled in in the invoice.  2. The field value does not have the specifications agreed in the data dictionary.  3. The field value contains other characters than digits or the value does not contain at least one digit different than 0 (zero).
57.	invoice:DXInvoice/InvoiceLin e/Item/BuyersItemIdentificati on/ID	20	Mandator y	Customer internal code for the product.  The "C" character must be added before the numerical code, even if in the order the buyer product code is without "C" character. So, the buyer product code must be composed by "C" character and 8 numerical characters.	C11500998	The invoice is rejected if one of the following conditions is fulfilled:  1. EAN product code and buyer product code are not filled in in the invoice.  2. The field value does not have the specifications agreed in the data dictionary.  3. The value does not have the following format "C"+8 numerical characters.
58.	invoice:DXInvoice/InvoiceLin e/Price/PriceAmount	18 D(18.4)	Mandator y	Unit price The decimal separator is "." (dot).	8.59	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.  2. The field value does not have the specifications agreed in the data dictionary.  3. The field value is 0 or less than zero (negative value).
<b>59</b> .	/invoice:DXInvoice/InvoiceLi ne/InvoicedQuantity/@unitCo de	10	Mandator y	Supplier delivery unit	buc	The invoice is rejected if one of the following conditions is fulfilled:  1. The field is empty.



Field in extended XML	Size/	Status	Definition	Example	Control rules for the invoice content
	Format				
					2. The field value does not have the specifications agreed in
					the data dictionary.

## **3.1.** 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	Optional	The explicit name of the discount	Discount
/invoice:DXInvoice/AllowanceCharge/MultiplierFactorNumeric	Mandatory	Procentual value without "%" sign	10
	Optional	If there are more discounts /taxes, it is filled in the order of the discounts/taxes application. (Carrefour/Artima accepts only a	
		single discount per line and a cumulative tax per line (green tax,	
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/SequenceNumeric		oil tax, exclusive VAT).	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	RON
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/BaseAmount	Optional	The total value to which the discount is applied	20
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/BaseAmount/@currencyIC	Optional	Currency	RON
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/PerUnitAmount	Optional	The unitary value of the discount	0.5



### **3.1.** Allowance Charge - 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	The explicit name of the tax	Taxa verde
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/SequenceNumeric	Optional	If there are more discounts/taxes, it is filled in the order of the discounts/taxes application. (Carrefour/Artima accepts only a single discount per line and a cumulative tax per line (green tax, oil tax, exclusive VAT).	2
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/Amount	Mandatory	Total tax amount per line	2
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/Amount/@currencyID	Mandatory	Currency of the total tax amount per line	RON
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/BaseAmount	Optional	The total value to which the tax is applied	20
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/BaseAmount/@currencyID	Optional	Currency	RON
/invoice:DXInvoice/InvoiceLine/AllowanceCharge/PerUnitAmount	Mandatory	The unitary value of tax amount	0.5

## **End of document**