# Introduction

The website will store information from files based on standardised templates called Registrable Artefacts. Registrable Artefacts will be uploaded by Submitting. The information gathered will be used to search the Registry by users. The Registry Authority will provide governance and be responsible for the effective operation of the Registry Service. There are two additional roles; Registration Management and Standards Evaluation – see Glossary for more info.

Submitting Entities will be previously registered on the website and have a unique ID. A submitting entity will be a Governing Entity (as defined by the EN) who are one of the following;

* CEN/TC 434 itself
* CEN National Standards Bodies (NSBs)
* CEN/TC 434 Liaison Organizations
* Member States
* Bodies representing a public sector or business community
* Others (to be agreed)

A Registration Management Group (RMG) will manage and oversee the Registry Services processes and assign received artefacts to experts called Standards Evaluation Group (SEG). The SEG will comprise of eInvoice and sectoral experts selected by the RMG. Initially the RMG and SEG will be one group but this can scale up to multiple groups as required.

The SEG will validate the artefacts assigned to it. Prior to SEG evaluating the artefacts, the artefact will have a status of "Provisional Registration", once evaluated it will have a status of "Formal Registration". Evaluations will be carried out by using external tools.

When a CIUS or Extension is uploaded in XML format and fully compliant with the WG1 Template schema, the Service will read the XML file and provide the metadata as searchable fields.

A user can search the Registry Service by selecting which metadata elements they are interested in. The service will then list all artefacts that contain these elements. The user can list

# Functions and procedures to be supported by Registry Services

The following procedural **steps** are proposed for the submission, provisional registration, evaluation and review, and acceptance for Formal Registration of registrable artefacts:

**Step 1**: Submission of the registrable artefact to the Registry Authority. On reception the Registry Authority will ensure that it is submitted by a recognised Submitting entity and has an identified Governing entity, which meets the established criteria.

**Step 2**: The Registry Authority will be responsible for the preliminary validation of the artefact for conformity with requirements of the Registration Template, and for consistency and integrity in terms of the category in which it is allocated. Upon preliminary acceptance it is registered in the Registry with the classification: ‘Provisional subject to review and Formal Registration’. This step should happen within a short time-frame.

**Step 3**: Distribution to the Registration Management Group (RMG) and to members of the (applicable) Standards Evaluation Group (SEG), Members of CEN/TC 434, CEN NSBs and Liaison Organisations, and any other experts appropriate to the circumstances. Evaluation and review by the SEG and the other involved stakeholders of the content of the registrable item to ensure compliance with data and technical requirements, and overall quality criteria.

**Step 4**: Discussion with appropriate stakeholders moderated by the Registration Authority as to the potential for sharing or restructuring the artefact to meet the needs of one or more other communities. This could include discussion with appropriate stakeholders, as to whether an item should become a commonly developed artefact such as a Common Extension, or whether it is logged for a future action such as incorporation into EN 16931 as a change request. A summary of the results of the discussion will be incorporated in a recommendation to the RMG, supported by the Registration Authority.

**Step 5**: Final acceptance decision, by the Registration Management Group (RMG) followed by publication of the artefact (accompanied by the recommendation of the SEG if applicable) in the Registry by the Registration Authority as: Formally Registered. This is the publication of the registration of the registrable artefact. The primary publication of the Artefact may be a separate process carried out by the Governing entity or Submitter.

**Step 6**: Monitoring of implementation carried out on a continuing basis.

# Functional Requirements

The Registry needs to be housed in a publicly available website containing registered artefacts during the stages leading to their registration as described above in section 6 namely:

1. Provisional Registration
2. Evaluation, review and acceptance
3. Formal Registration

The Registry will have extensive access, registration and search capabilities as outlined below in the following three sections. It will also incorporate a governance process for evaluation, review and acceptance as set out in the operational steps defined in Section 6 above. Following validation, the artefact will be formally registered. As decisions are made during these operational steps in the process, the status of the Artefact will be updated by the Registration Authority, in the Registry.

It is important to recognise that given that the EN has been published and the implementation period is running, there are time pressures to deliver a functioning Registry against a background of limited resources. Accordingly, the following key principles are proposed for the development and implementation of the functional requirements:

1. Ensure that the requirements set out in the EN documentation and the governance procedures receive priority.
2. Gather specific user requirements based on confirming or amending identified requirements with parties representing submitters, governing entities and users. In the process reach out to service and solution providers on an iterative basis. Other stakeholders should be consulted, primarily through EMSFEI, with whom a Workshop has already been conducted.
3. It is proposed to register artefacts mainly at the metadata (summary) level and provide links to web-sites of the governing entity of the registered artefacts where full content and functionality is available.

The functional design and development path for the Registry should follow a phased approach, focusing first on delivering a useful minimum level of functionality, to be identified, and then enhancing the system with increased functionality supported by a business case.

The functional requirements are created with the assumption that the number of registrable artefacts will be in the range of 100-500, starting at the lower level and allowing for growth. In the event of the scale exceeding this, resources would need to be increased accordingly and suitably funded.

Functionality is defined below for three categories of requirement:

1. Services for Submitters and Governing Entities
2. The Governance process for evaluation review and acceptance
3. Services for Users.

**Services for Submitters and Governing Entities** will be composed of the 2 operational steps identified in Section 6 for submission, validation, preliminary registration. and which will be required to be supported.

For simplicity the text in this section refers to submitters but includes the functionality offered to governing entities.

In the section below, the functionality offered to Users is described, Submitters and Governing Entities will also have major requirements for search capabilities and in effect will adopt the role of User when they are consulting or searching the Registry, particularly in advance of the process of registration. The full description of the functionality relating to ‘search’ capabilities are provided below relating to Users.

Before submitting artefacts for provisional registration, submitting entities should be encouraged and provided with the functionality to carry out a range of research functions. There may be a link to tools that could provide functionality for comparisons and artefact development.

Submitters should be encouraged to use the Registry early in their design process as a source of help and support e.g. by searching for similar artefacts or using the various tools and utilities embedded in the Registry’s functionality. All registered artefacts, both provisional and formally registered will have identified categories, key words and short names that will support such search requirements.

Submitters should especially be encouraged to search for artefacts that either exactly replicate or approximate the scope of the Artefact being considered. The Submitter may then recommend that its community adopts such an Artefact or enters discussions with the Governing entity concerned to see if a change request for an enhancement or amendment is justified. They may then become co-submitters of the modified Artefact.

Submitters will need to search in both the separate sections of the Registry storing Provisionally Registered and Formally Registered artefacts.

Submitters will be provided with a Web Form or Template to submit the artefact(s) for registration.

The following information will be to be entered:

* The name and identifier of the Submitting entity
* The name of the registrable item
* The category of the registrable artefact (CIUS, Extension, Code list etc.)- categories will be defined within the functionality
* A synopsis of the rationale or business justification, and main features of the artefact, including its maintenance cycle.
* The details required to qualify the item as a Provisionally Registered.
* The details required to register the item as Formally Registered, once accepted
* Change request s will follow the same process except that such registrations will be identified with a marker.

An identifying number of the registrable item to be assigned by the Registry and any other required identifiers and cross-references will be added.

**Functionality for evaluation and registration** will be provided to support the governance process

Functionality will be required to support the 3 operational steps set out in Section 6: distribution to the Standards Evaluation Group and others for evaluation and review, appropriate follow-up discussions, recommendation to the RMG, leading to a final acceptance decision and publication in the Registry

This evaluation and review process can be undertaken as an in-house process of the Registration Author by the Standards Evaluation Group (SEG), which will include representatives of CEN/TC 434, CEN NSB’s and Liaison Organisations, and other experts including resources provided by governing entities and those with sectoral knowledge, where applicable. All such experts will be enrolled in the Standards Evaluation Group or Groups by the RA or Registry Operator on its behalf, which will require to an expert team management tool to monitor expertise and plan resources provisioning in advance.

From a functionality point of view those participating in the evaluation and review process will require access and search capabilities and some collaborative tools to enable co-working and the capture of comments and recommendations.

The SEG will:

* Validate the submission of newly developed registrable artefacts from and technical perspective and from the point of view of existing and future users based on compliance with the definition of the artefact and its well-formedness.
* Ensure that the submitted artefacts and their specifications fully comply with the requirements of the EN and related documents specifically the EN itself, the Extension Methodology and the Syntax Methodology.
* Ensure that the appropriate industry and stakeholder groups are informed of proposed developments to ensure all business and technical requirements are addressed.
* Collaborate with the Submitter and/or Governing entity during the process., and make suggestions to align the item with other similar artefacts which have been or in the process of registration.

The SEG will undertake the remaining steps of the Operational procedures, including liaising with the submitter and recommending the Artefact the submission as being a CEN/TC 434 Registered Artefact. The Registration Authority (RA) through its Governing Board and the Registry Operator will have full access and administration rights to the process and will make all ultimate decisions covering both an Artefact itself and whether a Governing Entity meets agreed criteria.

**Functionality for services to Users,** who will require access and search for Registered Artefacts, both in the form of Provisionally Registered Artefacts, and Formally Registered Artefacts.

Once an Artefact is found, using the metadata search, there will be a hyperlink to redirect to the location where full details of the Artefact and related information is stored and made available on the web-site of the Governing entity or submitter of the Artefact concerned. a

The following should be used for search criteria:

* The name and short name of the Artefact.
* Key Words from the template in which the description of the Artefact is contained.
* Any link of the Artefact to a national community or a public-sector organisation.
* Any descriptor that identifies the Artefact as associated with an industrial or service sector. The latter could be based on a commonly used classification of industrial sectors.
* For CIUS to enable the information elements where restrictions, constraints or specific requirements compliant with the EN are identified.
* For Extensions to enable a search against information elements subject to the Extension.
* For Code lists to enable the information elements in the semantic model, CIUS, or in an Extension that is applicable to the Code List
* Character sets identifying the country or situation, to which it applies

Detailed specifications including the CIUS or Extension specification and validation artefacts etc. will be available through hyperlinks that will be provided by the Submitter. Typically, they should be in the form of a download in digital or human readable form or both, together with any applicable open source code, and related documentation,

From a high-level functional point of view the Registry will provide a single source of access to all Registered Artefacts represented consistently at the metadata level and as reasonably consistently as possible in the domain of the governing entity. The SEG can advise on this as part of their collaboration process with them. (This requirement needs careful clarification).

It is a matter of further investigation as to whether it is practical or desirable to provide an element of certification as to whether an Artefact is conformant or compliant with the EN and related Technical Specifications such as the Extension Methodology. Other features could include capabilities for researching commonalities, differences and benchmarking.

# Requirements for a Prototype

It is proposed to develop a prototype in order to test the concepts. This will include a set of model rules and procedures and a technical environment. All code developed will be available as an open source project i.e. stored on GitHub and an appropriate license will be used.

Discussions have been initiated with CCMC to discuss concepts and ways to implement the Registry Services described in this report at a Registration Authority and a Registry Operator level. A dialogue has also been initiated with CEF Digital to discuss funding/resources and a possible basis for cooperation utilising the already existing CEF Digital instance of a basic registry.

The prototype will require the following features;

\* Hosted website with a suitable database

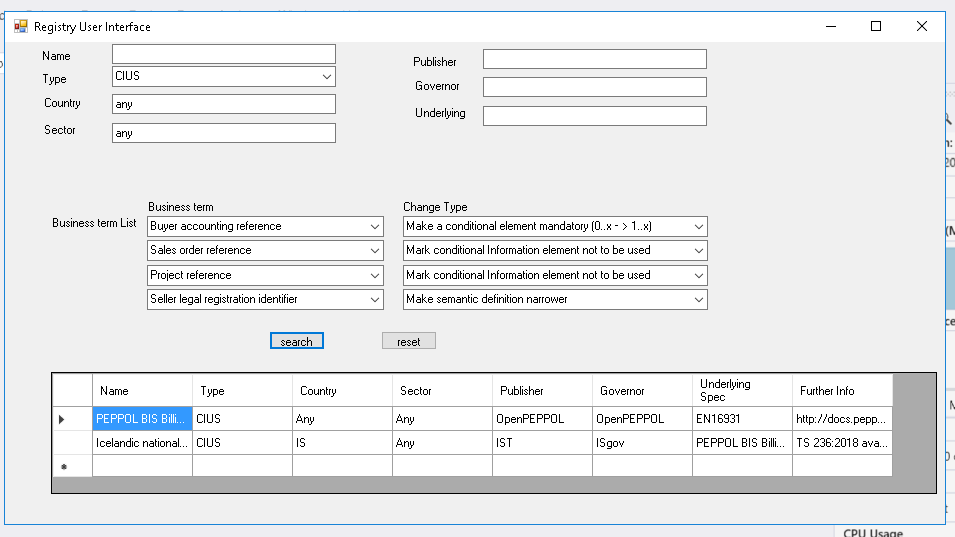
\* User Interface (UI) for the RA administrator

\* UI for Registrable Artefact (RENA) governing entities

\* UI for Registrable Artefact requestor/users

**Screen shots / wireframe mockups:**

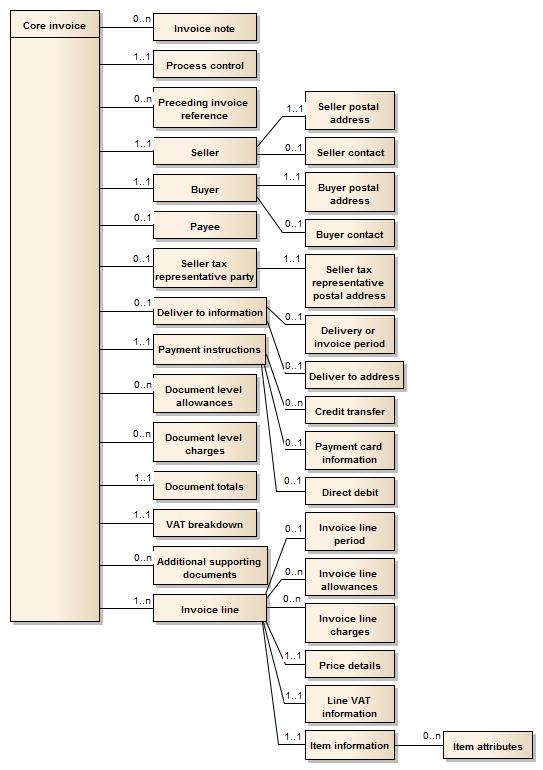
**UI for Registrable Artefact requestor/users:**



The "Header" should contain the following (based on the existing CEF Registry);

|  |  |
| --- | --- |
| Name | Description |
| Artefact Name | – Name of Artefact e.g. name given to the CIUS |
| Type | CIUS, Extension, Validation Artefact, Code List |
| Country | The country it applies to (or Any) |
| Sector | The Sector it applies to (or Any) |
| Purpose | a Description of the purpose of the |
| Publisher | Who published the CIUS |
| Governor | Name / ID of the Governing Entity /Submitting Entity |
| Underlying Standard | e.g. EN `16931 |
| Further info | A link to further info |
| Status | Where active or not |
| Contact | Who to contact for more info |
| CIUS ID | The unique ID as described in the EN |

The business terms could be categorised according to the following table;



The following table shows all the business terms that could be included;

For the CIUS it will be assumed that the user will only select optional / conditional elements i.e. those with a cardinality of 0..1 or 0..n. However even mandatory elements contain optional elements

| ID | Level | Cardinality | Business Term | Semantic data type[[1]](#footnote-1) |
| --- | --- | --- | --- | --- |
| BT-1 | + | 1..1 | Invoice number | Identifier |
| BT-2 | + | 1..1 | Invoice issue date | Date |
| BT-3 | + | 1..1 | Invoice type code | Code |
| BT-5 | + | 1..1 | Invoice currency code | Code |
| BT-6 | + | 0..1 | VAT accounting currency code | Code |
| BT-7 | + | 0..1 | Value added tax point date | Date |
| BT-8 | + | 0..1 | Value added tax point date code | Code |
| BT-9 | + | 0..1 | Payment due date | Date |
| BT-10 | + | 0..1 | Buyer reference | Text |
| BT-11 | + | 0..1 | Project reference | Document reference |
| BT-12 | + | 0..1 | Contract reference | Document reference |
| BT-13 | + | 0..1 | Purchase order reference | Document reference |
| BT-14 | + | 0..1 | Sales order reference | Document reference |
| BT-15 | + | 0..1 | Receiving advice reference | Document reference |
| BT-16 | + | 0..1 | Despatch advice reference | Document reference |
| BT-17 | + | 0..1 | Tender or lot reference | Document reference |
| BT-18 | + | 0..1 | Invoiced object identifier | Identifier |
|  |  | 0..1 | Scheme identifier |  |
| BT-19 | + | 0..1 | Buyer accounting reference | Text |
| BT-20 | + | 0..1 | Payment terms | Text |
| BG-1 | + | 0..n | INVOICE NOTE |  |
| BT-21 | ++ | 0..1 | Invoice note subject code | Text |
| BT-22 | ++ | 1..1 | Invoice note | Text |
| BG-2 | + | 1..1 | PROCESS CONTROL |  |
| BT-23 | ++ | 0..1 | Business process type | Text |
| BT-24 | ++ | 1..1 | Specification identifier | Identifier |
| BG-3 | + | 0..n | PRECEDING INVOICE REFERENCE |  |
| BT-25 | ++ | 1..1 | Preceding Invoice reference | Document reference |
| BT-26 | ++ | 0..1 | Preceding Invoice issue date | Date |
| BG-4 | + | 1..1 | SELLER |  |
| BT-27 | ++ | 1..1 | Seller name | Text |
| BT-28 | ++ | 0..1 | Seller trading name | Text |
| BT-29 | ++ | 0..n | Seller identifier | Identifier |
|  |  | 0..1 | Scheme identifier |  |
| BT-30 | ++ | 0..1 | Seller legal registration identifier | Identifier |
|  |  | 0..1 | Scheme identifier |  |
| BT-31 | ++ | 0..1 | Seller VAT identifier | Identifier |
| BT-32 | ++ | 0..1 | Seller tax registration identifier | Identifier |
| BT-33 | ++ | 0..1 | Seller additional legal information | Text |
| BT-34 | ++ | 0..1 | Seller electronic address | Identifier |
|  |  | 1..1 | Scheme identifier |  |
| BG-5 | ++ | 1..1 | SELLER POSTAL ADDRESS |  |
| BT-35 | +++ | 0..1 | Seller address line 1 | Text |
| BT-36 | +++ | 0..1 | Seller address line 2 | Text |
| BT-162 | +++ | 0..1 | Seller address line 3 | Text |
| BT-37 | +++ | 0..1 | Seller city | Text |
| BT-38 | +++ | 0..1 | Seller post code | Text |
| BT-39 | +++ | 0..1 | Seller country subdivision | Text |
| BT-40 | +++ | 1..1 | Seller country code | Code |
| BG-6 | ++ | 0..1 | SELLER CONTACT |  |
| BT-41 | +++ | 0..1 | Seller contact point | Text |
| BT-42 | +++ | 0..1 | Seller contact telephone number | Text |
| BT-43 | +++ | 0..1 | Seller contact email address | Text |
| BG-7 | + | 1..1 | BUYER |  |
| BT-44 | ++ | 1..1 | Buyer name | Text |
| BT-45 | ++ | 0..1 | Buyer trading name | Text |
| BT-46 | ++ | 0..1 | Buyer identifier | Identifier |
|  |  | 0..1 | Scheme identifier |  |
| BT-47 | ++ | 0..1 | Buyer legal registration identifier | Identifier |
|  |  | 0..1 | Scheme identifier |  |
| BT-48 | ++ | 0..1 | Buyer VAT identifier | Identifier |
| BT-49 | ++ | 0..1 | Buyer electronic address | Identifier |
|  |  | 1..1 | Scheme identifier |  |
| BG-8 | ++ | 1..1 | BUYER POSTAL ADDRESS |  |
| BT-50 | +++ | 0..1 | Buyer address line 1 | Text |
| BT-51 | +++ | 0..1 | Buyer address line 2 | Text |
| BT-163 | +++ | 0..1 | Buyer address line 3 | Text |
| BT-52 | +++ | 0..1 | Buyer city | Text |
| BT-53 | +++ | 0..1 | Buyer post code | Text |
| BT-54 | +++ | 0..1 | Buyer country subdivision | Text |
| BT-55 | +++ | 1..1 | Buyer country code | Code |
| BG-9 | ++ | 0..1 | BUYER CONTACT |  |
| BT-56 | +++ | 0..1 | Buyer contact point | Text |
| BT-57 | +++ | 0..1 | Buyer contact telephone number | Text |
| BT-58 | +++ | 0..1 | Buyer contact email address | Text |
| BG-10 | + | 0..1 | PAYEE |  |
| BT-59 | ++ | 1..1 | Payee name | Text |
| BT-60 | ++ | 0..1 | Payee identifier | Identifier |
|  |  | 0..1 | Scheme identifier |  |
| BT-61 | ++ | 0..1 | Payee legal registration identifier | Identifier |
|  |  | 0..1 | Scheme identifier |  |
| BG-11 | + | 0..1 | SELLER TAX REPRESENTATIVE PARTY |  |
| BT-62 | ++ | 1..1 | Seller tax representative name | Text |
| BT-63 | ++ | 1..1 | Seller tax representative VAT identifier | Identifier |
| BG-12 | ++ | 1..1 | SELLER TAX REPRESENTATIVE POSTAL ADDRESS |  |
| BT-64 | +++ | 0..1 | Tax representative address line 1 | Text |
| BT-65 | +++ | 0..1 | Tax representative address line 2 | Text |
| BT-164 | +++ | 0..1 | Tax representative address line 3 | Text |
| BT-66 | +++ | 0..1 | Tax representative city | Text |
| BT-67 | +++ | 0..1 | Tax representative post code | Text |
| BT-68 | +++ | 0..1 | Tax representative country subdivision | Text |
| BT-69 | +++ | 1..1 | Tax representative country code | Code |
| BG-13 | + | 0..1 | DELIVERY INFORMATION |  |
| BT-70 | ++ | 0..1 | Deliver to party name | Text |
| BT-71 | ++ | 0..1 | Deliver to location identifier | Identifier |
|  |  | 0..1 | Scheme identifier |  |
| BT-72 | ++ | 0..1 | Actual delivery date | Date |
| BG-14 | ++ | 0..1 | INVOICING PERIOD |  |
| BT-73 | +++ | 0..1 | Invoicing period start date | Date |
| BT-74 | +++ | 0..1 | Invoicing period end date | Date |
| BG-15 | ++ | 0..1 | DELIVER TO ADDRESS |  |
| BT-75 | +++ | 0..1 | Deliver to address line 1 | Text |
| BT-76 | +++ | 0..1 | Deliver to address line 2 | Text |
| BT-165 | +++ | 0..1 | Deliver to address line 3 | Text |
| BT-77 | +++ | 0..1 | Deliver to city | Text |
| BT-78 | +++ | 0..1 | Deliver to post code | Text |
| BT-79 | +++ | 0..1 | Deliver to country subdivision | Text |
| BT-80 | +++ | 1..1 | Deliver to country code | Code |
| BG-16 | + | 0..1 | PAYMENT INSTRUCTIONS |  |
| BT-81 | ++ | 1..1 | Payment means type code | Code |
| BT-82 | ++ | 0..1 | Payment means text | Text |
| BT-83 | ++ | 0..1 | Remittance information | Text |
| BG-17 | ++ | 0..n | CREDIT TRANSFER |  |
| BT-84 | +++ | 1..1 | Payment account identifier | Identifier |
| BT-85 | +++ | 0..1 | Payment account name | Text |
| BT-86 | +++ | 0..1 | Payment service provider identifier | Identifier |
| BG-18 | ++ | 0..1 | PAYMENT CARD INFORMATION |  |
| BT-87 | +++ | 1..1 | Payment card primary account number | Text |
| BT-88 | +++ | 0..1 | Payment card holder name | Text |
| BG-19 | ++ | 0..1 | DIRECT DEBIT |  |
| BT-89 | +++ | 0..1 | Mandate reference identifier | Identifier |
| BT-90 | +++ | 0..1 | Bank assigned creditor identifier | Identifier |
| BT-91 | +++ | 0..1 | Debited account identifier | Identifier |
| BG-20 | + | 0..n | DOCUMENT LEVEL ALLOWANCES |  |
| BT-92 | ++ | 1..1 | Document level allowance amount | Amount |
| BT-93 | ++ | 0..1 | Document level allowance base amount | Amount |
| BT-94 | ++ | 0..1 | Document level allowance percentage | Percentage |
| BT-95 | ++ | 1..1 | Document level allowance VAT category code | Code |
| BT-96 | ++ | 0..1 | Document level allowance VAT rate | Percentage |
| BT-97 | ++ | 0..1 | Document level allowance reason | Text |
| BT-98 | ++ | 0..1 | Document level allowance reason code | Code |
| BG-21 | + | 0..n | DOCUMENT LEVEL CHARGES |  |
| BT-99 | ++ | 1..1 | Document level charge amount | Amount |
| BT-100 | ++ | 0..1 | Document level charge base amount | Amount |
| BT-101 | ++ | 0..1 | Document level charge percentage | Percentage |
| BT-102 | ++ | 1..1 | Document level charge VAT category code | Code |
| BT-103 | ++ | 0..1 | Document level charge VAT rate | Percentage |
| BT-104 | ++ | 0..1 | Document level charge reason | Text |
| BT-105 | ++ | 0..1 | Document level charge reason code | Code |
| BG-22 | + | 1..1 | DOCUMENT TOTALS |  |
| BT-106 | ++ | 1..1 | Sum of Invoice line net amount | Amount |
| BT-107 | ++ | 0..1 | Sum of allowances on document level | Amount |
| BT-108 | ++ | 0..1 | Sum of charges on document level | Amount |
| BT-109 | ++ | 1..1 | Invoice total amount without VAT | Amount |
| BT-110 | ++ | 0..1 | Invoice total VAT amount | Amount |
| BT-111 | ++ | 0..1 | Invoice total VAT amount in accounting currency | Amount |
| BT-112 | ++ | 1..1 | Invoice total amount with VAT | Amount |
| BT-113 | ++ | 0..1 | Paid amount | Amount |
| BT-114 | ++ | 0..1 | Rounding amount | Amount |
| BT-115 | ++ | 1..1 | Amount due for payment | Amount |
| BG-23 | + | 1..n | VAT BREAKDOWN |  |
| BT-116 | ++ | 1..1 | VAT category taxable amount | Amount |
| BT-117 | ++ | 1..1 | VAT category tax amount | Amount |
| BT-118 | ++ | 1..1 | VAT category code | Code |
| BT-119 | ++ | 0..1 | VAT category rate | Percentage |
| BT-120 | ++ | 0..1 | VAT exemption reason text | Text |
| BT-121 | ++ | 0..1 | VAT exemption reason code | Code |
| BG-24 | + | 0..n | ADDITIONAL SUPPORTING DOCUMENTS |  |
| BT-122 | ++ | 1..1 | Supporting document reference | Document reference |
| BT-123 | ++ | 0..1 | Supporting document description | Text |
| BT-124 | ++ | 0..1 | External document location | Text |
| BT-125 | ++ | 0..1 | Attached document | Binary object |
|  |  | 1..1 | Attached document Mime code |  |
|  |  | 1..1 | Attached document Filename |  |
| BG-25 | + | 1..n | INVOICE LINE |  |
| BT-126 | ++ | 1..1 | Invoice line identifier | Identifier |
| BT-127 | ++ | 0..1 | Invoice line note | Text |
| BT-128 | ++ | 0..1 | Invoice line object identifier | Identifier |
|  |  | 0..1 | Scheme identifier |  |
| BT-129 | ++ | 1..1 | Invoiced quantity | Quantity |
| BT-130 | ++ | 1..1 | Invoiced quantity unit of measure code | Code |
| BT-131 | ++ | 1..1 | Invoice line net amount | Amount |
| BT-132 | ++ | 0..1 | Referenced purchase order line reference | Document reference |
| BT-133 | ++ | 0..1 | Invoice line Buyer accounting reference | Text |
| BG-26 | ++ | 0..1 | INVOICE LINE PERIOD |  |
| BT-134 | +++ | 0..1 | Invoice line period start date | Date |
| BT-135 | +++ | 0..1 | Invoice line period end date | Date |
| BG-27 | ++ | 0..n | INVOICE LINE ALLOWANCES |  |
| BT-136 | +++ | 1..1 | Invoice line allowance amount | Amount |
| BT-137 | +++ | 0..1 | Invoice line allowance base amount | Amount |
| BT-138 | +++ | 0..1 | Invoice line allowance percentage | Percentage |
| BT-139 | +++ | 0..1 | Invoice line allowance reason | Text |
| BT-140 | +++ | 0..1 | Invoice line allowance reason code | Code |
| BG-28 | ++ | 0..n | INVOICE LINE CHARGES |  |
| BT-141 | +++ | 1..1 | Invoice line charge amount | Amount |
| BT-142 | +++ | 0..1 | Invoice line charge base amount | Amount |
| BT-143 | +++ | 0..1 | Invoice line charge percentage | Percentage |
| BT-144 | +++ | 0..1 | Invoice line charge reason | Text |
| BT-145 | +++ | 0..1 | Invoice line charge reason code | Code |
| BG-29 | ++ | 1..1 | PRICE DETAILS |  |
| BT-146 | +++ | 1..1 | Item net price | Unit price amount |
| BT-147 | +++ | 0..1 | Item price discount | Unit price amount |
| BT-148 | +++ | 0..1 | Item gross price | Unit price amount |
| BT-149 | +++ | 0..1 | Item price base quantity | Quantity |
| BT-150 | +++ | 0..1 | Item price base quantity unit of measure code | Code |
| BG-30 | ++ | 1..1 | LINE VAT INFORMATION |  |
| BT-151 | +++ | 1..1 | Invoiced item VAT category code | Code |
| BT-152 | +++ | 0..1 | Invoiced item VAT rate | Percent |
| BG-31 | ++ | 1..1 | ITEM INFORMATION |  |
| BT-153 | +++ | 1..1 | Item name | Text |
| BT-154 | +++ | 0..1 | Item description | Text |
| BT-155 | +++ | 0..1 | Item Seller's identifier | Identifier |
| BT-156 | +++ | 0..1 | Item Buyer's identifier | Identifier |
| BT-157 | +++ | 0..1 | Item standard identifier | Identifier |
|  |  | 1..1 | Scheme identifier |  |
| BT-158 | +++ | 0..n | Item classification identifier | Identifier |
|  |  | 1..1 | Scheme identifier |  |
|  |  | 0..1 | Scheme version identifier |  |
| BT-159 | +++ | 0..1 | Item country of origin | Code |
| BG-32 | +++ | 0..n | ITEM ATTRIBUTES |  |
| BT-160 | ++++ | 1..1 | Item attribute name | Text |
| BT-161 | ++++ | 1..1 | Item attribute value | Text |

The user will select one or more Business Terms and the select the Change Type (restriction) they are interested in.

The Change Type (restriction) is from the following EN List;

|  |
| --- |
| Mark conditional Information element not to be used |
| Make semantic definition narrower |
| Add synonyms |
| Add explanatory text |
| Make a conditional element mandatory (0..x – > 1..x) |
| Decrease number of repetitions (x..n – > x..1) |
| Change semantic data type from string to ... |
| Codes and identifiers |
| Remove one of multiple defined lists |
| Mark defined values as not allowed |
| Add new non-conflicting business rule for existing element(s) |
| Make an existing business rule more restrictive |
| Restrict text or byte array length |
| Require defined structured values |
| Restrict allowed fraction digits |

Once all the metadata is input the user can press search and it will show a list of CIUS.

From this list the user can then select a CIUS and zoom into the metadata to show all the other Business terms that were restricted. The user could also be shown any other attachments such as Validation Artefacts or restricted code lists associated with the CIUS.

UI for Registrable Artefact requestor/users:

It is envisaged that a similar UI is created for the submitter. In this case they key in the business terms and restrictions and save the information.

Glossary

Governing entity

an entity, that creates a registrable artefact and becomes responsible for its maintenance and development on an ongoing basis. Governing entities fall into the following categories:

* CEN/TC 434 itself
* CEN National Standards Bodies (NSBs)
* CEN/TC 434 Liaison Organizations
* Member States
* Bodies representing a public sector or business community
* Others (to be agreed)

A Governing entity may choose to seek the status of Submitter or rely on another organisation to submit artefacts for registration on its behalf. An organisation could become a recognized ‘governing entity’ once a submission that it originates has been accepted and approved through the registration process in accordance with the operational procedures. Governing Entities should demonstrate an ability to maintain the specifications especially in relation to future versions of the EN and its related syntax requirements, if applicable.

**Registrable EN Artefact**

An item registered and identified in the Registry and consisting of documents, data files, specifications, lists, and data-sets presented in machine readable and/or human readable form, as appropriate, including:

* Core Invoice Usage Specifications (CIUS) conforming to EN 16931.
* Extensions conforming to the Extension Methodology specified in EN 16931-5
* Code Lists cited for use in EN 16931 (both restricted and new)
* Validation Artefacts related to EN 16931 i.e. schematron files or other Open Source code used to validate Invoice Instances.
* Character sets
* Others (to be determined).

Registrable artefact is shortened to RENA ( Registrable EN Artefact)

Registration Management Group (RMG)

a group of individuals appointed by stakeholders and acting as the 'governing board' of the Registry and the Registration Authority.

Registry Operator

the organisation created or nominated and contracted to provide technical services to the Registration Authority for the development, implementation, maintenance and day-to-day operation of the Registry.

Registration template

a standard template or ‘model’ used to document the registrable artefacts and its submission to the Registry. Each RENA will have a template to provide a common way to submit them for registration.

Registry User

A user of the Registry having access and download rights, including contracting entities and authorities, other public bodies, enterprises, suppliers, service and solution providers, trade associations and academia, as well as submitting entities and governing entities themselves.

3.15

Standards Evaluation Group(s)(SEGs)

domain experts evaluating submissions and nominated by and reporting to the Registration Management Group.

3.16

Submitting entity

entities permitted to be submitters in accordance with a set of criteria established by the Registry and allocated a unique identifier. Also referred to as Submitter

1. The suffix ".Type" has been deleted for readability. [↑](#footnote-ref-1)