

Title	Impact analysis for Simplerinvoicing (SI-UBL 1.2) , NL-CIUS and PEPPOL-CIUS
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Impact analysis on Simplerinvoicing (SI-UBL 1.2) due to NL-CIUS and PEPPOL-CIUS (and thus EN 16931)



1 Executive Summary

Simpler Invoicing has made the decision to make its next release compliant with the EN16931 norm. This can be done by adopting the "EN norm as documented" or to comply to a CIUS. One can create a custom CIUS (strategically not preferred by SI) or an available CIUS. Two available options are NL-CIUS and PEPPOL-CIUS. SI has requested to look at both CIUSes. This document analyzed the impact on SI due to adoption to the EN norm and the two CIUSes.

The EN norm introduces the biggest impact on the SI 1.2 standard, not the CIUSes. The CIUSes only introduce a small delta between them.

The important insight gained in the analysis, is the difference between <u>sending and receiving</u> an invoice <u>within SI-only OR in-between CIUSes</u>. When sending an invoice via a standard that has to comply to two or more CIUSes, that standard has to use <u>the most strict</u> cardinality. All business rules of both receiving CIUSes will be valid. However, this does not apply when you need to RECEIVE an invoice. For example, when one CIUS allows more than one instance of an element, and the other CIUS does not.

At the start of the analysis there were many differences between the CIUSes, however due to interaction with the NL and PEPPOL-CIUS workgroups these have been reduced to a handful. This analysis thus made it possible to adopt both CIUSes in one go, with limited implementation effort and complexity, instead of having to set up a migration plan to adopt two standards.



The analysis in numbers

- There are 24 **new** mandatory elements to be added to SI
 - o For 4 of these new element there is a cardinality difference between NL and PEPPOL
- There are 30 cardinality changes for SI (See chapter 6.1)
 - O There are 19 optional elements that have to become mandatory
 - O There is 1 element which is allowed 0..2, but is now restricted to 0..1
 - o The amount of differences between the CIUSes is minimal, which makes adoption
 - Actual difference
 - PEPPOL-CIUS has 3 elements mandatory due to the infrastructure network used (in comparison to NL-CIUS)
 - Difference that might be eliminated
 - NL-CIUS is enforcing 1 Document Type Code, but is considering to make it optional similar to PEPPOL Info: This element is also new, and thus should not be counted twice in this overview
 - NL-CIUS is enforcing at least 1 taxSubTotal, but is considering to make it optional similar to PEPPOL
 - Current differences that will be eliminated
 - NL-CIUS has 6 mandatory elements (SI optional), which (with 3 new elements) will be proposed to PEPPOL-CIUS as NL specific business rules. This will eliminate them as a delta.
- In order to <u>receive</u> invoices that are compliant to NL and PEPPOL, 49 elements need changes (See chapter 6.2)
 - 0 1 element (cbc:ProfileID) is now mandatory, but should be optional for NL
 - 0 33 elements are new to SI, are optional (not included in the 24 mentioned above), but should be allowed when receiving invoices.
 - 0 15 need to become <u>less strict</u> and thus allow more elements in the message or to become optional.
- 161 Elements need to be dropped from SI
 - 0 4 mandatory elements need to be dropped
 - O There are 59 other mandatory elements but are in an optional group
 - O The remaining 97 elements are optional.



2 Introduction and purpose

2.1 Earlier analysis SI versus EN16931-1

In early 2017 Rick Ribbers has executed an impact analysis for the European norm (EN 16931-1, draft version of early 2017) and Simplerinvoicing (SI-UBL 1.2).

The high level summary with the information known at the time was as follows:

- 1. There are 60 elements that have a more strict cardinality in SI-UBL compared to the EN
- 2. A total of 53 elements are not matched (of which 3 are mandatory). This indicates that there is a field in the European norm that does not exists in SI-UBL 1.2.
- 3. Out of the UBL syntax mapping several duplicate mapping from the EN to a single UBL element are made. Note: since the analysis the EN UBL syntax binding is updated significantly, most of the duplicate mappings are solved.
- 4. There are 134 elements in SI-UBL that are not available in the European norm.
 - a) SI-UBL has introduced several optional elements that do not influence the semantics of the core invoice but are merely there for enriching the invoice with additional data. These additions must be considered an extension to the norm and thus making it a non-compliant e-invoice.
- 5. Code lists are handled differently in the European norm. Within SI-UBL (like PEPPOL) most code list are restricted to minimize the amount of fields to be processed. Especially the InvoiceTypeCode and PaymentMeansCode contain more elements in the European norm.

Given (1), (2) and (4) there is a big gap between the SI-UBL v1.2 and the EN16931 in order to become fully compliant:

- Support for 134 element (4) must be dropped. Extensions make the invoice non-compliant.



2.2 Introduction of shared CIUSes

Creating a "Core Invoice Usage Specification (CIUS)" is the only way to create a compliant implementation of the European norm. A CIUS is a set of restrictions applied to the European Norm. There are two initiatives for developing a CIUS where Simplerinvoicing is actively participating:

- The "NLCIUS" initiative; initiated by the SMeF governance board, developed by several players in the Dutch e-invoicing market, including Simplerinvoicing, Logius, Dutch ministries, Programmabureau e-factureren, SALES, SETU and a couple of individual market players. The working group was guided and supported by NEN, TNO and Fred van Blommestein (lead editor of the EN).
 - o The goal is to have one CIUS for the Dutch market (any2any) where the invoice model is identical to the Simplerinvoicing model and the models of all other associated stakeholders. More info: see presentation of Michiel Stornebrink en Fred van Blommestein during the CAB meeting of 10 Oct. 2017.
 - o The NLCIUS is registered for adoption on the 'Pas toe of leg uit'-lijst of Bureau Forum Standardisatie. This list makes it mandatory for all Dutch governmental bodies to support and comply to the NLCIUS. Other (self-made) CIUS's are not allowed.
 - o NLCIUS is the Dutch translation and implementation guideline of the EN16931-1. The specification is governed by the NEN Standardization platform eProcurement. NEN, TNO and Simplerinvoicing are projectpartners and have received funding for activities in this community platform.
- The "PEPPOL CIUS" initiative, resulting in the PEPPOL BIS v3 specification.



2.3 Earlier discussions/decisions of FB, COP and CAB

The following guidelines for the Change Advisory Board are defined by the COP in May 2017:

See: 20170522-cop-en-adoption-strategy-0.2.docx

- A CIUS is a way to communicate differences to the EN norm. This should be additional to the Simplerinvoicing specification that can be used standalone. Layering specifications should be avoided to make sure there is one place to find information about the standard. This also might be a way for implementers to minimize the impact of the copyright issue with the European norm.
- Simplerinvoicing has a strong adoption in the Dutch market. The guiding principle should be to converge SI-UBL towards the NLCIUS initiative.
- Simplerinvoicing differentiates itself in the market being a PEPPOL Authority. Being a SI-FULL participant, one can guarantee the authenticity and integrity of the e-invoice. SI-UBL itself has no distinctiveness in the market. It helped Simplerinvoicing to start up, but with the adoption of the norm it will definitely change.
- Initially the adoption should focus on developing a core invoice that is compliant to the European Norm. In a later phase additional extensions can be added for both specific sectors and specific invoicing scenarios. For both phases Simplerinvoicing could and should benefit from the work done by different initiatives like NLCIUS and PEPPOL.



2.4 Purpose of THIS document

Taken into account the position of Simplerinvoicing to adopt and converge to the EN16931-1, this document focuses on the delta between:

A. SI and EN16931-1

New information confirms previous conclusions and/or adds new insights based on changes after previous analysis. The EN norm will imply changes (additions, restrictions and removals) independently which CIUS(es) is(are) used. The comparison between SI and EN is therefore a baseline.

Adopting a CIUS implies further restrictions on the EN norm (, and thus on A). Adopting two or more, will imply

- B. restrictive changes that are similar and
- C. the <u>most restrictive changes</u> in cardinality and (thus also) business rules.

SI is currently confirmative to PEPPOL and may want to adopt to the NL-CIUS and PEPPOL-CIUS at the same time. Thus SI will have to conform to the similarities (B), however having to make a choice between the differences (C). In order for the CAB and COP to make an informative decision for adoption of the European norm via NL-CIUS and/or PEPPOL-CIUS.



2.5 Migration approach

There are several ways in order to make SI compliant to the EN norm and the NL and PEPPOL-CIUSes.

Based on the impact defined in this document one can choose for the best approach (either complexity, urgency, functional impact etc)

	(1.2)	Step 1 (1.3a)	Step 2 (1.3b)	Step 3 (1.3c)
a)	Current SI	> EN	> +NL-CIUS	> +PEPPOL
b)	Current SI	> EN	> +PEPPOL	> +NL-CIUS
c)	Current SI	> NL-CIUS (+EN)	> +PEPPOL	
d)	Current SI	> PEPPOL (+EN)	> +NL-CIUS	
e)	Current SI	> NL + PEPPOL (+EN) (S&R)		
f)	Current SI	> NL (S&R) and PEPPOL (S only)	> + PEPPOL (+R)	
g)	Current SI	> PEPPOL (S&R) and NL (S only)	> + NL (+R)	

Advantages/Disadvantages

- Approach A+B require 2 intermediate updates, which will lead in a lot of overhead, perhaps unnecessary double changes (due to further restrictions of the same element)
- Approach C+D bundle the EN adoption with one of the CIUSes (1.3a). The second adoption will require a 2nd release (1.3b).
- Bundling the 1.3a and 1.3b seems very reasonable but can be risk full. A migration is not the change by itself, but also implies testing and acceptance. Approach E might be too big to handle all these in one go.
- Approach E is one big release. When sending and receiving only within SI, then technical complexity is lower compared to also allowing NL and/or PEPPOL-CIUS compliant invoices.
- Approach F+G. Restricting cardinality is ok for sending invoices, not when you allow receiving from two or more CIUSes. These two options uses the most strict cardinality in 1.3a allowing to send to both, but only to receive from one CIUS. The next release would enable the receiving part of the invoice according to the other CIUS.

Preliminary advise

• Due to the limited differences between NL and PEPPOL-CIUS it is advised to go for option E.



2.6 Analysis approach

The following topics may imply changes on the standard:

- A. Elements
- B. Cardinality
- C. Semantic data type
- D. Codes en identification numbers
- E. Business Rules
- F. Value range of the element

This document focusses on A, B and E. Because the other ones (C, D and F) are controlled within the implementation of E.



3 Delta analysis SI-UBL 1.2 with EN16931 [Elements and Cardinality]

Elements and cardinality

This chapter identifies the impact of the EN norm on SI, without considering a CIUS.

Not all elements with changes are mentioned in detail, as the impact of the CIUS adds more detail OR the CIUS is more aligned with SI instead of the EN norm, In these cases the actual impact is mentioned in the next chapter

SI same as EN (would be no change for SI)

There are 165 elements which have the same cardinality as the EN norm

SI elements, not used in EN (to be <u>dropped</u> from SI)

The EN norm has 213 unique business terms. SI consists out of 381 bindings. Irrelevant of a CIUS, there are 161 elements (145 fields and 46 groups) in SI that are not used in the EN norm and need to be removed from SI 1.2 in order to become compliant.

			Grand	
SI				
cardinality	Element	Group	Total	Ref
01	66	25	91	A1a
0n	3	3	6	A1b
11	75	18	63	A1c
1n	1		1	A1d
Grand Total	145	46	161	



Fortunately of the 64 elements in A1c + A1d only 4 are really mandatory. The remaining 60 are in an optional group.

cbc:UBLVersionID

cac:InvoiceLine/cac:TaxTotal/cbc:TaxAmount

cac: Payment Means/cac: Payee Financial Account/cac: Financial Institution Branch/cac: Financial Institution/cac: Address/cac: Country/cbc: Indentification Code

cac:PaymentMeans/cac:PayeeFinancialAccount/cac:FinancialInstitutionBranch/cac:FinancialInstitution/cbc:ID

See the appendix for the full list. Please note that SI-UBL has introduced several optional elements that do not influence the semantics of the core invoice but are merely there for enriching the invoice with additional data. These additions must be considered an extension to the norm and thus making it a non-compliant e-invoice.

EN elements, not used in SI (to be added to SI)

Irrelevant of a CIUS, there are 60 elements not in SI, of which 6 fields and 1 group is mandatory. The next chapter will change some of these numbers due to further restrictions within the CIUS. Based on the EN norm, the impact would be as follows:

	EN Element		EN	Grand Total	
SI \ EN	01	11	Group 01	11	IOLAI
Not in SI	34	6	12	3	55
Grand Total	34	6	12	3	55
Ref	B1a	B1b	B1c	B1d	

See appendix for the full list.

IMPORTANT: The cardinality meets the EN standard NOT any CIUSes. So please use it only as a reference.



Cardinality changes to SI due to EN

There are 221 elements with changed cardinality.

Most elements equal in SI (which is ok = Green)

Elements more strict in SI compared to EN is ONLY ok when only sending invoices (Blue)

Elements more strict in EN compared to SI is ONLY ok when receiving invoices (Orange)

	Element			Group						Grand Total
SI\EN	01	0n	11	01	02	0n	11	12	1n	
01	44	1	5	35	1	3	9			98
02				1						1
0n						6			1	7
11	24		48	8		2	31	1		114
1n									1	1
Grand Total	68	1	53	44	1	11	40	1	2	221



4 Delta analysis NL-CIUS and PEPPOL-CIUS [Elements and Cardinality]

In this analysis we purely look at the similarities and differences between the two CIUSes <u>without</u> mentioning the impact on SI. The chapter 5 will take the most strict cardinality of the two and mention the impact for SI.

Similarities between NL and PEPPOL

Row Labels	Elements	Groups	Grand Total
NL=PEP	153	111	264
Not used in NL nor PEP	115	46	161
Grand Total	268	157	329

Note: 161 is the same number as mentioned in chapter 3 (Delta SI and EN)

Differences between NL and PEPPOL

Row Labels	Elements	Groups	Grand Total
NL is more strict	10	1	11
PEPPOL is more strict	1	2	3
Grand Total	11	3	14



5 Delta analysis NL-CIUS and PEPPOL-CIUS [Business Rules]

5.1 Type of business rules

There are 4 layers of business rules identified in PEPPOL.

NL does not have Layer D for other countries than NL. PEPPOL has country specific rules eg DK and NO.

А	Validation of syntax	 Check well-formedness Tag names and attributes must be correctly written and follow the UBL 2.1 sequence All UBL 2.1 mandatory elements must be present. The element's contents must be according to the element's type definition.
В	Validation against EN 16931	To verify that the instance message is compliant to the european standard, like: • Valid codes for currencies, countries, tax etc. • Mandatory elements according to EN 16931. • Logical correlations between information element, i.e. that start date is at least lower than end date, calculations give the correct result etc.
C	CIUS - General rules	General rule that applies to all invoices and are triggered by the existence of one or more specific business term(s). • Example rule text An invoice must have a buyers reference or an order reference • Context that triggers the rule Existence of either Buyer reference (BT-10) OR Purchased order reference (BT-13)
D	CIUS - Country qualified validation rules	Applies only for invoices issued in a specific country. The rule is triggered by the given country code of the seller (BT-40). • Example rule text When the Seller is Swedish, the Legal Registration Number must be numeric with 10 digits. • Context that triggers the rule Existence of Seller/Address/CountryCode='SE' AND existence of Seller/LegalRegistrationNumber



All PEPPOL schematron files can be found on: https://github.com/OpenPEPPOL/peppol-bis-invoice-3/tree/master/rules

5.2 Business Rule comparison

NL and PEPPOL describe and enforce their business rules in different ways. NL is more descriptive in their documentation, whereas PEPPOL has assigned specific business rules for each of them, in most cases these are also implemented in schematron files.

	Business Rule Category		#BR's In PEPPOL	#BR's In NL-CIUS	
Validation of	BR	Integrity rules	58	58	No differences between CIUS-es
syntax	BR-DEC	Diverse	21	Yes	NL mentions rules in document, not as separate BR
	UBL-CR	Diverse	644	Yes	NL and PEPPOL both Exclude this element. NL has not explicitly created a BR for it.
	UBL-DT	Diverse	22	Yes	3x NL mentions rules in document, not as separate BR
					19x NL and PEPPOL both EXCLUDE other element
	UBL-SR	Diverse	40	Yes	36x NL mentions rules in document, not as separate BR
				4	4x NL mentions rules in BR's
	PEPPOL-EN16931-F	Diverse	1	Yes	NL mentions rule in document, not as separate BR
	BR-CO	Conditions	24	24	No differences between CIUS-es
Validation agains	st <mark>BR-S</mark>	VAT std tariff	10	10	No differences between CIUS-es
EN 16931 and	BR-Z	Zero rated VAT	10	10	No differences between CIUS-es
CIUS - General	BR-E	Exempt from VAT	10	10	No differences between CIUS-es
rules	BR-AE	VAT reverse charge	10	10	No differences between CIUS-es
	BR-IC	Intra-community supply	12	12	No differences between CIUS-es
	BR-G	Export outside the EU	10	10	No differences between CIUS-es
	BR-O	Not subject to VAT	14	14	No differences between CIUS-es
	BR-CL	Code list compliancy	20	Yes	EN (and in some cases also NL) mentions rules in document, not as separate BR
	PEPPOL-EN16931-CL	Additions to BR-CL	7	Yes	NL or EN mentions rules in document, not as separate BR



	PEPPOL-EN16931-P	Diverse	2	Yes	NL mentions rule in document, not as separate BR
	PEPPOL-EN16931-R	Diverse	27	*1	PEPPOL has introduced several Business Rules that either checks or makes calculations in order to verify the compliancy with their (additional) business rules.
					TNO concluded: -5 very minor issues, not really deltas per se3 minor deltas, one of which is trivial -1 that likely is a mistake in PEPPOL.
					The two significant deltas are 'electronic address' for buyer and seller, which are mandatory in PEPPOL and optional in NLCIUS/EN
	BR-IG	Diverse	20	*2	IGIC and IPSI are not supported in NL-CIUS - VAT Category Code. Only the values in Table 14 — VAT category code are allowed.
CIUS - Country qualified validation rules	NO-R	Diverse	2	#NA1	Nordic specific business rules in PEPPOL, no need for these in NL-CIUS
, and an on raics	DK-R	CIUS - General rules	2	#NA2	Danish specific business rules in PEPPOL, no need for these in NL-CIUS
	BR-NL	Diverse	*3	35	NL specific business rules in NL-CIUS
		Grand Total	964	158	

Conclusion

- (NA1+2) Additional business rules need to be triggered when sending to specific countries via PEPPOL (NO-R and DK-R).
- (*1+*2) When receiving an invoice from PEPPOL more values need to be supported and thus more business rules need to be triggered (BR-IG)
- (*3) PEPPOL-CIUS will be requested to adopt the NL-CIUS's BR-NL business rules. Eliminating a delta



6 Delta analysis SI vs EN + NL + PEPPOL-CIUS [Elements and Cardinality]

In this chapter we define the true impact of the adoption of 2 CIUSes and thus the compliance to the EN norm.

6.1 Cardinality change for SI (When sending invoices)

In this table you can see that SI has a large cardinality (less strict)

SI cardinality	01	11	1n	Grand Total
01				
Cardinality change due to EN		14		14
Cardinality change due to NL		6		6
Cardinality change due to NL+PEPPOL (not EN)		5		5
Cardinality change due to PEPPOL		2		2
02				
Cardinality change due to EN	1			1
0n				
Cardinality change due to NL			1	1
11				
Cardinality change due to PEPPOL		1		1
Grand Total	1	28	1	30



6.2 Cardinality change for SI (When receiving invoices)

In this table you can see how many elements have a more strict cardinality. Without adjustments SI would reject these invoices.

SI cardinality	01	02	0n	Grand Total
01				
s_ok, Si stricter (than EN, and thus NL+PEPPOL)		1	2	3
11				
s_ok, Si stricter (than EN, and thus NL+PEPPOL)	12			12
nok, SI 11 > NL 01 PEPPOL 1.1	1			1
Not existent in SI				
New in EN and optional	33			33
Grand Total	46	1	2	49

6.3 New Elements

		Grand
SI cardinality	11	Total
(blank)	24	24
NEW for SI, due to EN and strict NL	4	4
NEW for SI, due to EN and strict NL+PEPPOL	20	20
Grand Total	24	24



Appendix

A1. New mandatory elements (24) to be added to SI

A1. New mandatory elements (24) to be added to 3				
Row Labels	Group	EN	NL	PEP
cac:DespatchDocumentReference/cbc:ID	FALSE	01	11	11
cac:ReceiptDocumentReference/cbc:ID	FALSE	01	11	11
cac:OriginatorDocumentReference/cbc:ID	FALSE	01	11	11
cac: Additional Document Reference/cac: Attachment/cbc: Embedded Document Binary Object/@filename to the control of the cont	FALSE	11	11	11
cac:AdditionalDocumentReference/cbc:DocumentTypeCode	FALSE	Not spec	11 *1	01
cac:AccountingSupplierParty/cac:Party/cac:PostalAddress/cac:AddressLine/cbc:Line	FALSE	01	11	11
cac:AccountingCustomerParty/cac:Party/cac:PostalAddress/cac:AddressLine/cbc:Line	FALSE	01	11	11
cac:TaxRepresentativeParty/cac:PostalAddress	TRUE	11	11	11
cac:TaxRepresentativeParty/cac:PostalAddress/cbc:StreetName	FALSE	01	11 *2	01
cac:TaxRepresentativeParty/cac:PostalAddress/cbc:CityName	FALSE	01	11 *2	01
cac:TaxRepresentativeParty/cac:PostalAddress/cbc:PostalZone	FALSE	01	11 *2	01
cac:TaxRepresentativeParty/cac:PostalAddress/cac:AddressLine/cbc:Line	FALSE	01	11	11
cac:TaxRepresentativeParty/cac:PostalAddress/cac:Country	TRUE	11	11	11
cac:TaxRepresentativeParty/cac:PostalAddress/cac:Country/cbc:IdentificationCode	FALSE	11	11	11
cac:Delivery/cac:DeliveryLocation/cac:Address/cac:AddressLine/cbc:Line	FALSE	01	11	11
cac:Delivery/cac:DeliveryParty/cac:PartyName	TRUE	11	11	11
cac:Delivery/cac:DeliveryParty/cac:PartyName/cbc:Name	FALSE	01	11	11
cac:PaymentMeans/cac:PaymentMandate/cac:PayerFinancialAccount/cbc:ID	FALSE	01	11	11
cac:AllowanceCharge/cbc:BaseAmount/@currencyID	FALSE	11	11	11
cac:InvoiceLine/cac:DocumentReference/cbc:ID	TRUE	01	11	11
cac:InvoiceLine/cac:DocumentReference/cbc:DocumentTypeCode	FALSE	Not spec	11	11
cac:InvoiceLine/cac:AllowanceCharge/cbc:BaseAmount/@currencyID	FALSE	11	11	11
cac:InvoiceLine/cac:Item/cac:StandardItemIdentification/cbc:ID/@schemeID	FALSE	11	11	11



cac:InvoiceLine/cac:Item/cac:CommodityClassification/cbc:ItemClassificationCode/@listID

FALSE

1..1

1..1

1..1

- *1 NL-CIUS is enforcing 1 Document Type Code, but is considering to make it optional similar to PEPPOL.
- *2 NL-CIUS has 6 mandatory elements (SI optional), which (with 3 new elements as documented here) will be proposed to PEPPOL-CIUS as NL specific business rules. This will eliminate them as a delta.

A2. 30 cardinality changes for SI

A2.1 19 optional elements that have to become mandatory

Row Labels	Group	Si	EN	NL	PEP
cac:AccountingSupplierParty/cac:Party/cac:PostalAddress/cac:Country	TRUE	01	11	11	11
cac:AccountingSupplierParty/cac:Party/cac:PartyTaxScheme/cbc:CompanyID	FALSE	01	01	11	11
cac:AccountingSupplierParty/cac:Party/cac:PartyLegalEntity	TRUE	01	11	11	11
cac:AccountingSupplierParty/cac:Party/cac:PartyLegalEntity/cbc:RegistrationName	FALSE	01	11	11	11
cac:AccountingCustomerParty/cac:Party/cac:PostalAddress	TRUE	01	11	11	11
cac:AccountingCustomerParty/cac:Party/cac:PostalAddress/cac:Country	TRUE	01	11	11	11
cac:AccountingCustomerParty/cac:Party/cac:PartyTaxScheme/cbc:CompanyID	FALSE	01	01	11	11
cac:AccountingCustomerParty/cac:Party/cac:PartyLegalEntity	TRUE	01	11	11	11
cac:AccountingCustomerParty/cac:Party/cac:PartyLegalEntity/cbc:RegistrationName	FALSE	01	11	11	11
cac:PayeeParty/cac:PartyName	TRUE	01	11	11	11
cac:TaxRepresentativeParty/cac:PartyTaxScheme/cbc:CompanyID	FALSE	01	11	11	11
cac:Delivery/cac:DeliveryLocation/cac:Address/cac:Country	TRUE	01	11	11	11
cac:PaymentMeans/cac:PayeeFinancialAccount/cac:FinancialInstitutionBranch/cbc:ID	FALSE	01	01	11	11
cac:PaymentTerms/cbc:Note	FALSE	01	01	11	11
cac:AllowanceCharge/cac:TaxCategory	TRUE	01	11	11	11
cac:LegalMonetaryTotal/cbc:PayableRoundingAmount/@currencyID	FALSE	01	11	11	11
cac:LegalMonetaryTotal/cbc:PayableAmount/@currencyID	FALSE	01	11	11	11
cac:InvoiceLine/cac:Item/cac:CommodityClassification/cbc:ItemClassificationCode	FALSE	01	0n	11	11
cac:InvoiceLine/cac:Item/cac:ClassifiedTaxCategory	TRUE	01	11	11	11



A2.2 Reduction from 0..2 to 0..1

1 element which is allowed 0..2, but is now restricted to 0..1

Row Labels	Si	EN	NL	PEP
cac:PaymentTerms	02	01	01	01

A3. Delta NL and PEPPOL

A3.1 Actual difference

PEPPOL-CIUS has 3 elements mandatory due to the infrastructure network used (in comparison to NL-CIUS)

Row Labels	Group	Si	EN	NL	PEP
cbc:ProfileID	FALSE	11	01	01	11
cac:AccountingSupplierParty/cac:Party/cbc:EndpointID	TRUE	01	01	01	11
cac:AccountingCustomerParty/cac:Party/cbc:EndpointID	TRUE	01	01	01	11

A3.2 Differences that might be eliminated

NL-CIUS is enforcing 1 Document Type Code, but is considering to make it optional similar to PEPPOL See also the table note in appendix A1.

Row Labels	Group	EN	NL	PEP
cac:AdditionalDocumentReference/cbc:DocumentTypeCode	FALSE	Not spec	11 *1	01

NL-CIUS is enforcing at least 1 taxSubTotal, but is considering to make it optional similar to PEPPOL

Row Labels	Group	Si	EN	NL	PEP
cac:TaxTotal/cac:TaxSubTotal	TRUE	0n	1n	1n	0n



A3.3 Current differences that will be eliminated

NL-CIUS has 6 mandatory elements (SI optional), which (with 3 new elements) will be proposed to PEPPOL-CIUS as NL specific business rules. This will eliminate them as a delta.

Row Labels	Group	Si	EN	NL	PEP
cac:AccountingSupplierParty/cac:Party/cac:PostalAddress/cbc:StreetName	FALSE	01	01	11	01
cac:AccountingSupplierParty/cac:Party/cac:PostalAddress/cbc:CityName	FALSE	01	01	11	01
cac:AccountingSupplierParty/cac:Party/cac:PostalAddress/cbc:PostalZone	FALSE	01	01	11	01
cac:AccountingCustomerParty/cac:Party/cac:PostalAddress/cbc:StreetName	FALSE	01	01	11	01
cac:AccountingCustomerParty/cac:Party/cac:PostalAddress/cbc:CityName	FALSE	01	01	11	01
cac:AccountingCustomerParty/cac:Party/cac:PostalAddress/cbc:PostalZone	FALSE	01	01	11	01
INFO: The other 3 were mentioned above in appendix a1:					
cac:TaxRepresentativeParty/cac:PostalAddress/cbc:StreetName		FALSE	01	11 *2	01
cac:TaxRepresentativeParty/cac:PostalAddress/cbc:CityName		FALSE	01	11 *2	01
cac:TaxRepresentativeParty/cac:PostalAddress/cbc:PostalZone		FALSE	01	11 *2	01



A4. SI too strict to receive invoices

In order to <u>receive</u> invoices that are compliant to NL and PEPPOL, 49 elements need changes (See chapter 6.2)

A4.1 cbc:ProfileID is now mandatory, but should be optional for NL

Row Labels	Group	Si	EN	NL	PEP
cbc:ProfileID	FALSE	11	01	01	11

A4.2 New but optional

33 elements are new to SI, are optional (not included in the 24 mentioned above), but should be allowed when receiving invoices.

Row Labels	Group	Reference	EN	NL	PEP
cac:InvoicePeriod/cbc:DescriptionCode	FALSE	B1_a	01	01	01
cac:OrderReference/cbc:SalesOrderID	FALSE	B1_a	01	01	01
cac:BillingReference/cac:InvoiceDocumentReference/cbc:IssueDate	FALSE	B1_a	01	01	01
cac:DespatchDocumentReference	TRUE	B1_c	01	01	01
cac:ReceiptDocumentReference	TRUE	B1_c	01	01	01
cac:OriginatorDocumentReference	TRUE	B1_c	01	01	01
cac:AdditionalDocumentReference/cbc:DocumentDescription	FALSE	B1_a	01	01	01
cac:AccountingSupplierParty/cac:Party/cac:PostalAddress/cac:AddressLine	TRUE	B1_c	01	01	01
cac:AccountingSupplierParty/cac:Party/cac:PartyLegalEntity/cbc:CompanyLegalForm	FALSE	B1_a	01	01	01
cac:AccountingCustomerParty/cac:Party/cac:PostalAddress/cac:AddressLine	TRUE	B1_c	01	01	01
cac:AccountingCustomerParty/cac:Party/cac:PartyLegalEntity/cbc:CompanyID/@schemeID	FALSE	B1_a	01	01	01
cac:PayeeParty/cac:PartyIdentification/cbc:ID/@schemeID	FALSE	B1_a	01	01	01
cac:PayeeParty/cac:PartyLegalEntity/cbc:CompanyID/@schemeID	FALSE	B1_a	01	01	01
cac:TaxRepresentativeParty/cac:PostalAddress/cbc:AdditionalStreetName	FALSE	B1_a	01	01	01
cac:TaxRepresentativeParty/cac:PostalAddress/cbc:CountrySubentity	FALSE	B1_a	01	01	01
cac:TaxRepresentativeParty/cac:PostalAddress/cac:AddressLine	TRUE	B1_c	01	01	01



cac:Delivery/cac:DeliveryLocation/cbc:ID/@schemeID	FALSE	B1_a	01	01	01
cac:Delivery/cac:DeliveryLocation/cac:Address/cac:AddressLine	TRUE	B1_c	01	01	01
cac:Delivery/cac:DeliveryParty	TRUE	B1_c	01	01	01
cac:PaymentMeans/cbc:PaymentMeansCode/@Name	FALSE	B1_a	01	01	01
cac:PaymentMeans/cac:CardAccount/cbc:HolderName	FALSE	B1_a	01	01	01
cac:PaymentMeans/cac:PayeeFinancialAccount/cbc:Name	FALSE	B1_a	01	01	01
cac:PaymentMeans/cac:PaymentMandate	TRUE	B1_c	01	01	01
cac:PaymentMeans/cac:PaymentMandate/cbc:ID	FALSE	B1_a	01	01	01
cac:Payment Means/cac:Payment Mandate/cac:Payer Financial Account	TRUE	B1_c	01	01	01
cac:AllowanceCharge/cbc:MultiplierFactorNumeric	FALSE	B1_a	01	01	01
cac:AllowanceCharge/cbc:BaseAmount	FALSE	B1_a	01	01	01
cac:InvoiceLine/cac:DocumentReference	TRUE	B1_c	01	01	01
cac:InvoiceLine/cac:DocumentReference/cbc:ID/@schemeID	FALSE	B1_a	01	01	01
cac:InvoiceLine/cac:AllowanceCharge/cbc:AllowanceChargeReasonCode	FALSE	B1_a	01	01	01
cac:InvoiceLine/cac:AllowanceCharge/cbc:MultiplierFactorNumeric	FALSE	B1_a	01	01	01
cac:InvoiceLine/cac:AllowanceCharge/cbc:BaseAmount	FALSE	B1_a	01	01	01
cac: Invoice Line/cac: Item/cac: Commodity Classification/cbc: Item Classification Code/@list Version ID	FALSE	B1_a	01	01	01

A4.3 Less strict

15 need to become <u>less strict</u> and thus allow more elements in the message or to become optional.

Row Labels	Group	Si	EN	NL	PEP
cac:InvoicePeriod/cbc:StartDate	FALSE	11	01	01	01
cac:InvoicePeriod/cbc:EndDate	FALSE	11	01	01	01
cac:BillingReference	TRUE	01	0n	0n	0n
cac:AccountingSupplierParty/cac:Party/cac:PartyIdentification	TRUE	01	0n	0n	0n
cac:AccountingSupplierParty/cac:Party/cac:PartyIdentification/cbc:ID/@schemeID	FALSE	11	01	01	01



cac:AccountingSupplierParty/cac:Party/cac:PartyTaxScheme
cac:AccountingSupplierParty/cac:Party/cac:PartyLegalEntity/cbc:CompanyID/@schemeID
cac:AccountingCustomerParty/cac:Party/cac:PartyIdentification/cbc:ID/@schemeID
cac:AccountingCustomerParty/cac:Party/cac:PartyName
cac:AccountingCustomerParty/cac:Party/cac:PartyName
cac:AccountingCustomerParty/cac:Party/cac:PartyLegalEntity/cbc:CompanyID
cac:TaxTotal/cac:TaxSubTotal/cac:TaxCategory/cbc:Percent
cac:InvoiceLine/cac:InvoicePeriod/cbc:EndDate
cac:InvoiceLine/cac:Price/cbc:BaseQuantity/@unitCode

TRUE	11	01	01	01
TRUE	01	02	02	02
FALSE	11	01	01	01
FALSE	11	01	01	01
TRUE	11	01	01	01
FALSE	11	01	01	01
FALSE	11	01	01	01
FALSE	11	01	01	01
FALSE	11	01	01	01
FALSE	11	01	01	01



Elements to be dropped from SI due to EN

161 Elements need to be dropped from SI as these are not supported by EN (and thus also not PEPPOL and NL CIUS)
Four (4) mandatory elements (which are not part of an optional group) might have a large impact on the functional flow, these are:

Row Labels

cbc:UBLVersionID

cac:InvoiceLine/cac:TaxTotal/cbc:TaxAmount

cac: Payment Means/cac: Payee Financial Account/cac: Financial Institution Branch/cac: Financial Institution/cac: Address/cac: Country/cbc: Indentification Code

cac:PaymentMeans/cac:PayeeFinancialAccount/cac:FinancialInstitutionBranch/cac:FinancialInstitution/cbc:ID

The remaining 157 to be dropped elements and groups are:

Row Labels	Group	Ref	Si
cbc:AccoutingCostCode	FALSE	A1a	01
ext:UBLExtensions	TRUE	A1a	01
ext:UBLExtensions/ext:UBLExtension	FALSE	A1d	1n
cac:AccountingCustomerParty/cac:Party/cac:Contact/cbc:ID	FALSE	A1a	01
cac:AccountingCustomerParty/cac:Party/cac:Contact/cbc:Telefax	FALSE	A1a	01
cac:AccountingCustomerParty/cac:Party/cac:PartyIdentification/cbc:ID/@schemeAgencyID	@	A1a	01
cac:AccountingCustomerParty/cac:Party/cac:PostalAddress/cbc:BuildingNumber	FALSE	A1a	01
cac:AccountingCustomerParty/cac:Party/cac:PostalAddress/cbc:Department	FALSE	A1a	01
cac:AccountingCustomerParty/cac:Party/cac:PostalAddress/cbc:PostBox	FALSE	A1a	01
cac:AccountingCustomerParty/cbc:AdditionalAccountID	FALSE	A1a	01
cac:AccountingCustomerParty/cbc:CustomerAssignedAccountID	FALSE	A1a	01
cac:AccountingCustomerParty/cbc:SupplierAssignedAccountID	FALSE	A1a	01
cac:AccountingSupplierParty/cac:Party/cac:Contact/cbc:ID	FALSE	A1a	01
cac:AccountingSupplierParty/cac:Party/cac:Contact/cbc:Telefax	FALSE	A1a	01



cac:AccountingSupplierParty/cac:Party/cac:PartyIdentification/cbc:ID/@schemeAgencyID	@	A1a	01
cac:AccountingSupplierParty/cac:Party/cac:PartyLegalEntity/cac:RegistrationAddress	TRUE	A1a	01
cac:AccountingSupplierParty/cac:Party/cac:PartyLegalEntity/cac:RegistrationAddress/cac:Country	TRUE	A1a	01
cac: Accounting Supplier Party/cac: Party/cac: PartyLegal Entity/cac: Registration Address/cac: Country/cbc: Identification Code	FALSE	A1c	11
cac:AccountingSupplierParty/cac:Party/cac:PartyLegalEntity/cac:RegistrationAddress/cbc:CityName	FALSE	A1a	01
cac:AccountingSupplierParty/cac:Party/cac:PartyLegalEntity/cbc:CompanyID/@schemeAgencyID	@	A1c	11
cac:AccountingSupplierParty/cac:Party/cac:PartyTaxScheme/cbc:ExemptionReason	FALSE	A1b	0n
cac:AccountingSupplierParty/cac:Party/cac:PostalAddress/cbc:BuildingNumber	FALSE	A1a	01
cac:AccountingSupplierParty/cac:Party/cac:PostalAddress/cbc:Department	FALSE	A1a	01
cac:AccountingSupplierParty/cac:Party/cac:PostalAddress/cbc:PostBox	FALSE	A1a	01
cac:AccountingSupplierParty/cac:Party/cbc:EndpointID/@schemeAgencyID	@	A1a	01
cac:AccountingSupplierParty/cbc:AdditionalAccountID	FALSE	A1b	0n
cac:AccountingSupplierParty/cbc:CustomerAssignedAccountID	FALSE	A1a	01
cac:AdditionalDocumentReference/cbc:DocumentType	FALSE	A1a	01
cac:AdditionalDocumentReference/cbc:ID/@schemeAgencyID	@	A1a	01
cac:AllowanceCharge/cac:TaxCategory/cbc:TaxExemptionReason	FALSE	A1a	01
cac:AllowanceCharge/cac:TaxCategory/cbc:TaxExemptionReasonCode	FALSE	A1a	01
cac:AllowanceCharge/cac:TaxTotal	TRUE	A1a	01
cac:AllowanceCharge/cac:TaxTotal/cbc:TaxAmount	FALSE	A1c	11
cac:BuyerCustomerParty	TRUE	A1a	01
cac:BuyerCustomerParty/cac:Party	TRUE	A1c	11
cac:BuyerCustomerParty/cac:Party/cac:PartyIdentification	TRUE	A1b	0n
cac:BuyerCustomerParty/cac:Party/cac:PartyIdentification/cbc:ID	FALSE	A1c	11
cac:BuyerCustomerParty/cac:Party/cac:PartyName	TRUE	A1b	0n
cac:BuyerCustomerParty/cac:Party/cac:PartyName/cbc:Name	FALSE	A1c	11
cac:BuyerCustomerParty/cbc:AdditionalAccountID	FALSE	A1b	0n
cac:BuyerCustomerParty/cbc:CustomerAssignedAccountID	FALSE	A1a	01



ac:BuyerCustomerParty/cbc:SupplierAssignedAccountID	FALSE	A1a	01
ac:ContractDocumentReference/cbc:DocumentType	FALSE	A1a	01
ac:ContractDocumentReference/cbc:DocumentTypeCode	FALSE	A1a	01
ac:Delivery/cac:DeliveryLocation/cac:Address/cbc:BuildingNumber	FALSE	A1a	01
ac:Delivery/cac:DeliveryLocation/cac:Address/cbc:Department	FALSE	A1a	01
ac:DeliveryTerms	TRUE	A1a	01
ac:DeliveryTerms/cac:SpecialTerms	FALSE	A1c	11
ac:InvoiceLine/cac:AllowanceCharge/cac:TaxCategory	TRUE	A1c	11
ac:InvoiceLine/cac:AllowanceCharge/cac:TaxCategory/cac:TaxScheme	TRUE	A1c	11
ac:InvoiceLine/cac:AllowanceCharge/cac:TaxCategory/cac:TaxScheme/cbc:ID	TRUE	A1c	11
ac:InvoiceLine/cac:AllowanceCharge/cac:TaxCategory/cac:TaxScheme/cbc:ID/@schemeAgencyID	@	A1c	11
ac:InvoiceLine/cac:AllowanceCharge/cac:TaxCategory/cac:TaxScheme/cbc:ID/@schemeID	@	A1c	11
ac:InvoiceLine/cac:AllowanceCharge/cac:TaxCategory/cbc:ID	TRUE	A1c	11
ac:InvoiceLine/cac:AllowanceCharge/cac:TaxCategory/cbc:ID/@schemeAgencyID	@	A1c	11
ac:InvoiceLine/cac:AllowanceCharge/cac:TaxCategory/cbc:ID/@schemeID	@	A1c	11
ac:InvoiceLine/cac:AllowanceCharge/cac:TaxCategory/cbc:Percent	FALSE	A1a	01
ac:InvoiceLine/cac:AllowanceCharge/cac:TaxCategory/cbc:TaxExemptionReason	FALSE	A1a	01
ac:InvoiceLine/cac:AllowanceCharge/cac:TaxCategory/cbc:TaxExemptionReasonCode	FALSE	A1a	01
ac:InvoiceLine/cac:AllowanceCharge/cac:TaxTotal	TRUE	A1a	01
ac:InvoiceLine/cac:AllowanceCharge/cac:TaxTotal/cbc:TaxAmount	TRUE	A1c	11
ac:InvoiceLine/cac:AllowanceCharge/cac:TaxTotal/cbc:TaxAmount/@currencyID	@	A1c	11
ac:InvoiceLine/cac:Delivery	TRUE	A1a	01
ac:InvoiceLine/cac:Delivery/cac:DeliveryLocation	TRUE	A1a	01
ac:InvoiceLine/cac:Delivery/cac:DeliveryLocation/cac:Address	TRUE	A1a	01
ac:InvoiceLine/cac:Delivery/cac:DeliveryLocation/cac:Address/cac:Country	TRUE	A1a	01
ac:InvoiceLine/cac:Delivery/cac:DeliveryLocation/cac:Address/cac:Country/cbc:IdentificationCode	TRUE	A1c	11
ac:InvoiceLine/cac:Delivery/cac:DeliveryLocation/cac:Address/cac:Country/cbc:IdentificationCode/@listAgencyID	@	A1c	11



cac:InvoiceLine/cac:Delivery/cac:DeliveryLocation/cac:Address/cac:Country/cbc:IdentificationCode/@listID	@	A1c	11
cac:InvoiceLine/cac:Delivery/cac:DeliveryLocation/cac:Address/cbc:AdditionalStreetName	FALSE	A1a	01
cac:InvoiceLine/cac:Delivery/cac:DeliveryLocation/cac:Address/cbc:BuildingNumber	FALSE	A1a	01
cac:InvoiceLine/cac:Delivery/cac:DeliveryLocation/cac:Address/cbc:CityName	FALSE	A1a	01
cac:InvoiceLine/cac:Delivery/cac:DeliveryLocation/cac:Address/cbc:CountrySubentity	FALSE	A1a	01
cac:InvoiceLine/cac:Delivery/cac:DeliveryLocation/cac:Address/cbc:PostalZone	FALSE	A1a	01
cac:InvoiceLine/cac:Delivery/cac:DeliveryLocation/cac:Address/cbc:StreetName	FALSE	A1a	01
cac:InvoiceLine/cac:Delivery/cac:DeliveryLocation/cbc:ID	FALSE	A1a	01
cac:InvoiceLine/cac:Delivery/cbc:ActualDeliveryDate	FALSE	A1a	01
cac:InvoiceLine/cac:Delivery/cbc:Quantity	FALSE	A1a	01
cac:InvoiceLine/cac:Item/cac:ClassifiedTaxCategory/cac:TaxScheme/cbc:ID/@schemeAgencyID	@	A1c	11
cac:InvoiceLine/cac:Item/cac:ClassifiedTaxCategory/cac:TaxScheme/cbc:ID/@schemeID	@	A1c	11
cac:InvoiceLine/cac:Item/cac:ClassifiedTaxCategory/cbc:ID/@schemeAgencyID	@	A1c	11
cac:InvoiceLine/cac:Item/cac:ClassifiedTaxCategory/cbc:ID/@schemeID	@	A1c	11
cac:InvoiceLine/cac:Item/cac:CommodityClassification/cbc:CommodityCode	TRUE	A1a	01
cac:InvoiceLine/cac:Item/cac:CommodityClassification/cbc:CommodityCode/@listID	@	A1c	11
cac:InvoiceLine/cac:Item/cac:OriginCountry/cbc:IdentificationCode/@listAgencyID	@	A1c	11
cac:InvoiceLine/cac:Item/cac:OriginCountry/cbc:IdentificationCode/@listID	@	A1c	11
cac:InvoiceLine/cac:Price/cac:AllowanceCharge/cac:TaxCategory	TRUE	A1c	11
cac:InvoiceLine/cac:Price/cac:AllowanceCharge/cac:TaxCategory/cac:TaxScheme	TRUE	A1c	11
cac:InvoiceLine/cac:Price/cac:AllowanceCharge/cac:TaxCategory/cac:TaxScheme/cbc:ID	TRUE	A1c	11
cac:InvoiceLine/cac:Price/cac:AllowanceCharge/cac:TaxCategory/cac:TaxScheme/cbc:ID/@schemeAgencyID	@	A1c	11
cac:InvoiceLine/cac:Price/cac:AllowanceCharge/cac:TaxCategory/cac:TaxScheme/cbc:ID/@schemeID	@	A1c	11
cac:InvoiceLine/cac:Price/cac:AllowanceCharge/cac:TaxCategory/cbc:ID	TRUE	A1c	11
cac:InvoiceLine/cac:Price/cac:AllowanceCharge/cac:TaxCategory/cbc:ID/@schemeAgencyID	@	A1c	11
cac:InvoiceLine/cac:Price/cac:AllowanceCharge/cac:TaxCategory/cbc:ID/@schemeID	@	A1c	11
cac:InvoiceLine/cac:Price/cac:AllowanceCharge/cac:TaxCategory/cbc:Percent	FALSE	A1a	01



cac:InvoiceLine/cac:Price/cac:AllowanceCharge/cac:TaxCategory/cbc:TaxExemptionReason	FALSE	A1a	01
cac:InvoiceLine/cac:Price/cac:AllowanceCharge/cac:TaxCategory/cbc:TaxExemptionReasonCode	FALSE	A1a	01
cac:InvoiceLine/cac:Price/cac:AllowanceCharge/cac:TaxTotal	TRUE	A1a	01
cac:InvoiceLine/cac:Price/cac:AllowanceCharge/cac:TaxTotal/cbc:TaxAmount	TRUE	A1c	11
cac:InvoiceLine/cac:Price/cac:AllowanceCharge/cac:TaxTotal/cbc:TaxAmount/@ccts:currencyID	@	A1c	11
cac:InvoiceLine/cac:Price/cac:AllowanceCharge/cbc:AllowanceChargeReason	FALSE	A1a	01
cac:InvoiceLine/cac:Price/cac:AllowanceCharge/cbc:MultiplierFactorNumeric	FALSE	A1a	01
cac:InvoiceLine/cac:Price/cbc:BaseQuantity/@unitCodeListID	@	A1c	11
cac:InvoiceLine/cac:TaxTotal	TRUE	A1a	01
cac:InvoiceLine/cac:TaxTotal/cac:TaxSubTotal	TRUE	A1b	0n
cac:InvoiceLine/cac:TaxTotal/cac:TaxSubTotal/cac:TaxCategory	TRUE	A1c	11
cac:InvoiceLine/cac:TaxTotal/cac:TaxSubTotal/cac:TaxCategory/cac:TaxScheme	TRUE	A1c	11
cac:InvoiceLine/cac:TaxTotal/cac:TaxSubTotal/cac:TaxCategory/cac:TaxScheme/cbc:ID	TRUE	A1c	11
cac:InvoiceLine/cac:TaxTotal/cac:TaxSubTotal/cac:TaxCategory/cac:TaxScheme/cbc:ID/@schemeAgencyID	@	A1c	11
cac:InvoiceLine/cac:TaxTotal/cac:TaxSubTotal/cac:TaxCategory/cac:TaxScheme/cbc:ID/@schemeID	@	A1c	11
cac:InvoiceLine/cac:TaxTotal/cac:TaxSubTotal/cac:TaxCategory/cbc:ID	TRUE	A1c	11
cac:InvoiceLine/cac:TaxTotal/cac:TaxSubTotal/cac:TaxCategory/cbc:ID/@schemeAgencyID	@	A1c	11
cac:InvoiceLine/cac:TaxTotal/cac:TaxSubTotal/cac:TaxCategory/cbc:ID/@schemeID	@	A1c	11
cac:InvoiceLine/cac:TaxTotal/cac:TaxSubTotal/cac:TaxCategory/cbc:Percent	FALSE	A1a	01
cac:InvoiceLine/cac:TaxTotal/cac:TaxSubTotal/cbc:Percent	FALSE	A1a	01
cac:InvoiceLine/cac:TaxTotal/cac:TaxSubTotal/cbc:TaxableAmount	TRUE	A1a	01
cac:InvoiceLine/cac:TaxTotal/cac:TaxSubTotal/cbc:TaxableAmount/@currencyID	@	A1c	11
cac:InvoiceLine/cac:TaxTotal/cac:TaxSubTotal/cbc:TaxAmount	TRUE	A1c	11
cac:InvoiceLine/cac:TaxTotal/cac:TaxSubTotal/cbc:TaxAmount/@currencyID	@	A1c	11
cac:InvoiceLine/cac:TaxTotal/cac:TaxSubTotal/cbc:TransactionCurrencyTaxAmount	TRUE	A1a	01
cac:InvoiceLine/cac:TaxTotal/cac:TaxSubTotal/cbc:TransactionCurrencyTaxAmount/@currencyID	@	A1c	11
cac:InvoiceLine/cac:TaxTotal/cbc:TaxAmount/@currencyID	@	A1c	11



cac:InvoiceLine/cbc:AccountingCostCode	TRUE	A1a	01
cac:InvoiceLine/cbc:AccountingCostCode/@listName	@	A1a	01
cac:InvoiceLine/cbc:AccountingCostCode/@listVersionID	@	A1a	01
cac:InvoiceLine/cbc:InvoicedQuantity/@unitCodeListID	@	A1c	11
cac:PaymentMeans/cac:PayeeFinancialAccount/cac:FinancialInstitutionBranch/cac:FinancialInstitution	TRUE	A1a	01
cac: Payment Means/cac: Payee Financial Account/cac: Financial Institution Branch/cac: Financial Institution/cac: Address	TRUE	A1a	01
cac: Payment Means/cac: Payee Financial Account/cac: Financial Institution Branch/cac: Financial Institution/cac: Address/cac: Country and Country for the payer of the paye	TRUE	A1a	01
cac: Payment Means/cac: Payee Financial Account/cac: Financial Institution Branch/cac: Financial Institution/cac: Address/cbc: Additional Street Name and Control of the Control of Contr	FALSE	A1a	01
cac: Payment Means/cac: Payee Financial Account/cac: Financial Institution Branch/cac: Financial Institution/cac: Address/cbc: Building Number and Comparison of Comparison Financial Institution Financial Financia Financial Financia Financia F	FALSE	A1a	01
cac: Payment Means/cac: Payee Financial Account/cac: Financial Institution Branch/cac: Financial Institution/cac: Address/cbc: CityName to the part of the part	FALSE	A1a	01
cac: Payment Means/cac: Payee Financial Account/cac: Financial Institution Branch/cac: Financial Institution/cac: Address/cbc: Country SubEntity Cac: Financial Institution Financial Institution Financial Institution Financial Institution Financial Financia Financia Financia	FALSE	A1a	01
cac: Payment Means/cac: Payee Financial Account/cac: Financial Institution Branch/cac: Financial Institution/cac: Address/cbc: Postal Zone and Control of the Control of Contr	FALSE	A1a	01
cac: Payment Means/cac: Payee Financial Account/cac: Financial Institution Branch/cac: Financial Institution/cac: Address/cbc: Street Name Address/Cac: Financial Institution Financial Financia Financial Financial Financial Financia Financia Financia Financia Financia Fina	FALSE	A1a	01
cac:PaymentMeans/cac:PayeeFinancialAccount/cac:FinancialInstitutionBranch/cac:FinancialInstitution/cbc:Name	FALSE	A1a	01
cac:PaymentMeans/cbc:PaymentChannelCode	FALSE	A1a	01
cac:PaymentMeans/cbc:PaymentDueDate	FALSE	A1a	01
cac:PaymentTerms/cac:ValidityPeriod	TRUE	A1a	01
cac:PaymentTerms/cac:ValidityPeriod/cbc:EndDate	FALSE	A1a	01
cac:PaymentTerms/cac:ValidityPeriod/cbc:StartDate	FALSE	A1a	01
cac:PaymentTerms/cbc:PenaltyAmount	TRUE	A1a	01
cac:PaymentTerms/cbc:PenaltyAmount/@currencyID	@	A1a	01
cac:PaymentTerms/cbc:PenaltySurchargePercent	FALSE	A1a	01
cac:PaymentTerms/cbc:SettlementDiscountAmount	TRUE	A1a	01
cac:PaymentTerms/cbc:SettlementDiscountAmount/@currencyID	@	A1a	01
cac:PaymentTerms/cbc:SettlementDiscountPercent	FALSE	A1a	01
cac:TaxExchangeRate	TRUE	A1a	01
cac:TaxExchangeRate/cbc:CalculationRate	FALSE	A1c	11



cac:TaxExchangeRate/cbc:Date	FALSE	A1a	01
cac:TaxExchangeRate/cbc:MathematicOperatorCode	FALSE	A1c	11
cac:TaxExchangeRate/cbc:SourceCurrencyCode	FALSE	A1c	11
cac:TaxExchangeRate/cbc:TargetCurrencyCode	FALSE	A1c	11
cac:TaxTotal/cac:TaxSubTotal/cac:TaxCategory/cac:TaxScheme/cbc:ID/@schemeAgencyID	@	A1c	11
cac:TaxTotal/cac:TaxSubTotal/cac:TaxCategory/cac:TaxScheme/cbc:ID/@schemeID	@	A1c	11
cac:TaxTotal/cac:TaxSubTotal/cbc:TransactionCurrencyTaxAmount	TRUE	A1a	01
cac:TaxTotal/cac:TaxSubTotal/cbc:TransactionCurrencyTaxAmount/@currencyID	@	A1c	11