

Implementationsstöd vid uppgradering från PEPPOL version 2 till PEPPOL BIS3 e-handel exkl faktura

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1 Bakgrund

OpenPEPPOL har beslutat att alla meddelande för version 3 (BIS3) ska vara obligatoriska i **OpenPEPPOLs nätverk** från och med 15 maj 2019. Exklusive PEPPOL BIS Billing 3 som är obligatoriskt från 18 april 2019. Till detta kommer en ny BIS för Catalogue utan katalogsvar som är under framtagning (våren 2019), och som planeras att bli en PEPPOL BIS den 15 maj 2019.

Ett antal av PEPPOL BIS 3 meddelanden (PEPPOL BIS Ordering 3, PEPPOL BIS Despatch Advice 3, PEPPOL BIS Punch Out 3, PEPPOL BIS Order Agreement 3) kommer även att rekommenderas som SFTI under våren 2019. Catalogue utan katalogsvar kommer att tas upp till beslut vid SFTIs beredningsgrupp den 7 maj för ett eventuellt beslut om rekommendation i SFTIs styrgrupp.

I den releaseinformation som skrivits av OpenPEPPOL anges endast vilka önskemål (RFC's) som accepterats (se kap 3 och 4 nedan), men inte hur ändringarna påverkat meddelandena och BIS'arna.

Denna guide är till stöd för de som har infört meddelanden enligt OpenPEPPOL version 2 och vill förstå hur ändringarna bör implementeras.

2 Läsanvisning

Under varje kapitel finns den önskade ändringen som inkommit till OpenPEPPOL under rubriken RFC. Både texten och rubriken är på engelska, klippt direkt från OpenPeppols material.

Därefter beskrivs den ändring som gjorts under rubriken Lösning.

Till några ändringar finns även testexempel framtagna:

För PB30-26, PB30-30, PB30-32 finns en serie med testfiler för att testa multipla order.

ImplStod-BIS3_Order_4321.xml

ImplStod-BIS3-OrderResponse1.xml

ImplStod-BIS3-OrderResponse2.xml

ImplStod-BIS3-DespatchAdvice1.xml

ImplStod-BIS3-OrderResponse3.xml

ImplStod-BIS3-DespatchAdvice2.xml

För PunchOut PB30-33, PB30-334:

ImplStod-BIS3_PunchOut_Example.xml

ImplStod-BIS3_PunchOut_Example-config-Item.xml

För PB30-16:

DespatchAdvice_Example_multiple_orders.xml

Dessutom ett antal för Catalogue och DespatchAdvice Use Case.

3 Accepted changes (RFC (request for change))

The following changes were processed and agreed by the team:

1. Batch/LOT and serial numbers in order 3a and 28a [PB30-1].
2. ID in AdditionalDocumentReference [PB30-4].
3. Change to DespatchAdvice BIS 30A, SFTI 20170622.xlsx [PB30-5].
4. Questions about PEPPOL BIS in post-award [PB30-7].
5. Request the OpenPEPPOL Post-Award CC to include the BuyersItemIdentification element in the BIS 28A Ordering and 30A Despatch Advice messages. [PB30-11].
6. Despatch Advice (BIS 30A), add postal Address informations and Person information [PB30-14].
7. Despatch Advice (BIS 30A), extension of cardinality for order reference ID [PB30-16].
8. General - enable price types for price is all transactions, other than Invoice [PB30-23].
9. General - harmonize Contracted Item Indicator and reference to contract [PB30-24].
10. Order Response - Use code list 1229 instead of 1225 as status code on line level [PB30-26].
11. Order Response - Introduce the use of line status code to indicate already delivered items [PB30-30].
12. Order Response - Introduce a document status code to confirm order reception [PB30-32].
13. Punch Out - Add delivery address and validity period on line level [PB30-33].
14. Punch Out - Introduce support for reserving goods [PB30-34].
15. Catalogue - Enable the use of standard item numbers to reference between related items [PB30-35].
16. Question for documentation on PEPPOL_BIS-18A.pdf, "Punch out" [PB30-37].

4 Implementering av respektive punkt

4.1 Ändringar som inte härrör till en RFC (request for change)

Det har genomförts en hel del ändringar som till stor del kommer sig av övriga meddelanden ska vara anpassade till EN 16931 invoice.

Lista över de ändringar som är gjorda:

4.1.1 Business terms

- Qualified reference elements added to Order.
- Removed type and date from contract references. Bara ID kvar.
- All addresses changed to include 3 lines instead of two. (inte för det som vi i SFTI mappat som godsmottagare i order. Möjligt att vi får med det i Spring Release)
- Added address information for tax representatives, where appropriate.
- Use of business terms aligned across BIS specifications.
- Use of label elements aligned between Order agreement and Punch Out. "Certificate har samma struktur som i Catalogue.
- Contact information aligned across BIS.
- Allowance and charge classes aligned in terms of use of percentage, reason code and VAT.

4.1.2 VAT

- Structure of VAT information aligned with EN VAT structure.

4.1.3 Code and identifiers

- Customization and profile identifiers made mandatory in all BIS.
- Party and item identifiers restricted to ICD code list. Exempelvis används
 - 0160 i stället för GTIN
 - 0088 i stället för GLN.
 - 0007 för Svensk organisationsnummer.
- Aligning use of code lists, examples are the allowance/charge lists and VAT category codes.
- Assigning fixed code lists and removing requirements for code attributes. UNECERec20 används för enheter. En del koder har utgått och för de flesta som vi använder i SFTI så läggs X först i koden, för att det ska bli 3-teckenkod. Exempelvis XBX i stället för BX. SFTI planerar att ta fram en "shortlist" eftersom listan är mycket lång (och nästan oläsbar).
- Action code lists aligned between BIS's.

- För UNSPSC finns ännu ingen kod. Projektet har bestämt att tills vidare använda koden "MP" i betydelsen UNSPSC.

4.2 PB30-1 Batch/LOT and serial numbers in order 3a and 28a

RFC

When customers are sending consignment orders to their suppliers the Batch number is often required (we also see some need of the Serial Number). The LotIdentification field have been removed in the BIS spec as well as the possibility to place a SerialID.

Lösning

Följande termer har lagts till för att stödja Batch- och Serienummer för Consignment Order.

0..n	• • • • cac:ItemInstance	Item instance information <i>Information relevant to an item instance or shared by the items in the order line.</i>
0..1	• • • • • cbc:SerialID	Item serial identification <i>An identifier that is specific to the items in the order line.</i>
0..1	• • • • • cac:LotIdentification	Item lot information <i>Information about the production lot which the order line items come from.</i>
0..1	• • • • • • cbc:LotNumberID	Item lot identifier <i>An identifier for the production lot which the order line items come from.</i>

4.3 PB30-4 ID in AdditionalDocumentReference

RFC

ID is mandatory so not specifying results in PEPPOL violation. IS OK.

Specifying without value is PEPPOL OK but results in problems in the backend. At least one character should be present for ID identification.

Lösning

PEPPOL-COMMON-R001

Document MUST not contain empty elements.

4.4 PB30-5 Change to DespatchAdvice BIS 30A

RFC

add

cac:DespatchLine\cac:Item\cac:AdditionalItemProperty, as used in the Order Response transaction in PEPPOL Ordering BIS 28A.

Use "Name" to identify the type of information and "Value" for the information.

Lösning

Add AdditionalItemProperty to Despatch Advice.

Card	Name	Description
1..1	cbc:Name	Item property name <i>The name of the property. The name must be sufficiently descriptive to define the value. The definition may be supplemented with the property unit of measure when relevant.</i> Example value: SlutenvårdsbilagaID
0..1	cbc:NameCode	Item property code <i>Code for the item property according to a property code system.</i> Example value: S0023
1..1	cbc:Value	Item property value <i>The value of the item property.</i> Example value: 734003990001299012345

AdditionalItemProperty används för att ange uppgifter som SFTIs arbetsgrupper beslutat om.

I Name anges SFTIs termnamn. Ex: SlutenvårdsbilagaID

I NameCode anges SFTIs termnummer: Ex S0023

I Value anges värdet för termen. Ex: 734003990001299012345

Termer som används för Slutenvårdsdos:

- SlutenvårdsbilagaID: S0023
- AdmtillfälleID: S0149
- Beställt NPLId: S0146
- Levererat NPLId: S0158

4.5 PB30-7 Questions about PEPPOL BIS in post-award

RFC

Italien ställde frågan om hur man i Order Response ska göra för att resta, dellererera mm.

Lösning

Frågan löstes i RFC 26, 30, 32 från SFTI.

4.6 PB30-11 Include the BuyersItemIdentification element in the BIS 28A Ordering and 30A Despatch Advice messages

RFC

On behalf of the UK Department of Health and Social Care, I would like to request the OpenPEPPOL Post-Award CC to include the BuyersItemIdentification element in the BIS 28A Ordering and 30A Despatch Advice messages.

Since this element is required in the EN for eInvoicing and in the PEPPOL BIS Billing v3, it makes sense to align the other messages. It is a conditional element in the BIS Billing v3, where it is requested to either provide the SuppliersItemIdentification, or the BuyersItemIdentification, or both if available.

Lösning

BIS3 team agrees to add buyer item identification into **order, despatch advice, order response** based on the argument of aligning with the invoice data model. Not adding it to catalogue messages and order agreement unless there is a specific business case stated for that.

Minst ett av Sellers ID och Standard ID, e.g. the GS1 Global Trade Item Number (GTIN) måste anges.

Buyers item identification är frivillig uppgift.

0..1 [cac:BuyersItemIdentification](#) Buyers item identification

1..1 [cbc:ID](#)

Buyers item identifier

An identifier, assigned by the buyer, for the item. Associates the item with its identification according to the buyer's system.

Example value: **abc32432**

4.7 PB30-14 Despatch Advice (BIS 30A), add postal Address informations and Person information

RFC

We ask to add the Postal Address data structure to all parties to comply with the requirement of the VAT Directive that asks to identify the subjects among whom the commercial transaction is carried out (DespatchSupplierParty, DeliveryCustomerParty, BuyerCustomerParty, SellerSupplierParty, CarrierParty)

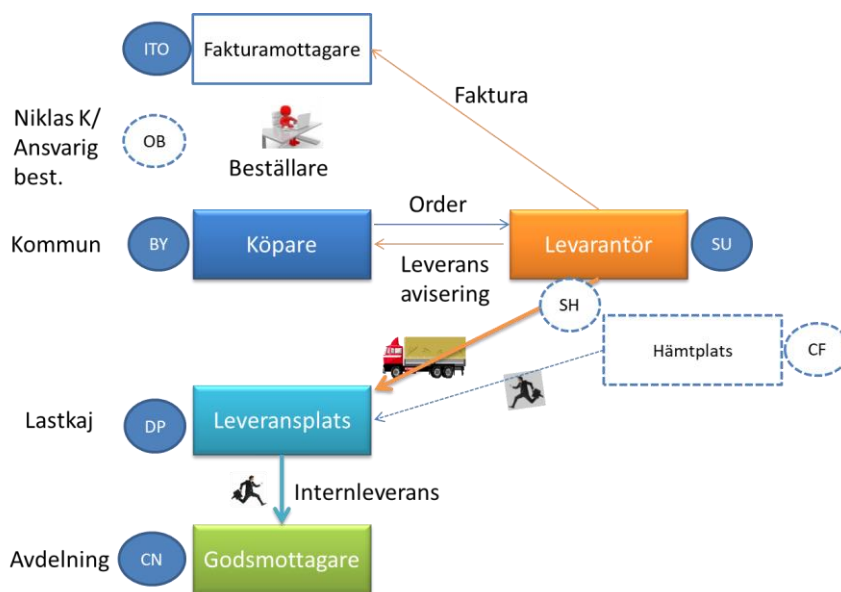
Lösning

Följande beslutades av teamet:

Part	Termnamn	Beslut	SFTI mappning (Term nr för partsid)
cac:DespatchSupplierParty	Despatching party. The Despatch Party is the person or organization who provides (despatch) the goods or services. The role is carried out by the supplier or on behalf of the supplier. (Despatch Party is sometimes known as the Consignor).	Add , since this is a main party of the message	Gods-avsändare SH T0129
cac:SellerSupplierParty	Seller <i>The seller is the legal person or organization who sells goods or services to the customer. The role is carried out by the supplier or on behalf of the supplier</i>	Add , stated in BIS business requirements that address should be provided	SU T0009
cac:DeliveryCustomerParty	Consignee information. <i>The Consignee is the person or organization to which the products will be shipped and who is taking possession. The role is carried out by the customer or on behalf of the customer.</i>	No change, already has address	DP T0037
cac:BuyerCustomerParty	Buyer. <i>The buyer is the legal person or organization who buys or purchases the goods or services. The role is carried out by the customer or on behalf of the customer</i>	Add , stated in BIS business requirements that address should be provided	BY T0008

cac:OriginatorCustomerParty	Originator customer party. förklaring hämtat från (RFCPB30-14. Address) to where the DeliveryCustomerParty may forward the shipment.	Add , informative to provide address to where the DeliveryCustomerParty may forward the shipment.	CN T0036
cac:CarrierParty		Do not add	
cac:Delivery/cac:Despatch/cac:DespatchAddress		No change, already has address.	Hämtplats CF T2240

Observera att parterna i PEPPOL **DespatchAdvice** inte helt stämmer med parterna i PEPPOL **Order**. I skissen nedan finns de olika parterna med kvalificerare enligt EDIFACT. Streckade parter sällan förekommande.



Figur 1 De olika parterna i Order och DespatchAdvice

PEPPOL ORDER

Part	Termnamn	Kommentar	SFTI mappning (Term nr för partsid)
cac:SellerSupplierParty	Seller		SU T0009
cac:/Delivery/DeliveryLocation	Delivery location <i>the location to where the ordered items should be delivered</i>	Annan part i DespatchAdvice	DP T0037

cac:BuyerCustomerParty	Buyer		BY To008
cac:OriginatorCustomerParty	Originator party	Beställare.	OB To295
cac:Delivery/DeliveryParty	Delivery party <i>In this BIS: The identifier of the party that should receive the ordered items</i>	ID och Namn. Adress saknas.	CN To036
cac:AccountingCustomerParty	Invoicee party the receiver of the invoice based on the order (Invoicee)		ITO To240

4.8 PB30-16 Despatch Advice (BIS 30A), extension of cardinality for order reference ID

RFC

Önskar ha möjlighet att ange referens till mer än en order i leveransavisering.

Lösning

In BIS3 upgrade meeting 6 it was pointed out that this is not in line with the TC434 one to one document reference policy and it may complicate invoice to despatch matching, but the meeting agreed to add the order reference to the line.

Orderreferens är tillagt på leveransrad.

Observera ett det fortfarande är krav på en faktura per leverans/order.

1..1	cac:OrderLineReference	Order line reference
1..1	cbc:LineID	Order line identifier <i>To uniquely identify the line of the order that is being despatched.</i>
1..1	cac:OrderReference	Order reference

4.9 PB30-23 General - enable price types for price in all transactions, other than Invoice

RFC

To be able to set price according to type, use PriceTypeCodes.

Use PriceTypeCode as follows instead of PriceType

Codes from UN/CEFACT code list 5387, Price specification code

Lösning

Resolution agrees not to add the PriceTypeCode element but **use the existing PriceType** text element with the change in description that makes it clear that price type is not limited to prices that may change. Use of price type aligned between **Catalogue, Punch out and Order agreement.**

0..1	cbc:PriceType	Price type <i>The type of the item price. The type may be given by using codes from UN/CEFACT code list 5387. When prices are temporary the validity period for the price should be defined by stating the price validity period.</i>
------	-------------------------------	--

Observera att det inte finns någon begränsning (short list) på vilka koder som kan användas.

Contracted item indicator är tillagt i PunchOut och OrderAgreement

Card	Name	Description
------	------	-------------

1..1	cbc:ActionCode	<p>Contracted item indicator <i>The code CT indicates that the item is offered in accordance to the referenced contract.</i></p> <p>Example value: CT</p>
------	--------------------------------	--

Eftersom **Price type** med värdet "CON" anger att priset är "Kontraktspris", byter **Contracted item** indicator med värdet "CT" betydelse.

Tidigare betydelse av "CT": Indikerar att priset är kontraktspris.

Ny betydelse av "CT": Artikeln erbjuds enligt ett det refererade kontraktet.

SFTI föreslår att man primärt använder nedan angivna koder och kombination av Price Type och Contracted item indicator för att få en koppling till SFTI's termlista som används i SFTI/ESAP 6.

Kombination av PriceType och ActionCode

Price Type	Contracted item indicator	SFTI Termnr	Betydelse
CON	CT	T0029	Kontraktspris
CON			Ej tillåten kombination
	CT	T0029	Kontraktspris. Kombinationen avrådes. Men kan temporärt tillåtas för att vara bakåtkompatibel med version 2.
		Ny	Ej tillåten kombination
CP	CT	T0203	Aktuellt pris (dagspris) avtalat (avtalad artikel)
CP		T0238	Aktuellt pris (dagspris) rabatterat (ej avtalad artikel)
DPR	CT	T0182	Rabatterat listpris. Artikeln inom kontraktet
DPR		Ny	Rabatterat listpris. Artikeln ej inom kontraktet
PRP	CT	T3288	Kampanj på avtalad artikel
PRP		T5029	Kampanj på ej avtalad artikel
CAT	CT	Ny	Listpris. Artikeln inom kontraktet (ex vis för läkemedel)
CAT		T0181	Listpris. Artikeln ej inom kontraktet
AAN	CT	5030	Pris ej satt för avtalad artikel (ex vis extempore)
AAN		Ny	Pris ej satt för ej avtalad artikel

4.10 PB30-24 General - harmonize Contracted Item Indicator and reference to contract

RFC

Contracted Item Indicator and reference to contract.

In Catalogue, Punch Out and Order Agreement you may indicate that an item is contracted and has a contracted price. You may also reference to a contract and subcontract (in the catalogue).

But this is done differently in the messages Catalogue, Punch Out and Order Agreement.

Lösning

According to initial scope and disposition. Since the elements are not in invoice or order then catalogue leads. I.e. Punch out and Order Agreement are aligned to the Catalogue.

För Catalogue, Punch Out och Order Agreement anges **Contracted item indicator** som

```
<cac:TransactionConditions>  
<cbc:ActionCode>CT</cbc:ActionCode>  
</cac:TransactionConditions>
```

För Catalogue och Punch Out anges **Contract reference** som

```
<cac:ReferencedContract>  
<cbc:ID>3299-RA</cbc:ID>  
</cac:ReferencedContract>
```

För OrderAgreement anges **Contract reference** som

```
<cac:Contract>  
<cbc:ID>3299-RA</cbc:ID>  
</cac:Contract>
```

4.11 PB30-26 Order Response - Use code list 1229 instead of 1225 as status code on line level

RFC

On OrderLine level LineStatusCode is referring to wrong code list. UNCL1225 is used for status on header level. In this BIS it's also used for status on line level. The correct code list is UNCL1229.

Lösning

Use code list UNCL1229 in OrderLine level.

4.12 PB30-30 Order Response - Introduce the use of line status code to indicate already delivered items

RFC

An Order Response which changes an order, must relate all changes to the order and not to any individual order response.

This complies even if an order is partially delivered. In this case for example Quantity and PromisedDeliveryPeriod is the actually delivered quantity and Period.

The reason for this is that there is a risk for missing information if the delivered quantity hasn't been registered in the buyer's system before the next order response is read into the system.

Our suggestion is to use LineStatusCode=42 (Already delivered) for the lines/quantities where delivery has taken place.

Lösning

In team meeting it was found that the process descriptions and images in the BIS28 were inconsistent on whether there can be one or more responses to the same order and how the order could be updated. It was agreed that the BIS should be updated and clarified so that the following scenario is supported.

Kod	Betydelse
1	The Order line is Added
3	The Order line is Changed.
5	The Order line is Accepted without amendment.
7	The Order line is Not accepted.
42	The Order line is Already delivered

An example on multiple order responses. It happens quite often that the supplier need to correct a sent order response due to changes in the stock etc. The order response may be several times per day! See example files "ImplStod-BIS3-xxx.xml"

Order 4321:

Line 1. Article A, Qty 10, deliverydate May 28

Line 2. Article B, Qty 5, deliverydate May 28

Line 3. Article C, Qty 12, deliverydate May 28

Order Response 1:

Line 1. Status code 3 Changed. Article A, Confirm 8, deliverydate May 28 Ref Line 1. (no information regarding 2 missing).

Line 2. Status code 3 Changed. Article B, Qty 5, deliverydate May 30. Ref Line 2

Line 3. Status code 5 Accepted. Article C, Qty 12, deliverydate May 28. Ref Line 3

Order Response 2:

Line 1. Status code 3 Changed. Article A, Confirm 8, deliverydate May 28 Ref Line 1

Line 2. Status code 1 Add. Article AA, Confirm 2, deliverydate May 30 Ref Line 1 (Note change of article and date)

Line 3. Status code 3 Changed. Article B, Qty 5, deliverydate May 30. Ref Line 2

Line 4. Status code 5 Accepted. Article C, Qty 12, deliverydate May 28. Ref Line 3

So far it's quite straight forward.

The delivery is made May 28 as confirmed.

The supplier need to change date for order line 1 (the added) and order Line 2 from May 30 to June 1

If the order response excludes the delivered lines there may be misinformation in the buyers system as the delivery may not have been registered.

So, rule has to always be, to send complete order response and referring to the original order.

Order Response 3:

Line 1. Status code 42 Delivered. Article A, Confirm 8, deliverydate May 28 Ref Line 1

Line 2. Status code 1 Add. Article AA, Confirm 2, deliverydate June 1 Ref Line 1

Line 3. Status code 3 Changed. Article B, Qty 4, deliverydate June 1. Ref Line 2 (no information regarding 1 missing)

Line 4. Status code 42 Delivered. Article C, Qty 12, deliverydate May 28. Ref Line 3

Delivery June 1. Remaining 2 Line 1 and the promised 4 (out of 5) Line 2. No more to be delivered of this order.

cbc: **OutstandingQuantity**=0.

No more Order responses are sent.

If the supplier had known that the missing item Line 3 will not be delivered, they should use cbc:**MaximumBackorderQuantity**=0 in the OrderResponse for Line 2.

4.13 PB30-32 Order Response - Introduce a document status code to confirm order reception

RFC

Add to the list of codes for OrderResponseCode:

12 = the referenced message was received but not yet processed.

Lösning

To align with other uses of action codes the 1225 on document level should be changed to 4343.

Dvs ändring från kodtabell UNCL1225 till UNCL4343.

Med användning av kod AB får man samma funktion som Avropserkännande i ESAP 6.

Ny kod	Tidigare kod	Betydelse
AB	12	The Order has been received but not yet been processed. No lines should be sent. An additional order response should be sent after processing, to accept, reject or accept with changes. OBS att denna kod är den nya för att få samma funktion som Avropserkännande i SFTI/ESAP 6.
RE	27	The Order is rejected. No lines should be sent
AP	29	The Order is accepted without amendment. No lines should be sent
CA	30	The Order is accepted with amendment on line level. All lines must be sent

4.14 PB30-33 Punch Out - Add delivery address and validity period on line level (and reservation of goods PB30-34)

RFC

Add to PunchOut line (as in Catalogue):

Delivery Address (ApplicableTerritoryAddress)

ValidityPeriod (StartDate and EndDate) in the Price element

The ValidityPeriod is the requested Delivery date (s).

Lösning

Agreed to add validity period on price and this also covers issue 34 (the buyer need to make a reservation of the goods).

Placeras: **OBS inte i Price elementet.**

Catalogue/cac:CatalogueLine/cac:LineValidityPeriod

0..1 [cbc:StartDate](#)

Item availability date

The date when the item will be available for ordering. Format = "YYYY-MM-DD"

Example value: 2018-05-01

0..1 [cbc:EndDate](#)

Cart line validity date

Date until which information and prices stated in the shopping cart line are valid.

Example value: 2018-05-31

0..1 [cbc:EndTime](#)

Cart line validity time

The time of the end date until which information and prices stated in the shopping cart line are valid.

Example value: 23:59:59

Agreed to add the full address for the price. The address has same content as general addresses. It can appear once in each line

Placeras:

Catalogue/cac:CatalogueLine/cac:RequiredItemLocationQuantity/cac:ApplicableTerritoryAddress

4.15 PB30-35 Catalogue - Enable the use of standard item numbers to reference between related items

RFC

The proposal is that by using the schema id GTIN as attribute on the reference it indicates that the reference is using the standard ID.

Lösning

Agreed to make no changes to the element but clarify in instructions that when the catalogue provider using references between items within the catalogue he must provide the SellerID for the referenced item and ensure that it is unique so that the reference is unambiguous.

Med andra ord: det finns ingen lösning som gör det möjligt att ange att den relaterade artikeln är ex vis ett GTIN. Observera att det är möjligt att ha både SellerItemIdentifier och StandardIdentifier (ex vis GTIN) i katalogen. För leverantören innebär det att man måste ange ett SellerItemIdentifier för de relaterade artiklarna och att dessa måste vara unika inom katalogen. Om leverantörens artikelnummer (SellerItemIdentifier) inte är unika kan man dessutom ange exempelvis GTIN i SellerItemIdentifier.

4.16 PB30-37 Question for documentation on PEPPOL_BIS-18A.pdf, "Punch out"

RFC

ItemSpecificationDocumentReference have cardinality 0 .. unbounded.

But are limited by rule: BII3-T77-R025 – "An item in a catalogue line SHOULD have at most one attachment", should cardinality have been set to max 1?

Lösning

Rule BII3-T77-R025 removed because it conflicts with other requirements such as the ability to provide images where one is marked main image.

Dvs det är tillåtet att ha mer än 1 referens.