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Business Interoperability Interfaces for public procurement in Europe — UBL Syntax Implementation Guideline — Trdm090 Tender

ICS:

Descriptors:

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Foreword

CWA 3456 part 218, **UBL Syntax Implementation Guideline — Trdm090 Tender** was developed in accordance with CEN-CENELEC Guide 29 “CEN/CENELEC Workshop Agreements – The way to rapid agreement” and with the relevant provisions of CEN/CENELEC Internal Regulations - Part 2. It was agreed on 2015-12-02 in a Workshop by representatives of interested parties, approved and supported by CEN following a public call for participation made on 2013-02-20. It does not necessarily reflect the views of all stakeholders that might have an interest in its subject matter.

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This CEN Workshop Agreement (CWA) has been drafted and approved by the Workshop on **Business Interoperability Interfaces for Public procurement in Europe (BII)**, phase 3 – CEN WS/BII 3.

CWA 3456 is part of a set of CWAs prepared by CEN WS/BII 3[[1]](#footnote-1):

CWA 1234:2016 Methodology and Architecture

CWA 2345:2016 Notification profiles and transactions

CWA 3456:2016 Tendering profiles and transactions

CWA 4567:2016 Catalogue profiles and transactions

CWA 5678:2016 Post-award profiles and transactions

CWA 3456 part 218 replaces the annex to CWA 16560:2013, annex D.

CWA 3456 consists of the following Parts:

*Profiles:*

CWA 3456-1 e-Tendering overview

CWA 3456-101 Profile BII11 Advanced Qualification

CWA 3456-102 Profile BII12 Advanced Tendering

CWA 3456-103 Profile BII22 Advanced Call for Tenders

CWA 3456-104 Profile BII34 Advanced Call for Tenders with Pre-award Catalogue Request

CWA 3456-105 Profile BII35 Advanced Tendering with Pre-award Catalogue

CWA 3456-106 Profile BII37 Open Procedure

CWA 3456-107 Profile BII38 Advanced Invitation to Tender

CWA 3456-108 Profile BII39 Restricted Procedure

CWA 3456-109 Profile BII40 Advanced Invitation to Tender with Pre-award Catalogue Request

CWA 3456-110 Profile BII41 European Single Procurement Document (ESPD)

CWA 3456-111 Profile BII46 Subscribe to Procedure

CWA 3456-112 Profile BII47 Call for Tenders

CWA 3456-113 Profile BII48 Call for Tenders Questions and Answers

CWA 3456-114 Profile BII49 Qualification

CWA 3456-115 Profile BII50 Tender Clarification

CWA 3456-116 Profile BII51 Qualification Rejection

CWA 3456-117 Profile BII52 Invitation to Tender

CWA 3456-118 Profile BII53 Tender Withdrawal

CWA 3456-119 Profile BII54 Tendering

CWA 3456-120 Profile BII56 Virtual Company Dossier

CWA 3456-121 Profile BII58 Notify Awarding

CWA 3456-122 Profile BII59 Contracting

CWA 3456-123 Profile BII60 Tender Status Inquiry

*Transaction syntax implementation guidelines (UBL):*

CWA 3456-201 UBL syntax implementation guideline - Trdm040 Advanced Call for Tenders

CWA 3456-203 UBL syntax implementation guideline - Trdm042 Qualification Reception Confirmation

CWA 3456-204 UBL syntax implementation guideline - Trdm044 Advanced Tender

CWA 3456-205 UBL syntax implementation guideline - Trdm045 Tender Reception Notification

CWA 3456-212 UBL syntax implementation guideline - Trdm083 Call for Tenders

CWA 3456-215 UBL syntax implementation guideline - Trdm087 Qualification Rejection

CWA 3456-216 UBL syntax implementation guideline - Trdm088 Invitation to Tender

CWA 3456-218 UBL syntax implementation guideline - Trdm090 Tender

CWA 3456-221 UBL syntax implementation guideline - Trdm094 Awarding Notification

CWA 3456-224 UBL syntax implementation guideline - Trdm105 Call for Tenders with Pre-award Catalogue Request

CWA 3456-227 UBL syntax implementation guideline - Trdm108 Advanced Invitation to Tender

CWA 3456-228 UBL syntax implementation guideline - Trdm109 Advanced Invitation to Tender with Pre-award Catalogue Request

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**Introduction**

The first CEN BII Workshop was established in May 2007 with the objective of harmonising electronic procurement in Europe. The CEN BII initiative, which now comprises a further two CEN Workshops, is a standardisation activity within CEN (European Committee for Standardisation). It provides a framework for interoperability in pan-European electronic transactions expressed as a set of technical specifications.

During the second phase of the initiative (CEN WS/BII 2) a set of technical specifications – “CEN BII Profiles” – were documented and published as five CEN Workshop Agreements (CWAs), which are currently used across Europe. The profiles are designed to facilitate effective public e-procurement based on a modular approach for implementation, with a focus on global interoperability.

The CEN BII profiles can be seen as “agreements” on message contents and business processes. The profile descriptions focus on core information elements that typically cater to the majority of user requirements applicable across Europe and lower the need for detailed bilateral agreements between the trading partners.

In its third phase (CEN WS/BII 3), which began in March 2013 with the approval of the business plan, the Workshop has focused on ensuring that all relevant aspects of e-procurement are covered, including additional business requirements coming from the new Public Procurement Directives[[2]](#footnote-2) and alignment to other standardization efforts in the area of electronic invoicing, as well as ensuring wider recognition and adoption of its deliverables.

More information about the CEN BII initiative can be found on [www.cenbii.eu](http://www.cenbii.eu).

# Scope

This guideline explains how to use the UBL syntax to support the CEN BII information transaction requirements. It provides the syntax mappings from the UBL syntax to the CEN BII information requirement model.

# Goal

The goal of this guideline is to describe the implementation of the CEN BII transaction Trdm090 Tender using the UBL 2.1 Tender document.

Chapter 3 identifies the code lists and identifiers used in the transaction.

Chapter 4 describes selected parts of the document and details how to fill them for specific use cases.

Chapter 5 contains two tables where the mappings to UBL can be found:

1. A table depicting the structure of the elements of the UBL document and their relationship with the CEN BII information requirement model.
2. A detailed table with additional information on the semantics of the BII information requirements and references to the code lists.

Chapter 6 contains a table with the mappings from BII transaction information requirements to the UBL 2.1 syntax.

Chapter 7 contains a list of Schematron files created from the transaction and business rules that can be found in http://www.cenbii.eu/trdm090/ubl/schematron/.

Chapter 8 gives an overview of a use case, with reference to the associated example file that can be found in http://www.cenbii.eu/trdm090/ubl/example/.

# Common Code Lists

## Code Lists for Common Coded Elements

Table below is used for listing the code lists used in the coded elements of this transaction. The XPath points to the actual elements constrained by the code lists identified with the listID.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Business Term** | **Source** | **Subset** | **Xpath** | **listID** |
| Country Code | ISO 3166-1 alpha2[[3]](#footnote-3) | - | cac:Country/cbc:IdentificationCode | ISO3166-1:Alpha2 |
| Document type code | UN/ECE | - | cac:DocumentReference/cbc:DocumentTypeCode | UNCL1001 |
| MIME Media Type Code | IANA[[4]](#footnote-4) | - | cbc:MimeCode | - |

## Identifier Schemes

There are no specific identifier schemes defined for this Syntax Implementation Guideline.

## Process Control

### Specification identification / CustomizationID

An identification of the specification containing the total set of rules regarding semantic content, cardinalities and business rules to which the data contained in the instance document conforms:

Value used for all profiles:

* urn:www.cenbii.eu:transaction:biitrdm090:ver3.0

### Business process type identifier / ProfileID

Identifies the business process context in which the transaction appears. The transaction is used in:

* Profile 12: urn:www.cenbii.eu:profile:bii12:ver3.0
* Profile 35: urn:www.cenbii.eu:profile:bii35:ver3.0
* Profile 54: urn:www.cenbii.eu:profile:bii54:ver3.0

# Descriptions of selected parts of the document

## Parties

### Economic operator

The economic operator is the party submitting the tender, and is any natural or legal person or public entity or group of such persons and/or entities, including any temporary association of undertakings, which offers the execution of works and/or a work, the supply of products or the provision of services on the market.

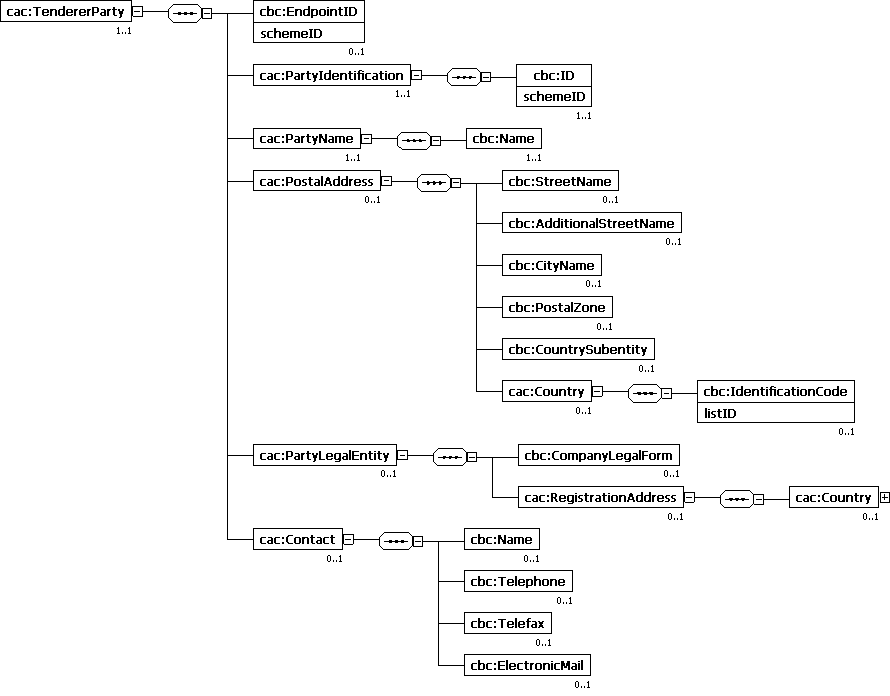


Figure 1 Tenderer party

Economic operator is represented in UBL 2.1 using the cac:TendererParty class, as for example:

<cac:TendererParty>  
 <cbc:EndpointID schemeID="NO:ORGNR">999888777</cbc:EndpointID>  
 <cac:PartyIdentification>  
 <cbc:ID schemeID="ZZZ">T12345678</cbc:ID>  
 </cac:PartyIdentification>  
 <cac:PartyName>  
 <cbc:Name>Tender party</cbc:Name>  
 </cac:PartyName>  
 <cac:PostalAddress>  
 <cbc:StreetName>Storgata 1</cbc:StreetName>  
 <cbc:CityName>OSLO</cbc:CityName>  
 <cbc:PostalZone>0101</cbc:PostalZone>  
 <cac:Country>  
 <cbc:IdentificationCode listID="ISO3166-1:Alpha2">NO

</cbc:IdentificationCode>  
 </cac:Country>  
 </cac:PostalAddress>  
 <cac:Contact>  
 <cbc:Name>Kontaktperson</cbc:Name>  
 <cbc:ElectronicMail>kontaktperson@epost.no</cbc:ElectronicMail>  
 </cac:Contact>  
 </cac:TendererParty>

### Contracting Body

The contracting body is the contracting authority or contracting entity who is buying supplies, services or tendering works.

The contracting body is represented in UBL 2.1 with the cac:ContractingBody class.

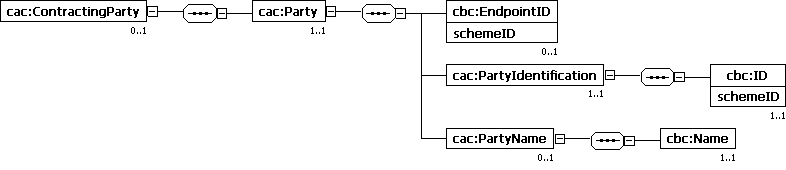


Figure 2 Contracting party

The only required element is the cac:PartyIdentification/cbc:ID class but it is recommended to inform the cbc:EndpointID and the cbc:Name as depicted in the example below :

<cac:ContractingParty>  
 <cac:Party>  
 <cbc:EndpointID schemeID="NO:ORGNR">111222333</cbc:EndpointID>  
 <cac:PartyIdentification>  
 <cbc:ID schemeID="ZZZ">CP98765</cbc:ID>  
 </cac:PartyIdentification>  
 <cac:PartyName>  
 <cbc:Name>Contracting body</cbc:Name>  
 </cac:PartyName>  
 </cac:Party>  
 </cac:ContractingParty>

## 

## Document references

### Procurement project identifier

The identifier specified by the buyer as a reference number for all documents in the procurement process. It is also known as procurement project identifier, procurement reference number or contract folder identifier. In UBL this element is mapped to the cbc:ContractFolderID class.

<cbc:ContractFolderID>REF-8374839</cbc:ContractFolderID>

### Call for tender reference

A reference to the call for tender as issued by the contracting body. Creates a link between the tender and its call for tender. In the UBL mapping this is represented using the cac:DocumentReference class.

You can see the use of these references below:

<cac:DocumentReference>  
 <cbc:ID>CFT123</cbc:ID>  
 <cbc:DocumentTypeCode listID="UNCL1001">311</cbc:DocumentTypeCode>  
 <cbc:VersionID>1</cbc:VersionID>  
 <cbc:DocumentDescription>Call for tender reference</cbc:DocumentDescription>  
 </cac:DocumentReference>

### Attached documents

The class cac:DocumentReference is used to attach the tender documents or their references.

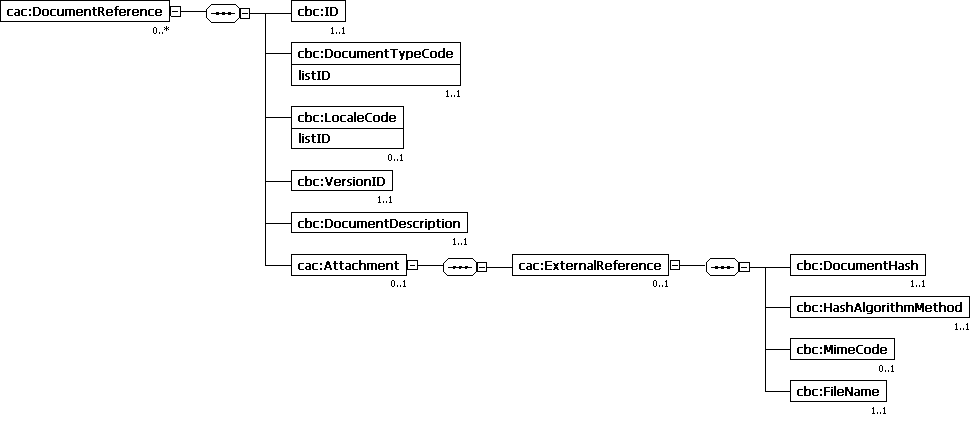


Figure 3 Document reference

Example below shows the attached tender document and its hash and algorithm. The attached tender document is in this example unstructured, but it could also be a structured document (trdm044).

<cac:DocumentReference>  
 <cbc:ID>TEN345</cbc:ID>  
 <cbc:DocumentTypeCode listID="UNCL1001">310</cbc:DocumentTypeCode>  
 <cbc:DocumentDescription>Provided tender document</cbc:DocumentDescription>  
 <cac:Attachment>  
 <cac:ExternalReference>  
 <cbc:DocumentHash>de9f2c7fd25e1b3afad3e85a0bd17d9b100db4b3

</cbc:DocumentHash>  
 <cbc:HashAlgorithmMethod>SHA-1</cbc:HashAlgorithmMethod>

<cbc:MimeCode>application/vnd.ms-powerpointtd

</cbc:MimeCode>  
 <cbc:FileName>Tender.ppt</cbc:FileName>

</cac:ExternalReference>

</cac:Attachment>  
 </cac:DocumentReference>

Below there is an example of an attached specification in pdf format. Note that the MimeCode element is used to specify the type of attachment:

<cac:DocumentReference>  
 <cbc:ID>ISPEC\_1</cbc:ID>  
 <cbc:DocumentTypeCode listID="UNCL1001">6</cbc:DocumentTypeCode>  
 <cbc:DocumentDescription>Detailed item spec.</cbc:DocumentDescription>  
 <cac:Attachment>  
 <cac:ExternalReference>  
 <cbc:DocumentHash>de9f2c7fd25e1b3afad3e85a0bd17d9b100db4b3

</cbc:DocumentHash>  
 <cbc:HashAlgorithmMethod>SHA-1</cbc:HashAlgorithmMethod>  
 <cbc:MimeCode>application/pdf</cbc:MimeCode> <cbc:FileName>Spec.pdf</cbc:FileName>  
 </cac:ExternalReference>  
 </cac:Attachment>  
 </cac:DocumentReference>

## Date and time

In the tender both the issue date and time must be sent. The issue date and time is indicative. The contracting authority shall reply to the tender document with a tender receipt notification where the actual registration date and time for the tender will be indicated.

Issue date is xs:date data type, and the date is specified as "YYYY-MM-DD" where:

* YYYY indicates the year
* MM indicates the month
* DD indicates the day

Issue time is xs:time data type, and the time is specified as "hh:mm:ss" where:

* hh indicates the hour
* mm indicates the minute

ss indicates the second

Issue time must contain the timezone.

<cbc:IssueDate>2015-10-01</cbc:IssueDate>  
<cbc:IssueTime>06:20:21+1:00</cbc:IssueTime>

# Document structure and information content

## Document structure

The table below describes the mapping from the UBL Tender document to the BII Trdm090 Tender requirements.

|  | | **Occurrence** | | **Element/Attribute** **BII Business Term** **Business req.**  **Path** | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | |
|  |  | | **Tender** | | | | | | |
|  | 0 **..** 1 | |  | | **cbc:UBLVersionID** | | | | |
|  | 1 **..** 1 | |  | | **cbc:CustomizationID** **Specification identification** **tir90-013** | | | | |
|  | 1 **..** 1 | |  | | **cbc:ProfileID** **Business process type identifier** **tir90-012** | | | | |
|  | 1 **..** 1 | |  | | **cbc:ID** **Tender identifier** **tir90-001** | | | | |
|  | 1 **..** 1 | |  | | **cbc:ContractFolderID** **Reference number** **tir90-002** | | | | |
|  | 1 **..** 1 | |  | | **cbc:IssueDate** **Tender issue date** **tir90-004** | | | | |
|  | 1 **..** 1 | |  | | **cbc:IssueTime** **Tender issue time** **tir90-005** | | | | |
|  | **0** **..** **unbounded** | |  | | **cac:DocumentReference** | | | | |
|  | 1 **..** 1 | |  | | | **cbc:ID** **Call for tender reference** **tir90-003**  **Document identifier** **tir90-062** | | | |
|  | 1 **..** 1 | |  | | | **cbc:DocumentTypeCode** **Document type code** **tir90-064** | | | |
|  | 0 **..** 1 | |  | | | **cbc:LocaleCode** **Tender language** **tir90-056** | | | |
|  | 1 **..** 1 | |  | | | **cbc:VersionID** **Call for tender version** **tir90-055** | | | |
|  | 1 **..** 1 | |  | | | **cbc:DocumentDescription** **Document description** **tir90-063** | | | |
|  | **0** **..** **1** | |  | | | **cac:Attachment** | | | |
|  | **0** **..** **1** | |  | | | | **cac:ExternalReference** | | |
|  | 1 **..** 1 | |  | | | | | **cbc:DocumentHash** **Document digest** **tir90-067** | |
|  | 1 **..** 1 | |  | | | | | **cbc:HashAlgorithmMethod** **Document digest method code** **tir90-068** | |
|  | 0 **..** 1 | |  | | | | | **cbc:MimeCode** **Document mime type code** **tir90-070** | |
|  | 1 **..** 1 | |  | | | | | **cbc:FileName** **Document name** **tir90-065** | |
|  | **1** **..** **1** | |  | | **cac:TendererParty** **Economic operator** | | | | |
|  | 0 **..** 1 | |  | | | **cbc:EndpointID** **Economic operator electronic** **tir90-060**  **address identifier** | | | |
|  | **1** **..** **1** | |  | | | **cac:PartyIdentification** | | | |
|  | 1 **..** 1 | |  | | | | **cbc:ID** **Economic operator identifier** **tir90-040** | | |
|  | **1** **..** **1** | |  | | | **cac:PartyName** | | | |
|  | 1 **..** 1 | |  | | | | **cbc:Name** **Economic operator name** **tir90-042** | | |
|  | **0** **..** **1** | |  | | | **cac:PostalAddress** | | | |
|  | 0 **..** 1 | |  | | | | **cbc:StreetName** **Address line 1** **tir90-045** | | |
|  | 0 **..** 1 | |  | | | | **cbc:AdditionalStreetName** **Address line 2** **tir90-046** | | |
|  | 0 **..** 1 | |  | | | | **cbc:CityName** **City** **tir90-047** | | |
|  | 0 **..** 1 | |  | | | | **cbc:PostalZone** **Post code** **tir90-048** | | |
|  | 0 **..** 1 | |  | | | | **cbc:CountrySubentity** **Country subdivision** **tir90-049** | | |
|  | **0** **..** **1** | |  | | | | **cac:Country** | | |
|  | 0 **..** 1 | |  | | | | | **cbc:IdentificationCode** **Country code** **tir90-050** | |
|  | **0** **..** **1** | |  | | | **cac:PartyLegalEntity** | | | |
|  | 0 **..** 1 | |  | | | | **cbc:CompanyLegalForm** **Economic operator legal form** **tir90-061** | | |
|  | **0** **..** **1** | |  | | | | **cac:RegistrationAddress** | | |
|  | **0** **..** **1** | |  | | | | | **cac:Country** | |
|  | 0 **..** 1 | |  | | | | | | **cbc:IdentificationCode** **Economic operator registration** **tir90-041**  **country code** |
|  | **0** **..** **1** | |  | | | **cac:Contact** | | | |
|  | 0 **..** 1 | |  | | | | **cbc:Name** **Contact point** **tir90-051** | | |
|  | 0 **..** 1 | |  | | | | **cbc:Telephone** **Contact telephone number** **tir90-053** | | |
|  | 0 **..** 1 | |  | | | | **cbc:Telefax** **Contact fax number** **tir90-052** | | |
|  | 0 **..** 1 | |  | | | | **cbc:ElectronicMail** **Contact email address** **tir90-054** | | |
|  | **0** **..** **1** | |  | | **cac:ContractingParty** **Contracting body** | | | | |
|  | **1** **..** **1** | |  | | | **cac:Party** | | | |
|  | 0 **..** 1 | |  | | | | **cbc:EndpointID** **Contracting body electronic address** **tir90-020**  **identifier** | | |
|  | **1** **..** **1** | |  | | | | **cac:PartyIdentification** | | |
|  | 1 **..** 1 | |  | | | | | **cbc:ID** **Contracting body identifier** **tir90-014** | |
|  | **0** **..** **1** | |  | | | | **cac:PartyName** | | |
|  | 1 **..** 1 | |  | | | | | **cbc:Name** **Contracting body name** **tir90-016** | |
|  | **1** **..** **unbounded** | |  | | **cac:TenderedProject** | | | | |
|  | **0** **..** **1** | |  | | | **cac:ProcurementProjectLot** | | | |
|  | 1 **..** 1 | |  | | | | **cbc:ID** **Lot identifier** **tir90-069** | | |

## Document guideline

Detailed description of the mapping between the UBL Tender and the BII Trdm090 Tender requirement model.

| **Element/Attribute** | | | | | | | **Description** | **Usage/Rules/Code lists** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | |  |  |
| **Tender** | | | | | | | **Type** TenderType |  |
|  | **cbc:UBLVersionID** | | | | | | **Occurrence** 0 **..** 1  **Type** cbc:UBLVersionIDType |  |
|  | **cbc:CustomizationID** | | | | | | **Occurrence** 1 **..** 1  **Type** cbc:CustomizationIDType  **Info req.ID** tir90-013  **Bus req.ID** tbr90-001 | **BII Mapping** **Specification identification**  **BII Usage** *An identification of the specification containing the total*  *set of rules regarding semantic content, cardinalities and*  *business rules to which the data contained in the*  *instance document conforms.*  *The identification may include the version of the*  *specification as well as any customizations applied.*    **Rules** BII3-T90-R001 |
|  | **cbc:ProfileID** | | | | | | **Occurrence** 1 **..** 1  **Type** cbc:ProfileIDType  **Info req.ID** tir90-012  **Bus req.ID** tbr90-001 | **BII Mapping** **Business process type identifier**  **BII Usage** *Identifies the business process context in which the*  *transaction appears.*    **Rules** BII3-T90-R002 |
|  | **cbc:ID** | | | | | | **Occurrence** 1 **..** 1  **Type** cbc:IDType  **Info req.ID** tir90-001  **Bus req.ID** tbr90-005 | **BII Mapping** **Tender identifier**  **BII Usage** *Identifier of the tender document.*    **Rules** BII3-T90-R008 |
|  | **cbc:ContractFolderID** | | | | | | **Occurrence** 1 **..** 1  **Type** cbc:ContractFolderIDType  **Info req.ID** tir90-002  **Bus req.ID** tbr90-006 | **BII Mapping** **Reference number**  **BII Usage** *An identifier that is specified by the buyer and used as a*  *reference number for all documents in the procurement*  *process. It is also known as procurement project*  *identifier, procurement reference number or contract*  *folder identifier.*    **Rules** BII3-T90-R009 |
|  | **cbc:IssueDate** | | | | | | **Occurrence** 1 **..** 1  **Type** cbc:IssueDateType  **Info req.ID** tir90-004  **Bus req.ID** tbr90-004 | **BII Mapping** **Tender issue date**  **BII Usage** *The date when the tender is issued by the economic*  *operator.*    **Rules** BII3-T90-R005 |
|  | | | | | | |  |  |
|  | **cbc:IssueTime** | | | | | | **Occurrence** 1 **..** 1  **Type** cbc:IssueTimeType  **Info req.ID** tir90-005  **Bus req.ID** tbr90-004 | **BII Mapping** **Tender issue time**  **BII Usage** *The time when the tender is issued by the economic*  *operator. The time zone has to be informed  following the*  *BII Guideline on Data Formats.*    **Rules** BII3-T90-R006; BII3-T90-R007 |
|  | ***cac:DocumentReference*** | | | | | | **Occurrence** 0 **..** unbounded  **Type** cac:DocumentReferenceType | ***Rules*** *BII3-T90-R012* |
|  | | **cbc:ID** | | | | | **Occurrence** 1 **..** 1  **Type** cbc:IDType  **Info req.ID** tir90-003  tir90-062  **Bus req.ID** tbr90-006  tbr90-011    **XML Note** With DocumentTypeCode = 310 (Tender)  With DocumentTypeCode = 311 (Call for Tenders) | **BII Mapping** **Call for tender reference**  **Document identifier**  **BII Usage** *A reference to the call for tender as issued by the*  *contracting body. Creates a link between the call for*  *tender and the tender.*  *Identifier of a document*    **Rules** BII3-T90-R010;BII3-T90-R013 |
|  | | **cbc:DocumentTypeCode** | | | | | **Occurrence** 1 **..** 1  **Type** cbc:DocumentTypeCodeType  **Info req.ID** tir90-064  **Bus req.ID** tbr90-011 | **BII Mapping** **Document type code**  **BII Usage** *A code specifying the type of the document.*  *Use Code List UN 1001*  **Code List ID:** Constrained by the code list UN/ECE 1001  **Rules** BII3-T90-R015; CL-T90-R003 |
|  | | | *listID* | | | | *Type* *xs:normalizedString*  *Use* *optional* | *Rules* *BII3-T90-R021* |
|  | | **cbc:LocaleCode** | | | | | **Occurrence** 0 **..** 1  **Type** cbc:LocaleCodeType  **Info req.ID** tir90-056  **Bus req.ID** tbr90-010 | **BII Mapping** **Tender language**  **BII Usage** *The language used to write the tender.* |
|  | | | *listID* | | | | *Type* *xs:normalizedString*  *Use* *optional* |  |
|  | | **cbc:VersionID** | | | | | **Occurrence** 1 **..** 1  **Type** cbc:VersionIDType  **Info req.ID** tir90-055  **Bus req.ID** tbr90-006    **XML Note** With DocumentTypeCode = 310 (Tender) | **BII Mapping** **Call for tender version**  **BII Usage** *Identifies the version of the call for tenders.*    **Rules** BII3-T90-R011 |
|  | | **cbc:DocumentDescription** | | | | | **Occurrence** 1 **..** 1  **Type** cbc:DocumentDescriptionType  **Info req.ID** tir90-063  **Bus req.ID** tbr90-011 | **BII Mapping** **Document description**  **BII Usage** *Textual description of the document.*    **Rules** BII3-T90-R014 |
|  | | ***cac:Attachment*** | | | | | **Occurrence** 0 **..** 1  **Type** cac:AttachmentType |  |
|  | | | | | | |  |  |
|  | | | ***cac:ExternalReference*** | | | | **Occurrence** 0 **..** 1  **Type** cac:ExternalReferenceType |  |
|  | | | | **cbc:DocumentHash** | | | **Occurrence** 1 **..** 1  **Type** cbc:DocumentHashType  **Info req.ID** tir90-067  **Bus req.ID** tbr90-011 | **BII Mapping** **Document digest**  **BII Usage** *Digest of the document.*    **Rules** BII3-T90-R017 |
|  | | | | **cbc:HashAlgorithmMethod** | | | **Occurrence** 1 **..** 1  **Type** cbc:HashAlgorithmMethodType  **Info req.ID** tir90-068  **Bus req.ID** tbr90-011 | **BII Mapping** **Document digest method code**  **BII Usage** *Code that indicates the algorithm used to calculate the*  *hash.*    **Rules** BII3-T90-R018 |
|  | | | | **cbc:MimeCode** | | | **Occurrence** 0 **..** 1  **Type** cbc:MimeCodeType  **Info req.ID** tir90-070  **Bus req.ID** tbr90-011 | **BII Mapping** **Document mime type code**  **BII Usage** *Stands for "Multipurpose Internet Mail Extensions". It's a*  *way of identifying files  according to their nature and*  *format.*  **Code List ID:** Constrained by the Mime code list.    **Rules** CL-T90-R002 |
|  | | | | **cbc:FileName** | | | **Occurrence** 1 **..** 1  **Type** cbc:FileNameType  **Info req.ID** tir90-065  **Bus req.ID** tbr90-011 | **BII Mapping** **Document name**  **BII Usage** *The file name of the document.*    **Rules** BII3-T90-R016 |
|  | ***cac:TendererParty*** | | | | | | **Occurrence** 1 **..** 1  **Type** cac:PartyType | ***Rules*** *BII3-T90-R003* |
|  | | **cbc:EndpointID** | | | | | **Occurrence** 0 **..** 1  **Type** cbc:EndpointIDType  **Info req.ID** tir90-060  **Bus req.ID** tbr90-007 | **BII Mapping** **Economic operator electronic address identifier**  **BII Usage** *Electronic address of the economic operator.* |
|  | | | *schemeID* | | | | *Type* *xs:normalizedString*  *Use* *optional* |  |
|  | | ***cac:PartyIdentification*** | | | | | **Occurrence** 1 **..** 1  **Type** cac:PartyIdentificationType |  |
|  | | | **cbc:ID** | | | | **Occurrence** 1 **..** 1  **Type** cbc:IDType  **Info req.ID** tir90-040  **Bus req.ID** tbr90-007 | **BII Mapping** **Economic operator identifier**  **BII Usage** *An identifier that identifies the economic operator, such*  *as a legal registration identifier.* |
|  | | | | *schemeID* | | | *Type* *xs:normalizedString*  *Use* *optional* |  |
|  | | ***cac:PartyName*** | | | | | **Occurrence** 1 **..** 1  **Type** cac:PartyNameType |  |
|  | | | | | | |  |  |
|  | | | **cbc:Name** | | | | **Occurrence** 1 **..** 1  **Type** cbc:NameType  **Info req.ID** tir90-042  **Bus req.ID** tbr90-007 | **BII Mapping** **Economic operator name**  **BII Usage** *The name of the economic operator.* |
|  | | ***cac:PostalAddress*** | | | | | **Occurrence** 0 **..** 1  **Type** cac:AddressType |  |
|  | | | **cbc:StreetName** | | | | **Occurrence** 0 **..** 1  **Type** cbc:StreetNameType  **Info req.ID** tir90-045  **Bus req.ID** tbr90-007 | **BII Mapping** **Address line 1**  **BII Usage** *The main address line in an address.*  *Usually the street name and number or post office box.* |
|  | | | **cbc:AdditionalStreetName** | | | | **Occurrence** 0 **..** 1  **Type** cbc:AdditionalStreetNameType  **Info req.ID** tir90-046  **Bus req.ID** tbr90-007 | **BII Mapping** **Address line 2**  **BII Usage** *An additional address line in an address that can be*  *used to give further details supplementing the main line.* |
|  | | | **cbc:CityName** | | | | **Occurrence** 0 **..** 1  **Type** cbc:CityNameType  **Info req.ID** tir90-047  **Bus req.ID** tbr90-007 | **BII Mapping** **City**  **BII Usage** *The common name of a city where the address is*  *located.* |
|  | | | **cbc:PostalZone** | | | | **Occurrence** 0 **..** 1  **Type** cbc:PostalZoneType  **Info req.ID** tir90-048  **Bus req.ID** tbr90-007 | **BII Mapping** **Post code**  **BII Usage** *The identifier for an addressable group of properties*  *according to the relevant postal service, such as a ZIP*  *code or Post Code.* |
|  | | | **cbc:CountrySubentity** | | | | **Occurrence** 0 **..** 1  **Type** cbc:CountrySubentityType  **Info req.ID** tir90-049  **Bus req.ID** tbr90-007 | **BII Mapping** **Country subdivision**  **BII Usage** *The subdivision of a country such as region, county,*  *state, province etc.* |
|  | | | ***cac:Country*** | | | | **Occurrence** 0 **..** 1  **Type** cac:CountryType |  |
|  | | | | | | |  |  |
|  | | | | **cbc:IdentificationCode** | | | **Occurrence** 0 **..** 1  **Type** cbc:IdentificationCodeType  **Info req.ID** tir90-050  **Bus req.ID** tbr90-007 | **BII Mapping** **Country code**  **BII Usage** *A code that identifies the country.*  *The lists of valid countries are registered with the ISO*  *3166-1 Maintenance agency, "Codes for the*  *representation of names of countries and their*  *subdivisions". It is recommended to use the alpha-2*  *representation.*  **Code List ID:** Constrained by the country code ISO 3166, alpha 2 code  list.    **Rules** CL-T90-R001 |
|  | | | | | *listID* | | *Type* *xs:normalizedString*  *Use* *optional* | *Rules* *BII3-T90-R020* |
|  | | ***cac:PartyLegalEntity*** | | | | | **Occurrence** 0 **..** 1  **Type** cac:PartyLegalEntityType |  |
|  | | | **cbc:CompanyLegalForm** | | | | **Occurrence** 0 **..** 1  **Type** cbc:CompanyLegalFormType  **Info req.ID** tir90-061  **Bus req.ID** tbr90-007 | **BII Mapping** **Economic operator legal form**  **BII Usage** *A textual description of the legal form of the economic*  *operator.* |
|  | | | ***cac:RegistrationAddress*** | | | | **Occurrence** 0 **..** 1  **Type** cac:AddressType |  |
|  | | | | ***cac:Country*** | | | **Occurrence** 0 **..** 1  **Type** cac:CountryType |  |
|  | | | | | **cbc:IdentificationCode** | | **Occurrence** 0 **..** 1  **Type** cbc:IdentificationCodeType  **Info req.ID** tir90-041  **Bus req.ID** tbr90-007 | **BII Mapping** **Economic operator registration country code**  **BII Usage** *The registration country code of the economic operator.*  **Code List ID:** Constrained by the country code ISO 3166, alpha 2 code  list.    **Rules** CL-T90-R001 |
|  | | | | | | *listID* | *Type* *xs:normalizedString*  *Use* *required* | *Rules* *BII3-T90-R020* |
|  | | ***cac:Contact*** | | | | | **Occurrence** 0 **..** 1  **Type** cac:ContactType |  |
|  | | | **cbc:Name** | | | | **Occurrence** 0 **..** 1  **Type** cbc:NameType  **Info req.ID** tir90-051  **Bus req.ID** tbr90-007 | **BII Mapping** **Contact point**  **BII Usage** *The name of the contact point.* |
|  | | | **cbc:Telephone** | | | | **Occurrence** 0 **..** 1  **Type** cbc:TelephoneType  **Info req.ID** tir90-053  **Bus req.ID** tbr90-007 | **BII Mapping** **Contact telephone number**  **BII Usage** *A phone number for the contact point.* |
|  | | | | | | |  |  |
|  | | | **cbc:Telefax** | | | | **Occurrence** 0 **..** 1  **Type** cbc:TelefaxType  **Info req.ID** tir90-052  **Bus req.ID** tbr90-007 | **BII Mapping** **Contact fax number**  **BII Usage** *A fax number for the contact point.* |
|  | | | **cbc:ElectronicMail** | | | | **Occurrence** 0 **..** 1  **Type** cbc:ElectronicMailType  **Info req.ID** tir90-054  **Bus req.ID** tbr90-007 | **BII Mapping** **Contact email address**  **BII Usage** *An e-mail address for the contact point.* |
|  | ***cac:ContractingParty*** | | | | | | **Occurrence** 0 **..** 1  **Type** cac:ContractingPartyType | ***Rules*** *BII3-T90-R004* |
|  | | ***cac:Party*** | | | | | **Occurrence** 1 **..** 1  **Type** cac:PartyType |  |
|  | | | **cbc:EndpointID** | | | | **Occurrence** 0 **..** 1  **Type** cbc:EndpointIDType  **Info req.ID** tir90-020  **Bus req.ID** tbr90-003 | **BII Mapping** **Contracting body electronic address identifier**  **BII Usage** *Electronic address of the contracting body.* |
|  | | | | *schemeID* | | | *Type* *xs:normalizedString*  *Use* *optional* |  |
|  | | | ***cac:PartyIdentification*** | | | | **Occurrence** 1 **..** 1  **Type** cac:PartyIdentificationType |  |
|  | | | | **cbc:ID** | | | **Occurrence** 1 **..** 1  **Type** cbc:IDType  **Info req.ID** tir90-014  **Bus req.ID** tbr90-003 | **BII Mapping** **Contracting body identifier**  **BII Usage** *The national identifier of a contracting body as it is*  *legally registered (e.g. VAT identification, such as KBO)* |
|  | | | | | *schemeID* | | *Type* *xs:normalizedString*  *Use* *optional* |  |
|  | | | ***cac:PartyName*** | | | | **Occurrence** 0 **..** 1  **Type** cac:PartyNameType |  |
|  | | | | **cbc:Name** | | | **Occurrence** 1 **..** 1  **Type** cbc:NameType  **Info req.ID** tir90-016  **Bus req.ID** tbr90-003 | **BII Mapping** **Contracting body name**  **BII Usage** *The name of the contracting body as it is registered.* |
|  | ***cac:TenderedProject*** | | | | | | **Occurrence** 1 **..** unbounded  **Type** cac:TenderedProjectType |  |
|  | | ***cac:ProcurementProjectLot*** | | | | | **Occurrence** 0 **..** 1  **Type** cac:ProcurementProjectLotType |  |
|  | | | | | | |  |  |
|  | | | **cbc:ID** | | | | **Occurrence** 1 **..** 1  **Type** cbc:IDType  **Info req.ID** tir90-069  **Bus req.ID** tbr90-011    **XML Note** When the tender refers to a specific lot. | **BII Mapping** **Lot identifier**  **BII Usage** *An identifier for the lot.* |

# Information Requirement Model to UBL mapping

The table below describes the reverse mapping from the Trdm090 Tender to the UBL Tender document.

| **No** | **Length** | **Occurrence** | **Element** | **Length** | **Occurrence** | **Element** |
| --- | --- | --- | --- | --- | --- | --- |
| 001 |  | 1 **..** 1 | **Tender identifier**  *Path:*  Tender/Tender identifier |  | 1 **..** 1 | **cbc:ID**  *Path:*  Tender/cbc:ID |
| 002 |  | 1 **..** 1 | **Reference number**  *Path:*  Tender/Reference number |  | 1 **..** 1 | **cbc:ContractFolderID**  *Path:*  Tender/cbc:ContractFolderID |
| 003 |  | 1 **..** 1 | **Call for tender reference**  *Path:*  Tender/Call for tender reference |  | 1 **..** 1 | **cbc:ID**  *Path:*  Tender/cac:DocumentReference/cbc:ID |
| 004 |  | 1 **..** 1 | **Call for tender version**  *Path:*  Tender/Call for tender version |  | 1 **..** 1 | **cbc:VersionID**  *Path:*  Tender/cac:DocumentReference/cbc:VersionID |
| 005 |  | 0 **..** 1 | **Tender language**  *Path:*  Tender/Tender language |  | 0 **..** 1 | **cbc:LocaleCode**  *Path:*  Tender/cac:DocumentReference/cbc:LocaleCode |
| 006 |  | 1 **..** 1 | **Tender issue date**  *Path:*  Tender/Tender issue date |  | 1 **..** 1 | **cbc:IssueDate**  *Path:*  Tender/cbc:IssueDate |
| 007 |  | 1 **..** 1 | **Tender issue time**  *Path:*  Tender/Tender issue time |  | 1 **..** 1 | **cbc:IssueTime**  *Path:*  Tender/cbc:IssueTime |
| 008 |  | 1 **..** 1 | **Business process type identifier**  *Path:*  Tender/Process control/Business process type identifier |  | 1 **..** 1 | **cbc:ProfileID**  *Path:*  Tender/cbc:ProfileID |
| 009 |  | 1 **..** 1 | **Specification identification**  *Path:*  Tender/Process control/Specification identification |  | 1 **..** 1 | **cbc:CustomizationID**  *Path:*  Tender/cbc:CustomizationID |
| 010 |  | 0 **..** 1 | **Contracting body name**  *Path:*  Tender/Contracting body/Contracting body name |  | 1 **..** 1 | **cbc:Name**  *Path:*  Tender/cac:ContractingParty/cac:Party/cac:PartyName/  cbc:Name |
| 011 |  | 0 **..** 1 | **Contracting body identifier**  *Path:*  Tender/Contracting body/Contracting body identifier |  | 1 **..** 1 | **cbc:ID**  *Path:*  Tender/cac:ContractingParty/cac:Party/cac:  PartyIdentification/cbc:ID |
| 012 |  | 0 **..** 1 | **Contracting body electronic address identifier**  *Path:*  Tender/Contracting body/Contracting body electronic  address identifier |  | 0 **..** 1 | **cbc:EndpointID**  *Path:*  Tender/cac:ContractingParty/cac:Party/cbc:EndpointID |
| 013 |  | 1 **..** 1 | **Economic operator identifier**  *Path:*  Tender/Economic operator/Economic operator identifier |  | 1 **..** 1 | **cbc:ID**  *Path:*  Tender/cac:TendererParty/cac:PartyIdentification/cbc:ID |
| 014 |  | 0 **..** 1 | **Economic operator registration country code**  *Path:*  Tender/Economic operator/Economic operator registration  country code |  | 0 **..** 1 | **cbc:IdentificationCode**  *Path:*  Tender/cac:TendererParty/cac:PartyLegalEntity/cac:  RegistrationAddress/cac:Country/cbc:IdentificationCode |
| 015 |  | 1 **..** 1 | **Economic operator name**  *Path:*  Tender/Economic operator/Economic operator name |  | 1 **..** 1 | **cbc:Name**  *Path:*  Tender/cac:TendererParty/cac:PartyName/cbc:Name |
| 016 |  | 0 **..** 1 | **Economic operator electronic address identifier**  *Path:*  Tender/Economic operator/Economic operator electronic  address identifier |  | 0 **..** 1 | **cbc:EndpointID**  *Path:*  Tender/cac:TendererParty/cbc:EndpointID |
| 017 |  | 0 **..** 1 | **Economic operator legal form**  *Path:*  Tender/Economic operator/Economic operator legal form |  | 0 **..** 1 | **cbc:CompanyLegalForm**  *Path:*  Tender/cac:TendererParty/cac:PartyLegalEntity/cbc:  CompanyLegalForm |
| 018 |  | 0 **..** 1 | **Address line 1**  *Path:*  Tender/Economic operator/Postal address/Address line 1 |  | 0 **..** 1 | **cbc:StreetName**  *Path:*  Tender/cac:TendererParty/cac:PostalAddress/cbc:  StreetName |
| 019 |  | 0 **..** 1 | **Address line 2**  *Path:*  Tender/Economic operator/Postal address/Address line 2 |  | 0 **..** 1 | **cbc:AdditionalStreetName**  *Path:*  Tender/cac:TendererParty/cac:PostalAddress/cbc:  AdditionalStreetName |
| 020 |  | 0 **..** 1 | **City**  *Path:*  Tender/Economic operator/Postal address/City |  | 0 **..** 1 | **cbc:CityName**  *Path:*  Tender/cac:TendererParty/cac:PostalAddress/cbc:  CityName |
| 021 |  | 0 **..** 1 | **Post code**  *Path:*  Tender/Economic operator/Postal address/Post code |  | 0 **..** 1 | **cbc:PostalZone**  *Path:*  Tender/cac:TendererParty/cac:PostalAddress/cbc:  PostalZone |
| 022 |  | 0 **..** 1 | **Country subdivision**  *Path:*  Tender/Economic operator/Postal address/Country  subdivision |  | 0 **..** 1 | **cbc:CountrySubentity**  *Path:*  Tender/cac:TendererParty/cac:PostalAddress/cbc:  CountrySubentity |
| 023 |  | 0 **..** 1 | **Country code**  *Path:*  Tender/Economic operator/Postal address/Country code |  | 0 **..** 1 | **cbc:IdentificationCode**  *Path:*  Tender/cac:TendererParty/cac:PostalAddress/cac:  Country/cbc:IdentificationCode |
| 024 |  | 0 **..** 1 | **Contact point** |  | 0 **..** 1 | **cbc:Name** |
|  |  |  | *Path:*  Tender/Economic operator/Contacting details/Contact  point |  |  | *Path:*  Tender/cac:TendererParty/cac:Contact/cbc:Name |
| 025 |  | 0 **..** 1 | **Contact fax number**  *Path:*  Tender/Economic operator/Contacting details/Contact fax  number |  | 0 **..** 1 | **cbc:Telefax**  *Path:*  Tender/cac:TendererParty/cac:Contact/cbc:Telefax |
| 026 |  | 0 **..** 1 | **Contact telephone number**  *Path:*  Tender/Economic operator/Contacting details/Contact  telephone number |  | 0 **..** 1 | **cbc:Telephone**  *Path:*  Tender/cac:TendererParty/cac:Contact/cbc:Telephone |
| 027 |  | 0 **..** 1 | **Contact email address**  *Path:*  Tender/Economic operator/Contacting details/Contact  email address |  | 0 **..** 1 | **cbc:ElectronicMail**  *Path:*  Tender/cac:TendererParty/cac:Contact/cbc:ElectronicMail |
| 028 |  | 1 **..** 1 | **Document identifier**  *Path:*  Tender/Provided document/Document identifier |  | 1 **..** 1 | **cbc:ID**  *Path:*  Tender/cac:DocumentReference/cbc:ID |
| 029 |  | 1 **..** 1 | **Document description**  *Path:*  Tender/Provided document/Document description |  | 1 **..** 1 | **cbc:DocumentDescription**  *Path:*  Tender/cac:DocumentReference/cbc:  DocumentDescription |
| 030 |  | 1 **..** 1 | **Document type code**  *Path:*  Tender/Provided document/Document type code |  | 1 **..** 1 | **cbc:DocumentTypeCode**  *Path:*  Tender/cac:DocumentReference/cbc:DocumentTypeCode |
| 031 |  | 1 **..** 1 | **Document name**  *Path:*  Tender/Provided document/Document name |  | 1 **..** 1 | **cbc:FileName**  *Path:*  Tender/cac:DocumentReference/cac:Attachment/cac:  ExternalReference/cbc:FileName |
| 032 |  | 0 **..** 1 | **Document mime type code**  *Path:*  Tender/Provided document/Document mime type code |  | 0 **..** 1 | **cbc:MimeCode**  *Path:*  Tender/cac:DocumentReference/cac:Attachment/cac:  ExternalReference/cbc:MimeCode |
| 033 |  | 1 **..** 1 | **Document digest**  *Path:*  Tender/Provided document/Document digest |  | 1 **..** 1 | **cbc:DocumentHash**  *Path:*  Tender/cac:DocumentReference/cac:Attachment/cac:  ExternalReference/cbc:DocumentHash |
| 034 |  | 1 **..** 1 | **Document digest method code**  *Path:*  Tender/Provided document/Document digest method  code |  | 1 **..** 1 | **cbc:HashAlgorithmMethod**  *Path:*  Tender/cac:DocumentReference/cac:Attachment/cac:  ExternalReference/cbc:HashAlgorithmMethod |
| 035 |  | 0 **..** 1 | **Lot identifier**  *Path:*  Tender/Provided document/Lot identifier |  | 1 **..** 1 | **cbc:ID**  *Path:*  Tender/cac:TenderedProject/cac:  ProcurementProjectLot/cbc:ID |

## Missing information requirements

The following information requirements are not mapped to the UBL 2.1 Tender document type:

| Element | Remark |
| --- | --- |
| tir90-066 - Document size | It is not possible to specify the file size for the provided document. |

# Schematron files

All Schematron files can be found in: http://www.cenbii.eu/trdm090/ubl/schematron/semantics/

|  |  |  |
| --- | --- | --- |
|  | Filename | Description |
| Main | BIIRULES-UBL-T90.sch | Main file used to bundle the different Schematron parts. |
| Abstract | abstract/BIIRULES-T90.sch | Abstract business rules. |
| CodeList | codelist/BIIRULESCodesT90-UBL.sch | Rules related to code lists. |
| UBL Binding | UBL/BIIRULES-UBL-T90.sch | Syntax binding using XPATH expressions. |

# Sample XML files

## Use case 1, trdm090 used in profile 54

|  |  |
| --- | --- |
| **Use Case number** | 1 |
| Use Case Name | Simple tender metadata, profile 54 |
| Use Case Description | In this scenario the transaction is used in profile 54 – Tendering, where all tender documents are given using unstructured attachments. |
| Parties involved | Economic operator  Contracting body |
| Assumptions | Tender metadata contains:   * Reference to call for tender * Reference to tender document * Reference to attached item specification * Lot ID |
| The flow | The Economic operator sends a tender to the contracting body |
| XML example file | http://www.cenbii.eu/trdm090/ubl/example/UseCase1-trdm090.xml |

1. In order to ease the reading the CWAs provided by the CEN BII initiative, they are also made available on <http://www.cenbii.eu> together with explanatory notes and supporting material. The official version is however the version as published by CEN. [↑](#footnote-ref-1)
2. Directive 2014/24/EU on public procurement – replaces Directive 2004/18/EC ("classic Directive"), Directive 2014/25/EU on procurement by entities operating in the water, energy, transport and postal services sectors – replaces Directive 2004/17/EC ("utilities Directive"), and Directive 2014/23/EU on the award of concession contracts (new) [↑](#footnote-ref-2)
3. <http://www.iso.org/iso/home/standards/country_codes.htm> [↑](#footnote-ref-3)
4. <http://www.iana.org/assignments/media-types> [↑](#footnote-ref-4)