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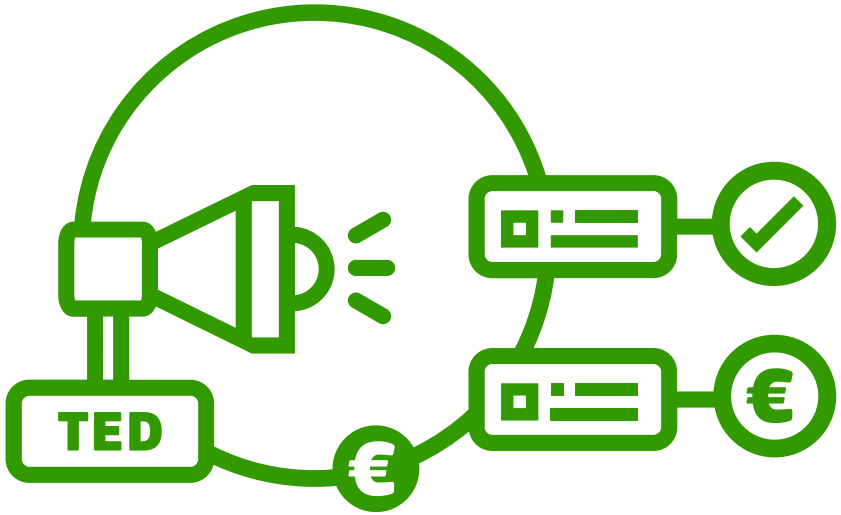
ESPD ANNUAL SEMINAR 2022

30th November 2022



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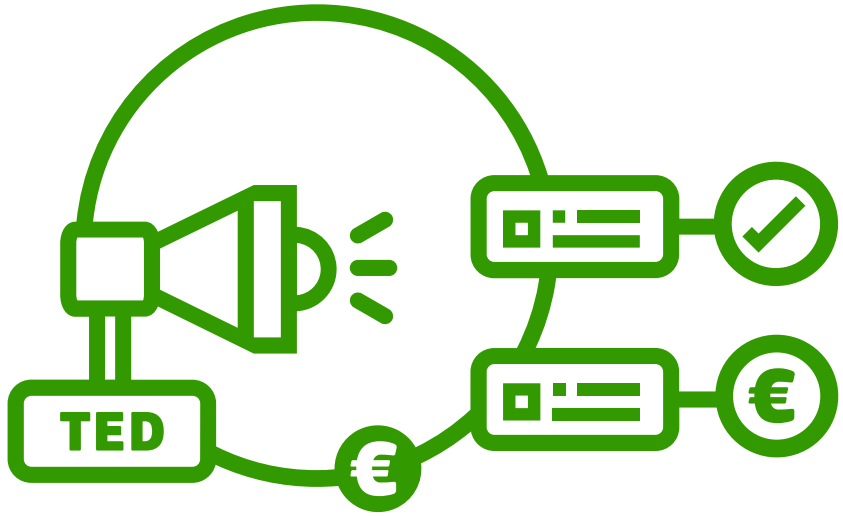

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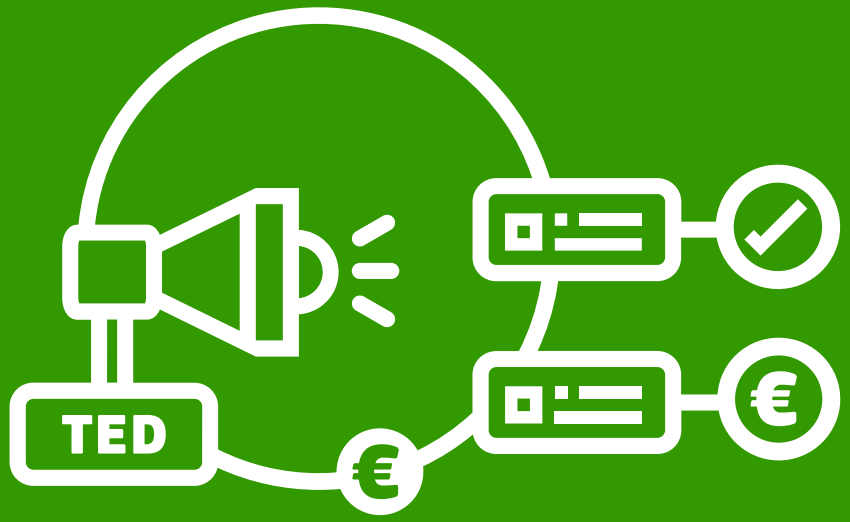
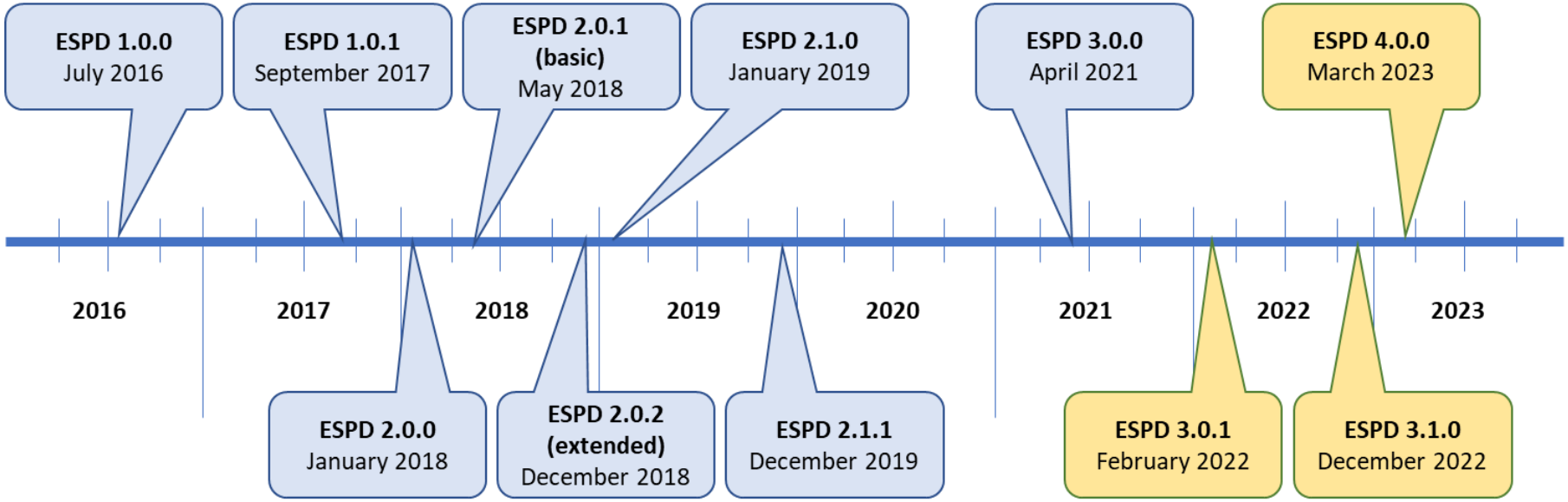
INTRODUCTION

Paloma Arillo Aranda, Publications Office



Introduction

- Main milestones of 2022:
  - A **patch version** of the ESPD, v3.0.1, released in February;
  - A **minor version** of the ESPD, v3.1.0, released in December.
- A **major version** of the ESPD-EDM will be release in the first quarter of 2023 (v4.0.0), which will include relevant changes and improvements.



Introduction

During 2022, **7 Open User Community meetings** were held, with an **average participation of above 30 users** from different countries:

Date of the OUC meeting	Number of participants	Different countries
27/01/2022		
24/02/2022	30	13
31/03/2022	35	14
28/04/2022	29	16
16/06/2022	28	11
28/09/2022	29	14
27/10/2022	33	14

Introduction

- During 2022:

  - The **Open User Community members have opened 39 issues** in GitHub;

  - The **ESPD Team has solved 29 issues**.

- Currently, there are **15 issues open** in GitHub (5 of those are depending on a third party):

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

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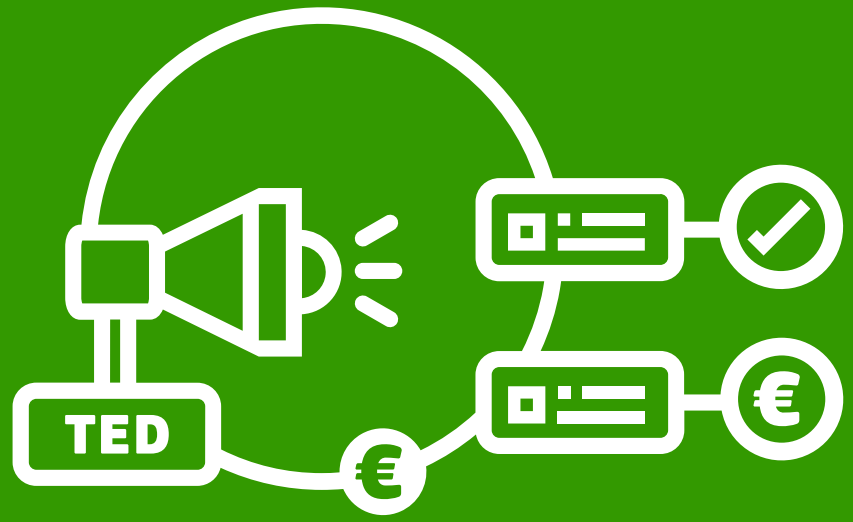
ESPD-EDM V3.0.1 (2022 Q1)

Alba Colomer Padrosa, NTTDATA



ESPD-EDM v3.0.1 (2022 Q1)

- **ESPD-EDM v3.0.1** was a **patch release** released in **February 2022**.

- The complete distribution package is available in GitHub: OP-TED/ESPD-EDM Tag v3.0.1

- ESPD-EDM v3.0.1 provided updates covering:
  - Reorganisation of the GitHub repository;
  - Update cardinalities in the online documentation;
  - Update of cardinalities in the xml example files.

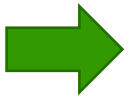
ESPD-EDM v3.0.1 (2022 Q1)

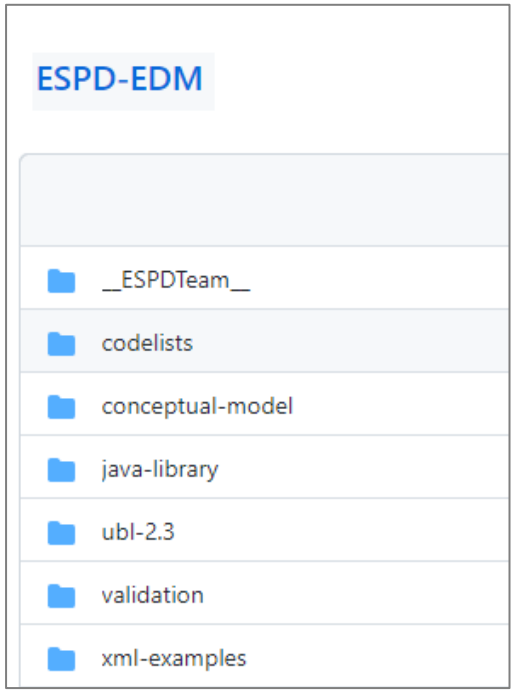
Reorganisation of the GitHub repository (editorial change)**:**

- Reorganise the distribution package folders;
- Update the ESPD-EDM conceptual model;
- Document handbook migration to Ted Developer Docs;
- Update wiki homepage.

ESPD-EDM v3.0.1 (2022 Q1)

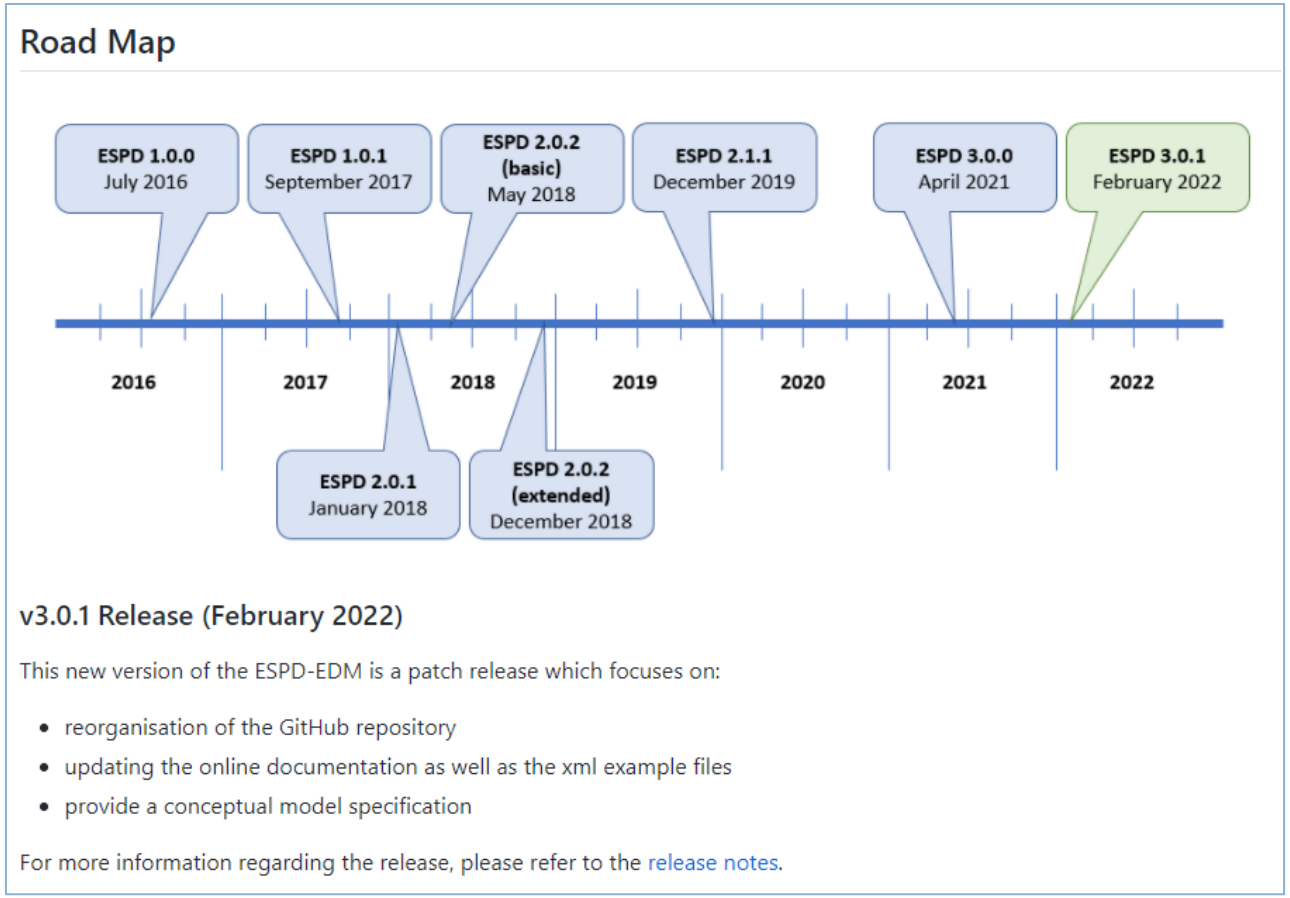
Reorganisation of the GitHub repository - Reorganisation of the distribution package folders:





ESPD-EDM v3.0.1 (2022 Q1)

Reorganisation of the GitHub repository - Update wiki homepage:



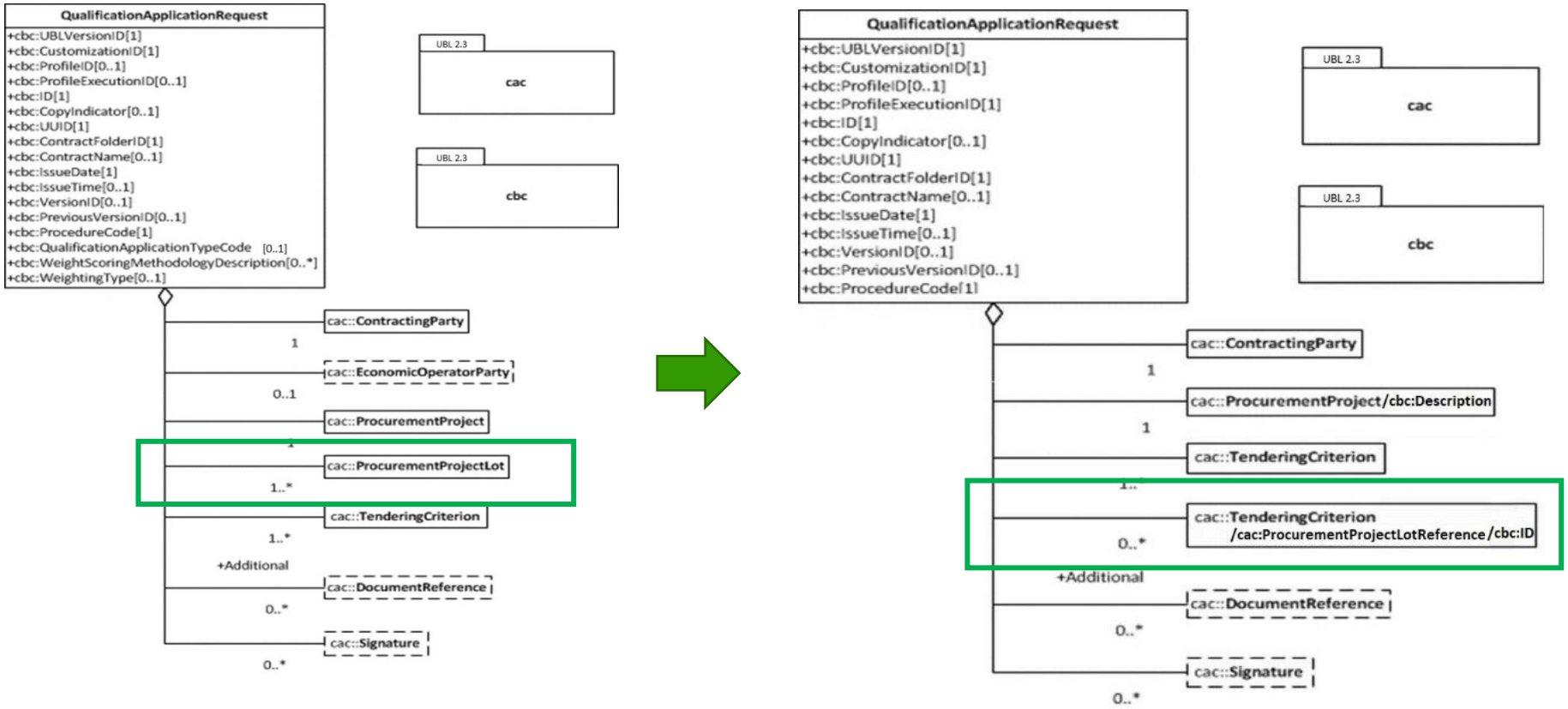
ESPD-EDM v3.0.1 (2022 Q1)

Update cardinalities in the online documentation (small bug fix)**:**

- Update cardinalities according to the online documentation review feedback;
- Coordinated with the conceptual model specification;
- Update code lists to the latest EU Vocabularies version, which implies the creation of TestBed new branch.

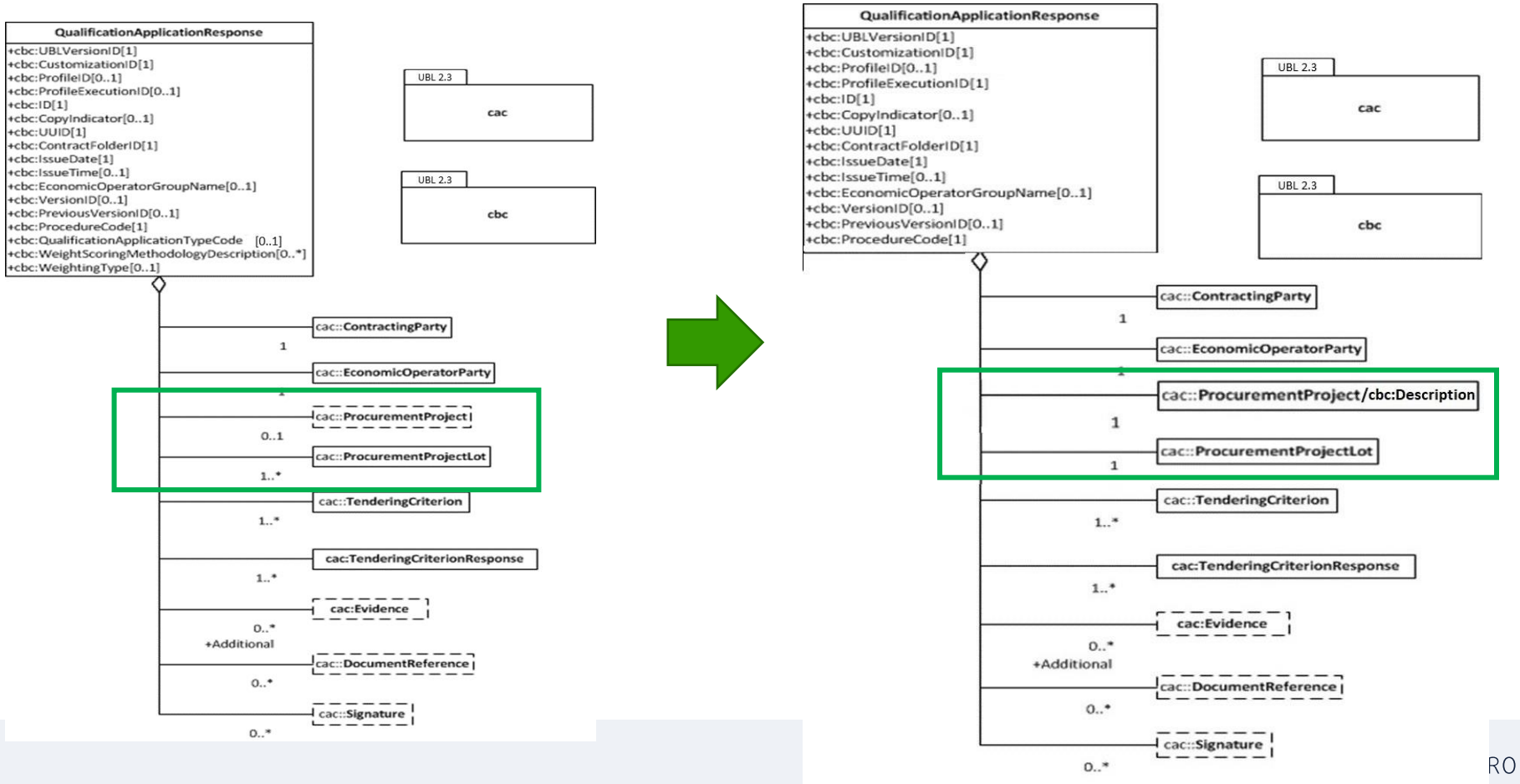
ESPD-EDM v3.0.1 (2022 Q1)

Update cardinalities in the online documentation – ESPD Request:



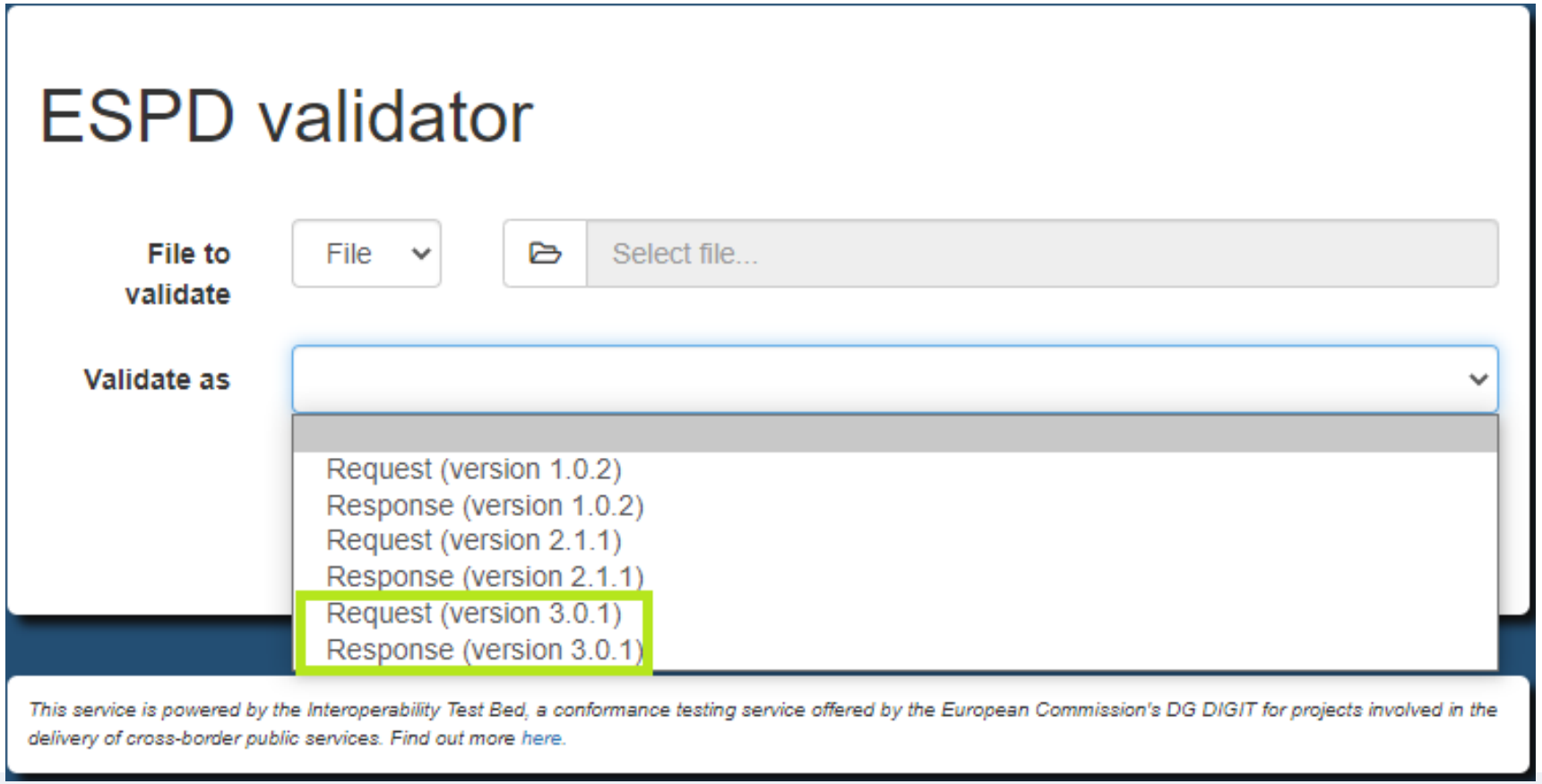
ESPD-EDM v3.0.1 (2022 Q1)

Update cardinalities in the online documentation – ESPD Response:



ESPD-EDM v3.0.1 (2022 Q1)

Update cardinalities in the online documentation – New version available in TestBed:



ESPD-EDM v3.0.1 (2022 Q1)

Update of cardinalities in the xml example files (small bug fix)**:**

- Update the xml examples according to the online documentation update;
- Small bug fix.

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ESPD-EDM V3.1.0 (2022 Q4)

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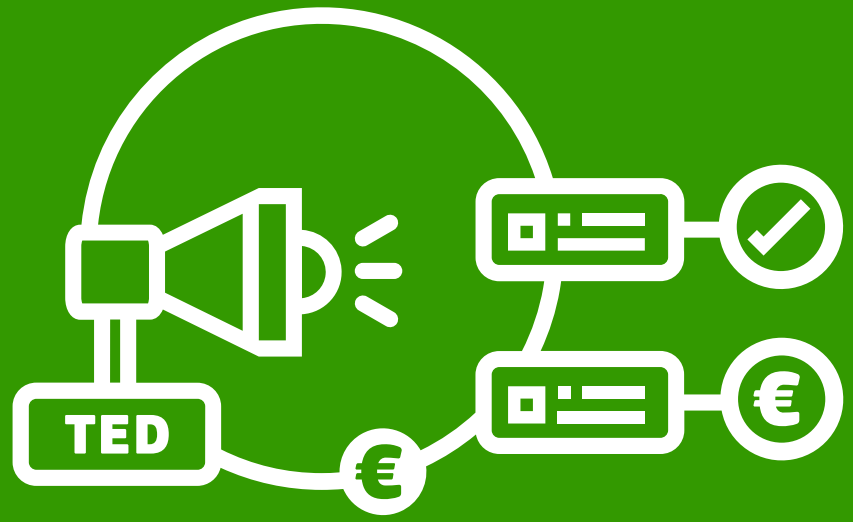


ESPD-EDM v3.1.0 (2022 Q4)

- **ESPD-EDM v3.1.0** is a **minor release** that will be released in **December 2022**.

- All changes included in the release are already implemented in the master branch. Currently, the ESPD Team is working in the preparation of the documentation for the release.

- ESPD-EDM v3.1.0 will provide updates covering:
  - Subcontracting proportion;
  - Occupation code list (ESCO);
  - Corrections in the data structure;
  - Schematron rules;
  - Corrections in code lists;
  - Revision of the conceptual model;
  - ESPD Test Cases Mapping Documentation.

ESPD-EDM v3.1.0 (2022 Q4)

Item	Change	Related issues
Subcontracting proportion	A new optional requirement section has been added to the criterion 51 with cardinality 0..n	#287
Occupation code list (ESCO)	• The current technical code list is replaced by the code list provided by EU Vocabularies with the updated values from ESCO (Multilingualclassification of European Skills, Competences, Qualifications and Occupations, https://esco.ec.europa.eu/) • Removal of the option “Other occupations” from documentation	#307, #347
Corrections in the data structure	• Data misplacement in several lines in Criteria 35, 52 and 53 • Incorrect or missing cardinalities • Incorrect use of the UUID • New requirement within a requirement group to show the number of fiscal years to be covered	#320, #322, #326, #327, #333, #338, #340, #343, #346, #350

ESPD-EDM v3.1.0 (2022 Q4)

Item	Change	Related issues
Schematron rules	Incorrect validation related to the ProfileID version	#324
Corrections in code lists	• Data Type: date format in code list Criterion • Financial ratio type: inconsistency between the language label and the actual language	#332, #337

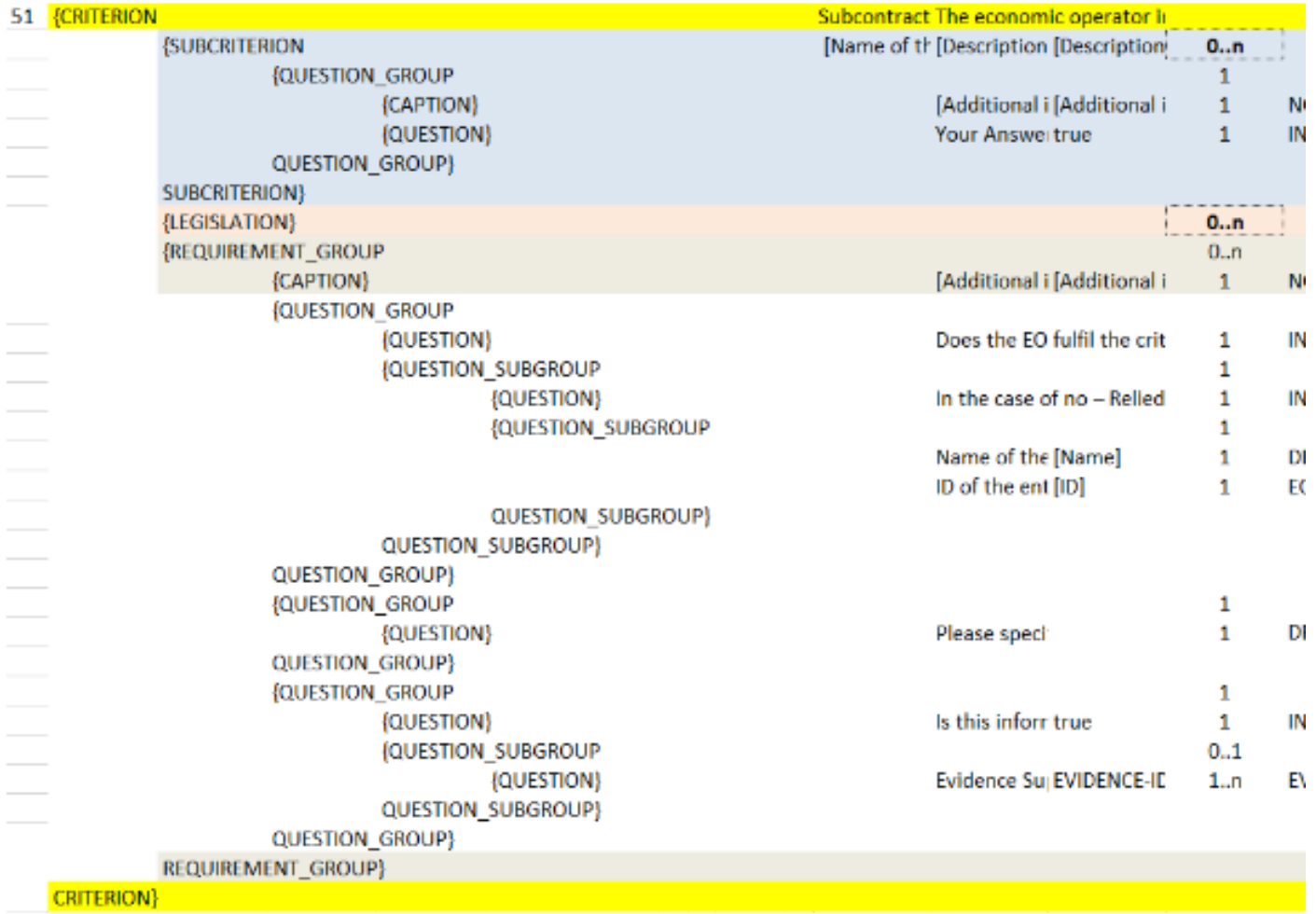
ESPD-EDM v3.1.0 (2022 Q4)

Subcontracting proportion (#287)

An optional requirement section has been added to the criterion 51 with cardinality 0..n.

A new UUID has been generated:

75b14cf3-c30f-4b8f-b9ab-549ff5ba595a



ESPD-EDM v3.1.0 (2022 Q4)

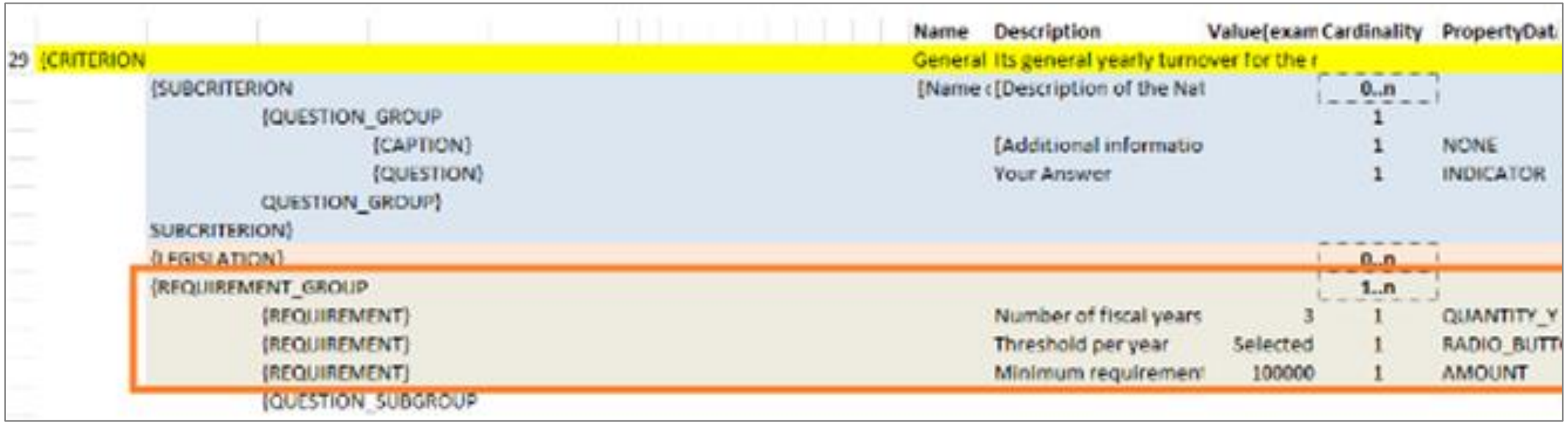
Occupation code list (ESCO) - #307, #347

- The Occupation code list maintained by **EU Vocabularies** will be used instead of the technical code list;
- The ESPD-EDM v3.1.0 includes the gc generated by EU Vocabularies, maintains the metadata on the repository, and the validation rules have been updated accordingly;
- This code list **does not include the code "0000.0“ - other occupations**;
- Option “Other occupations” has been removed from the data structure in the criterion C25 SC prof-regist, and will also be removed from the documentation to avoid any misunderstanding.

ESPD-EDM v3.1.0 (2022 Q4)

Corrections in the data structure (#340)

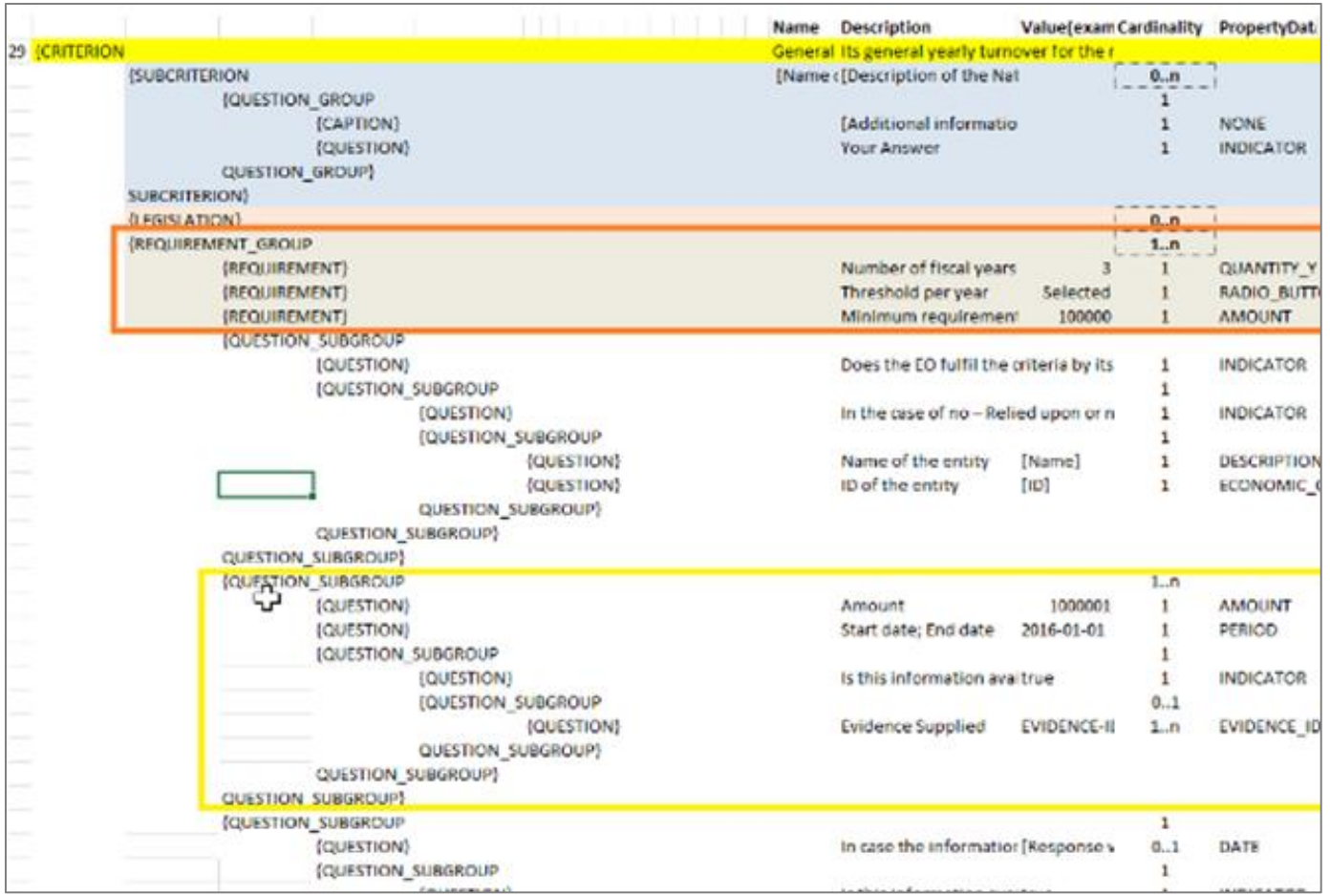
- A requirement that represents the number of fiscal years to be covered in the requirement group within criterion "General yearly turnover“, has been added;
- An intermediate requirement that represents the selection of “Threshold per year" has been added.



ESPD-EDM v3.1.0 (2022 Q4)

Corrections in the data structure (#340)

- When the yearly turnover is required for different years, the question_subgroup must be replicated.
- A new UUID to cover this data structure has been generated.



ESPD-EDM v3.1.0 (2022 Q4)

Conceptual model

- The conceptual model is available here:

  https://docs.ted.europa.eu/ESPD-EDM/3.0.1/_attachments/ESPD_CM_html/index.html

- The conceptual model has been **refined and cleansed**, as well as updated to ensure **consistency with the changes of ESPD-EDM v3.1.0** release.
- Both the ESPD-EDM-BusinessView (BOV) and the ESPD-EDM-UBLTechnicalView (TOV) of the conceptual model have been exhaustively reviewed and updated accordingly.
- The conceptual model will be shared with the **eProcurement Ontology Working Group**.

ESPD-EDM v3.1.0 (2022 Q4)

ESPD Test Cases Mapping Documentation

- For ESPD-EDM v2, the **document "ESPD Test Cases Mapping"** was available, which provided detailed **information regarding business rules**.

- The **goals** of this document were:
  - For each test case, identify the related business rules, describe the Schematron rules and map them with UBL-2.2 XSD;
  - To validate the criteria taxonomy and facilitate the understanding of the different validation artefacts in the ESPD-EDM.

- Since it has been reported that this document was a helpful tool for technical implementation (GitHub issue #331), **a simplified version of it is being elaborated** and will be provided as an annex to the Technical Handbook.

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ESPD-EDM V4.0.0 (2023 Q1)

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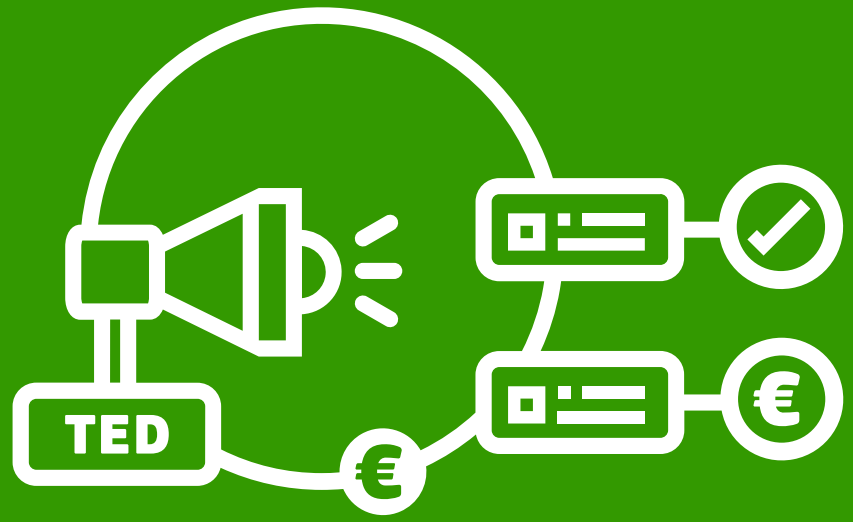


ESPD-EDM v4.0.0 (2023 Q1)

- **ESPD-EDM v4.0.0** will be a **major release** scheduled for **March 2023**.

- ESPD-EDM v4.0.0 will provide updates covering:
  - Different requirements for different lots;
  - Update of the current UUID for repeatable subgroups;
  - Corrections in the data structure;
  - Purely National Exclusion Grounds;
  - Corrections in code lists.

The final scope of the ESPD-EDM v4.0.0 is pending formal approval from the Change Management Board

ESPD-EDM v4.0.0 (2023 Q1)

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
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	#312
Purely National Exclusion Grounds	• Creation of an xml file test that includes question subgroup with multiple cardinality "1..n" replicated twice, allowing to provide more than one Purely National Exclusion Ground criterion • Update the Data Structure	#334*
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

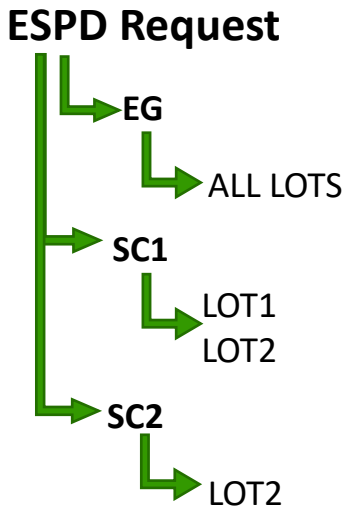
** All tasks completed on ESPD side. Tasks on eCertis side still pending.*

ESPD-EDM v4.0.0 (2023 Q1)

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 of the ESPD was aligned with eForms, from both the business and technical perspective.



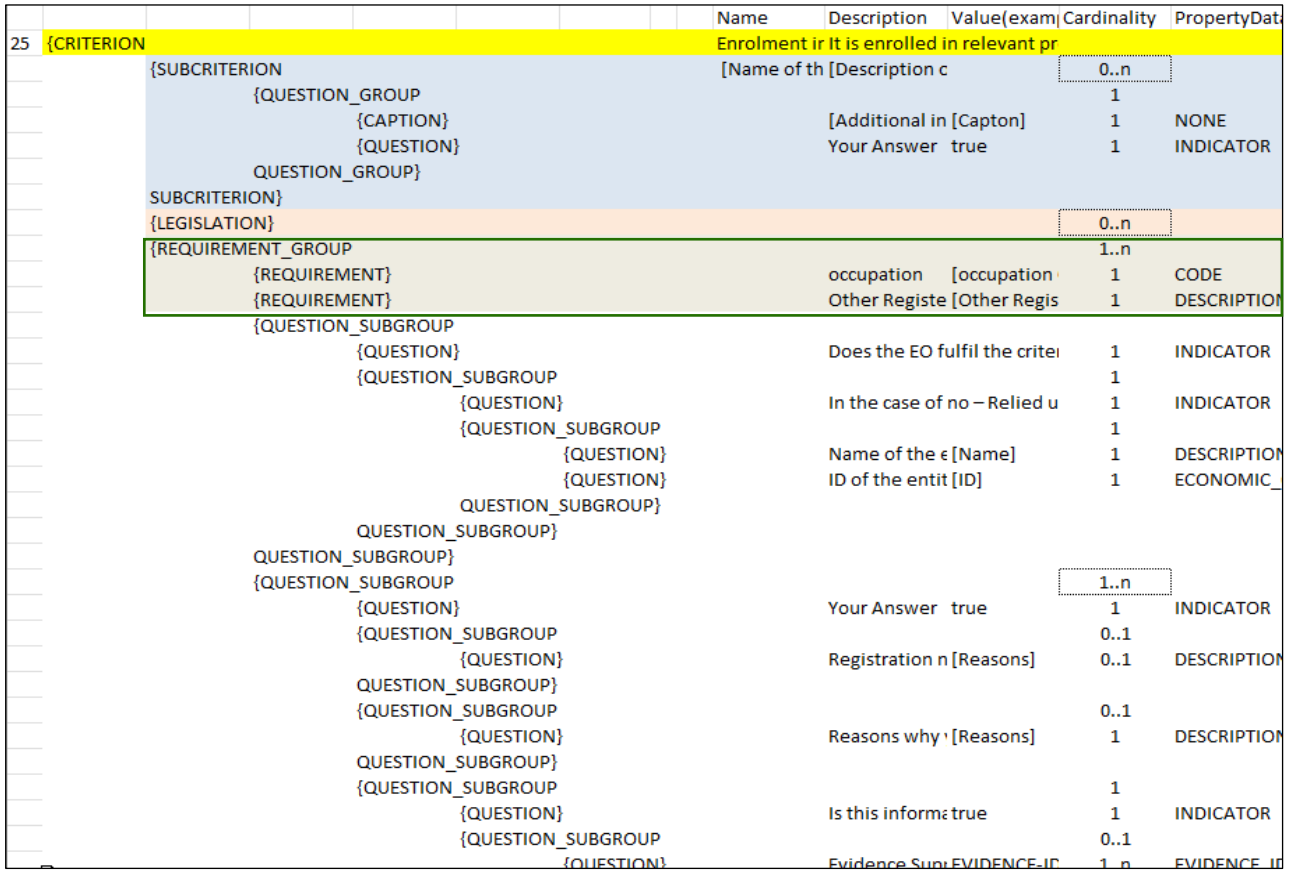
Issue:

- **Business view:** There are selection criteria that can implement different requirements per lot

- **Technical view*:*** The current technical implementation does not allow multiple and different requirement per lot.

ESPD-EDM v4.0.0 (2023 Q1)

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

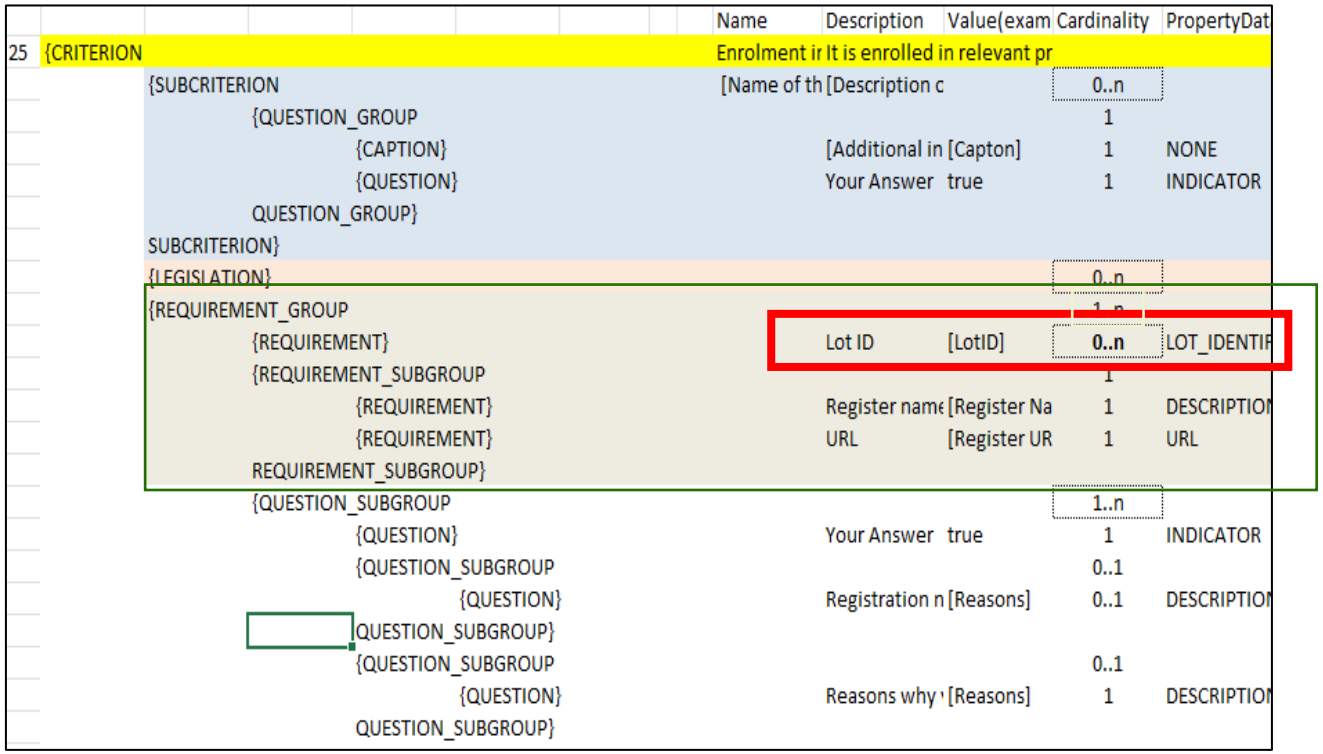


		Name	Description	Value(exam	Cardinality	PropertyDat
25	{CRITERION	Enrolment ir	It is enrolled in relevant pr			
	{SUBCRITERION	[Name of th	[Description c		0..n	
	{QUESTION_GROUP				1	
	{CAPTION}		[Additional in	[Capton]	1	NONE
	{QUESTION}		Your Answer	true	1	INDICATOR
	QUESTION_GROUP}					
	SUBCRITERION}					
	{LEGISLATION}				0..n	
	{REQUIREMENT_GROUP				1..n	
	{REQUIREMENT}		occupation	[occupation	1	CODE
	{REQUIREMENT}		Other Registe	[Other Regis	1	DESCRIPTIO
	{QUESTION_SUBGROUP					
	{QUESTION}		Does the EO fulfil the crite		1	INDICATOR
	{QUESTION_SUBGROUP				1	
	{QUESTION}		In the case of no – Relied u		1	INDICATOR
	{QUESTION_SUBGROUP				1	
	{QUESTION}		Name of the e	[Name]	1	DESCRIPTIO
	{QUESTION}		ID of the entit	[ID]	1	ECONOMIC_
	QUESTION_SUBGROUP}					
	QUESTION_SUBGROUP}					
	QUESTION_SUBGROUP}					
	{QUESTION_SUBGROUP				1..n	
	{QUESTION}		Your Answer	true	1	INDICATOR
	{QUESTION_SUBGROUP				0..1	
	{QUESTION}		Registration n	[Reasons]	0..1	DESCRIPTIO
	QUESTION_SUBGROUP}					
	{QUESTION_SUBGROUP				0..1	
	{QUESTION}		Reasons why	[Reasons]	1	DESCRIPTIO
	QUESTION_SUBGROUP}					
	{QUESTION_SUBGROUP				1	
	{QUESTION}		Is this informa	true	1	INDICATOR
	{QUESTION_SUBGROUP				0..1	
	{QUESTION}		Evidence Sup	EVIDENCE-ID	1..n	EVIDENCE_ID

- 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

ESPD-EDM v4.0.0 (2023 Q1)

Different requirements for different lots. TO-BE data structure view (*as implemented in v2.1.1*)



		Name	Description	Value(exam	Cardinality	PropertyDat
25	{CRITERION	Enrolment ir	It is enrolled in relevant pr			
	{SUBCRITERION	[Name of th	[Description c		0..n	
	{QUESTION_GROUP				1	
	{CAPTION}		[Additional in	[Capton]	1	NONE
	{QUESTION}		Your Answer	true	1	INDICATOR
	QUESTION_GROUP}					
	SUBCRITERION}					
	{LEGISLATION}				0..n	
	{REQUIREMENT_GROUP				1..n	
	{REQUIREMENT}		Lot ID	[LotID]	0..n	LOT_IDENTIF
	{REQUIREMENT_SUBGROUP				1	
	{REQUIREMENT}		Register name	[Register Na	1	DESCRIPTION
	{REQUIREMENT}		URL	[Register UR	1	URL
	REQUIREMENT_SUBGROUP}					
	{QUESTION_SUBGROUP				1..n	
	{QUESTION}		Your Answer	true	1	INDICATOR
	{QUESTION_SUBGROUP				0..1	
	{QUESTION}		Registration n	[Reasons]	0..1	DESCRIPTION
	QUESTION_SUBGROUP}					
	{QUESTION_SUBGROUP				0..1	
	{QUESTION}		Reasons why '	[Reasons]	1	DESCRIPTION
	QUESTION_SUBGROUP}					

- Inclusion of a field / requirement to specify LOTS where it applies
- Requirements could be replicated (cardinality 1..n)
- Lots would be referenced two times: one at the beginning of the criteria, and second within the requirement

ESPD-EDM v4.0.0 (2023 Q1)

Purely National Exclusion Grounds (#334)

- 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).

		Name	Description	Value(exam	Cardinality	Property
24	{CRITERION	Purely national	Other exclusion grounds that may be foreseen in the			
	{LEGISLATION}				0..n	
	{QUESTION_GROUP				1	
	{CAPTION}					NONE
	{QUESTION_SUBGROUP				1..n	
	{CAPTION}		[Text describing the national criterion]	Failure to submit certificat		NONE
	{CAPTION}		[Type of evidence from e-Certis]	No evidence		NONE
	{QUESTION}		Your answer?			INDICAT
	{QUESTION_SUBGROUP				1	
	{QUESTION}		Is this information available electronical	true	1	INDICAT
	{QUESTION_SUBGROUP				0..1	
	{QUESTION}		Evidence Supplied	EVIDENCE-ID	1..n	EVIDENC
	QUESTION_SUBGROUP}					
	QUESTION_SUBGROUP}					
	QUESTION_SUBGROUP}					
	QUESTION_GROUP}					
	CRITERION}					

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REPLACEMENT OF UUIDS (ESPD-EDM V4.0.0)

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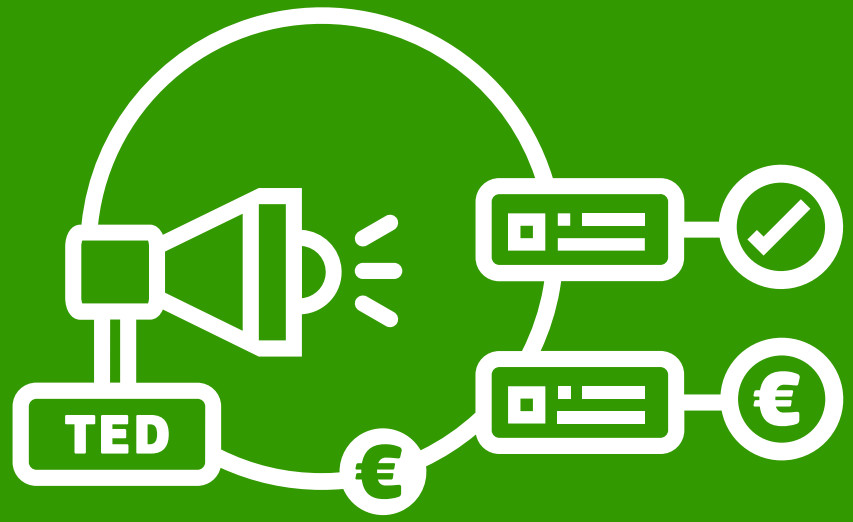


Replacement of UUIDs (ESPD-EDM v4.0.0)

- 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 (ESPD-EDM v4.0.0)

- 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 (ESPD-EDM v4.0.0)

- **Problem statement**:
  - Currently, questions in criteria need to be instantiated for each procurement procedure instead of reusing criteria from earlier procurement procedures.

- **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).

- **Proposed solution**:
  - Reduce the randomness on the ESPD Request by no longer using dynamic UUIDs and defining fixed identifiers for requirements and questions (identifiers are already fixed for criteria).

Replacement of UUIDs (ESPD-EDM v4.0.0)

- 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}

- C1_EG_crime-org/QG1/QSG1/Q1
- C1_EG_crime-org/QG1/QSG1/Q1/R2
- C32_SC_spec-year-to/RG1/QSG2/Q2/R2

Replacement of UUIDs (ESPD-EDM v4.0.0)
ESPD-EDM v3.1.0 vs ESPD-EDM v4.0.0

Example of the UUIDs that will be removed (in red) and of the new identifiers that will be used for the Request and the Response (in green)

| | | |

Replacement of UUIDs (ESPD-EDM v4.0.0)
Criterion elements' short tag and matching UBL element

Criterion Element Short Tag Name	Criterion Element	UBL Element
C	CRITERION (Exclusion GroundsEG, Selection Criterion SC)	cac:TenderingCriterion
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

Replacement of UUIDs (ESPD-EDM v4.0.0)
Management of Questions

3	C1	{CRITERION			Participation in a criminal org	Has the economic operator itself or any person \	
4		SBC1	{SUBCRITERION		[Name of the National Criter	[Description of the National Criterion]	0..n
5			QG1	{QUESTION_GROUP			1
6				CA1 {CAPTION}		[Additional information; e.g. no evidences online]	1
7				Q1 {QUESTION}		Your Answer	1
8				QUESTION_GROUP}			
9			SUBCRITERION}				
10		L1	{LEGISLATION}				0..n
11		QG1	{QUESTION_GROUP				1
12			Q1 {QUESTION}		Your answer	true	1
13			QSG1 {QUESTION_SUBGROUP				0..n
14				Q1 {QUESTION}	Date of conviction	2015-12-09	1
15				Q2 {QUESTION}	Reason	[Reason provided by t	1
16				Q3 {QUESTION}	Who has been convicted	[Convicted person or l	1
17				Q4 {QUESTION}	Length of the period of exclusion	2016-01-01	1
18				QSG1 {QUESTION_SUBGROUP			1
19					Q1 {QUESTION}	Have you taken measures to demonstrate your r	true 1
20					QSG1 {QUESTION_SUBGROUP		0..1
21						Q1 {QUESTION}	Please describe them [Measures taken by th 1
22						QUESTION_SUBGROUP}	
23					QUESTION_SUBGROUP}		
24				QSG2 {QUESTION_SUBGROUP			1
25					Q1 {QUESTION}	Is this information available electronically?	true 1
26					QSG1 {QUESTION_SUBGROUP		0..1
27						Q1 {QUESTION}	Evidence Supplied EVIDENCE-ID 1..n
28						QUESTION_SUBGROUP}	

EG-Convictions | EG-Contributions | EG-Environ-Social-Labour_Law | EG-Business | EG-Misconduct | EG-Conflict_(...

Ready Accessibility: Investigate 100%

Example of the tagging and numbering of the criterion C1 EG crime-org

Replacement of UUIDs (ESPD-EDM v4.0.0)
Management of Questions

Path samples - Questions

- **UUID AS-IS Question ID**
  - a1534624-95cf-4519-bdaa-856d5acf59b6 (**Q1 "Date of conviction"**)
  - f36ee1fb-210b-4786-b351-e0194ba2df89 (**Q2 "Reason"**)
- **New identifiers (XML path-like) for Question ID (structure)**
  - C1_EG_crime-org/QG1/QSG1/Q1
  - C1_EG_crime-org/QG1/QSG1/Q2
  - C32_SC_spec-year-to/RG1/QSG2/Q2
- **New identifiers (XML path-like) for EO responses (contents)**
  - C1_EG_crime-org/QG1/QSG1/Q1/R1
  - C1_EG_crime-org/QG1/QSG1/Q1/R2
  - C32_SC_spec-year-to/RG1/QSG2/Q2/R2/RV

Replacement of UUIDs (ESPD-EDM v4.0.0)
Management of Questions

- Example of **question structure description**:

<cac:TenderingCriterionProperty>

<cbc:ID schemeID = "criterion" schemeAgencyID = "XXESPD-SERVICEXXX" schemeVersionID = “4.0.0">**C1_EG_crime-org/QG1/QSG1/Q1</cbc:ID>** ← *ID of the question*

<cbc:Description>Date of conviction**</cbc:Description>** ← *Description of the question*

<cbc:TypeCode listID = "criterion-element-type" listAgencyID = "OP" listVersionID = " 4.0.0 ">QUESTION**</cbc:TypeCode>** ← *Type code of the question*

<cbc:ValueDataTypeCode listID = "response-data-type" listAgencyID = "OP" listVersionID = " 4.0.0 ">DATE**</cbc:ValueDataTypeCode>** ← *Data type of the question*

</cac:TenderingCriterionProperty>

Replacement of UUIDs (ESPD-EDM v4.0.0)
Management of Questions

- Example of **question contents description** (ESPD Response) - Response Value (RV 1)

```
<cac:TenderingCriterionResponse>

        <cbc:ID schemeID = "ISO/IEC 9834-8:2008 - 4UUID" schemeAgencyID = "XXESPD-
  SERVICEXXX" schemeVersionID = “4.0.0">C1_EG_crime-org/QG1/QSG1/Q1/R1</cbc:ID>

        <cbc:ValidatedCriterionPropertyID schemeID = "Criterion" schemeAgencyID = "XXESPD-
  SERVICEXXX" schemeVersionID = “4.0.0">
C1_EG_crime-org/QG1/QSG1/Q1</cbc:ValidatedCriterionPropertyID>

        <cac:ResponseValue>
            <cbc:ID schemeID = "ISO/IEC 9834-8:2008 - 4UUID" schemeAgencyID = "XXESPD-
  SERVICEXXX" schemeVersionID = “4.0.0">C1_EG_crime-org/QG1/QSG1/Q1/R1/RV</cbc:ID>
            <cbc:ResponseDate>2014-01-01</cbc:ResponseDate>
        </cac:ResponseValue>

</cac:TenderingCriterionResponse>
```

ID of the tendering response

ID of the question

ID of the response value (RV)

Replacement of UUIDs (ESPD-EDM v4.0.0)
Management of Questions

- Example of **question contents description** (ESPD Response) - Response Value (RV 2)

```
<cac:TenderingCriterionResponse>

        <cbc:ID schemeID = "ISO/IEC 9834-8:2008 - 4UUID" schemeAgencyID = "XXESPD-
  SERVICEXXX" schemeVersionID = “4.0.0">C1_EG_crime-org/QG1/QSG1/Q1/R2</cbc:ID>

        <cbc:ValidatedCriterionPropertyID schemeID = "Criterion" schemeAgencyID = "XXESPD-
  SERVICEXXX" schemeVersionID = “4.0.0">
C1_EG_crime-org/QG1/QSG1/Q1</cbc:ValidatedCriterionPropertyID>

        <cac:ResponseValue>
            <cbc:ID schemeID = "ISO/IEC 9834-8:2008 - 4UUID" schemeAgencyID = "XXESPD-
  SERVICEXXX" schemeVersionID = “4.0.0">C1_EG_crime-org/QG1/QSG1/Q1/R2/RV</cbc:ID>
            <cbc:ResponseDate>2017-01-01</cbc:ResponseDate>
        </cac:ResponseValue>

</cac:TenderingCriterionResponse>
```

ID of the tendering response

ID of the question

ID of the response value (RV)

Replacement of UUIDs (ESPD-EDM v4.0.0)
Management of Questions

- Example of **question contents description** (ESPD Response) - Response Evidence Supplied (RES)

ID of the tendering response

```
<cac:TenderingCriterionResponse>

        <cbc:ID schemeID = "ISO/IEC 9834-8:2008 - 4UUID" schemeAgencyID = "XXESPD-
  SERVICEXXX" schemeVersionID = “4.0.0">C1_EG_crime-org/QG2/QSG1/Q1/R1</cbc:ID>

        <cbc:ValidatedCriterionPropertyID schemeID = "Criterion" schemeAgencyID = "XXESPD-
  SERVICEXXX" schemeVersionID = “4.0.0">
C1_EG_crime-org/QG2/QSG1/Q1</cbc:ValidatedCriterionPropertyID>

        <cac:EvidenceSupplied>
            <cbc:ID schemeAgencyID = "XXESPD-SERVICEXXX">
EVIDENCE-00001/C1_EG_crime-org/QG2/QSG1/Q1/R1/RES</cbc:ID>
        </cac:EvidenceSupplied>

</cac:TenderingCriterionResponse>
```

ID of the question

ID of the evidence (Respone Evidence Supplied, RES)

Replacement of UUIDs (ESPD-EDM v4.0.0)
Management of Requirements

3	C32	{CRITERION			Specific y	Its specific yearly turnover in the business ar			074f6031-55f9-4e
4		SBC1	{SUBCRITERION		[Name c	[Description of the Nationa		0..n	e6b21867-95b5-4
5			QG1	{QUESTION_GROUP				1	8c39b505-8abe-4
6				CA1	{CAPTION}		[Additional information; e.	1	NONE
7				Q1	{QUESTION}		Your Answer	1	INDIC
8				QUESTION_GROUP}					
9			SUBCRITERION}						
10		L1	{LEGISLATION}					0..n	c753a2c5-59e6-49
11		RG1	**{REQUIREMENT_GROUP**				**RG to define different lots**	**1..n**	**FixedUUID**
12			RQ1	**{REQUIREMENT}**			**Lot Identifier** **LOT-XXXXX**	**1..n**	
13			RSG1	{REQUIREMENT_SUBGROUP				1	19a68e37-d307-4
14				RQ1	{REQUIREMENT}		Number of fiscal years 3	1	QUAN
15				RQ2	{REQUIREMENT}		Business domain descriptic IT consulting / de	1	DESC
16				RQ3	{REQUIREMENT}		Minimum requirement 1000000	1	AMO
17				QSG1	{QUESTION_SUBGROUP				0e50931d-4d39-4
18					Q1	{QUESTION}	Does the EO fulfil the criteria by itself?	1	INDIC
19					QSG1	{QUESTION_SUBGROUP		1	fe557ed0-2387-4
20						Q1 {QUESTION}	In the case of no – Relied upon or not	1	INDIC
21						QSG1 {QUESTION_SUBGROUP		1	e296a1cc-83d3-4
22						Q1 {QUESTION}	Name of the entity [Name]	1	DESC
23						Q2 {QUESTION}	ID of the entity [ID]	1	ECON
24						QUESTION_SUBGROUP}			
25						QUESTION_SUBGROUP}			
26					QUESTION_SUBGROUP}				

... | SC-Specific_Yearly_Turnover | **SC-Specific_Yearly_TurnoverLOT** | SC-Specific_Yearly_TurnoverLOcc | SC-Financial_ra ...

Example of the management of Requirements (RQ) and LOTS, as implemented in v2.1.1

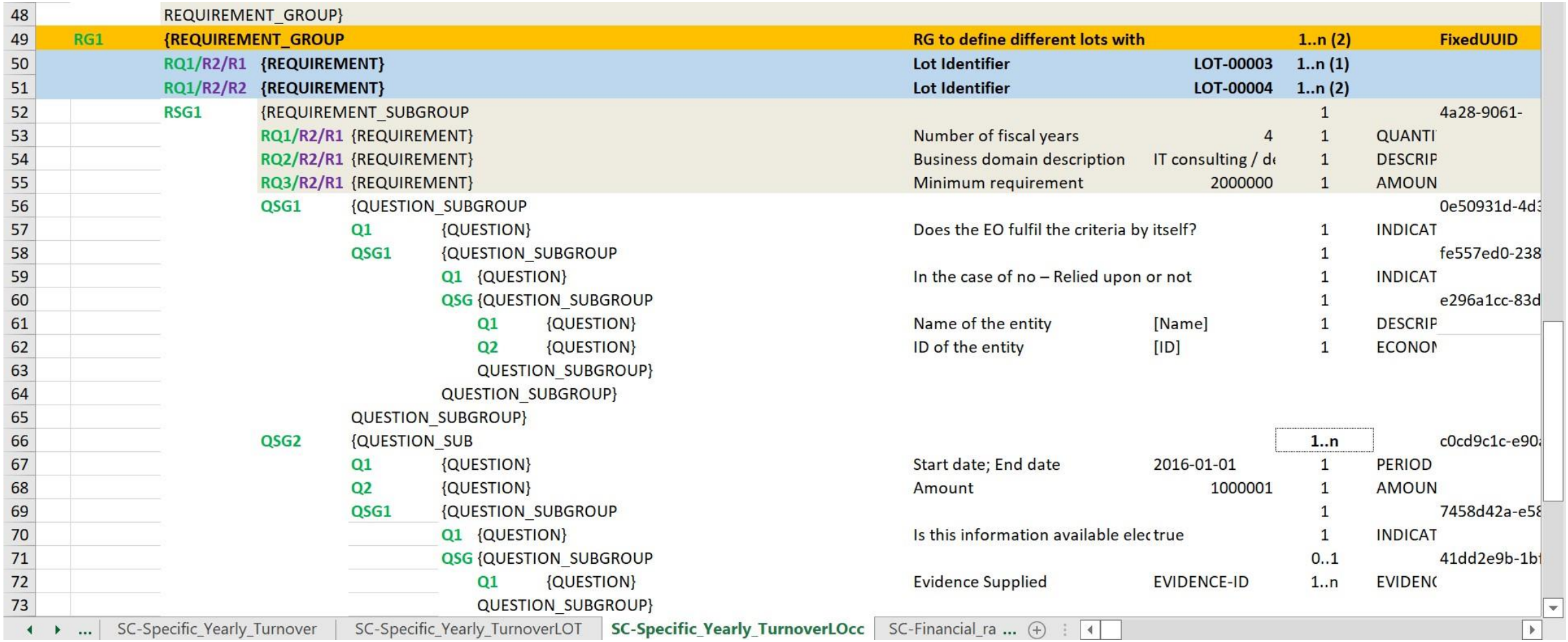
Replacement of UUIDs (ESPD-EDM v4.0.0)
Management of Requirements

3	C32	{CRITERION				Specific y	Its specific yearly turnover in the business area cc			074f6031-55f
4		SBC1	{SUBCRITERION			[Name c	[Description of the National Crit		0..n	e6b21867-95b
5			QG1	{QUESTION_GROUP					1	8c39b505-8ab
6				CA1	{CAPTION}		[Additional information; e.g. no		1	NONE
7				Q1	{QUESTION}		Your Answer		1	INDICAT
8				QUESTION_GROUP}						
9			SUBCRITERION}							
10		L1	{LEGISLATION}						0..n	c753a2c5-59e
11		RG1	**{REQUIREMENT_GROUP**				**RG to define different lots with**		**1..n (1)**	**FixedUUID**
12			RQ1/R1/R1	**{REQUIREMENT}**			**Lot Identifier**	**LOT-00001**	**1..n (1)**	
13			RQ1/R1/R2	**{REQUIREMENT}**			**Lot Identifier**	**LOT-00002**	**1..n (2)**	
14			RSG1	{REQUIREMENT_SUBGROUP					1	4a28-9061-
15				RQ1/R1/R1	{REQUIREMENT}		Number of fiscal years	3	1	QUANTI
16				RQ2/R1/R1	{REQUIREMENT}		Business domain description	IT consulting / d	1	DESCRIP
17				RQ3/R1/R1	{REQUIREMENT}		Minimum requirement	1000000	1	AMOUN
18				QSG1	{QUESTION_SUBGROUP					0e50931d-4d3
19					Q1	{QUESTION}	Does the EO fulfil the criteria by itself?		1	INDICAT
20					QSG1	{QUESTION_SUBGROUP			1	fe557ed0-238
21						Q1 {QUESTION}	In the case of no – Relied upon or not		1	INDICAT
22						QSG {QUESTION_SUBGROUP			1	e296a1cc-83d
23						Q1 {QUESTION}	Name of the entity	[Name]	1	DESCRIP
24						Q2 {QUESTION}	ID of the entity	[ID]	1	ECONOM
25						QUESTION_SUBGROUP}				
26					QUESTION_SUBGROUP}					

... | SC-Specific Yearly Turnover | SC-Specific Yearly TurnoverLOT | **SC-Specific Yearly TurnoverLOcc** | SC-Financial ra ...

First occurrence (lots 1 and 2)

Replacement of UUIDs (ESPD-EDM v4.0.0)
Management of Requirements



48			REQUIREMENT_GROUP}						
49	RG1		{REQUIREMENT_GROUP		RG to define different lots with		1..n (2)		FixedUUID
50		RQ1/R2/R1	{REQUIREMENT}		Lot Identifier	LOT-00003	1..n (1)		
51		RQ1/R2/R2	{REQUIREMENT}		Lot Identifier	LOT-00004	1..n (2)		
52		RSG1	{REQUIREMENT_SUBGROUP				1		4a28-9061-
53			RQ1/R2/R1	{REQUIREMENT}	Number of fiscal years	4	1	QUANTI	
54			RQ2/R2/R1	{REQUIREMENT}	Business domain description	IT consulting / d	1	DESCRIP	
55			RQ3/R2/R1	{REQUIREMENT}	Minimum requirement	2000000	1	AMOUN	
56			QSG1	{QUESTION_SUBGROUP					0e50931d-4d3
57				Q1	{QUESTION}	Does the EO fulfil the criteria by itself?		1	INDICAT	
58				QSG1	{QUESTION_SUBGROUP			1		fe557ed0-238
59					Q1 {QUESTION}	In the case of no – Relied upon or not		1	INDICAT	
60					QSG {QUESTION_SUBGROUP			1		e296a1cc-83d
61					Q1 {QUESTION}	Name of the entity	[Name]	1	DESCRIP	
62					Q2 {QUESTION}	ID of the entity	[ID]	1	ECONOM	
63					QUESTION_SUBGROUP}					
64					QUESTION_SUBGROUP}					
65				QUESTION_SUBGROUP}						
66			QSG2	{QUESTION_SUB				1..n		c0cd9c1c-e90
67				Q1	{QUESTION}	Start date; End date	2016-01-01	1	PERIOD	
68				Q2	{QUESTION}	Amount	1000001	1	AMOUN	
69				QSG1	{QUESTION_SUBGROUP			1		7458d42a-e58
70					Q1 {QUESTION}	Is this information available elec	true	1	INDICAT	
71					QSG {QUESTION_SUBGROUP			0..1		41dd2e9b-1bf
72					Q1 {QUESTION}	Evidence Supplied	EVIDENCE-ID	1..n	EVIDENC	
73					QUESTION_SUBGROUP}					

... | SC-Specific_Yearly_Turnover | SC-Specific_Yearly_TurnoverLOT | **SC-Specific_Yearly_TurnoverLOcc** | SC-Financial_ra ...

Second occurrence (lots 3 and 4)

Replacement of UUIDs (ESPD-EDM v4.0.0)
Management of Requirements

<u>Path samples - Requirements</u> (values are nested in the structure)

- **UUID AS-IS Requirement ID**
  - 8d23f156-be4f-4fc7-ae87-c4b2bde59366 (**RQ1 "Number of fiscal years"**)
  - bf8a8e1d-ad69-4bb9-a023-81b924cb9049 (**RQ3 "Minimum Amount"**)

- **New identifiers (XML path-like) for Requirement ID** (structure and occurrence indexing)
  - C32_SC_spec-year-to/RG1/RSG1/RQ1/R1/R1
  - C32_SC_spec-year-to/RG1/RSG1/RQ3/R2/R1

Replacement of UUIDs (ESPD-EDM v4.0.0)
Management of Requirements

- Example of requirements values description (ESPD Request) – RG, RQ, LOT

ID of the requirement

Additional information about the requirement

Description of the requirement

```
<cac:TenderingCriterionProperty>

    <cbc:ID schemeID="Criterion" schemeAgencyID="XXESPD-SERVICEXXX"
schemeVersionID="4.0.0">C32_SC_spec-year-to/RG1/RQ1/R1/R2</cbc:ID>

    <cbc:Description>Lot Identifier (General to the RG Occurrence)</cbc:Description>

    <cbc:TypeCode listID="CriterionElementType" listAgencyID="OP"
listVersionID="4.0.0">REQUIREMENT</cbc:TypeCode>

    <cbc:ValueDataTypeCode listID="ResponseDataType" listAgencyID="OP"
listVersionID=" 4.0.0 ">LOT_IDENTIFIER</cbc:ValueDataTypeCode>

    <cbc:ExpectedID schemeAgencyID="XXESPD-SERVICEXXX">LOT-00002
</cbc:ExpectedID>

</cac:TenderingCriterionProperty>
```

Type code

Data type

Value

Replacement of UUIDs (ESPD-EDM v4.0.0)
Management of Requirements

- Example of requirements values description (ESPD Request) – RG, RQ, QSG:

ID of the requirement

Additional information about the requirement

Description of the requirement

```
<cac:TenderingCriterionProperty>

    <cbc:ID schemeID = "criterion" schemeAgencyID = "XXESPD-SERVICEXXX"
schemeVersionID = “4.0.0">C32_SC_spec-year-to/RG1/RSG1/RQ1/R1/R1</cbc:ID>

    <cbc:Description>Number of fiscal years (Target QSG: C32_SC_spec-year-
to/RG1/RSG1/QSG2)</cbc:Description>

    <cbc:TypeCode listID = "criterion-element-type" listAgencyID = "OP" listVersionID = "
4.0.0 ">REQUIREMENT</cbc:TypeCode>

    <cbc:ValueDataTypeCode listID = "response-data-type" listAgencyID = "OP"
listVersionID = " 4.0.0 ">QUANTITY_YEAR</cbc:ValueDataTypeCode>

    <cbc:ExpectedValueNumeric>3</cbc:ExpectedValueNumeric>

</cac:TenderingCriterionProperty>
```

Type code

Data type

Value

Replacement of UUIDs (ESPD-EDM v4.0.0)

Implications of the solution

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

Replacement of UUIDs (ESPD-EDM v4.0.0)

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** in different procedures;
- 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.

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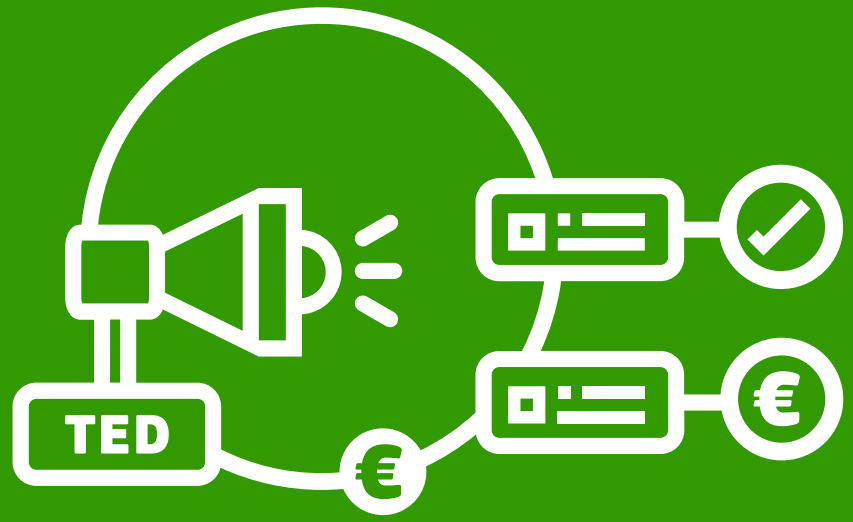
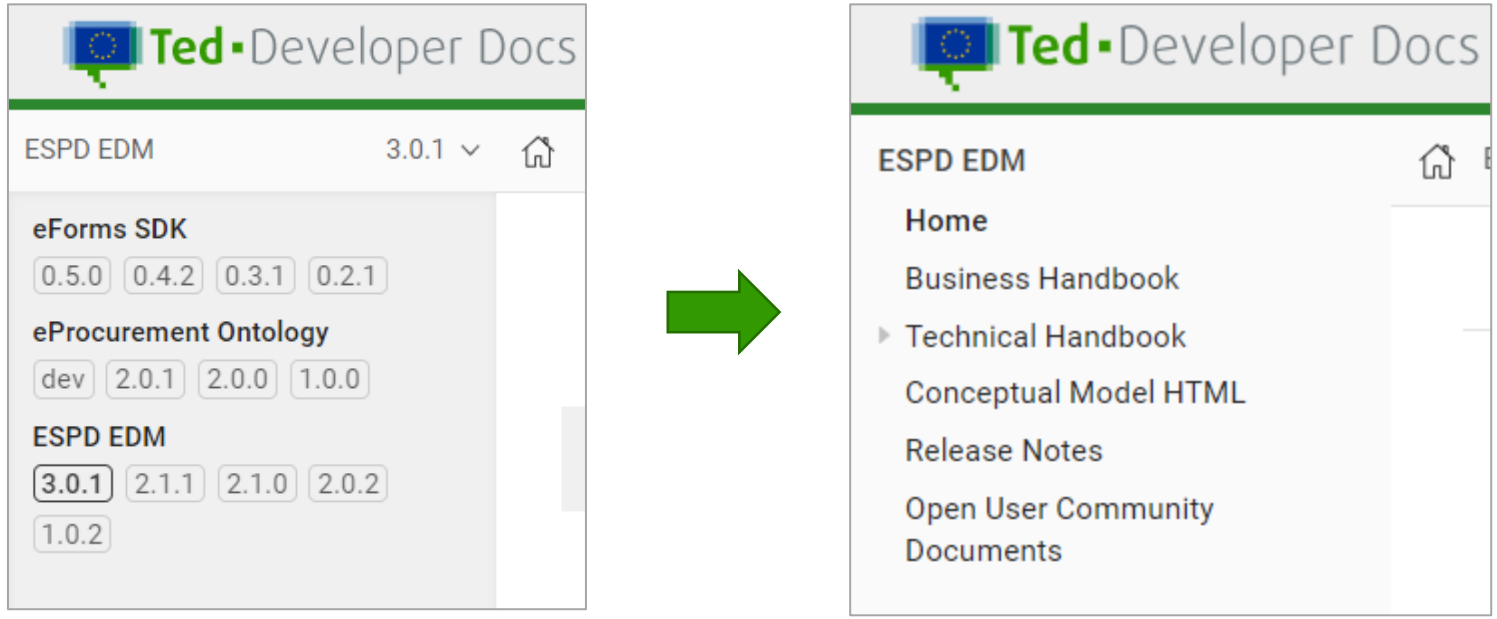
UPDATE OF THE ESPD-EDM WEBPAGES AND DOCUMENTATION

Alba Colomer Padrosa, NTTDATA



Update of the ESPD-EDM webpages and documentation

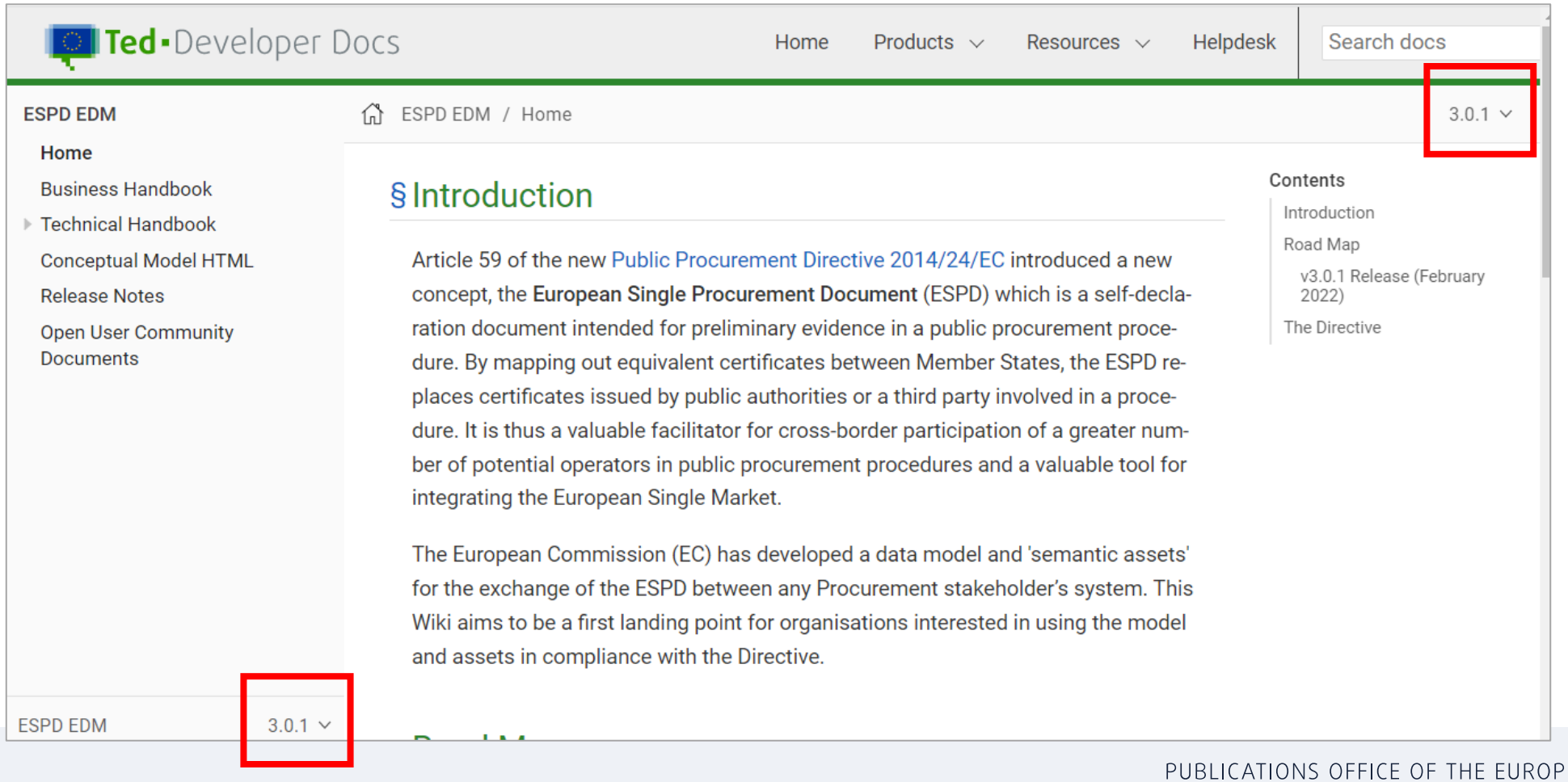
- From v3.0.1, lateral navigation menu was updated:



- Previous versions are available through drop-down menus at the upper right corner of the screen and at the bottom of the navigation menu.
- Links to eForms and EPO projects were removed (but are still accessible from https://docs.ted.europa.eu/home/index.html).

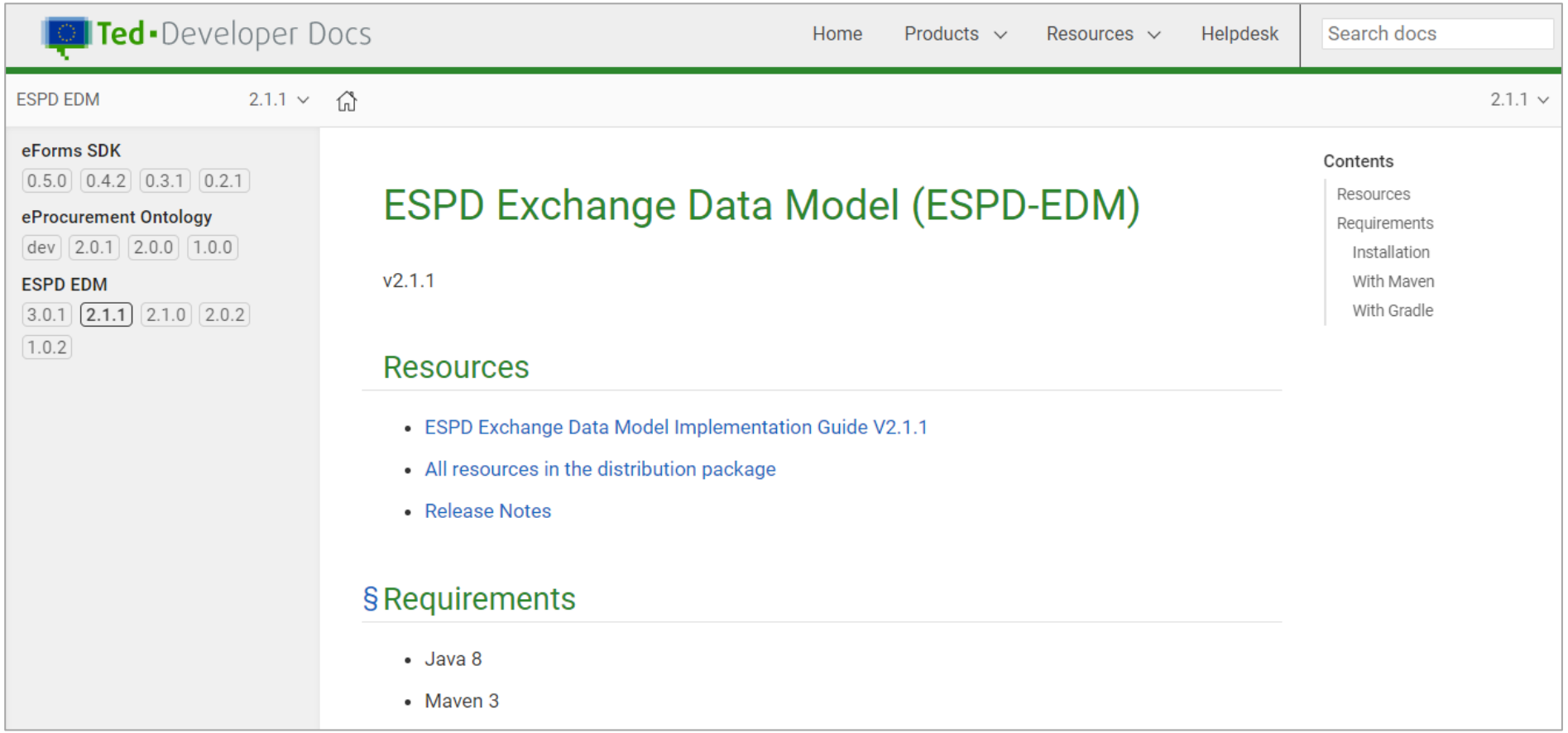
Update of the ESPD-EDM webpages and documentation

- ESPD EDM v3.0.1 webpage: https://docs.ted.europa.eu/ESPD-EDM/3.0.1/index.html



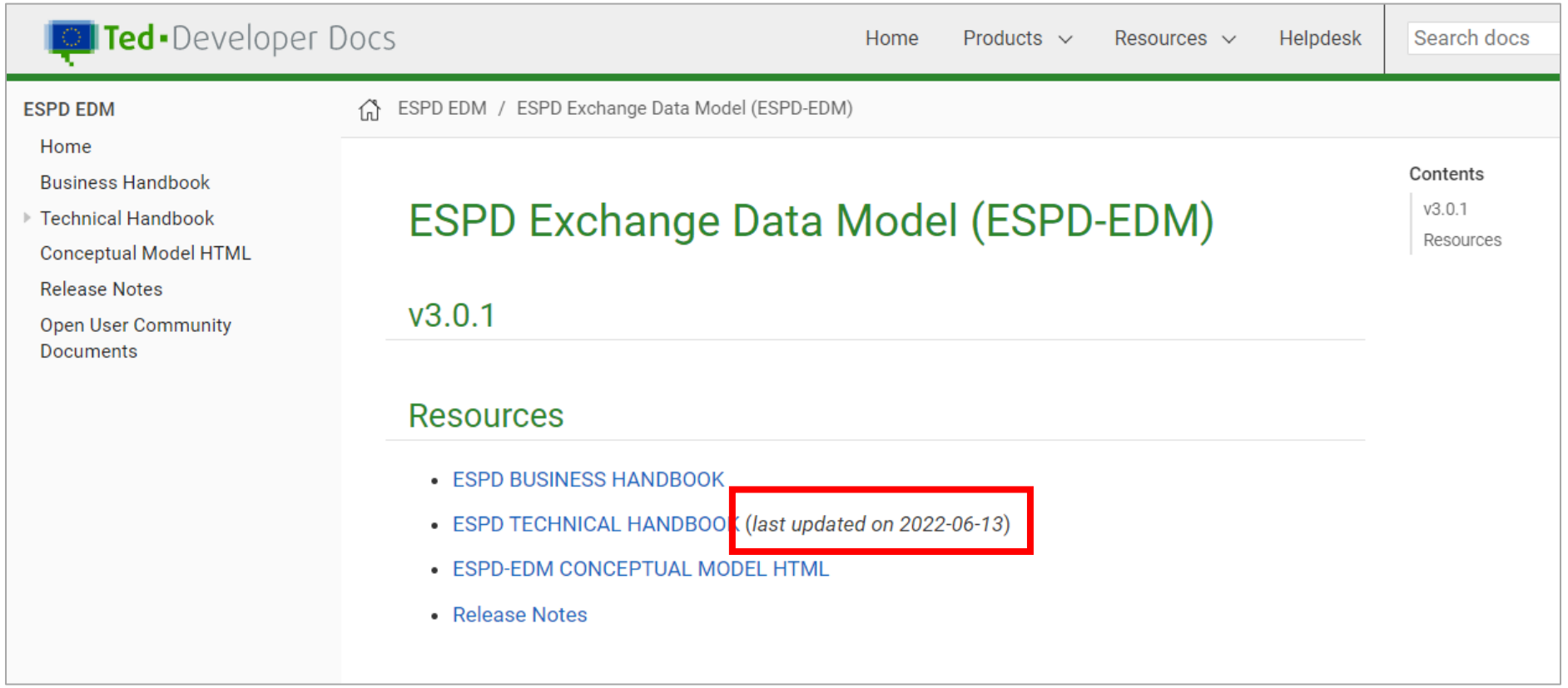
Update of the ESPD-EDM webpages and documentation

- ESPD EDM previous versions:



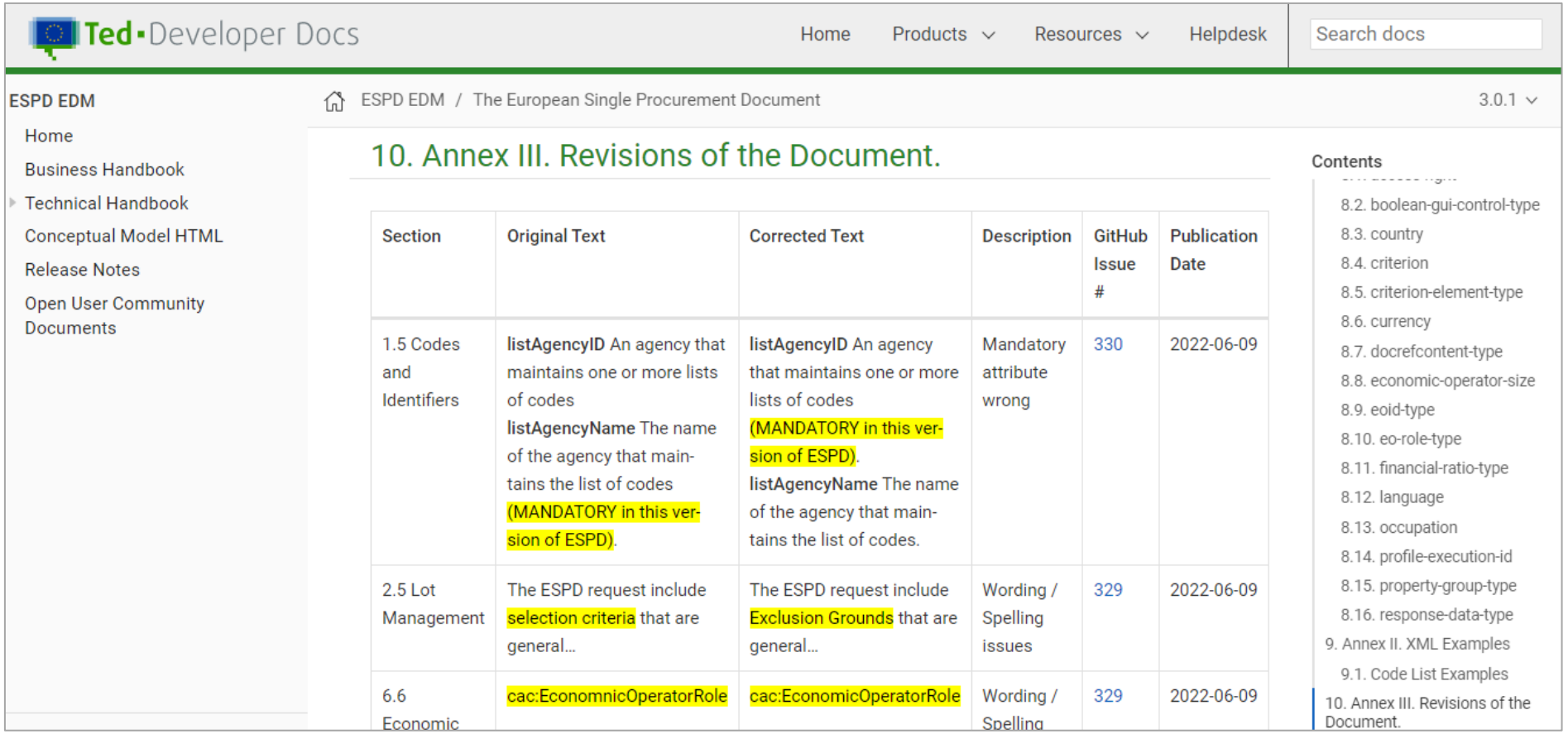
Update of the ESPD-EDM webpages and documentation

- Access to online documentation: https://docs.ted.europa.eu/ESPD-EDM/3.0.1/index.html



Update of the ESPD-EDM webpages and documentation

- New section with the change log:



THANK YOU FOR YOUR PRESENCE

ANY QUESTIONS?

Please feel free to send also your questions to

OPESPD@publications.europa.eu

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