

ESPD ANNUAL SEMINAR 2023

30th November 2023

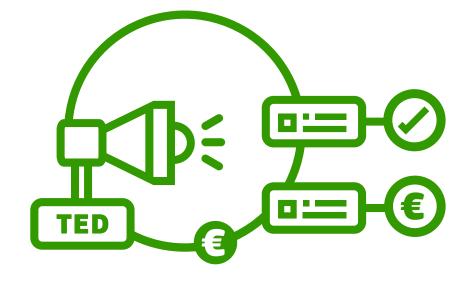
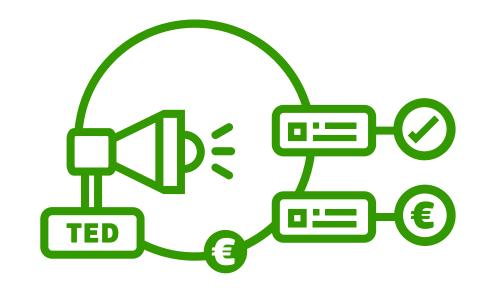




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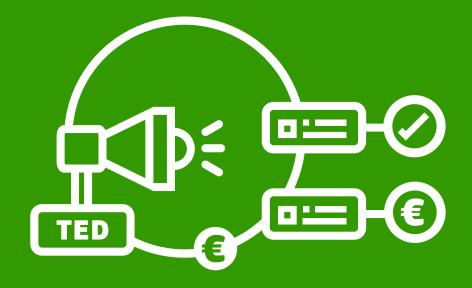
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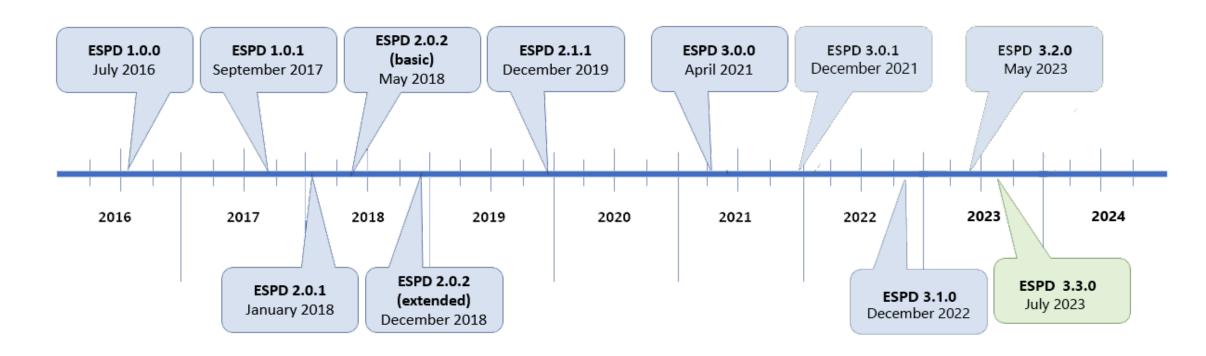


INTRODUCTION

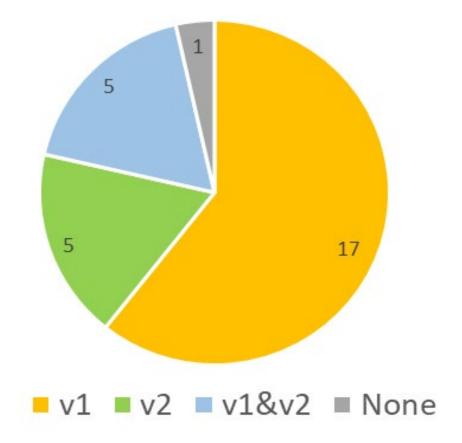
Paloma Arillo Aranda, Publications Office



- ✓ December 2022 \rightarrow v3.1.0 minor version,
- ✓ May 2023 \rightarrow v3.2.0 minor version,
- ✓ July 2023 \rightarrow v3.3.0 minor version.



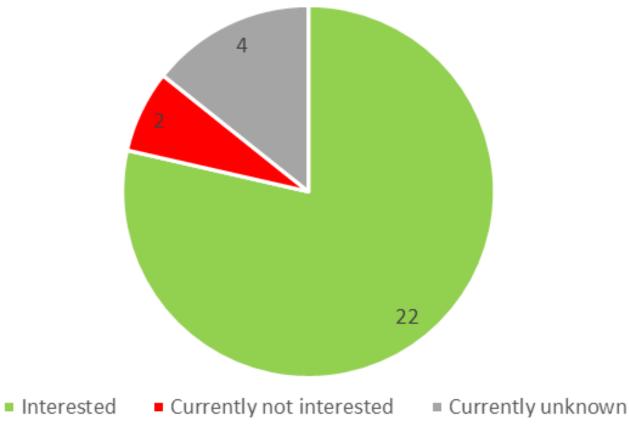
ESPD-EDM versions used across Europe / info last update mid-2023



^{*}Source: https://webgate.ec.europa.eu/fpfis/wikis/display/EPROC/eProc+Matrix+mid-2021



Countries interested in using v3 / info last update mid-2023



^{*}Source: https://webgate.ec.europa.eu/fpfis/wikis/display/EPROC/eProc+Matrix+mid-2021



2023:

- **✓ 7** Open User Community meetings
- √ 25 users in average
- √ from different countries



Presentations & reports: https://docs.ted.europa.eu/espd-ouc/index.html

Date of the OUC meeting	Number of participants	Different countries
26/01/2023	30	15
23/02/2023	37	15
23/03/2023	35	16
27/04/2023	20	13
29/06/2023	22	12
21/09/2023	20	9
26/10/2022	12	9

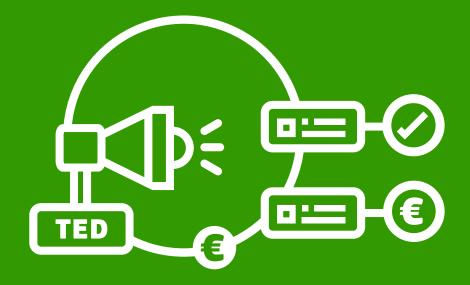
- 2023:
 - The Open User Community members have opened 23 new issues in GitHub on 2023;
 - The ESPD Team has **solved 14** out of 23 issues.

• Currently, there are **22 issues open** in GitHub (9 of those are depending on a third party):

https://github.com/OP-TED/ESPD-EDM/issues



Pascaline Laure Tchienehom, NTTDATA



- ESPD-EDM v3.1.0: minor release → December 2022.
- Changes included in the release are available at: https://github.com/OP-TED/ESPD-EDM/releases/tag/v3.1.0.
- The related online documentation is also published at: https://docs.ted.europa.eu/ESPD-EDM/3.1.0/index.html.

- ESPD-EDM v3.1.0 provides updates covering:
 - Occupation code list (ESCO);
 - Corrections in code lists;
 - Corrections in the data structure;

- Conceptual model: typos;
- Schematron rule: deletion;
- Online documentation updates;
- ESPD Test Cases Mapping Documentation.

Item	Change	Related issues
Occupation code list	 The current technical code list is replaced by the codelist provided by EU Vocabularies with the updated values from ESCO (Multilingual classification of European Skills, Competences, Qualifications and Occupations, https://esco.ec.europa.eu/) 	<u>#307, #347</u>
	 Removal of the option "Other occupations" from taxonomy and documentation 	
Corrections in code lists	Data Type: date format in code list Criterion	<u>#332</u> , <u>#337</u>
	 Financial ratio type: inconsistency between the language label and the actual language 	
Corrections in the data	 Data misplacement in several lines in Criteria 35, 52 and 53 	<u>#322, #320</u> ,
structure	Incorrect or missing cardinalities	#326, #327,
	Incorrect use of the UUID	#333, #338, #340, #343,
	 New requirements within a requirement group to show the number of fiscal years to be covered and the threshold 	#346, #350

Item	Change	Related issues
Schematron rules	• Incorrect validation related to the ProfileID version. Rule deletion.	<u>#324</u>
SubCriterion	Update in documentation on how it should be used	<u>#352</u>
Short Tag Name and Implicit Numbering	Update in the online documentation. New section added with 2 figures.	<u>#335</u>
XSLT updates + related online documentation updates	 Refactoring (functions position, EG vs SC handling) + Common Attributes value updates (SchemeAgencyID, ListAgencyID, SchemeVersionID, ListVersionID) 	

Occupation code list (ESCO) - #307, #347

- The Occupation code list maintained by **EU Vocabularies** used instead of the technical code list;
- ESPD-EDM v3.1.0:
 - ✓ included gc generated by EU Vocabularies,
 - ✓ maintained the metadata on the repository
 - ✓ validation rules was updated accordingly;
- Did not include the code "0000.0" other occupations;
- Option "Other occupations" was removed from the data structure in the criterion C25 SC prof-regist, and from the documentation for consistency.

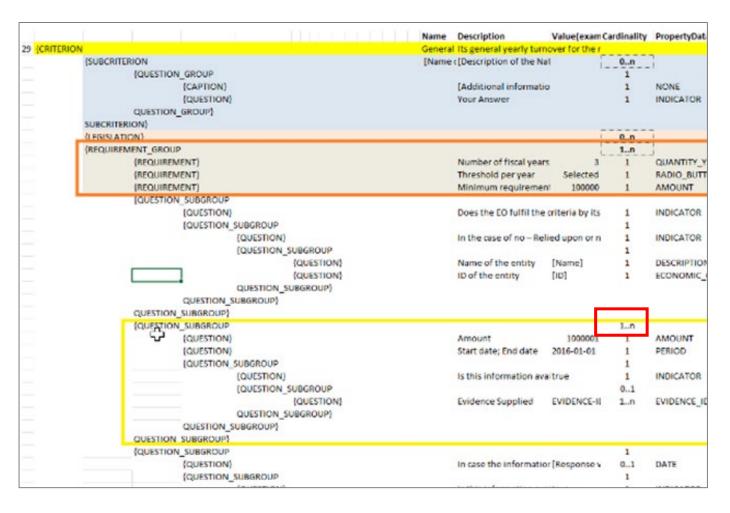
Corrections in the data structure (#340)

- A requirement that represents the number of fiscal years to be covered in the requirement group within criterion "General yearly turnover", was added;
- An intermediate requirement that represents the selection of "Threshold per year" was added.

		Name	Description	Value(exam 0	ardinality	PropertyDat
(CRITERION		General	Its general yearly turns	over for the r		
	(SUBCRITERION (QUESTION_GROUP	[Name	([Description of the Nat		0n 1	1
	{CAPTION}		[Additional information		1	NONE
	{QUESTION} QUESTION_GROUP} SUBCRITERION		Your Answer		1	INDICATOR
_	(LEGISLATION)			ī	0n	7
	{REQUIREMENT_GROUP				1n	1
	(REQUIREMENT)		Number of fiscal years	3	1	QUANTITY_Y
	(REQUIREMENT)		Threshold per year	Selected	1	RADIO_BUTT
	(REQUIREMENT)		Minimum requirement	100000	1	AMOUNT
	QUESTION SUBGROUP			1 1000000000000000000000000000000000000		

Corrections in the data structure (#340)

- When the yearly turnover is required for different years, the Question SubGroup must be replicated.
- Cardinality of the related Question SubGroup is 1..n



ESPD Test Cases Mapping Document

- **>v2:** document was available
- > provided detailed information regarding business rules

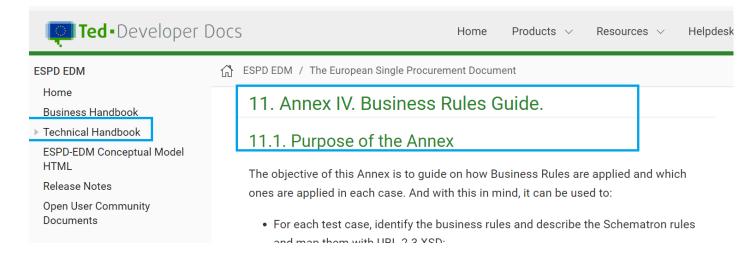
>purpose:

- ✓ identify the related business rules for each test case;
- ✓ describe the Schematron rules, map them with UBL-2.2 XSD;
- ✓ validate the criteria taxonomy
- ✓ facilitate the understanding of the different validation artefacts in the ESPD-EDM

ESPD Test Cases Mapping Document

- **≻v3**: simplified version provided
- ➤ GitHub #331: requested as it is a helpful tool for technical implementation
- ➤ available at the Technical Handbook, Annex IV:

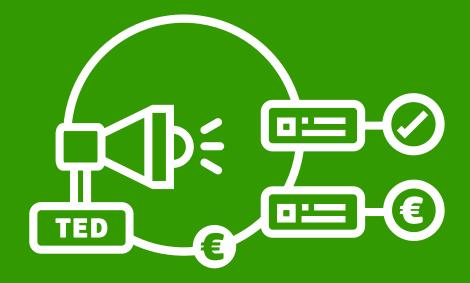
https://docs.ted.europa.eu/ESPD-EDM/latest/xml technical handbook.html#business-rules-guide





ESPD-EDM V3.2.0 - Q2 2023

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ESPD-EDM v3.2.0 - Q2 2023

- ESPD-EDM v3.2.0 minor release → May 2023.
- All changes included in the release are available at: https://github.com/OP-TED/ESPD-EDM/releases/tag/v3.2.0.
- The related online documentation is also published at: https://docs.ted.europa.eu/ESPD-EDM/3.2.0/index.html.
- ESPD-EDM v3.2.0 provides updates covering:
 - Correction of **listID** values and Codelists updates;
 - Correction of date and time format in the XSLT files;
 - Updates: CustomizationID, ProfileID, ProcedureCode;
 - Corrections in the data structure;

- Codelists gc and XML samples generation;
- XSLT updates: Attributes, Validation errors;
- Schematron rules and Validation updates;
- Online documentation updates.



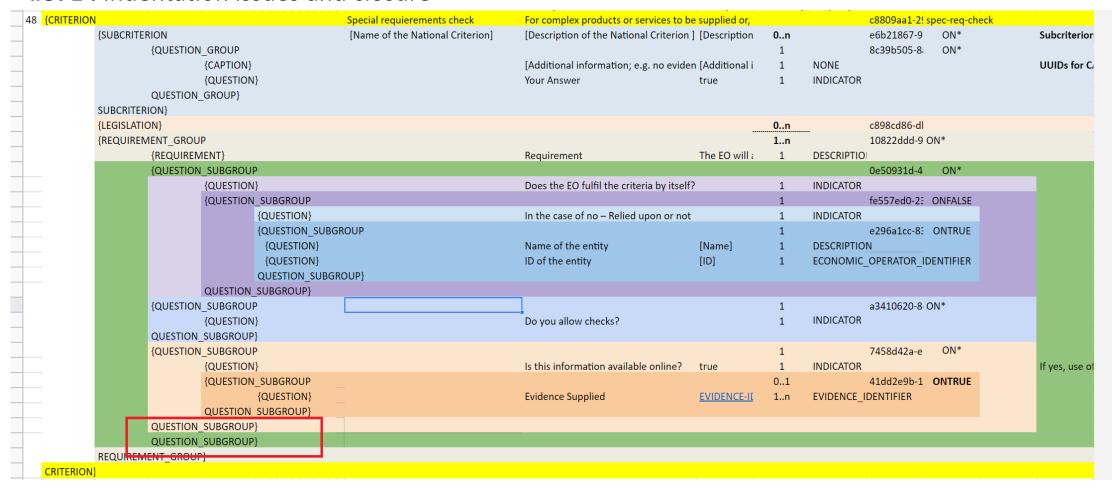
ESPD-EDM v3.2.0 – Q2 2023

Item	Change	Related issues
Corrections in the data structure	 Typo errors Indentation issues and closure elements 	#368 #371 #369
	 Incorrect use of the UUID Mock-ups different from taxonomy Incorrect or missing cardinalities 	#340 #374
Elements in ESPD artefacts related to CEN-BII references & codelists: CustomizationID, Profil eID, ProcedureCode	 Removal of CustomizationID and ProfileID elements from all the relevant ESPD artefacts Re-introduction of the element ProcedureCode in the UML conceptual model 	#37 <u>5</u> #38 <u>0</u>
Correction of date and time format in the XSLT files	Format of the date and time	<u>#378</u>
Correction of listID values and Codelists updates	• ListID values (7): property-group-type, response-data- type, criterion-element-type, boolean-gui-control-type, language, eo-role-type, economic-operator-size — values checked in the online documentation.	#380 #348 #325
	• Levels: XSL & GC, XSLT & XML, Schematron files	
	Codelists updates: Occupation, Criterion	



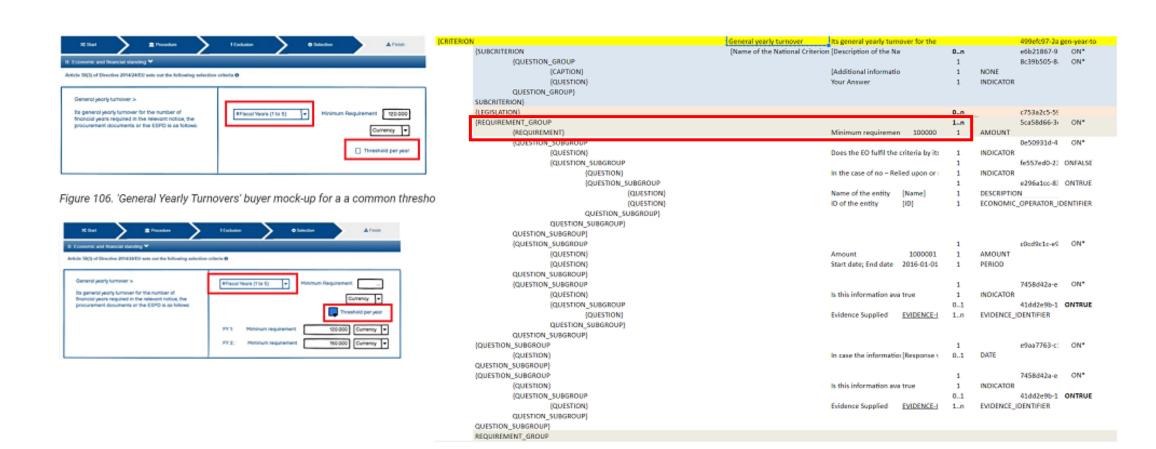
ESPD-EDM v3.2.0 – Q2 2023

• #371: Indentation issues and closure



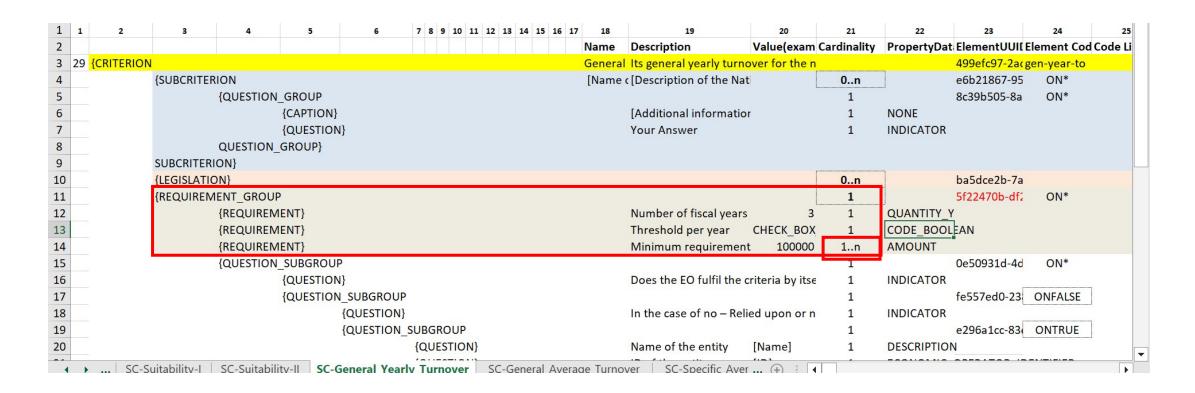
ESPD-EDM v3.2.0 - Q2 2023

#340: Mock-ups different from taxonomy



ESPD-EDM v3.2.0 - Q2 2023

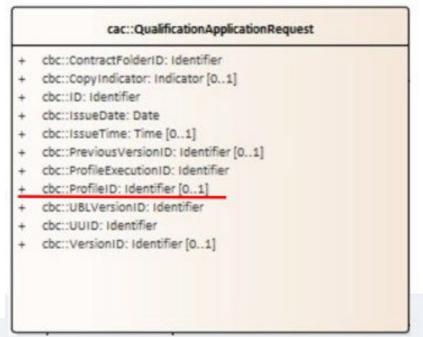
• #340 : Mocks-up different from taxonomy



ESPD-EDM v3.2.0 – Q2 2023

• #375: CustomizationID, ProfileID, ProcedureCode





QualificationApplicationRequest +cbc:UBLVersionID[1] +cbc:ProfileExecutionID[1] +cbc:ID[1] +cbc:CopyIndicator[0..1] +cbc:UUID[1] +cbc:ContractFolderID[1] +cbc:ContractName[0..1] +cbc:IssueDate[1] +cbc:IssueTime[0..1] +cbc:VersionID[0..1] +cbc:PreviousVersionID[0..1] +cbc:ProcedureCode[1]

cac::QualificationApplicationRequest

- + cbc::ContractFolderID: Identifier
- + cbc::CopyIndicator: Indicator [0..1]
- cbc::ID: Identifier
- cbc::IssueDate: Date
- + cbc::IssueTime: Time [0..1]
- + cbc::PreviousVersionID: Identifier [0..1]
- + cbc::ProcedureCode: Code [0..1]
- cbc::ProfileExecutionID: Identifier
- cbc::UBLVersionID: Identifier
- + cbc::UUID: Identifier
- + cbc::VersionID: Identifier [0..1]

ESPD-EDM v3.2.0 - Q2 2023

#380: listID value – Online documentation vs ESPD XML, XSLT, Schematron files (ShortName, Camel case used)

	ShortName	PropertyGroupType		
_	ListID	property-group-type		
	Version	3.1.0		
	CanonicalUri	https://github.com/ESPD/ESPD-EDM		
	CanonicalVersionUri LocationUri	https://github.com/ESPD/ESPD-EDM/tree/v3.1.0		
		https://github.com/ESPD/ESPD- EDM/tree/v3.1.0/codelists/gc/PropertyGro	oupType.gc	
<td>gCriterionPropertyGroup</td> <td>></td> <td></td>	gCriterionPropertyGroup	>		
	CriterionPropertyGroup>			
		schemeAgencyID="OP" schemeVersionID= <mark>"3</mark>		
<cbc:pi< th=""><td>ropertyGroupTypeCode li</td><td>stID="<mark>property-group-type</mark>" listAgencyI</td><td>D="OP" list</td></cbc:pi<>	ropertyGroupTypeCode li	stID=" <mark>property-group-type</mark> " listAgencyI	D="OP" list	
<cac:te< th=""><td>enderingCriterionProper</td><td>ty></td><td></td></cac:te<>	enderingCriterionProper	ty>		
	<pre><cbc:id schemeagencyid="OP" schemeid="cri</pre></td><td>terion" schemevers<="" td=""><td>ionID="3.1.</td></cbc:id></pre>	ionID="3.1.		

- ListID for technical codelists maintained by ESPD: LongName (lowercase+hyphen, e.g "property-group-type");
- ListID for EU Vocabulary codelists: url (e.g "http://publications.europa.eu/resource/authority/eo-role-type");
- Consistency across ESPD artefacts: codelists (excel, xsl), Criterion, XML, XSLT, Schematron rules, Documentation.

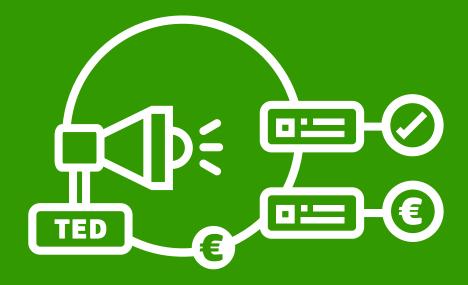
ESPD-EDM v3.2.0 – Q2 2023

Item (Release tasks)	Change	Related
Codelists generic code generation	ESPD-Codelist.xlsx, XSL file	
XML samples generation	ESPD-criterion.xlsx, XSLT files	
Validation	Schematron bat file to execute	
	 Generate the Validator in the Github https://github.com/ISAITB/validator-resources-espd Commit changes 	
XSLT files updates: Attributes, Validation errors – missing or incorrect information	 Updating file "ContractingAuthorityData-RequestResponse.xslt": Country/@listVersionID = 20220928-0, cbc:EndpointID/@schemeID Updating file "EconomicOperatorData.xslt": EconomicOperatorRole, RoleCode, ID, Name, IndustryClassificationCode, IdentificationCode Updating file "From-REQUEST-to-RESPONSE.xslt": "cbc:ResponseID", "cac:Evidence/cbc:ConfidentialityLevelCode", "cac:Evidence/cbc:ConfidentialityLevelCode/@listVersionID" 	
Online documentation updates	 Index, home, image, release notes, readme Samples online: Attributes value 	



ESPD-EDM V3.3.0 - Q3 2023

Pascaline Laure Tchienehom, NTTDATA



ESPD-EDM v3.3.0 - Q3 2023

- ESPD-EDM v3.3.0 minor release → July 2023.
- All changes included in the release are available at: https://github.com/OP-TED/ESPD-EDM/releases/tag/v3.3.0.
- The related online documentation is also published at: https://docs.ted.europa.eu/ESPD-EDM/3.3.0/index.html.
- ESPD-EDM v3.2.0 provides updates covering:
 - Correction of **listVersionID** values and Codelists updates;
- Codelists gc and XML samples generation;

- Percentage translation in ESPD XML files

- XSLT updates: Attributes, Validation errors;

- Corrections in the data structure;

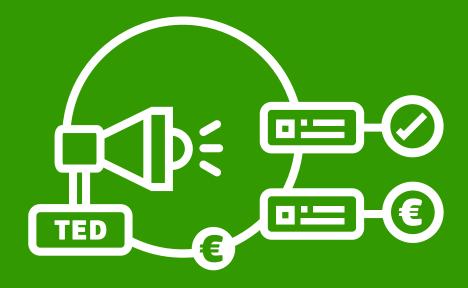
- Schematron rules and Validation updates;
- Online documentation updates.
- Implementation of ESPD-EDM v3.3.0 by INTERPROC Consortium: UPRC-VORTAL-ARTIFIK-MERCELL





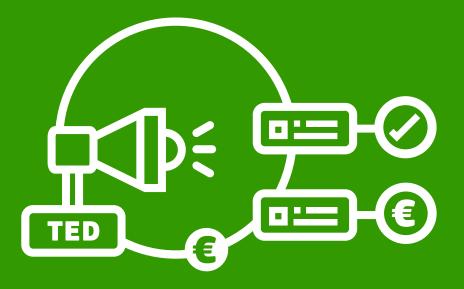
ESPD-EDM V3.3.0 IMPLEMENTATIONS

Interproc Consortium



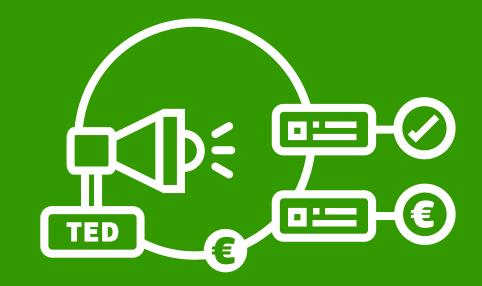


BREAK





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- ESPD-EDM v4.0.0: 2 steps
 - ✓ candidate release(s)
 - ✓ major release scheduled for 2024.
- ESPD-EDM v4.0.0 working branch: https://github.com/OP-TED/ESPD-EDM/tree/v4.0.0-uuid
- ESPD-EDM v4.0.0 will provide updates covering mainly:
 - UUIDs replacement by XML Path Like IDs;
 - Different requirements for different lots;
 - Purely National Exclusion Grounds;
 - Evidence group misplacement;
 - Updates in the data structure;

- Codelists gc and XML samples generation;
- XSLT updates: Attributes, Validation errors;
- Schematron rules and Validation updates;
- Online documentation updates.

NB: The final scope of the ESPD-EDM v4.0.0 needs formal approval from the Change Management Board



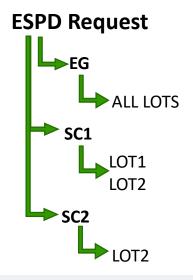
Item	Change	Related issues
Different requirements for different lots	 Correction of an issue so different requirements can be set for different lots within a selection criterion 	N/A
Purely National Exclusion Grounds – Evidence group misplacement	 Creation of an xml file test that includes question subgroup with multiple cardinality "1n" replicated twice, allowing to provide more than one Purely National Exclusion Ground criterion Update the Data Structure 	<u>#334</u> *
Update of the current UUID for repeatable subgroups	 Update excel criterion files and generation of xml samples files XSLT updates: transformation from Excel to XML ESPD 	<u>#312</u>
Corrections in code lists	 Revision of description texts to ensure consistency between eCertis and the Taxonomy Correction of a duplicated code in the occupations codelist 	#336, #339, #348
Validation rules	 Create validation rules for mandatory fields Create validation rules for all ESPD code lists 	N/A

^{*} Tasks completed on ESPD side. Tasks on eCertis side pending.



Different requirements for different lots

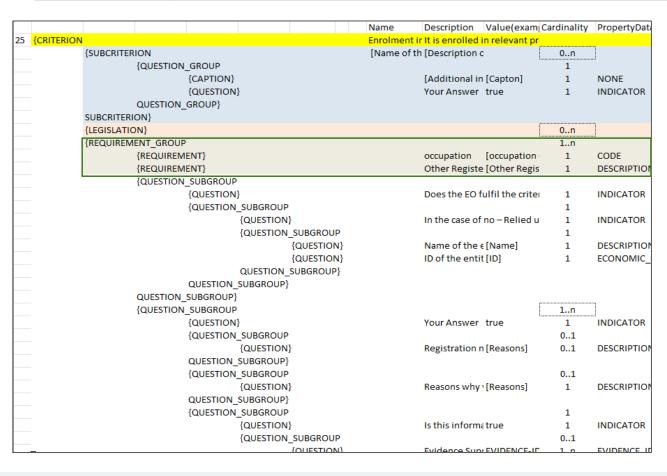
- The ESPD selection criteria include **requirements**, which are specific constraints from the Buyer for specific Lots within a procurement procedure.
- The last major release aligned the ESPD-EDM with eForms, from both the business and technical perspective.



<u>lssue</u>:

- Business view: There are selection criteria that will need to implement different requirements per lot
- **Technical view:** The current technical implementation does not allow multiple and different requirement per lot.

<u>Different requirements for different lots. AS-IS data structure view (v3.0.1)</u>



- With this logic, a requirement within a selection criterion is unique
- Therefore, all lots that the criterion targets would have the same requirements
- There is no field / requirements within the requirement group to establish the Lot targeted

<u>Different requirements for different lots. TO-BE data structure view</u>

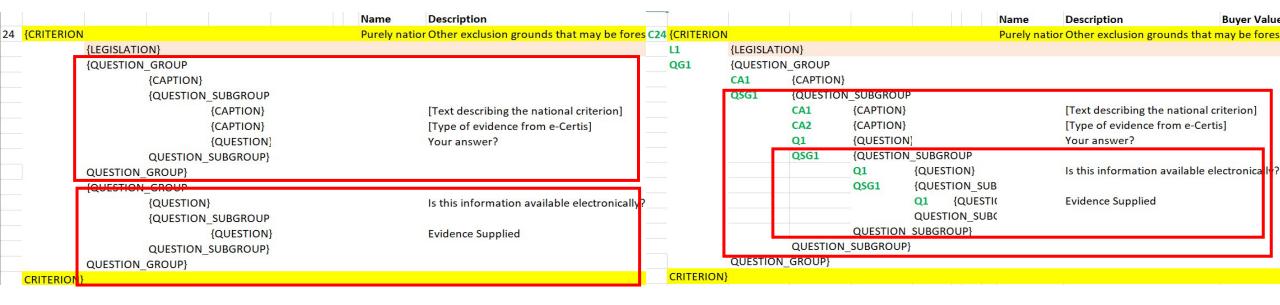
2			Name	Description	Buyer Value (exar Ca	rdinality	Prope
3	C27 {CRITERION	N For service c(ls a particular authorisation of a particu					
4	SBC1	{SUBCRITERION	[Name of the	[Description of the	N	0n	
5		QG1 {QUESTION_GROUP			***************************************	1	
6		CA1 {CAPTION}		[Additional informa	ition; e.g. no eviden	1	NONE
7		Q1 {QUESTION}		Your Answer		1	INDIC
8		QSG1 {QUESTION_SUBGROUP				0n	
9		Q1 {QUESTION}		If yes, please descri	be them	1	DESCF
10		Q2 {QUESTION}		Indicate whether th	e economic operato	01	INDIC
11		QUESTION_SUBGROUP}					
12		QUESTION_GROUP}					
13		SUBCRITERION}					
14	[1	{ FGISLATION}				0n	
15	RG1	{REQUIREMENT GROUP		Requirement Group	o '	1n	
16		RQ1 {REQUIREMENT}		LOT Identifier	LOT-0000	1n	
17		RSG1 {REQUIREMENT_SUBGROUP				0n	
18		RQ1 {REQUIREMENT}		Register name	[Register Name]	01	DESCI
19		RQ2 {REQUIREMENT}		URL	[Register URL]	01	URL
20		QSG1 {QUESTION_SUBGROUP				1	
	▶ EG-M	srepresentation EG-Purely_national SC-Suitability-I SC-S	Suitability-II	SC-General_Yearly_T	urnover SC (+)	: [4]	

- Inclusion of Requirement Group with a **Requirement field to specify LOTS** where it applies
- Requirement field for lots is of multiple cardinality (1..n)
- Lots would be referenced two times: one at the beginning of the criteria, and second within a requirement

<u>Purely National Exclusion Grounds</u> (#334) - <u>Evidence Group misplacement</u>

- Update of the Data Structure aimed at a more natural (semantic) way of providing evidences;
- Update of the whole Criteria Excel file (not only for Purely National Exclusion Grounds).

• Initial Solution



Replacement of UUIDs

- A universally unique identifier (UUID) is a 128-bit label used for information identification.
- UUIDs are machine-oriented and not human readable.

Example: a1534624-95cf-4519-bdaa-856d5acf59b6

- When generated according to the standard methods, **UUIDs are**, for practical purposes, **unique**.
- While the probability that a UUID will be duplicated is not zero, it is close enough to zero to be negligible.

Replacement of UUIDs

- In the ESPD, **2 types of UUID** are used:
 - **Fixed (or static) UUIDs**, for elements such as:
 - Criterion, SubCriterion;
 - Legislation;
 - Group or SubGroup (Question_Group, Question_SubGroup, Requirement_Group, Requirement_SubGroup).
 - **Dynamic UUIDs**, generated at the creation of an ESPD Request or and ESPD Response, for descriptive elements:
 - Question; Requirement; Caption.

Replacement of UUIDs

Problem statement:

- Multiple occurrences of questions in criteria need to be instantiated for each procurement procedure and this is preventing the re-usability.

• Business requirements:

- Ensure the connection for each criterion between ESPD Request and Response;
 - Ensure reusability of criteria both in the Request and the Response across procurement procedures;
 - Facilitate traceability and The Once-Only Principle (TOOP).

Solution - OUC agreement:

- Reduce the randomness on the ESPD by no longer using dynamic UUIDs and defining fixed identifiers for requirements and questions.



- The current UUID will be replaced by a **pre-defined short tag name for each element and a numbering** according to the position within the tree structure.
- The solution provides a path to a target criterion element.
- The new pattern focuses on the alignment of tags, syntax readability and indexing separation:

{Prefix+CriterionElementCode}/{InnerPath}/{TargetElement}/{Occurrence}

Request Samples

```
-C1_EG_crime-org/QG1/QSG1/Q1
```

-C32_SC_spec-year-to/RG1/RQ1/R1/R2

-C32_SC_spec-year-to/RG1/RSG1/RQ1/R2/R1

Response Samples

```
-C1_EG_crime-org/QG1/QSG1/Q1
```

-C32_SC_spec-year-to/RG1/QSG2/Q2/R2/R1

-C32_SC_spec-year-to/RG1/QSG2/Q2/R2/R1/RV (RV, RES, RAP)



ESPD-EDM v4.0.0 - 2024 - Short tag name, Criterion element, UBL element

Criterion Element Short Tag Name	Criterion Element	UBL Element
С	CRITERION (Exclusion GroundsEG, Selection Criterion SC)	cac:TenderingCriterion
ADL	ADDITIONAL_DESCRIPTION_LINE	cbc:Description
SBC	SUBCRITERION	cac:SubTenderingCriterion
L	LEGISLATION	cac:Legislation
CA	CAPTION	cac:TenderingCriterionProperty
Q	QUESTION	cac:TenderingCriterionProperty
RQ	REQUIREMENT	cac:TenderingCriterionProperty
QG	QUESTION_GROUP	cac:TenderingCriterionPropertyGroup
QSG	QUESTION_SUBGROUP	cac:SubsidiaryTenderingCriterionPropertyGroup
RG	REQUIREMENT_GROUP	cac:TenderingCriterionPropertyGroup
RSG	REQUIREMENT_SUBGROUP	cac:SubsidiaryTenderingCriterionPropertyGroup
R	RESPONSE (OCCURRENCE)	cac:TenderingCriterionResponse
RV	RESPONSE VALUE	cac:ResponseValue
RES	(RESPONSE) EVIDENCE SUPPLIED	cac:EvidenceSupplied
RAP	(RESPONSE) APPLICABLE PERIOD	cac:ApplicablePeriod

ESPD-EDM v4.0.0 - 2024 - C1_EG_crime-org

			_		_		1				_				
⊿ A		С	D	E	F	G	Н		R	S	I	U	V	W	
1 1	2	3	4	5	6	7	8		18	19		21	22	23	
2	tonizenia	Name Description Buyer Value (example) Cardinality PropertyDataType XML P CRITERION Participation in a criminal o Has the economic operator itself or any person who is a C1_EG													
3 C1	{CRITERIO													C1_EG_crime-org	_
4	SBC1	{SUBCRITERIO						[Name of th	e National Cri	t [Description of the National Crit	erion J	0n		C1_EG_crime-org/SBC1	5
5			QUESTION	_								1		C1_EG_crime-org/SBC1/QG1	\$
6			A1	{CAPTION}						[Additional information; e.g. no	evidences online]	1	NONE	C1_EG_crime-org/SBC1/QG1/CA1	
7		_	(1	{QUESTION}						Your Answer		1	INDICATOR	C1_EG_crime-org/SBC1/QG1/Q1	
8			UESTION_	_GROUP}											
9		SUBCRITERIO													
10	u	{LEGISLATION										0n		C1_EG_crime-org/L1	•
11 12	QG1	{QUESTION_G										1		C1_EG_crime-org/QG1	1
12		O1 (QUESTION) Your answer										1	INDICATOR	C1 EG crime-org/QG1/Q1	
13	_	QSG1 {QUESTION_SUBGROUP										0n		C1_EG_crime-org/QG1/QSG1	4
14		q	11	{QUESTION}						Date of conviction	1	DATE	C1_EG_crime-org/QG1/QSG1/Q1		
15	_	q	(2	{QUESTION}						Reason		1	DESCRIPTION	C1_EG_crime-org/QG1/QSG1/Q2	
14 15 16	_	Q3 (QUESTION)						Who has been convicted		DESCRIPTION	C1_EG_crime-org/QG1/QSG1/Q3				
17	_	Q4 {QUESTION}						Length of the period of exclusion	n	1	PERIOD	C1_EG_crime-org/QG1/QSG1/Q4			
18		q	(SG1	{QUESTION_	SUBGROUP							1		C1_EG_crime-org/QG1/QSG1/QSG1	5
19				Q1 {	QUESTION	}				Have you taken measures to den	monstrate your reliability	1	INDICATOR	C1_EG_crime-org/QG1/QSG1/QSG1/Q1	
20				QSG1 {	QUESTION	_SUBGROUP						01		C1_EG_crime-org/QG1/QSG1/QSG1/QSG1	1
21				(Q1	{QUESTION	}			Please describe them		1	DESCRIPTION	C1_EG_crime-org/QG1/QSG1/QSG1/QSG1/Q	11
22				(QUESTION_	SUBGROUP)									
17 18 19 20 21 22 23 24 25				QUESTION_S	UBGROUP)										
24		q	(SG2	{QUESTION	SUBGROUP							1		C1_EG_crime-org/QG1/QSG1/QSG2	1
25				Q1 {	QUESTION	}				Is this information available elec	tronically?	1	INDICATOR	C1 EG crime-org/QG1/QSG1/QSG2/Q1	-
4	▶ E	G-Conviction	is EG-	Contributio	ns EG	-Environ-S	ocial	-Labour_Law	EG-Busir	ness EG-Misconduct E	:G-Conflict_c (+)	1			>

ESPD-EDM v4.0.0 - 2024 - C25_SC_prof_regist

	В	C	D	E	F	G	Н	MNOP	Q	R	S	T	U	V	W
L	2	3	4	5	6	7	8	13 14 15 16	17	18	19	20	21	22	23
										ame	Description			PropertyDa	t XML PATH Like VARIANT ID Request
10	CRITERION											relevant professional r			C25_SC_prof-regist
SBC1		{SUBCRITI	ERION						[N	the National Criterion	0n		C25_SC_prof-regist/SBC1		
		QG1	{QUESTIC	ON_GROUP								1		C25_SC_prof-regist/SBC1/QG1	
			CA1	{CAPTION	4						[Additional info	rmation; e.g. no evide	1	NONE	C25_SC_prof-regist/SBC1/QG1/CA1
			Q1	{QUESTIO	N)						Your Answer		1	INDICATOR	C25_SC_prof-regist/SBC1/QG1/Q1
			QUESTIO	N_GROUP)											
		SUBCRITE	RION}												
L		{LEGISLAT	TION}										0n		C25_SC_prof-regist/L1
R	G1	{REQUIRE	EMENT_GRO	JUP							Requirement G	r	1n (1)		C25_SC_prof-regist/RG1
		RQ1	{REQUIRE	EMENT)							LOT Identifier	LOT-0000	1n (1)		C25_SC_prof-regist/RG1/RQ1/R1/R1
		RQ1	{REQUIRE	EMENT}							LOT Identifier	LOT-0001	1n (2)		C25_SC_prof-regist/RG1/RQ1/R1/R2
		RSG1	{REQUIRE	EMENT_SUBG	GROUP								1n (1)		C25_SC_prof-regist/RG1/RSG1
			RQ1	RQ1 (REQUIREMENT)							occupation	[occupation Code]	1	CODE	C25_SC_prof-regist/RG1/RSG1/RQ1/R1/R1/R1
			QSG1	(QUESTIC	ON_SUBGROU	UP							1		C25_SC_prof-regist/RG1/RSG1/QSG1
				Q1	(QUESTIO	ON)			Does the EO fulfil the criteria by itself				1	INDICATOR	C25_SC_prof-regist/RG1/RSG1/QSG1/Q1
				QSG1	(QUESTIC	ON_SUBGR	KOUP						1		C25_SC_prof-regist/RG1/RSG1/QSG1/QSG1
					Q1	{QUEST	TION}				In the case of n	o - Relied upon or not	1	INDICATOR	C25_SC_prof-regist/RG1/RSG1/QSG1/QSG1/Q1
				QSG1	{QUES	TION_SUBGROUP	/P					1		C25_SC_prof-regist/RG1/RSG1/QSG1/QSG1/QSG1	
					Q1	{QUESTION}	Æ			Name of the ent	city	1	DESCRIPTIO	OFC25_SC_prof-regist/RG1/RSG1/QSG1/QSG1/QSG1/QSG1/QSG1/QSG1/QSG1/Q	
					Q2	{QUESTION}	Á.			ID of the entity		1	ECONOMIC	_C25_SC_prof-regist/RG1/RSG1/QSG1/QSG1/QSG1/	
L						QUEST	TION_SUBGROUP	<i>P</i> }						W. San Waller	B A COUNTY OF COOK TO A POWER ON A CONTROL OF CONTROL O
1					OHESTIC	ON SUBGRO	(OLIP)	A13							

ESPD-EDM v4.0.0 - 2024 - VBA Scripts, XSLT updates

- Navigating and writing tags and paths column by column: indentation issue
- Navigating and writing tags and paths **line by line**: based on opening and closing of elements and also the sequential navigation in the tree structure

• First in the Request :

- Creating template for the Request
- Writing tags with the right number related to the position of the element in the tree structure
- Writing paths for describing the structural part of each element
- Complementing structural paths with occurrence semantics pattern ("Rn") for Requirements

• Second in the Response:

- Creating template for the Response
- Copy of the Request. Same steps as the one in the Request.
- Complementing structural paths with occurrence semantics pattern "Rn" for Questions + RV/RES
- Resulting criterion files: https://github.com/OP-TED/ESPD-EDM/tree/v4.0.0-uuid/criterion
- Remaining: XSLT updates to generate the new XML Request and Response.



Implications of the solution

- UUIDs are replaced by an XML Path-like ID pattern;
- Structure changes: new tag element (QG1, QSG1, QSG2, Q1, Q2, RG1, RSG1, RSG2, RQ1, RQ2, R1, R2) for each element or element group;
- **New algorithm** to automatically compute the tag and the path to each element (question/requirement) in the structure and contents of the ESPD Request and its related ESPD Responses;
- Files update (Criterion Excel, XSLT and XML);
- Online documentation update.



Benefits of the solution

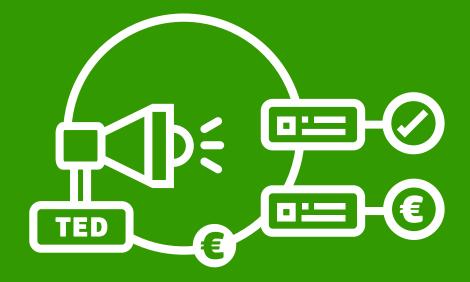
- The link between an ESPD Request and its related ESPD Responses (one or several) is consistent;
- Same structures use the same pattern;
- There is **no ambiguity** when addressing structures represented by the same pattern;
- The same data structure can be reused;
- ESPD Responses can be **easily read and mapped**;
- Content of the ESPD can be easily reused, except in those cases where requirements are not compatible.



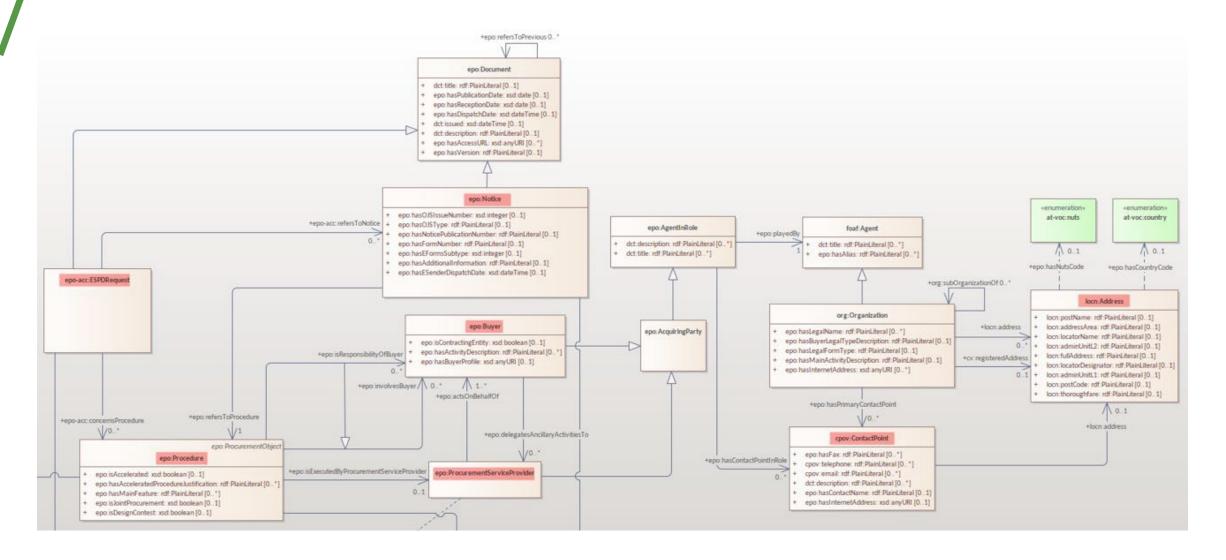


ePROCUREMENT ONTOLOGY eACCESS – ESPD REQUEST

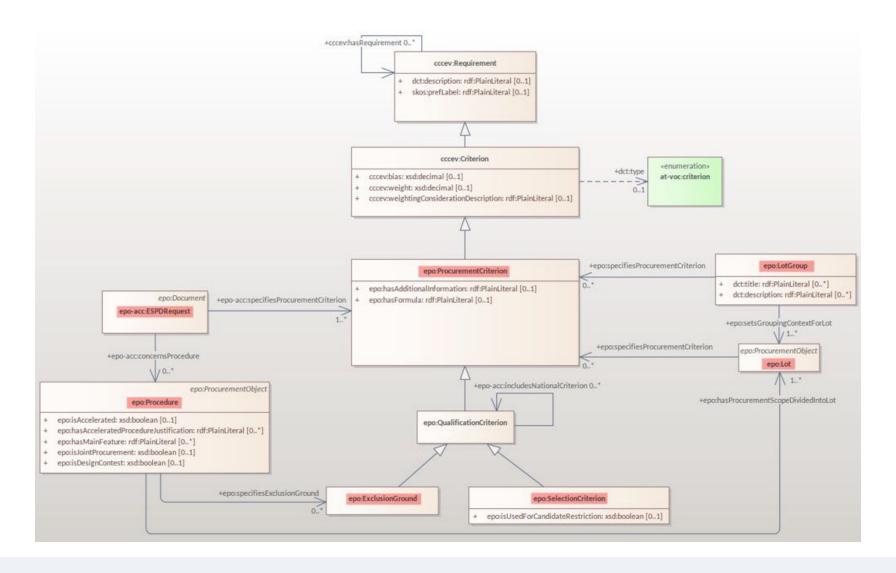
Andreea Pasăre, Meaningfy



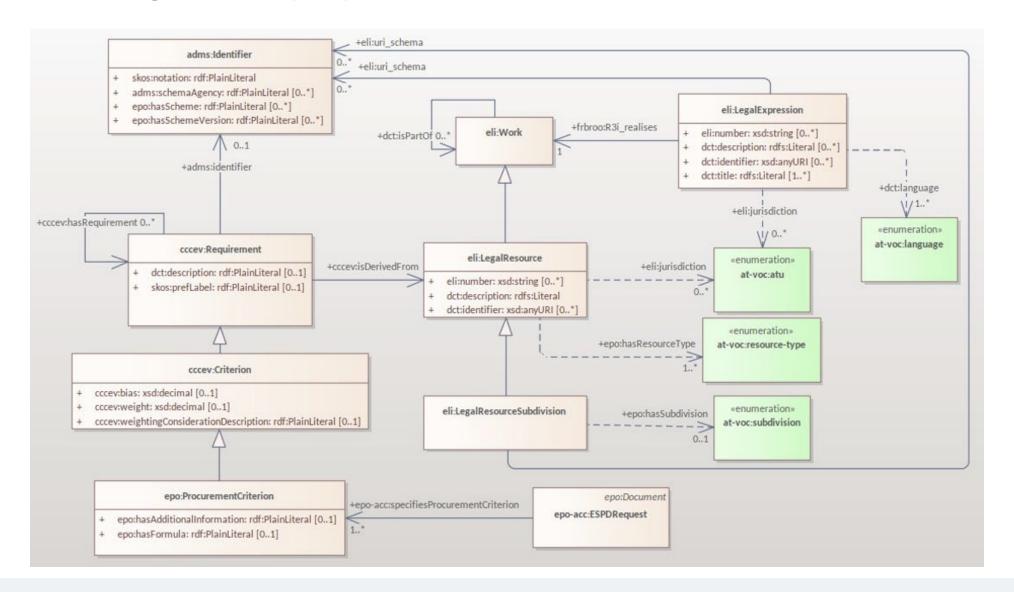
eAccess - ESPD Request within eProcurement Ontology



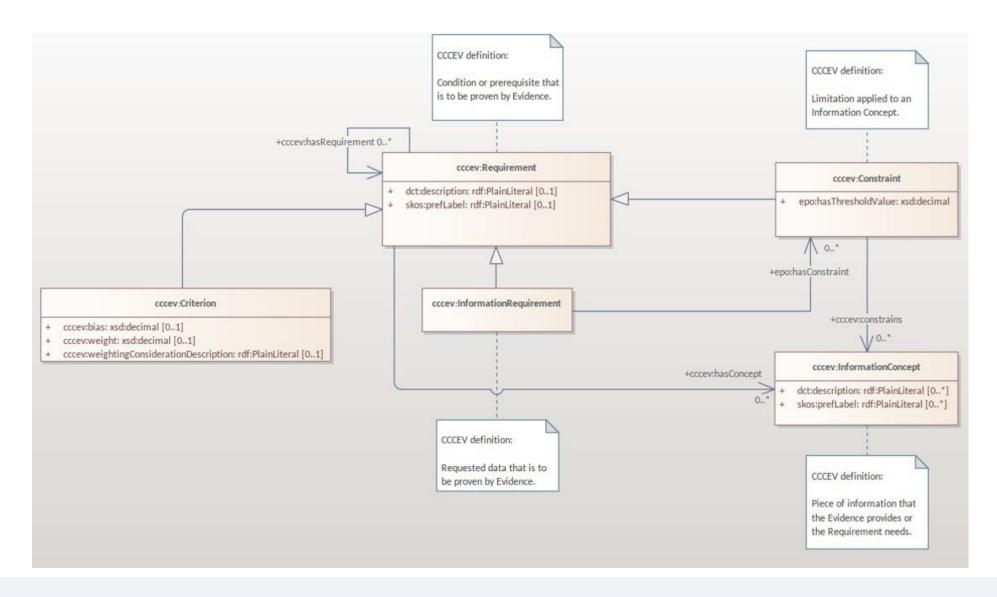
eAccess – ESPD Request within eProcurement Ontology



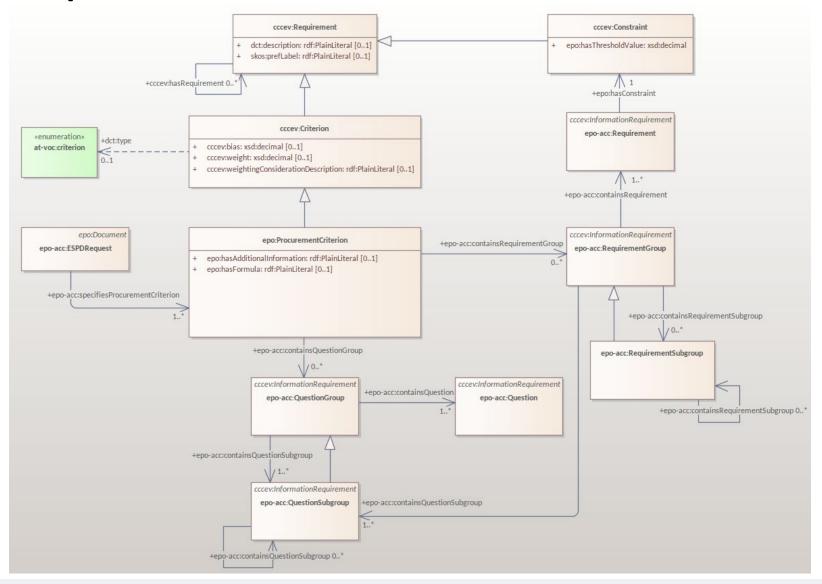
eAccess – Legislation (ELI)



eAccess – CCCEV alignment



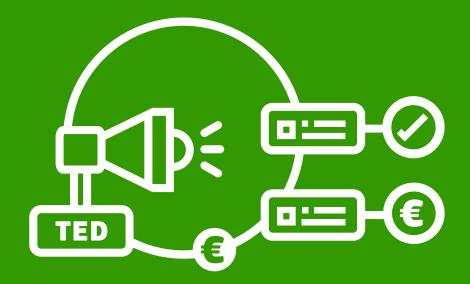
eAccess – Requirements and Questions





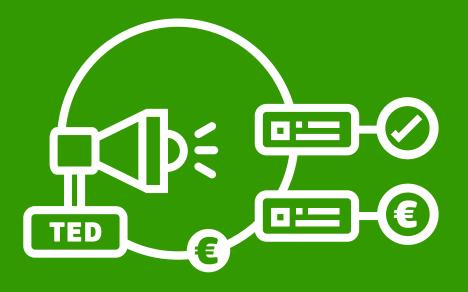
WHAT'S UP, eCERTIS? AN OUTLOOK

Marc Christopher Schmidt, DG GROW





Q&A / AOB



THANK YOU FOR YOUR PRESENCE

Please feel free to send also your questions to

OPESPD@publications.europa.eu

