

eForms regulation vs Schemas

1 Introduction

Some discrepancies exist between the eForms regulation annex and the UBL based schemas, these have multiple backgrounds:

- Implicit requirements from the regulation annex,
- Differences in the way information is modelled,
- Requirements of the standard used (UBL).

These discrepancies may be classified in two categories:

- DataType mismatches,
- Added/removed fields.

It should be underlined that the discrepancies do not affect the informational requirements of the regulation.

2 DataType mismatches

The list of datatype mismatches is provided in **Table 1**.

Table 1 - eForms regulation annex vs eForms XSD DataType differences

BT ID	BT Name	eForms DataType	XSD DataType	Comment
BT-702	Notice Official Language	Code	Code/Identifier	For language identification, two different approaches exist in UBL: Code or Identifier. Choice of the DataType is driven by the XML context: using a code or using an identifier. Whatever the DataType, wherever a language has to be identified, it has to be one of the codes of the Authoritative codelist published on EU Vocabularies
BT-708 BT-737 BT-97	Documents Official Language Documents Unofficial Language Submission Language	Code	Identifier	Although of type Identifier (UBL design), the values to be used shall be one of the codes of the Authoritative codelist published on EU Vocabularies
BT-08 BT-770	Organisation Role Organisation Subrole	Code	NA/Code	Difference in models: - dedicated ComplexType elements in UBL (NA), - code where necessary
BT-03	Form Type	Code	Text	UBL element attribute value; text to be used is one of the codes from the "form-type" codelist
BT-26	Classification Type	Code	Text	UBL element attribute value; text to be used is one of the codes from the "classification" codelist. Codelist to be defined for later evolutions.
BT-727	Place Performance Services Other	Code	Text	UBL element of type text, content shall be one of the codes from the authoritative "other-place-service" codelist
BT-01	Procedure Legal Basis	Code	Text/Code	For EU legal basis, element of type text with expected values from the authoritative "legal-basis" codelist. For other Legal Basis, existence of elements of type Code & Text, the first one to be used with celex or ELI codes and the second with text
BT-05	Notice Dispatch Date	Date	DateTime + TimeType	Use of 2 UBL elements. Time information required in addition to date.
BT-13	Additional Information Deadline	Date	DateTime + TimeType	Use of 2 UBL elements. Time information required in addition to date.
BT-800	Deadline Receipt Answers	Date	DateTime + TimeType	Use of 2 UBL elements. Time information required in addition to date.

BT ID	BT Name	eForms DataType	XSD DataType	Comment
BT-630	Deadline Receipt Expressions	Date	DateType + TimeType	Use of 2 UBL elements. Time information required in addition to date.
BT-1311	Deadline Receipt Requests	Date	DateType + TimeType	Use of 2 UBL elements. Time information required in addition to date.
BT-131	Deadline Receipt Tenders	Date	DateType + TimeType	Use of 2 UBL elements. Time information required in addition to date.
BT-132	Public Opening Date	Date	DateType + TimeType	Use of 2 UBL elements. Time information required in addition to date.
BT-36	Duration Period	Duration	Measure	UBL elements of type Measure with a mandatory unitCode attribute. Code to be chosen from the Authoritative "timeperiod" codelist
BT-98	Tender Validity Deadline	Duration	Measure	UBL elements of type Measure with a mandatory unitCode attribute. Code to be chosen from the Authoritative "timeperiod" codelist
BT-195	Unpublished Identifier	Identifier	Code	DG GROW had initially foreseen codes to identify elements subject to delayed publication (unpublish). List not yet official but intention to use it persists.
BT-5011	Contract EU Funds Identifier	Identifier	Code	Element of type Code with code from the authoritative codelist "eu-programme"
BT-13720	Organisation Notice Section Identifier	Identifier	N/A	These identifiers (e.g.: reference to lot/group of lots, Contract tender identifier ...) are <i>de facto</i> deduced from the UBL construction.
BT-557	Group Framework Estimated Maximum Value Lot Identifier	Identifier	N/A	
BT-1372	Place Performance Lot Identifier	Identifier	N/A	
BT-1373	Duration Lot Identifier	Identifier	N/A	
BT-1374	Funds Lot Identifier	Identifier	N/A	
BT-1376	Second Stage Lot Identifier	Identifier	N/A	
BT-1377	Rewards Lot Identifier	Identifier	N/A	
BT-1378	Selection Lot Identifier	Identifier	N/A	
BT-1379	Requirements Lot Identifier	Identifier	N/A	
BT-13717	Terms Lot Identifier	Identifier	N/A	
BT-13710	Award Criteria Lot Identifier	Identifier	N/A	
BT-13711	Techniques Lot Identifier	Identifier	N/A	
BT-13712	Communication Lot Identifier	Identifier	N/A	
BT-13718	Documents Lot Identifier	Identifier	N/A	
BT-13719	Submission Lot Identifier	Identifier	N/A	
BT-556	Group Framework Value Lot Identifier	Identifier	N/A	
BT-13713	Result Lot Identifier	Identifier	N/A	
BT-13714	Tender Lot Identifier	Identifier	N/A	
BT-3202	Contract Tender Identifier	Identifier	N/A	
BT-	Strategic Procurement Notice	Identifier	N/A	

BT ID	BT Name	eForms DataType	XSD DataType	Comment
13721	Section Identifier			
BT-13722	Buyer Review Lot Identifier	Identifier	N/A	
BT-13715	Additional Information Lot Identifier	Identifier	N/A	
BT-1252	Direct Award Justification Previous Procedure Identifier	Identifier	Text	Element of TextType in UBL, expected value is a valid identifier of the previous procedure that allows the direct award.
BT-633	Organisation Natural Person	Indicator	Code	"legal-person" technical codelist with 2 values "natural-person" (true) and "juridical-person" (false)
BT-740	Buyer Contracting Entity	Indicator	Code	"buyer-contracting-type" technical codelist with 2 values "cont-ent" (true) and "not-cont-ent" (false)
BT-746	Winner Listed	Indicator	Code	"winner-listed" technical codelist with 2 values "true" and "false"
BT-60	EU Funds	Indicator	Code	"eu-funded" technical codelist with 2 values "eu-funds" (true) and "no-eu-funds" (false).
BT-106	Procedure Accelerated	Indicator	Code	"accelerated-procedure" technical codelist with 2 values "true" and "false"
BT-763	Lots All Required	Indicator	Code	"tenderlot-presentation" technical codelist with 2 values "all-lots" (true) and "not-all-lots" (false)
BT-578	Security Clearance	Indicator	Code	"required" technical codelist with 2 values "true" and "false"
BT-761	Tenderer Legal Form	Indicator	Code	"required" technical codelist with 2 values "true" and "false"
BT-744	Submission Electronic Signature	Indicator	Code	"esignature-submission" technical codelist with 2 values "true" and "false"
BT-769	Multiple Tenders	Indicator	Code	"permission" technical codelist with 2 values "allowed" and "not-allowed"
BT-751	Guarantee Required	Indicator	Code	"tender-guarantee-required" technical codelist with 2 values "true" and "false"
BT-193	Tender Variant	Indicator	Code	"variant-tender" technical codelist with 2 values "true" and "false"
BT-730	Subcontracting Value Known	Indicator	Code	"value-known" technical codelist with 2 values "true" and "false"
BT-731	Subcontracting Percentage Known	Indicator	Code	"percentage-known" codelist with 2 values "true" and "false"
BT-768	Contract Framework Agreement	Indicator	Code	"document-category" technical codelist with 1 value "fa-can" The solution provided univocally identifies the CAN of the Framework Agreement used.
BT-53	Options	Indicator	N/A	Not represented in UBL. Not required as BT-54 is mandatory when BT-53 is "Yes". If BT-54 is not there, then BT-53 is "No"
BT-778	Framework Maximum Participants	Indicator	N/A	Not represented in UBL. Not required if BT-113 is mandatory when BT-778 is "Yes". If BT-113 is not there, then BT-778 is "No"
BT-724	Tool Atypical	Indicator	N/A	Not represented in UBL. Not required as BT-124 is mandatory when BT-724 is "Yes". If BT-124 is not there, then BT-724 is "No"
BT-661	Maximum Candidates Indicator	Indicator	Text	UBL element of type text, content shall be one of the codes "true" or "false"
BT-14	Documents Restricted	Indicator	Text	UBL element of type text. Element present with the only accepted value "restricted-document" when documents are restricted ones.
BT-44	Prize Rank	Number	Code	UBL element of type Code. No codelist yet defined. Control of numeric sequential values starting with "1".
BT-171	Tender Rank	Number	Text	UBL element of type Text. No codelist defined. Control of numeric sequential values starting with "1".
BT-09	Cross Border Law	Text	Text (& ID)	Two UBL elements, one of type Text and another one of type Identifier to encode machine readable information (e.g.: ELI)
BT-22	Internal Identifier	Text	Identifier	UBL element of type Identifier. No control of encoded information except uniqueness within the notice.
BT-509	Organisation eDelivery Gateway	URL	Identifier	UBL element of type Identifier. Value must follow a URL format (pattern control)
BT-18	Submission URL	URL	Identifier	UBL element of type Identifier. Value must follow a URL format

Most of the differences were driven following trade-offs between UBL-conformance and non UBL-conformance (i.e. introduce extensions).

Use of extensions would reduce the interoperability, so wherever possible the native UBL elements have been privileged.

For BTs identified as indicators in the regulation annex but for which no indicator element is present in UBL, we've identified what we think is the best option (also with the use of "true" and "false" where this was possible). In some cases we had however to introduce codes that differ from "true" / "false" but may be easily mapped to these two values.

3 Added & removed fields

Some fields are mandated by UBL while they do not have an equivalent in the regulation annex.

Some fields of the regulation annex are not necessary in UBL because they are implicitly covered by the organization of the information in this standard (e.g. numerous XYZ Lot Identifier used to link a BG to a lot).

Table 2 - eForms regulation - XML implementation fields differences

Field ID	Field Name	Comment
OPT-001	UBL version ID (UBL)	UBL specific element to identify the version on which the XSDs are based
OPT-002	Customization ID (UBL)	Identifier associated to the customization of UBL (i.e. the eForms XML versioning)
OPT-010	Buyer Role	Specific for the Buyer roles as "cpb-awa" (CPB awarding) or "cpb-acq" (CPB acquiring)
OPT-030	Provided Service Type	To distinguish between service providers (e.g. subcontractor, esender, procurement service provider ...) that share a same construct
OPT-050	Document Status	To distinguish official from non-official linguistic versions of procurement documents (distinction BT-737 from BT-708)
OPT-070	Execution Requirement	Distinction between execution requirements when the same UBL element is used: reserved execution, invoicing, condition ...
OPT-080	Complainants	Reuse of a defined structure for statistics: a code and a number, referring respectively to what is being counted and the total quantity
OPT-090	Buyer Categories	Name element required in UBL - in addition to BT-111. A single value expected, the pattern "buyer-categories"
OPT-100	Framework Notice Identifier	Identifier of the CAN notice associated to the Framework Agreement establishment
OPT-110	URL to Fiscal Legislation	As done in current F16 form §VI.3, eForms details being closer to the Annex A § II to IV of the same form.
OPT-120	URL to Environmental Legislation	As done in current F16 form §VI.3, eForms details being closer to the Annex A § II to IV of the same form.

Field ID	Field Name	Comment
OPT-130	URL to Employment Legislation	As done in current F16 form §VI.3, eForms details being closer to the Annex A § II to IV of the same form.
	FiscalLegislationDocumentReference	UBL required ID when information about legislation is specified. Useful for ELI ...
	EnvironmentalLegislationDocumentReference	UBL required ID when information about legislation is specified. Useful for ELI ...
	EmploymentLegislationDocumentReference	UBL required ID when information about legislation is specified. Useful for ELI ...
	Reference to TEDXML notices	For notices not having a ProcedureID