



eIGOR – eInvoicing GO Regional

CIUS-IT (Italian Core Invoice Usage Specification)

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33 **Change Log**

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67 Glossary

B2B	Business to Business
B2G	Business to Government
BII	Business Interoperability Interfaces
C2G	Citizen to Government
CCTS	Core Component Technical Specification
CEF	Connecting Europe Facility
CEM	Certified Electronic Mail – Legal Mail (PEC Posta Elettronica Certificata in Italy)
CEN	European Committee for Standardisation
CII	Cross Industry electronic Invoice
CIUS	Core Invoice Usage Specification
DSI	Digital Service Infrastructures
DUNS	Data Universal Numbering System
EDI	Electronic Data Interchange
EDIFACT	Electronic Data Interchange For Administration, Commerce and Transport
EMSFEI	European Multi-Stakeholder Forum on eInvoicing
FatturaPA	Public administration electronic invoice framework (FatturaPubblica Amministrazione)
G2G	Government to Government
INEA	Innovation and Networks Executive Agency
SDI	Electronic exchange system in Italy (Sistema Di Interscambio)
SKOS	Simple Knowledge Organization System
TOGAF	The Open Group Architecture Framework
UBL	Universal Business Language
UN/CEFACT	United Nations Centre for Trade Facilitation and Electronic Business
UNTDID	UN Trade Data Interchange Directory
URI	Uniform Resource Identifier
URL	Uniform Resource Location
URN	Uniform Resource Name
XML	Extensible Mark-up Language

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70 1 Introduction

71 This document aims to describe the Core invoice usage specification for the Italian context (CIUS-IT).

72 It includes a brief explanation of what is the CIUS as defined by the EN 16931-1, what can be specified
73 and how it has been built for the Italian invoicing system.

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75 2 Audience

76 CIUS-IT directly applies to Italian or foreign sellers who are in need of preparing an invoice for a Public
77 administration in Italy (B2G) in compliance with EN 16931-1 about the “*Semantic data model of the core
78 elements of an electronic invoice*”. According to the Directive 2014/55/EU on electronic invoicing in public
79 procurement it will become mandatory for all contracting authorities and contracting entities to receive
80 and process invoices complying with the European standard, starting in November 2018.

81 The European norm defines the list of official syntaxes accepted in TS 16931-2, namely:

- 82 1. **UN/CEFACT Cross Industry Invoice** XML message as specified in XML Schemas 16B (SCRDM - CII)
- 83 2. **UBL** invoice and credit note messages as defined in ISO/IEC 19845:2015

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86 3 Normative references

87 The following documents, in whole or in part, are normatively referenced in this document and are
88 indispensable for its application.

89 It is important to notice that EN 16931 documents are analysed and referenced in their status at the time
90 of this deliverable has been prepared (July 2017).

- 91 ✓ EN 16931-1:2017 Electronic invoicing - Part 1: Semantic data model of the core elements of an
92 electronic invoice
- 93 ✓ CEN/TS 16931-2:2017 Electronic invoicing - Part 2: List of syntaxes that comply with EN 16931-1
- 94 ✓ CEN/TS 16931-3-2:2017 Electronic invoicing - Part 3 - 2: Syntax bindings of the core elements of an
95 electronic invoice - Binding to ISO/IEC 19845 (UBL 2.1)
- 96 ✓ CEN/TS 16931-3-3:2017 Electronic invoicing - Part 3 - 3: Syntax bindings of the core elements of an
97 electronic invoice - Binding to UN/CEFACT XML

98

99 Moreover the following Italian documentation is referenced in this deliverable (version July 2017):

- 100 ✓ Schema del file xml FatturaPA versione 1.2 - xsd
- 101 ✓ Specifiche tecniche del formato della FatturaPA versione 1.2.1- pdf
- 102 ✓ Rappresentazione tabellare del tracciato FatturaPA versione 1.2.1- pdf
- 103 ✓ Rappresentazione tabellare del tracciato FatturaPA versione 1.2.1- excel
- 104 ✓ Foglio di stile per la visualizzazione della FatturaPA versione 1.2.1 - xslt
- 105 ✓ Foglio di stile per la visualizzazione della Fattura Ordinaria versione 1.2.1 - xslt
- 106 ✓ Elenco modifiche al tracciato FatturaPA - pdf
- 107 ✓ Suggerimenti per la compilazione della FatturaPA versione 1.5

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110 4 CIUS definition

111 The core semantic data model is defined in the document EN 16931-1.

112 The core invoice model is based on the proposition that a quite limited, but nevertheless consists of a
113 sufficient set of information elements which can be defined and support generally applicable invoice-
114 related functionalities. These functionalities include invoice issuance and delivery, invoice validation,
115 accounting, VAT reporting, payment and auditing. The core invoice model contains information elements
116 that are commonly used and accepted, including those that are legally required.

117 The set of information elements that are contained in the core invoice model is commonly considered to
118 consist of two parts: a **legal** part and a **common** part:

- 119 • The **legal** part of the core invoice model supports the **observance of both tax and commercial legal**
120 **and regulatory requirements** pertaining to electronic invoicing commonly in force throughout the
121 EU.
- 122 • The **common** part contains commonly used and accepted information elements that are **not sector**
123 **or country specific**.

124 There are circumstances where the trading partners may wish to: Either 1. **restrict the information**
125 **elements** to be used in an e-invoice or 2. To provide **additional information elements**. The first
126 requirement is satisfied using a **Core Invoice Usage Specification (CIUS)**. The second requirement is
127 satisfied using an **extension** specified in an Extension Specification.

128 4.1 Introduction

129 A "Core Invoice Usage Specification" (CIUS) is a specification that provides a seller with detailed guidance,
130 explanations and examples, as well as rules (business rules) related to the actual implementation and use
131 of structured information elements present in the core invoice model in a specific trading situation. **An**
132 **instance document created following a given CIUS shall always be compliant with the European**
133 **Standard**.

134 Typically, a CIUS will be created by a contracting entity (buyer) in relation to its own supply chain or by a
135 group of contracting entities wishing to achieve consistency in the way that the information elements in the
136 core invoice model are to be used by sellers trading with an identified sector or community of buyers. The
137 requirements set out in such a CIUS will be communicated directly to sellers or placed on a web-site, and
138 may be included or referred to in the contractual documentation between the parties. Alternatively, a CIUS
139 may be created by a group of sellers and agreed in turn by their buyer or buyers in the context of a specific
140 industry or supply chain. A CIUS is a **set of usage guidelines and/or restrictions made to the core invoice**
141 **model that will still produce an invoice instance that is fully compliant with the core invoice model**. That
142 means that a receiver of an invoice document instance that has been created in conformance with a CIUS is
143 still able to receive and process it in accordance with the rules defined for the core invoice model.

144 The **main reasons** for developing a CIUS include:

- 145 • A receiver wishes to specify the way conditional information elements in the core invoice model
146 are used or to restrict the content of mandatory or conditional information elements to a narrower
147 set of requirements;
- 148 • A sender may be required to support requirements that are relevant to the trading situation. As an
149 example, the sender may have to always provide certain information elements, even though they
150 are specified as conditional in the core invoice model;
- 151 • a receiver requests that certain conditional elements are always used to facilitate increased
152 automation in his processing. Examples include specified use of information elements relating to

- 153 the wide variety of reference data (purchase order, contract reference, tender identifier etc.)
 154 provided in the core invoice model;
- 155 • a sender may want to explain how he applies the core invoice model to his trading information;
 - 156 • a single buyer or a national and/or sectorial body may want to explain how the core invoice model
 157 is applied to given use cases. Examples of such may include use of national payment methods, the
 158 use of credit notes/negative invoices, the use of code lists and identifiers, or the use of line items.
 159 They may also wish to use terminology and language that is familiar to the targeted user;
 - 160 • Another application is to restrict the information elements to those that could be included in a
 161 user-friendly e-invoice for SMEs supplying basis goods and services.
- 162

163 It is clearly a matter of good practice to confine the issue of a CIUS to convey essential requirements and
 164 not to proliferate their use or complexity. They should be used sparingly for justified requirements to
 165 ensure a balance between the needs of both buyer and seller.

166 4.2 Conformance

167 Conformance to the core invoice model, in the context of using a CIUS can be measured at three levels.

- 168 • At the level of specifications,
- 169 • the actual implementation of a given sender or receiver, and
- 170 • the individual invoice instance documents.

171 Each of these levels is discussed in the following sub-clause.

172 **Conformance of the core invoice usage specifications**

173 The core invoice usage specifications that are used in conjunction with the core invoice model shall
 174 themselves conform to the methodology and rules described in this guideline and expressed in the
 175 following criteria:

- 176 • The specification shall clearly state what business functions and/or legal requirements it is intended
 177 to support.
- 178 • The specification shall clearly state its issuer and responsible 'governor'.
- 179 • The specification shall clearly state in what way the requirements of the CIUS differ from the core
 180 invoice model, either by documenting the difference only or by specifically pointing out what the
 181 differences are.
- 182 • The resulting invoice document instance shall be fully conformant to the core invoice model.
- 183 • The specification and, when relevant, its version shall be uniquely identifiable both for referencing
 184 and for identification in processing.
- 185 • The specification shall state its underlying specifications (the core invoice model as well as other
 186 specifications that it may build upon).
- 187 • The syntax binding of a specification shall follow the syntax binding methodology defined in CEN/TS
 188 16931-3-1.

189 **Conformance of sending or receiving party**

190 A receiving party may only claim conformance to the core invoice model if he accepts invoices that comply
 191 with the core invoice model in general, or with a CIUS, that is itself conformant with the core invoice
 192 model.

193 A sending party may claim conformance if he sends invoices that conform to the core invoice model,
 194 including those issued in accordance with a conformant CIUS.

195 **Conformance of an invoice document instance**

196 An invoice document instance is conformant to the core invoice model if it respects all rules defined for the
 197 core invoice model, which may include the specification contained in a conformant CIUS.

198 If an invoice instance document supports requirements that can be considered as a use of a CIUS, the
 199 invoice instance document is still conformant to the core invoice model. These invoice instance documents
 200 can still be received and processed by a party who is not supporting the CIUS because it still conforms to
 201 the rules of the core invoice model.

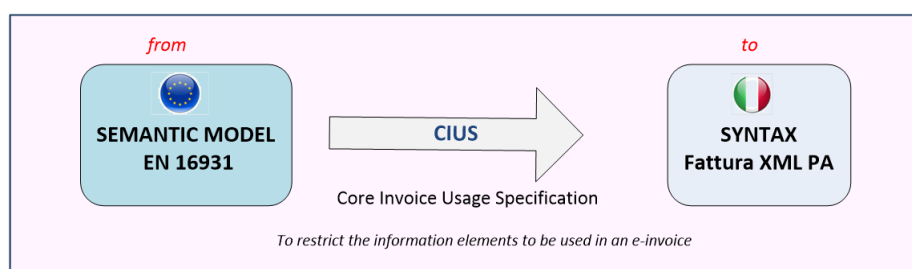
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203 5 The Italian CIUS

204 A gap analysis has been carried out during eIGOR (eInvoicing go Regional) CEF action in order to perform a
 205 mapping between the core semantic model (as defined by EN 16931-1) and the Italian eInvoice XMLPA
 206 syntax.

207 During the mapping from CEN to FatturaPa syntax different non conformities were identified between the
 208 semantic model and the syntax elements. To solve these issues different steps have been performed:

- 209 - To identify if a CIUS was needed
- 210 - To identify if a mapping rule was needed



211
 212 Figure 1 Mapping process from CEN to XMLPA including CIUS identification

213 Main objective has been to identify less CIUS specifications as possible in order to facilitate the eInvoice
 214 issuer on the process of eInvoice preparation to be issued versus an Italian public authority.

215 The identified CIUS consists of a national set of restrictions needed to be compliant with FatturaPA syntax.
 216 These specifications will be stored in a shared central database where all EU CIUS will be available for users.
 217 This central process is still on the definition phase, the European technical committee TC 434 will soon
 218 address the issue.

219 According to the methodology described in the European norm mainly country or sector CIUS can be
 220 specified. In our gap analysis we primarily concentrated our effort on the definition of national CIUS (CIUS-
 221 IT).

222 During the mapping process when a CIUS (restriction of the CEN semantic model) was considered to be
 223 necessary it has been important to carefully evaluate if a corresponding “extension” of FatturaPA syntax
 224 could represent a better solution. (e.g. -ZIP code in XMLPA is numeric 5 digit-> a CIUS is required to restrict
 225 CEN post code OR a relaxation of CAP in XMLPA to become alphanumeric of at least 10 chars).

226 The CIUS-IT application scenario is represented in the following figure. An Italian public authority will
 227 support eInvoices which are compliant to CIUS-IT. The Italian PA will be able to accept all instances from
 228 foreign or Italian sellers who use the CIUS-IT for preparing their eInvoices in order to respect the
 229 restrictions needed in the Italian context.

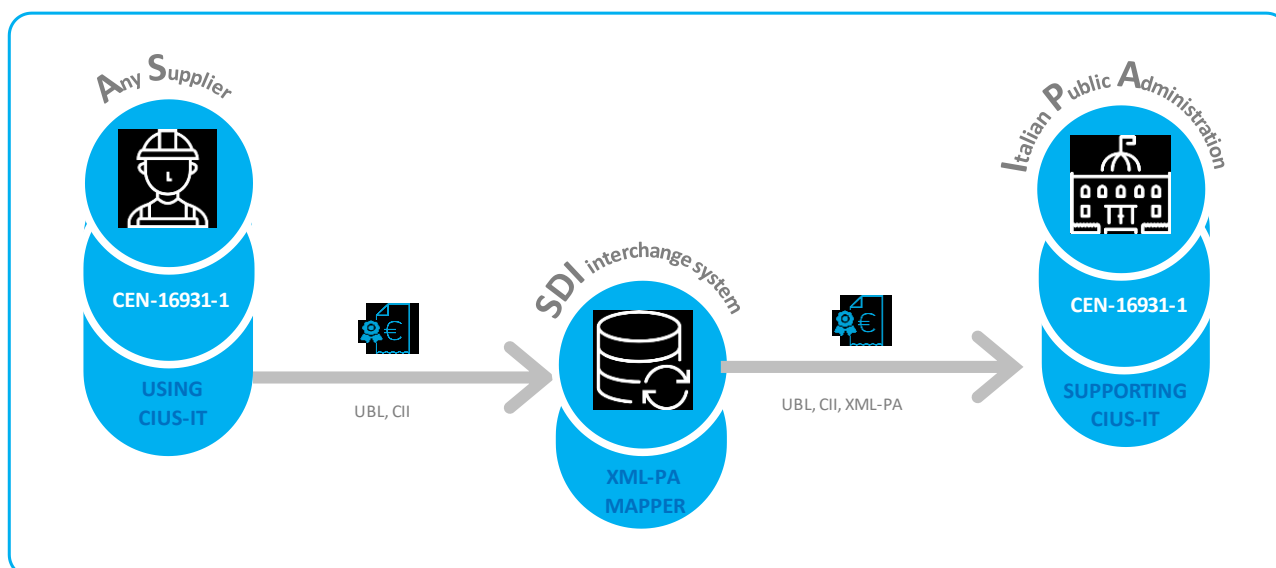


Figure 2 CIUS-IT application scenario

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234 6 What may be specified in a CIUS

235 The reference point for any CIUS is always the core invoice model as defined in EN 16931-1. The
 236 specification shall clearly state in what way it creates usage guidelines or restrictions within the core
 237 invoice model.

238 The core invoice model is defined through the following key parameters which may be subject to further
 239 levels of specificity in a CIUS.

240 **Business term:** Business terms are used to identify an individual information element or group of
 241 information elements contained in the semantic model, and that may be exchanged in an invoice instance
 242 document. The core invoice model defines a set of business terms. Some are mandatory for the sender to
 243 include in all invoice instance documents. Others are conditional. The receiver is responsible for processing
 244 relevant information according to its processes. A CIUS may reduce the list of conditional elements or
 245 further specify their definition.

246 **Cardinality:** For each business term the core invoice model defines if it shall and how often it may
 247 appear in the same invoice instance document by stating their cardinality. A CIUS may restrict this and
 248 consequently affect how the receiver shall or can process the invoice instance document.

249 **Semantic data type:** Each business term defined in the core invoice model also has a defined semantic data
 250 type for the data it may contain. The semantic data type affects how the data shall or may be processed, as
 251 well as how it should be interpreted. For example, calculations can only be carried out using numbers, so
 252 business terms that are used in calculations are of the semantic data type number. Parties may want to
 253 further restrict the value domain of a semantic data type.

254 **Codes and identifiers:** Codes and identifiers are based on a list of schemas that define their meaning (in the
 255 case of codes) or how they are issued and structured (in the case of identifiers). For business terms that are
 256 defined as code or identifier the core invoice model specifies what code and identifier schemas may be
 257 used. In order to support specific requirements the trading partners may need to change these definitions.

258 **Business rules:** Many business terms in the core invoice model are governed by rules that control their use
 259 and content. Partner may need to change or add to these rules in order to meet specific business
 260 requirements.

261 **Value domain for an information element:** Only in few cases does the core invoice model define value
 262 domains or the format of the data. Trading partners may want to prescribe such rules where there are
 263 none or to restrict existing ones to support specific requirements. For example the core invoice model does
 264 in some cases restrict allowed values to non-negative. On the other hand it does not set restrictions on text
 265 lengths, which may be included in a CIUS.

266 The following paragraph lists in more detail the type of specification that can be made in a CIUS based on
 267 the core invoice model and set out in a bilateral agreement between the trading parties.

268 6.1 Allowed specifications in a CIUS

269 Trading parties may make the following specifications within the core invoice model and the resulting
 270 invoice instance will still be in conformance to the core invoice model and as result a receiver can process
 271 the invoice without any modification to his processing. However, the recipient may choose to take
 272 advantage of the specifications defined in the CIUS to further streamline his invoice processing.

Type of change	Example/remark
Business Terms	
Mark conditional Information element not to be used	Can be achieved by changing cardinality 0..x to 0..0. This essentially means that an element which use is conditional is not to be used. This will not affect the receivers processing. Care need to be taken to ensure that the business rules defined for the core invoice model are not broken.
Make semantic definition narrower	A narrower semantic definition of a business term means that the meaning conveyed is still within the meaning defined in the core invoice model and is already recognised by the receiver.
Add synonyms	As synonyms will only supplement the original business terms but do not replace it - the original term is still normative. A receiver who has designed his processing based on the core invoice model can continue to do so. Examples of synonyms are mapping of national or sector terminology to the terminology used in the core invoice.
Add explanatory text	Adding explanatory text that, for example, explains how a business term is used in a specific use case. There is a risk is that such text may also affect the semantic definition and this must be avoided. Explanatory information does not require any further action from the receiver and the automatic processing of the assigned invoice is still possible.
Cardinality	
Make a conditional element mandatory (0..x --> 1..x)	If a conditional element is made mandatory it simply means that the option of using it is applied. The receiver shall be prepared for the situation that a conditional element is used, so he does not need to modify his processing.
Decrease number of repetitions (x..n --> x..1)	If the number of repetitions is decreased they will remain within the limit that the receiver has catered for.
Semantic data type	
Change semantic data type from string to ...	If the semantic data type of a business term is changed from string to some other type the receiver can still process the value as a string.
Codes and identifiers	
Remove one of multiple defined lists	Where the core invoice semantic model defines more than one allowed list and the core invoice usage specification reduces the number of allowed lists then the invoice instance document is still conformant. However such a change shall leave at least one of the defined lists in place.
Mark defined values as not allowed	If the allowed code values are restricted within an existing list it simply means that certain values of the full list are being used and the receiver should have designed for processing them.
Business Rules	

Type of change	Example/remark
Add new non-conflicting business rule for existing element(s)	Represents an additional restriction on the allowed content within what is defined for the core invoice model. The receiver should therefore have designed for that content.
Make an existing business rule more restrictive	The exchanged content of the business term remains within what was defined for the core invoice model and the receiver should have designed for it.
Value domain for an element	
Restrict text or byte array length	If a maximum is set on the length where there was no limit the content remains within what was defined for the core invoice model.
Require defined structured values	When the core invoice model does not set a structure on a value the receiver would not have designed for processing in any particular form. Rules to enforce a given pattern should therefore not affect his processing.
Restrict allowed fraction digits	Fewer fraction digits result in a value that is within the accuracy that the receiver would have designed for when implementing the core invoice model.

Figure 3 Allowed specifications in a CIUS

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277 7 CIUS-IT: Technical part

278 7.1 How to identify an eInvoice using CIUS-IT

279 Identified CIUS

280 An identification of the specification containing the total set of rules regarding semantic content,
281 cardinalities and business rules to which the data contained in the instance document conforms is reported
282 in BT-24 “Specification identification”. This mandatory element identifies compliance or conformance to
283 this document. Conformant invoices specify: urn:cen.eu:en16931:2017. Invoices, compliant to a user
284 specification may identify that user specification here.

BT-24	++	1..1	Specification identification	urn:cen.eu:en16931:2017
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285

286 When a CIUS is supported it is recommended that the invoice instance document itself carries the assigned
287 identifier in the business term BT-24 “Specification identification”. This will allow the receiver of the invoice
288 instance document to apply processing of the document in accordance with the rules under which it was
289 generated.

290 For clear referencing and identification in processing each CIUS and its version shall be clearly identified
291 and have an assigned identifier.

292 The invoice sender shall indicate the CIUS-IT identifier in the corresponding semantic core model element
293 according to the syntax used for the eInvoice instance document.

294 The document TR 16931-5 indicates how to identify extension specification. The same methodology shall
295 be applied to identify CIUS.

296 An extension specification identifier shall be structured as follows:

297 SourceSpec[#Conformance#TargetSpec]

298 — SourceSpec shall be the core invoice model.

299 — Conformance states how the changes relate to the SourceSpec, using TOGAF terminology.

300 — TargetSpec are the identifiers for the extension specification itself and the extension specification **or**
 301 **core invoice usage specification** that it builds on.

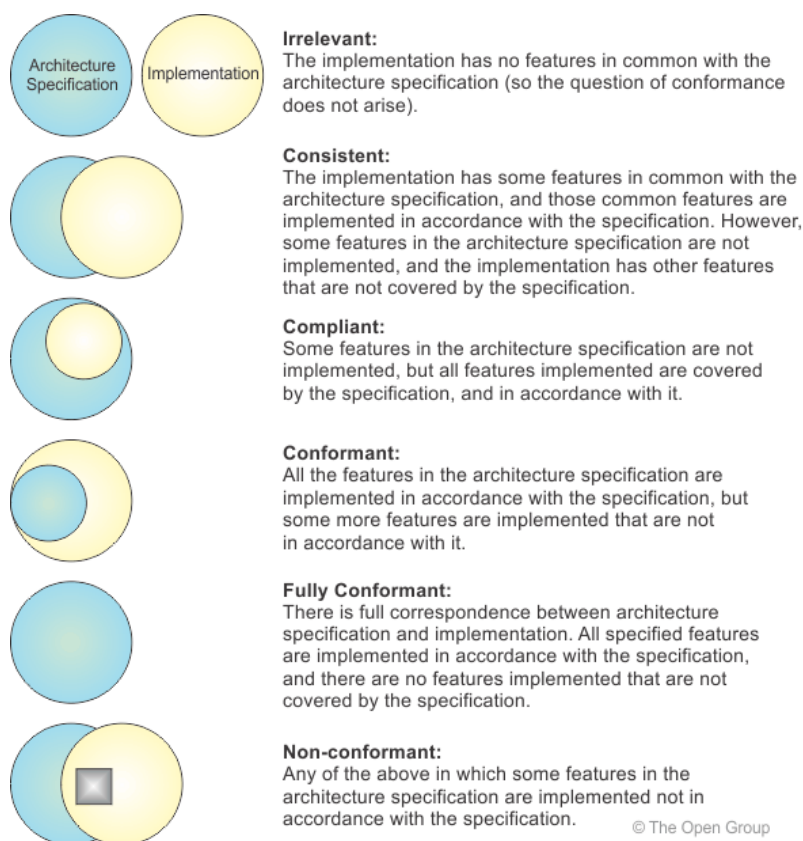
302 The TargetSpec and the SourceSpec shall be identified by giving a uniform resource name (urn). The
 303 identifier for the European Norm is to include its EN number (EN 16931:2017)

304 For clarity, the main parts of the identifier shall be separated with a hash mark. Hash marks shall only be
 305 used before and after the conformance type.

306 Following conformance types are allowed:

- 307 • Conformant (all features of the core invoice model are used in accordance with its rules, and is
 308 extended with additional features)
- 309 • Compliant (uses some features of the core invoice model, but all features that are used are in
 310 accordance with the rules of the core invoice model)

312 According to TOGAF terminology the difference between Conformant and Compliant is clarified in the
 313 following figure.



314
 315 **Figure 4 Levels of Architecture Conformance**

316 Following examples show how the identifier is used in different situations.

317 A core invoice instance document is identified as follows:

318 urn:cen.eu:en16931:2017

319 An extended invoice instance document that is conformant to the core invoice model, where the extension
 320 specification's identifier is "extensionid" and the governing body's urn is "userdomain.com" is identified as
 321 follows:

322 urn:cen.eu:en16931:2017#conformant#urn:userdomain.com:extensionid

323 An extended invoice instance document that is based on an extension specification that is conformant to
 324 the extension specification described in the previous example and still conforms to the core invoice model,
 325 where the new extension specification’s identifier is “extensionid2” and its governing body's urn is
 326 “userdomai2.com” this invoice instance document, is identified as follows.

327 urn:cen.eu:en16931:2017#conformant#urn:userdomain.com:extensionid#conformant#urn:userdomain2.c
 328 om:extensionid2.

329 According to this methodology the specification identifier will be composed by:

- 330 - SourceSpec= urn:cen.eu:en16931:2017
- 331 - Conformance states how the changes relate to the SourceSpec, using TOGAF terminology=
 332 compliant
- 333 - TargetSpec= urn:userdomain.com:CIUSid = urn:fatturapa.gov.it:CIUS-IT:1.0.0.20170801
 334 where the userdomain is the Italian eInvoicing governing body’s urn (fatturapa.gov.it); the
 335 CIUS id is composed by the name=CIUS-IT and the version=1.0.0.20170801 which includes
 336 the version date indication.

BT-24	1.1	Specification identification	urn:cen.eu:en16931:2017#compliant#urn:fatturapa.gov.it:CIUS-IT:1.0.0.20170801
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337

338 According to the elInvoice instance document syntax the specification identification will be:

- 339 - UBL 2.1
 340 <cbc:CustomizationID>urn:cen.eu:en16931:2017#compliant#urn: fatturapa.gov.it:CIUS-
 341 IT:1.0.0.20170801</cbc:CustomizationID>
- 342 - CII 16B
 343 <rsm:ExchangedDocumentContext>
 344 <ram:GuidelineSpecifiedDocumentContextParameter>
 345 <ram:ID>urn:cen.eu:en16931:2017#compliant#urn:ade.it:CIUS-IT:1.0.0.20170801</ram:ID>
 346 </ram:GuidelineSpecifiedDocumentContextParameter>
 347 </rsm:ExchangedDocumentContext>

348 In case the BT-24 only indicates the urn:cen.eu:en16931:2017and not the CIUS-IT specification, the Italian
 349 eInvoicing delivery system will try to apply the transformation using the mapping rules and the CIUS-IT
 350 specifications which are a mandatory condition for having a proper validation of the resulting Fattura
 351 XMLPA syntax. In case the transformation and validation process will fail the invoice instance will not be
 352 accepted.

353 7.2 Supported Syntaxes

354 According to the European norm one of the two official syntaxes shall be used to prepare an elnvoce
 355 instance document (as described in TS 16931-2): UBL 2.1 and UN/CEFACT CII 16B.

356 The CIUS-IT is available with the reference to these two syntaxes.

357 7.3 Detailed and technical Specifications

358 A CIUS shall always be documented with clear reference to the core invoice model. It may be documented
 359 either as changes only, or as a full specification. If documented as a full specification, it shall be clear in
 360 what way the specification differs from its underlying specification and represents a further specification
 361 within the core invoice model.

362 It is recommended that core invoice usage specifications are documented in an appropriate repository for
363 retrieval and sharing. The availability of such a repository is expected to foster convergence over time.

364 Agreement between Buyers and Sellers on using a core invoice usage specification should be part of the
365 commercial contract between them.

366 So far there is no further indication on how to document in detail the CIUS. During the mapping process
367 within eIGOR CEF action a table has been defined to detail all CIUS specifications. The specifications are
368 ordered by CIUS categories and an identifier for each row has been created for implementation purposes.

369 A description of each specification is provided in the herewith reported table.

CIUS		Semantic model		Target Italian XMLPA syntax	CIUS specification description
ID	Type	ID	BT	XML PA field	Restriction description
Business Terms					
CIUS-BT-98	Mark conditional Information element not to be used	BT-32	Seller tax registration identifier	1.2.1.8 RegimeFiscale	BT is a conditional field and shall not be used by a foreign seller as it is not possible to map into XMLPA. CEN business rules are not broken. In case the seller is Italian this field shall contain the codification of RegimeFiscale (1.2.1.8)
CIUS-BT-84	Make semantic definition narrower	BT-84	Payment account identifier	2.4.2.13 IBAN	The payment account identifier shall be an IBAN code
Cardinality					
CIUS-CA-2	Make a conditional element mandatory (0..x --> 1..x)	BT-49 BT-49-1	Buyer electronic address Buyer electronic address identification scheme identifier	1.1.6 PECDestinatario 1.1.4 CodiceDestinatario	BT-49 shall contain a legal mail address (PEC) or IndicePA/CodiceDestinatario (see the Italian business rules). BT-49-1=IT:PEC or IT:IPA or IT:CODDEST
CIUS-CA-9	Make a conditional element mandatory (0..x --> 1..x)	BT-31	Seller VAT identifier	1.2.1.1 IdFiscaleIVA 1.3.1.1 IdFiscaleIVA	1.2.1.1 is mandatory in XMLPA (seller). BT-31 should be mandatory or copied from BT-63 (tax representative).
		BT-63	Seller tax representative VAT identifier	1.2.1.1 IdFiscaleIVA 1.3.1.1 IdFiscaleIVA	1.2.1.1 is mandatory in XMLPA (seller). BT-31 should be mandatory or copied from BT-63 (tax representative).
CIUS-CA-10	Make a conditional element mandatory (0..x --> 1..x)	BT-35	Seller address line 1	1.2.2.1 Indirizzo, 1.2.2.4 Comune, 1.2.2.3 CAP	Fields are mandatory in XMLPA Mapped BTs should be mandatory
		BT-37	Seller city		Fields are mandatory in XMLPA Mapped BTs should be mandatory
		BT-38	Seller post code		Fields are mandatory in XMLPA. Mapped BTs should be mandatory
CIUS-CA-11	Make a conditional element mandatory (0..x --> 1..x)	BT-50	Buyer address line 1	1.4.2.1 Indirizzo, 1.4.2.4 Comune, 1.4.2.3 CAP	Fields are mandatory in XMLPA. Mapped BTs should be mandatory
		BT-52	Buyer city		Fields are mandatory in XMLPA. Mapped BTs should be mandatory
		BT-53	Buyer post code		Fields are mandatory in XMLPA. Mapped BTs should be mandatory
CIUS-CA-12	Make a conditional element mandatory (0..x --> 1..x)	BT-75	Deliver to address line 1	2.1.9.12.1 Indirizzo, 2.1.9.12.4 Comune, 2.1.9.12.3 CAP	Fields are mandatory in XMLPA. Mapped BTs should be mandatory (If BG-15 is present)
		BT-77	Deliver to city		Fields are mandatory in XMLPA. Mapped BTs should be mandatory (If BG-15 is present)
		BT-78	Deliver to post code		Fields are mandatory in XMLPA. Mapped BTs should be mandatory (If BG-15 is present)
CIUS-CA-71	Make a conditional element mandatory (0..x --> 1..x)	BT-125	Attached document	2.5.5 Attachment	If BT-122 not empty then BT-124 or BT-125 should be mandatory as the mapped field is mandatory in XMLPA.
Semantic data type					
CIUS-SD-73	Change semantic data type from string to ...	BT-126	Invoice line identifier	2.2.1.1 NumeroLinea	The BT value should be numeric
Codes and identifiers					
CIUS-CI-13	Mark defined values as not allowed	BT-6	VAT accounting currency code		VAT accounting currency code should be € for invoices from EU to IT in accordance with 2006/112/CE art. 9
Business Rules					
CIUS-BR-14	Add new non-conflicting business rule for existing element(s)	BT-48 BT-46, BT-46-1	Buyer VAT identifier Buyer identifier Buyer identifier identification scheme identifier	1.4.1.1 IdFiscaleIVA 1.4.1.2 CodiceFiscale	1.4.1.1 is not mandatory in XMLPA (buyer) but VAT number or Fiscal code should be indicated with scheme IT:CF or IT:VAT
Value domain for an element					
CIUS-VD-15	Require defined structured values	BT-16	Despatch advice reference	2.1.8.1 NumeroDDT 2.1.8.2 DataDDT	BT will be structured as unique ID containing the despatch date as well (e.g. 123456789_2017-03-05)
CIUS-VD-16	Restrict text or byte array length	BT-16	Despatch advice reference	2.1.8.1 NumeroDDT 2.1.8.2 DataDDT	BT maximum length shall be 30 chars (20 digit + YYYY-MM-DD)

CIUS-VD-17	Restrict text or byte array length	BT-27	Seller name	1.2.1.3.1 Denominazione	BT maximum length shall be 80 chars
CIUS-VD-18	Restrict text or byte array length	BT-44	Buyer name	1.4.1.3.1 Denominazione	BT maximum length shall be 80 chars
CIUS-VD-19	Restrict text or byte array length	BT-62	Seller tax representative name	1.3.1.3.1 Denominazione	BT maximum length shall be 80 chars
CIUS-VD-20	Restrict text or byte array length	BT-35, BT-36, BT-162	Seller address line 1 Seller address line 2 Seller address line 3	1.2.2.1 Indirizzo	The sum of BTs maximum length shall be 60 chars (including separator)
CIUS-VD-21	Restrict text or byte array length	BT-50, BT-51, BT-163	Buyer address line 1 Buyer address line 2 Buyer address line 3	1.4.2.1 Indirizzo	The sum of BTs maximum length shall be 60 chars (including separator)
CIUS-VD-22	Restrict text or byte array length	BT-75, BT-76, BT-165	Deliver to address line 1 Deliver to address line 2 Deliver to address line 3	2.1.9.12.1 Indirizzo	The sum of BTs maximum length shall be 60 chars (including separator)
CIUS-VD-23	Restrict text or byte array length	BT-37	Seller city	1.2.2.4 Comune	BT maximum length shall be 60 chars
CIUS-VD-24	Restrict text or byte array length	BT-52	Buyer city	1.4.2.4 Comune	BT maximum length shall be 60 chars
CIUS-VD-25	Restrict text or byte array length	BT-77	Deliver to city	2.1.9.12.4 Comune	BT maximum length shall be 60 chars
CIUS-VD-26	Restrict text or byte array length	BT-38	Seller post code	1.2.2.3 CAP	BT maximum length shall be 15 chars (if country code =IT then it should be numeric and maximum length 5). In case the XMLPA will not be modified if country-code not =IT then CAP=99999 and CAP will be saved in attachment
CIUS-VD-27	Restrict text or byte array length	BT-53	Buyer post code	1.4.2.3 CAP	BT maximum length shall be 15 chars (if country code =IT then it should be numeric and maximum length 5). In case the XMLPA will not be modified if country-code not =IT then CAP=99999 and CAP will be saved in attachment
CIUS-VD-28	Restrict text or byte array length	BT-78	Deliver to post code	2.1.9.12.3 CAP	BT maximum length shall be 15 chars (if country code =IT then it should be numeric and maximum length 5). In case the XMLPA will not be modified if country-code not =IT then CAP=99999 and CAP will be saved in attachment
CIUS-VD-29	Restrict text or byte array length	BT-39	Seller country subdivision	1.2.2.5 Provincia	BT maximum length shall be 2 chars only used if country code=IT else the BT is not used
CIUS-VD-30	Restrict text or byte array length	BT-54	Buyer country subdivision	1.4.2.5 Provincia	BT maximum length shall be 2 chars only used if country code=IT else the BT is not used
CIUS-VD-31	Restrict text or byte array length	BT-79	Deliver to country subdivision	2.1.9.12.5 Provincia	BT maximum length shall be 2 chars only used if country code=IT else the BT is not used
CIUS-VD-32	Restrict text or byte array length	BT-1	Invoice number	2.1.1.4 Numero	BT maximum length shall be 20 digit
CIUS-VD-33	Restrict text or byte array length	BT-11	Project reference	2.1.3.6 CodiceCUP	BT maximum length shall be 15 chars
CIUS-VD-34	Restrict text or byte array length	BT-12	Contract reference	2.1.3.2 IdDocumento	BT maximum length shall be 20 chars
CIUS-VD-35	Restrict text or byte array length	BT-13	Purchase order reference	2.1.2.2. IdDocumento	BT maximum length shall be 20 chars
CIUS-VD-36	Restrict text or byte array length	BT-15	Receiving advice reference	2.1.5.2 IdDocumento	BT maximum length shall be 20 chars
CIUS-VD-37	Restrict text or byte array length	BT-17	Tender or lot reference	2.1.3.7 CodiceCIG	BT maximum length shall be 15 chars
CIUS-VD-38	Restrict text or byte array length	BT-19	Buyer accounting reference	1.2.6 RiferimentoAmministrazione	BT maximum length shall be 20 chars

CIUS-VD-39	Restrict text or byte array length	BT-21, BT-22	<i>Invoice note subject code</i> <i>Invoice note</i>	2.1.1.11 Causale	The sum of BTs maximum length shall be 200 chars or a split mechanism in multiple lines should be implemented
CIUS-VD-40	Restrict text or byte array length	BT-25	Preceding Invoice number	2.1.6.2. IdDocumento	BT maximum length shall be 20 chars
CIUS-VD-41	Restrict text or byte array length	BT-31	Seller VAT identifier	1.2.1.1.1 IdPaese 1.2.1.1.2 IdCodice	BT maximum length shall be 30 chars
CIUS-VD-42	Restrict text or byte array length	BT-63	Seller tax representative VAT identifier	1.3.1.1.1 IdPaese 1.3.1.1.2 IdCodice	BT maximum length shall be 30 chars
CIUS-VD-43	Restrict text or byte array length	BT-48	Buyer VAT identifier	1.4.1.1.1 IdPaese 1.4.1.1.2 IdCodice	BT maximum length shall be 30 chars
CIUS-VD-44	Restrict text or byte array length	BT-41	Seller contact point	2.1.1.11 Causale	BT maximum length shall be 200 chars
CIUS-VD-45	Require defined structured values	BT-42	Seller contact telephone number	1.2.5.1 Telefono	BT minimum length shall be 5 maximum length shall be 12 chars
CIUS-VD-46	Require defined structured values	BT-43	Seller contact email address	1.2.5.3 Email	BT minimum length shall be 7 maximum length shall be 256 chars
CIUS-VD-47	Require defined structured values	BT-39	Seller country subdivision	1.2.2.5 Provincia	Only if country code=IT coded according to Italian province list
CIUS-VD-48	Require defined structured values	BT-54	Buyer country subdivision	1.4.2.5 Provincia	Only if country code=IT coded according to Italian province list
CIUS-VD-49	Require defined structured values	BT-79	Deliver to country subdivision	2.1.9.12.5 Provincia	Only if country code=IT coded according to Italian province list
CIUS-VD-50	Restrict text or byte array length	BT-59	Payee name	2.4.2.1 Beneficiario	BT maximum length shall be 200 chars
CIUS-VD-51	Restrict text or byte array length	BT-56	Buyer contact point	2.1.1.11 Causale	BT maximum length shall be 200 chars
CIUS-VD-53	Require defined structured values	BT-46, BT-46-1	<i>Buyer identifier</i> <i>Buyer identifier</i> <i>identification scheme</i> <i>identifier</i>	1.4.1.2 CodiceFiscale	If BT-48 is empty then one of the buyer identifiers (0..n) should be the FiscalCode in BT-46. BT-46-1 shall contain the scheme IT:CF.
CIUS-VD-55	Restrict text or byte array length	BT-82	Payment means text	2.1.1.11 Causale	BT maximum length shall be 200 chars
CIUS-VD-56	Restrict text or byte array length	BT-83	Remittance information	2.4.2.21 CodicePagamento	BT maximum length shall be 60 chars
CIUS-VD-57	Require defined structured values	BT-84	Payment account identifier	2.4.2.13 IBAN	BT minimum length shall be 15 maximum length shall be 34 chars
CIUS-VD-58	Restrict text or byte array length	BT-85	Payment account name	2.4.2.1 Beneficiario	BT maximum length shall be 200 chars
CIUS-VD-59	Require defined structured values	BT-86	Payment service provider identifier	2.4.2.16 BIC	BT minimum length shall be 8 maximum length shall be 11 chars
CIUS-VD-60	Restrict text or byte array length	BT-97, BT-98	<i>Document level allowance</i> <i>reason</i> <i>Document level allowance</i> <i>reason code</i>	2.2.1.4 Descrizione	BTs maximum length shall be 1000 chars
CIUS-VD-61	Restrict text or byte array length	BT-104, BT-105	<i>Document level charge</i> <i>reason</i> <i>Document level charge</i> <i>reason code</i>	2.2.1.4 Descrizione	BTs maximum length shall be 1000 chars
CIUS-VD-62	Require defined structured values	BT-112	Invoice total amount with VAT	2.1.1.9 ImportoTotaleDocumento	BT minimum length shall be 4 maximum length shall be 15 chars
CIUS-VD-63	Require defined structured values	BT-115	Amount due for payment	2.4.2.6 ImportoPagamento	BT minimum length shall be 4 maximum length shall be 15 chars

CIUS-VD-64	Require defined structured values	BT-92, BT-99	<i>Document level allowance amount</i> <i>Document level charge amount</i>	2.2.1.9 PrezzoUnitario 2.2.1.11 PrezzoTotale	BT minimum length shall be 4 maximum length shall be 21 chars
CIUS-VD-65	Require defined structured values	BT-114	Rounding amount	2.1.1.10 Arrotondamento	BT minimum length shall be 4 maximum length shall be 15 chars
CIUS-VD-66	Require defined structured values	BT-116	VAT category taxable amount	2.2.2.5 ImponibileImporto	BT minimum length shall be 4 maximum length shall be 15 chars
CIUS-VD-67	Require defined structured values	BT-117	VAT category tax amount	2.2.2.6 Imposta	BT minimum length shall be 4 maximum length shall be 15 chars
CIUS-VD-68	Restrict text or byte array length	BT-120	VAT exemption reason text	2.2.2.8 RiferimentoNormativo	BT maximum length shall be 100 chars
CIUS-VD-69	Restrict text or byte array length	BT-122, BT-125-2	<i>Supporting document reference</i> <i>Attached document Filename</i>	2.5.1 NomeAttachment	BTs maximum length shall be 60 chars
CIUS-VD-70	Restrict text or byte array length	BT-123	Supporting document description	2.5.4 DescrizioneAttachment	BT maximum length shall be 100 chars
CIUS-VD-72	Restrict text or byte array length	BT-125-1	Attached document Mime code	2.5.3 FormatoAttachment	BT maximum length shall be 10 chars
CIUS-VD-74	Restrict text or byte array length	BT-126	Invoice line identifier	2.2.1.1 NumeroLinea	BT maximum length shall be 4 digits
CIUS-VD-75	Restrict text or byte array length	BT-127	Invoice line note	2.2.1.16.2 RiferimentoTesto	BT maximum length shall be 60 chars
CIUS-VD-76	Restrict text or byte array length	BT-128-1	Invoice line object identifier identification scheme identifier	2.2.1.3.1 CodiceTipo	BT maximum length shall be 35 chars
CIUS-VD-77	Restrict text or byte array length	BT-128	Invoice line object identifier	2.2.1.3.2 CodiceValore	BT maximum length shall be 35 chars
CIUS-VD-78	Restrict text or byte array length	BT-130	Invoiced quantity unit of measure	2.2.1.6 UnitaMisura	BTs maximum length shall be 10 chars
		BT-149	Item price base quantity	2.2.1.6 UnitaMisura	BTs maximum length shall be 10 chars
		BT-150	Item price base quantity unit of measure code	2.2.1.6 UnitaMisura	BTs maximum length shall be 10 chars
CIUS-VD-79	Restrict text or byte array length	BT-133	Invoice line Buyer accounting reference	2.2.1.15 RiferimentoAmministrazione	BT maximum length shall be 20 chars
CIUS-VD-80	Require defined structured values	BT-136, BT-141	<i>Invoice line allowance amount</i> <i>Invoice line charge amount</i>	2.2.1.9 PrezzoUnitario 2.2.1.11 PrezzoTotale	BT minimum length shall be 4 maximum length shall be 21 chars
CIUS-VD-81	Restrict text or byte array length	BT-139	Invoice line allowance reason	2.2.1.4 Descrizione	BTs maximum length shall be 1000 chars
		BT-140	Invoice line allowance reason code	2.2.1.4 Descrizione	BTs maximum length shall be 1000 chars
CIUS-VD-82	Restrict text or byte array length	BT-144	Invoice line charge reason	2.2.1.4 Descrizione	BTs maximum length shall be 1000 chars
	Restrict text or byte array length	BT-145	Invoice line charge reason code	2.2.1.4 Descrizione	BTs maximum length shall be 1000 chars
CIUS-VD-83	Require defined structured values	BT-146	Item net price	2.2.1.9 PrezzoUnitario	BT minimum length shall be 4 maximum length shall be 21 chars
CIUS-VD-85	Restrict text or byte array length	BT-153	Item name	2.2.1.4 Descrizione	BTs maximum length shall be 1000 chars

	Restrict text or byte array length	BT-154	Item description	2.2.1.4 Descrizione	BTs maximum length shall be 1000 chars
CIUS-VD-86	Restrict text or byte array length	BT-155	Item Seller's identifier	2.2.1.3.2 CodiceValore	BT maximum length shall be 35 chars
CIUS-VD-87	Restrict text or byte array length	BT-156	Item Buyer's identifier	2.2.1.3.2 CodiceValore	BT maximum length shall be 35 chars
CIUS-VD-88	Restrict text or byte array length	BT-157	Item standard identifier	2.2.1.3.2 CodiceValore	BT maximum length shall be 35 chars
CIUS-VD-89	Restrict text or byte array length	BT-158	Item classification identifier	2.2.1.3.2 CodiceValore	BT maximum length shall be 35 chars
CIUS-VD-90	Restrict text or byte array length	BT-157-1	Item standard identifier identification scheme identifier	2.2.1.3.1 CodiceTipo	BT maximum length shall be 35 chars
CIUS-VD-91	Restrict text or byte array length	BT-158-1	Item classification identifier identification scheme identifier	2.2.1.3.1 CodiceTipo	BTs maximum length shall be 35 chars
		BT-158-2	Scheme version identifier	2.2.1.3.1 CodiceTipo	BTs maximum length shall be 35 chars
CIUS-VD-92	Restrict text or byte array length	BT-159	Item country of origin	2.2.1.16.2 RiferimentoTesto	BT maximum length shall be 60 chars
CIUS-VD-93	Restrict text or byte array length	BT-160	Item attribute name	2.2.1.16 AltriDatiGestionali 2.2.1.16.1 TipoDato	BT maximum length shall be 10 chars
CIUS-VD-94	Restrict text or byte array length	BT-161	Item attribute value	2.2.1.16 AltriDatiGestionali 2.2.1.16.2 RiferimentoTesto	BT maximum length shall be 60 chars
CIUS-VD-95	Restrict allowed fraction digits	BT-146	Item net price	2.2.1.9 PrezzoUnitario	BT allowed fraction digits shall be 8
CIUS-VD-96	Restrict text or byte array length	BT-132	Referenced purchase order line reference	2.1.2.4 NumItem	BT maximum length shall be 20 chars
CIUS-VD-97	Restrict text or byte array length	BT-49, BT-49-1	Buyer electronic address Buyer electronic address identification scheme identifier		If BT-49-1= IT:PEC schema then BT-49 minimum length shall be 7 maximum length shall be 256 chars else if BT-49-1 = IT:IPA schema then BT-49 maximum length shall be 6 chars else if BT-49-1 = IT:CODDEST schema then BT-49 maximum length shall be 7 chars
CIUS-VD-99	Require defined structured values	BT-32	Seller tax registration identifier	1.2.1.8 RegimeFiscale	In case the seller is Italian this field shall contain the codification of RegimeFiscale (1.2.1.8 from RF01 to RF19)
CIUS-VD-100	Restrict text or byte array length	BT-46, BT-46-1	Buyer identifier Buyer identifier identification scheme identifier	1.4.1.2 CodiceFiscale 1.4.1.3.5 CodEori 1.4.1.1 IdFiscaleIva	case BT46-1=IT:CF then BT-46 minimum length 11 and maximum length shall be 16 BT-46-1=IT:EORI then BT-46 minimum length 13 and maximum length shall be 17 BT-46-1=IT:VAT then BT-46 maximum length 30 (the first two chars indicates country code)
CIUS-VD-101	Restrict text or byte array length	BT-29, BT-29-1	Seller identifier Seller identifier identification scheme identifier	1.2.1.2 CodiceFiscale or 1.2.1.3.5 CodEORI	case BT29-1=IT:CF then BT-29 minimum length 11 and maximum length shall be 16 BT-29-1=IT:EORI then BT-29 minimum length 13 and maximum length shall be 17 BT-29-1=IT:VAT then BT-29 maximum length 30 (the first two chars indicates country code)
CIUS-VD-102	Restrict text or byte array length	BT-30, BT-30-1	Seller legal registration identifier Seller legal registration identifier identification scheme identifier	1.2.4.1 Ufficio 1.2.4.2 NumeroREA or 1.2.1.6 NumeroIscrizioneAlbo	case BT-30-1=IT:REA then BT-30 minimum length 3 and maximum length shall be 22 (first two chars indicate the Italian province code) BT-30-1=IT:ALBO then BT-30 maximum length 60

Table 1 CIUS detailed specification

371 7.4 Validation engine

372 To evaluate if an invoice is compliant with the EN 16931-1 about the “*Semantic data model of the core*
373 *elements of an electronic invoice*”, it is available a Schematron validation tool.

374 Schematron is a XML schema that is used to validate an XML document, capturing constraints in human
375 language assertions and generating appropriate human-language diagnostics: this allows a level of user-
376 friendliness not available in other schema languages.

377 Schematron has been standardized by the ISO as Information technology, Document Schema Definition
378 Languages (DSDL), Part 3: Rule-based validation, Schematron (ISO/IEC 19757-3:2016).

379 This standard is available free on the [ISO Publicly Available Specifications](#).

380 The Italian CIUS is a specification containing the total set of rules regarding semantic content, cardinalities
381 and business rules to which an invoice in compliance with EN 16931-1 about the “*Semantic data model of*
382 *the core elements of an electronic invoice*” should be applied when issued for a Public administration in
383 Italy.

384 Although the CIUS is related to the Semantic data model of the core elements of an electronic invoice that
385 is independent from the used syntax, the schematron is not neutral about the used syntax.

386 According the European norm that defines the list of official syntaxes accepted in TS 16931-2, namely:

- 387 1. **UN/CEFACT Cross Industry Invoice** XML message as specified in XML Schemas 16B (SCRDM - CII)
- 388 2. **UBL** invoice and credit note messages as defined in ISO/IEC 19845:2015

389 the CIUS-IT schematron is available for these two syntaxes.

390

```

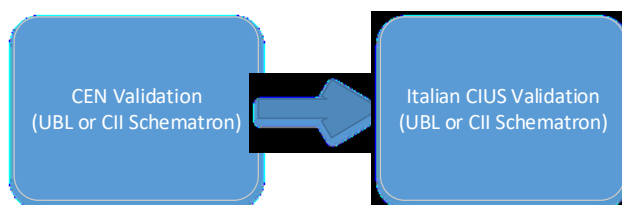
390 <pattern name="CIUS-BT-2">
391   <rule context="cac:AccountingCustomerParty/cac:Party">
392     <assert test="exists(cbc:EndpointID)" flag="fatal">
393       [CIUS-BT-2]-BT-49 shall contain a legal mail address (PEC) or IndicePA/CodiceUfficio (see the Italian business rules).
394     </assert>
395   </rule>
396 </pattern>

```

392 Figure 5 Sample Schematron rule

393 To validate if an invoice, in UBL 2.1 or CII 16B syntax, comply with the Italian CIUS it is required to follow
394 two sequential steps:

- 395 1. CEN Validation - The invoice must be compliant with the EN 16931-1 (in UBL 2.1 or CII 16B)
- 396 2. CIUS-IT Validation - The Invoice must be compliant with the Italian CIUS



397 Figure 6 Validation Steps

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