MAINTENANCE AND EVOLUTION OF THE ESPD EDM
Publications Office – C.3

ESPD OPEN USER COMMUNITY (OUC) MEETING
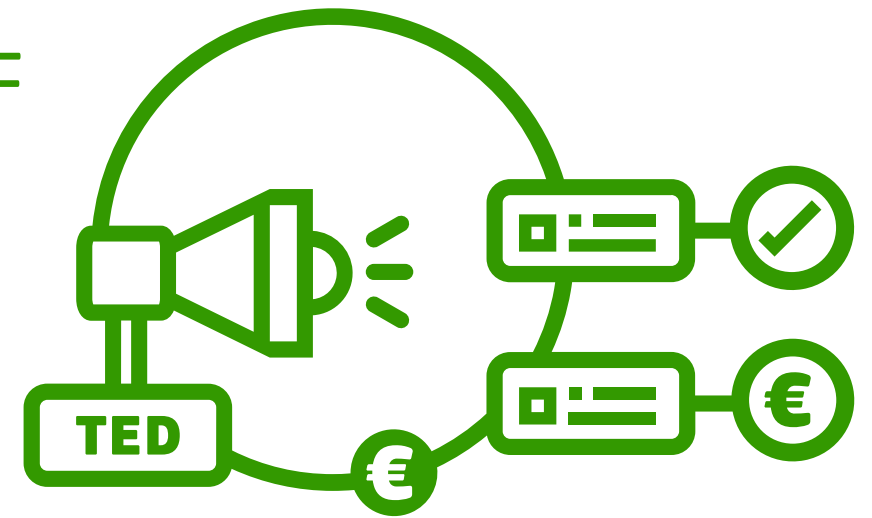
28th September 2022

Due to the Data Protection Regulation, the list of attendees of the meeting will only be published if there are no objections from any of the participants.

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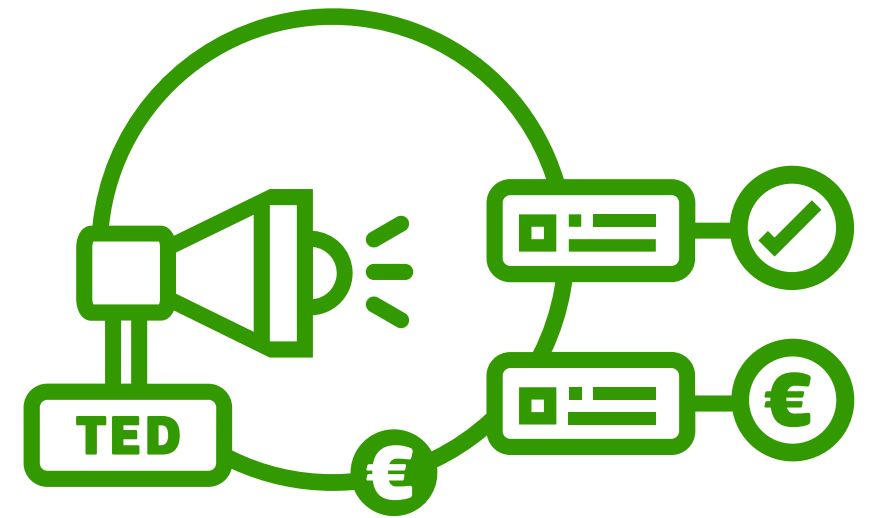
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Summary of last meeting on 16th June 2022

- **Meeting report:**

    https://docs.ted.europa.eu/espd-ouc/20220616_OUC%20meeting%20report.html

- **Main topics:**
    - Code list DocRefContentType

    - Occupation code list (ESCO)

    - UUID

    - Documentation update

    - GitHub issues

UUID

- A universally unique identifier (UUID) is a **128-bit label used for information identification**.

- 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.

UUID

- In the ESPD, **2 types of UUID** are used:

  - **Fixed (or static) UUIDs**, for elements such as:

    o Criterion, SubCriterion;

    o Legislation;

    o 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:

    o Question;

    o Requirement;

    o Caption.

UUID

- 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.

ESPD Request

EG

ALL LOTS

SC1

LOT1
LOT2

SC2

LOT2
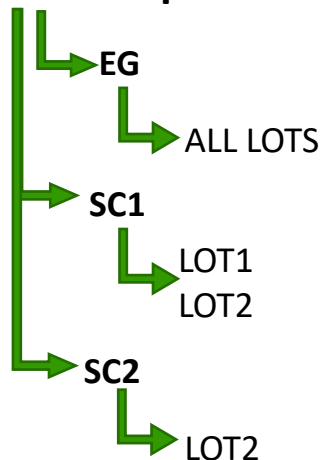
Issue:

- **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.

UUID – AS-IS data structure view (v3.0.1)

	Name	Description	Value(exam	Cardinality	PropertyDat	ElementUUII	Element Cod	Code List	Comment
25 {CRITERION	Enrolment ir	It is enrolled in relevant pr				6ee55a59-6a	prof-regist		
{SUBCRITERION	[Name of th	[Description c		0..n		e6b21867-95	ON*		Subcriterions are used to s
{QUESTION_GROUP				1		8c39b505-8al	ON*		
{CAPTION}		[Additional in	[Capton]	1	NONE				UUIDs for CAPTIONS, REQI
{QUESTION}		Your Answer	true	1	INDICATOR				
QUESTION_GROUP}									
SUBCRITERION}									
{LEGISLATION}				0..n		c753a2c5-59e			
{REQUIREMENT_GROUP				1..n		b01d8f8f-cea	ON*		
{REQUIREMENT}		occupation	[occupation	1	CODE			occupation	
{REQUIREMENT}		Other Registe	[Other Regis	1	DESCRIPTION				
{QUESTION_SUBGROUP						0e50931d-4d	ON*		
{QUESTION}		Does the EO fulfil the crite		1	INDICATOR				
{QUESTION_SUBGROUP				1		fe557ed0-23	ONFALSE		
{QUESTION}		In the case of no – Relied u		1	INDICATOR				
{QUESTION_SUBGROUP				1		e296a1cc-836	ONTRUE		
{QUESTION}		Name of the e	[Name]	1	DESCRIPTION				
{QUESTION}		ID of the entit	[ID]	1	ECONOMIC_OPERATOR_IDENTIFIER				
QUESTION_SUBGROUP}									
QUESTION_SUBGROUP}									
QUESTION_SUBGROUP}									
{QUESTION_SUBGROUP				1..n		6cce6b8e-c5	ON*		
{QUESTION}		Your Answer	true	1	INDICATOR				
{QUESTION_SUBGROUP				0..1		70d5bbcf-05	ONTRUE		
{QUESTION}		Registration n	[Reasons]	0..1	DESCRIPTION				
QUESTION_SUBGROUP}									
{QUESTION_SUBGROUP				0..1		3a4a5421-81	ONFALSE		
{QUESTION}		Reasons why	[Reasons]	1	DESCRIPTION				
QUESTION_SUBGROUP}									
{QUESTION_SUBGROUP				1		7458d42a-e5	ON*		
{QUESTION}		Is this informa	true	1	INDICATOR				
{QUESTION_SUBGROUP				0..1		41dd2e9b-1b	ONTRUE		
{QUESTION}		Evidence Sup	EVIDENCE-IC	1..n	EVIDENCE_IDENTIFIER				
QUESTION_SUBGROUP}									
QUESTION_SUBGROUP}									
QUESTION_SUBGROUP}									
REQUIREMENT_GROUP}									

- 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 to establish the Lot targeted

UUID – TO-BE data structure view *(as implemented in v2.1.1)*

- 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

UUID – Benefits of the new proposals

- The **link between an ESPD Request and its related ESPD Responses** (one or several) is **consistent**;

- **Same structures** use the **same UUID**;

- There is **no ambiguity** when addressing structures represented by the same UUID;

- The same **data structure can be reused** in different procedures;

- ESPD Responses can be **easily read and mapped**.

The proposed solutions also **facilitates the reusability of the content** of the ESPD, except in those cases where requirements are not compatible.

UUID – Variant proposal 1 (XML path-like)

- Taking the proposal that was presented during the OUC meeting of the 27th January 2022 (see report and presentation) as a starting point, a variant proposal is presented with additional features:

    - Short tag names for criterion elements and elements numbering;

    - Additional TenderingCriterionResponse IDs;

    - Requirements IDs.

- The proposal is based on a **pre-defined short tag name for each element and a numbering** according to the position within the tree structure.

- The proposal provides a **path to a target criterion element**.

UUID – Variant proposal 1 (XML path-like)

- **Original proposal**

{CRITERION ELEMENT CODE}/{QUESTION GROUP PATH}/{QUESTION}

- crime-org/QG1::1/QG1::1/Q1
- crime-org/QG1::1/QG1::2/Q1
- spec-year-to/RG1::1/QG2::2/Q2

- **Variant proposal**

The new pattern proposed focuses on 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

UUID – Variant proposal 1 (XML path-like)

- 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

UUID – Variant proposal 1 (XML path-like) – Management of QUestion

3	C1	{CRITERION			Participation in a criminal org	Has the economic operator itself or any person v	
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 tl	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_c ...

Ready   Accessibility: Investigate   100%

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

UUID – Variant proposal 1 (XML path-like) – Management of Question

Path samples - Questions

- **UUID AS-IS Question ID**
  - a1534624-95cf-4519-bdaa-856d5acf59b6 (**Q1 "Date of conviction"**)
  - f36ee1fb-210b-4786-b351-e0194ba2df89 (**Q2 "Reason"**)

- **Variant proposal 1 (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

- **Variant proposal 1 (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

UUID – Variant proposal 1 (XML path-like) – Management of Question

- Example of **question structure description**:

<cac:TenderingCriterionProperty>

     <cbc:ID schemeID = "criterion" schemeAgencyID = "XXESPD-SERVICEXXX" schemeVersionID = "3.0.1">**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 = "3.0.1">QUESTION**</cbc:TypeCode>** ⟵ *Type code of the question*

     <cbc:ValueDataTypeCode listID = "response-data-type" listAgencyID = "OP" listVersionID = "3.0.1">DATE**</cbc:ValueDataTypeCode>** ⟵ *Data type of the question*

</cac:TenderingCriterionProperty>

UUID – Variant proposal 1 (XML path-like) – Management of QUestion

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

<cac:TenderingCriterionResponse>

ID of the tendering response

  <cbc:ID schemeID = "ISO/IEC 9834-8:2008 - 4UUID" schemeAgencyID = "XXESPD-SERVICEXXX" schemeVersionID = "3.0.1">`C1_EG_crime-org/QG1/QSG1/Q1/R1`**</cbc:ID>**

  <cbc:ValidatedCriterionPropertyID schemeID = "Criterion" schemeAgencyID = "XXESPD-SERVICEXXX" schemeVersionID = "3.0.1">
`C1_EG_crime-org/QG1/QSG1/Q1`**</cbc:ValidatedCriterionPropertyID>**   ← *ID of the question*

  <cac:ResponseValue>
   <cbc:ID schemeID = "ISO/IEC 9834-8:2008 - 4UUID" schemeAgencyID = "XXESPD-SERVICEXXX" schemeVersionID = "3.0.1">`C1_EG_crime-org/QG1/QSG1/Q1/R1/RV`**</cbc:ID>**
   <cbc:ResponseDate>2014-01-01</cbc:ResponseDate>
  </cac:ResponseValue>

ID of the response value (RV)

</cac:TenderingCriterionResponse>

UUID – Variant proposal 1 (XML path-like) – Management of QUestion

- 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 = "3.0.1">C1_EG_crime-org/QG1/QSG1/Q1/R2</cbc:ID>

    <cbc:ValidatedCriterionPropertyID schemeID = "Criterion" schemeAgencyID = "XXESPD-
SERVICEXXX" schemeVersionID = "3.0.1">
C1_EG_crime-org/QG1/QSG1/Q1</cbc:ValidatedCriterionPropertyID>

    <cac:ResponseValue>
        <cbc:ID schemeID = "ISO/IEC 9834-8:2008 - 4UUID" schemeAgencyID = "XXESPD-
SERVICEXXX" schemeVersionID = "3.0.1">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)

UUID – Variant proposal 1 (XML path-like) – Management of Question

- 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 = "3.0.1">C1_EG_crime-org/QG2/QSG1/Q1/R1</cbc:ID>

        <cbc:ValidatedCriterionPropertyID schemeID = "Criterion" schemeAgencyID = "XXESPD-
SERVICEXXX" schemeVersionID = "3.0.1">
C1_EG_crime-org/QG2/QSG1/Q1</cbc:ValidatedCriterionPropertyID>
```

ID of the question

```
        <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 evidence (Respone Evidence Supplied, RES)

UUID – Variant proposal 1 (XML path-like) – Management of Requirement

3	C32	{CRITERION			Specific	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	c753a2c5-59e6-4
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

3	C32	{CRITERION			Specific y Its specific yearly turnover in the business area c			074f6031-55f9
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)

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-4d
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 ele true		1	INDICAT
71		QSG	{QUESTION_SUBGROUP			0..1	41dd2e9b-1b
72		Q1	{QUESTION}	Evidence Supplied	EVIDENCE-ID	1..n	EVIDEN(
73			QUESTION_SUBGROUP}				

◀ ▶ ... | SC-Specific_Yearly_Turnover | SC-Specific_Yearly_TurnoverLOT | **SC-Specific_Yearly_TurnoverLOcc** | SC-Financial_ra ... ⊕

Second occurrence (lots 3 and 4)

UUID – Variant proposal 1 (XML path-like) – Management of Requirement

Path samples - Requirements (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"**)

- **Variant proposal 1 (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

UUID – Variant proposal 1 (XML path-like) – Management of Requirement

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

ID of the requirement

<cac:TenderingCriterionProperty>

<cbc:ID schemeID="Criterion" schemeAgencyID="XXESPD-SERVICEXXX" schemeVersionID="3.0.1">C32_SC_spec-year-to/RG1/RQ1/R1/R2**</cbc:ID>**

Additional information about the requirement

Description of the requirement

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

<cbc:TypeCode listID="CriterionElementType" listAgencyID="OP" listVersionID="3.0.1">REQUIREMENT**</cbc:TypeCode>**

Type code

<cbc:ValueDataTypeCode listID="ResponseDataType" listAgencyID="OP" listVersionID="3.0.1">LOT_IDENTIFIER**</cbc:ValueDataTypeCode>**

Data type

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

Value

</cac:TenderingCriterionProperty>

UUID – Variant proposal 1 (XML path-like) – Management of Requirement

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

ID of the requirement

<cac:TenderingCriterionProperty>

<cbc:ID schemeID = "criterion" schemeAgencyID = "XXESPD-SERVICEXXX" schemeVersionID = "3.0.1">C32_SC_spec-year-to/RG1/RSG1/RQ1/R1/R1**</cbc:ID>**

Additional information about the requirement

Description of the requirement

<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 = "3.0.1">REQUIREMENT**</cbc:TypeCode>**

Type code

<cbc:ValueDataTypeCode listID = "response-data-type" listAgencyID = "OP" listVersionID = "3.0.1">QUANTITY_YEAR**</cbc:ValueDataTypeCode>**

Data type

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

Value

</cac:TenderingCriterionProperty>

UUID – Variant proposal 1 (XML path-like)

Implications of Variant proposal 1 (XML path-like)

- **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**

UUID – Variant proposal 2 (UUID variant)

- This proposal **keeps the current framework of the UUID, but the link between the ESPD Request and the ESPD Responses is managed differently**.

- A **direct link between the ESPD Request and its related ESPD Responses** (one or several) is provided by re-using the same UUID from the ESPD Request, which will be fixed, for all the occurrences of the target element (Question) in the related ESPD Responses.

- The **semantics of occurrences** is added to the description of the target element (Question or Requirement) to distinguish among the different occurrences.

UUID – Variant proposal 2 (UUID Variant) – Management of Question

	1	2	3	4	5	6	7	8	17	18	19	21	22	23	
2									Name	Description	Buyer Value	Cardinality	PropertyDat	ElementUUID Request	Elemen
3	1	{CRITERION								Participation in a criminal	Has the economic operator				005eb9ed-1347-4ca3-bb29-9bc0db64e1ab	crime-o
4			{SUBCRITERION								[Name of the National Cr	[Description of the Nationa	0..n		e6b21867-95b5-4549-8180-f4673219b179	ON*
5				{QUESTION_GROUP										1	8c39b505-8abe-44fa-a3e0-f2d78b9d8224	ON*
6					{CAPTION							[Additional information; e.	1 NONE			
7					{QUESTION}							Your Answer	1 INDICATOR			
8				QUESTION_GROUP}												
9			SUBCRITERION}													
10			{LEGISLATION}										0..n		c753a2c5-59e6-4970-b6eb-27224e96bf76	
11			{QUESTION_GROUP										1	7c637c0c-7703-4389-ba52-02997a055bd7	ON*
12				{QUESTION}								Your answer	1 INDICATOR			
13				{QUESTION_SUBGROUP									0..n		f5276600-a2b6-4ff6-a90e-b31fe19dae41	ONTRU
14					{QUESTION}							Date of conviction	1 DATE			
15					{QUESTION}							Reason	1 DESCRIPTIO			
16					{QUESTION}							Who has been convicted	1 DESCRIPTIO			
17					{QUESTION}							Length of the period of exc	1 PERIOD			
18					{QUESTION_SUBGROUP								1		5f9f09f7-f701-432c-9fdc-c22c124a74c9	ON*
19						{QUESTION}						Have you taken measures t	1 INDICATOR			
20						{QUESTION_SUBGROUP							0..1		74e6c7b4-757b-4b40-ada6-fad6a997c310	ONTRU
21							{QUESTION}					Please describe them	1 DESCRIPTIO			
22						QUESTION_SUBGROUP}										
23					QUESTION_SUBGROUP}											

Example of the criterion C1 EG crime-org

UUID – Variant proposal 2 (UUID variant) – Management of Question

Question Occurrence management and representation

- **UUID framework**: Fixed UUID (no dynamic UUIDs to link the ESPD Request with its Responses)

- **Same UUID for all occurrences** of a given target element (Q, RQ, CA)

- Use of **"R"+"n"** as a tag to represent the **occurrence semantics**.

- Pattern: **"UUIDx/Rn"**. Addition of the **Semantics, Numbering/Indexing** as a sufix.

- TenderingCriterionResponse ID samples for Question (TenderingCriterionProperty): "**Date of conviction**" – Fixed UUID + semantics

a1534624-95cf-4519-bdaa-856d5acf59b6/R1
a1534624-95cf-4519-bdaa-856d5acf59b6/R2
a1534624-95cf-4519-bdaa-856d5acf59b6/R1/RV
a1534624-95cf-4519-bdaa-856d5acf59b6/R2/RV

UUID – Variant proposal 2 (UUID variant) – Management of Question

- Example of **question structure description** (UUID As-Is v3.0.1):

<cac:TenderingCriterionProperty>

    <cbc:ID schemeID = "criterion" schemeAgencyID = "XXESPD-SERVICEXXX" schemeVersionID = "3.0.1">**a1534624-95cf-4519-bdaa-856d5acf59b6</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 = "3.0.1">QUESTION**</cbc:TypeCode>** ← *Type code of the question*

    <cbc:ValueDataTypeCode listID = "response-data-type" listAgencyID = "OP" listVersionID = "3.0.1">DATE**</cbc:ValueDataTypeCode>** ← *Data type of the question*

</cac:TenderingCriterionProperty>

UUID – Variant proposal 2 (UUID variant) – Management of Question

- Example of **Question Contents Description** (ESPD Response): Occurrence 1

```
<cac:TenderingCriterionResponse>
        <cbc:ID schemeID = "ISO/IEC 9834-8:2008 - 4UUID" schemeAgencyID = "XXESPD-SERVICEXXX"
    schemeVersionID = "3.0.1">
    a1534624-95cf-4519-bdaa-856d5acf59b6/R1</cbc:ID>        ←——  ID of the tendering criterion response

<cbc:ValidatedCriterionPropertyID schemeID = "Criterion" schemeAgencyID = "XXESPD-SERVICEXXX"
    schemeVersionID = "3.0.1">
    a1534624-95cf-4519-bdaa-856d5acf59b6</cbc:ValidatedCriterionPropertyID>        ←——  ID of the question

        <cac:ResponseValue>
                <cbc:ID schemeID = "ISO/IEC 9834-8:2008 - 4UUID" schemeAgencyID = "XXESPD-SERVICEXXX"
    schemeVersionID = "3.0.1">
    a1534624-95cf-4519-bdaa-856d5acf59b6/R1/RV</cbc:ID>        ←——  ID of the value
                <cbc:ResponseDate>2014-01-01</cbc:ResponseDate>
        </cac:ResponseValue>

</cac:TenderingCriterionResponse>
```

UUID – Variant proposal 2 (UUID variant) – Management of Question

- Example of Question Contents XML Description (ESPD Response): Occurrence 2

```
<cac:TenderingCriterionResponse>
        <cbc:ID schemeID = "ISO/IEC 9834-8:2008 - 4UUID" schemeAgencyID = "XXESPD-SERVICEXXX"
    schemeVersionID = "3.0.1">
    a1534624-95cf-4519-bdaa-856d5acf59b6/R2</cbc:ID>          ←  ID of the tendering criterion response

<cbc:ValidatedCriterionPropertyID schemeID = "Criterion" schemeAgencyID = "XXESPD-SERVICEXXX"
    schemeVersionID = "3.0.1">
    a1534624-95cf-4519-bdaa-856d5acf59b6</cbc:ValidatedCriterionPropertyID>          ←  ID of the question

        <cac:ResponseValue>
                <cbc:ID schemeID = "ISO/IEC 9834-8:2008 - 4UUID" schemeAgencyID = "XXESPD-SERVICEXXX"
    schemeVersionID = "3.0.1">
    a1534624-95cf-4519-bdaa-856d5acf59b6/R2/RV</cbc:ID>          ←  ID of the value
                <cbc:ResponseDate>2017-01-01</cbc:ResponseDate>
        </cac:ResponseValue>

</cac:TenderingCriterionResponse>
```

UUID – Variant proposal 2 (UUID Variant) – Management of Question

- 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 = "3.0.1"> 5b633586-4ef3-454b-ba76-74db49d5acf5 /R1</cbc:ID>

        <cbc:ValidatedCriterionPropertyID schemeID = "Criterion" schemeAgencyID = "XXESPD-
SERVICEXXX" schemeVersionID = "3.0.1">
5b633586-4ef3-454b-ba76-74db49d5acf5</cbc:ValidatedCriterionPropertyID>
```

ID of the question

```
        <cac:EvidenceSupplied>
                <cbc:ID schemeAgencyID = "XXESPD-SERVICEXXX">
EVIDENCE-00001/ 5b633586-4ef3-454b-ba76-74db49d5acf5 /R1/RES</cbc:ID>
        </cac:EvidenceSupplied>
```

ID of the evidence (Respone Evidence Supplied, RES)

```
</cac:TenderingCriterionResponse>
```

UUID – Variant proposal 2 (UUID Variant) – Management of Requirement

3	32	{CRITERION	Specific	Its specific yearly turnover in the business area c		074f6031-55f9-4
4		{SUBCRITERION	[Name c	[Description of the Natior	0..n	e6b21867-95b5-
5		{QUESTION_GROUP			1	8c39b505-8abe-
6		{CAPTION}	[Additional information; e		1	NONE
7		{QUESTION}	Your Answer		1	INDICATOR
8		QUESTION_GROUP}			1	
9		SUBCRITERION}				
10		{LEGISLATION}			0..n	c753a2c5-59e6-
11		{REQUIREMENT_GROUP	Requirement Group to define different lots with		1..n	FixedUUID
12		{REQUIREMENT}	LOT Identifier	LOT-XXXXX	1..n	
13		{REQUIREMENT_SUBGROUP			1	19a68e37-d307-
14		{REQUIREMENT}	Number of fiscal years	3	1	QUANTITY_YE
15		{REQUIREMENT}	Business domain descript IT consulting / develo		1	DESCRIPTION
16		{REQUIREMENT}	Minimum requirement	1000000	1	AMOUNT
17		{QUESTION_SUBGROUP			1	0e50931d-4d39-
18		{QUESTION}	Does the EO fulfil the criteria by itself?		1	INDICATOR
19		{QUESTION_SUBGROUP			1	fe557ed0-2387-
20		{QUESTION}	In the case of no – Relied upon or not		1	INDICATOR
21		{QUESTION_SUBGROUP			1	e296a1cc-83d3-
22		{QUESTION}	Name of the entity		1	DESCRIPTION
23		{QUESTION}	ID of the entity		1	ECONOMIC_C
24		QUESTION_SUBGROUP}				
25		QUESTION_SUBGROUP}				
26		QUESTION_SUBGROUP}				

SC-Specific_Yearly_Turnover_LOT SC-Other_economic_or_financial

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

UUID – Variant proposal 2 (UUID Variant) – Management of Requirement

3	32	{CRITERION		Specific Its specific yearly turnover in the busines		074f6031-55f9-4
4		{SUBCRITERION		[Name c [Description of the National Cri	0..n	e6b21867-95b5
5			{QUESTION_GROUP		1	8c39b505-8abe-
6			{CAPTION}	[Additional information; e.g. no	1 NONE	1ab48993-53aa-
7			{QUESTION}	Your Answer	1 INDICATOR	a8f1e01c-5ef7-4
8			QUESTION_GROUP}		1	
9		SUBCRITERION}				
10		{LEGISLATION}			0..n	c753a2c5-59e6-
11		{REQUIREMENT_GROUP		**Requirement Group to define different lc**	**1..n (1)**	**FixedUUID**
12			{REQUIREMENT}	**LOT Identifier** **LOT-00001**	**1..n (1)**	**UUID/R1/R1**
13			{REQUIREMENT}	**LOT Identifier** **LOT-00002**	**1..n (2)**	**UUID/R1/R2**
14			{REQUIREMENT_SUBGROUP		1	19a68e37-d307-
15			{REQUIREMENT}	Number of fiscal y 3	1 QUANTITY_YEA	8d23f156-be4f-
16			{REQUIREMENT}	Business domain c IT consulting / develop	1 DESCRIPTION	7bbcbc42-e81d-
17			{REQUIREMENT}	Minimum requirer 1000000	1 AMOUNT	bf8a8e1d-ad69-
18			{QUESTION_SUBGROUP		1	0e50931d-4d39
19			{QUESTION}	Does the EO fulfil the criteria by itself?	1 INDICATOR	4ca9d5c0-28e8-
20			{QUESTION_SUBGROUP		1	fe557ed0-2387-
21			{QUESTION}	In the case of no – Relied upon or not	1 INDICATOR	b94a10bc-da55-
22			{QUESTION_SUBGROUP		1	e296a1cc-83d3-
23			{QUESTION}	Name of the entity [Name]	1 DESCRIPTION	5e778df3-c065-
24			{QUESTION}	ID of the entity [ID]	1 ECONOMIC_OP	77fe87b5-cbfe-4
25			QUESTION_SUBGROUP}			
26			QUESTION_SUBGROUP}			

SC-Specific_Yearly_Turnover_LOT   SC-Other_economic_or_financial   ⊕

First occurrence (lots 1 and 2)

UUID – Variant proposal 2 (UUID Variant) – Management of Requirement

55		REQUIREMENT_SUBGROUP}					
56		REQUIREMENT_GROUP}					
57		{REQUIREMENT_GROUP	**Requirement Group to define different lc**		**1..n (2)**		**FixedUUID**
58		{REQUIREMENT}	**LOT Identifier**	**LOT-00003**	**1..n (1)**		**UUID/R2/R1**
59		{REQUIREMENT}	**LOT Identifier**	**LOT-00004**	**1..n (2)**		**UUID/R2/R2**
60		{REQUIREMENT_SUBGROUP			1		19a68e37-d307-
61		{REQUIREMENT}	Number of fiscal y	4	1	QUANTITY_YEA	8d23f156-be4f-
62		{REQUIREMENT}	Business domain c IT consulting / develop		1	DESCRIPTION	7bbcbc42-e81d-
63		{REQUIREMENT}	Minimum requirer	2000000	1	AMOUNT	bf8a8e1d-ad69-
64		{QUESTION_SUBGROUP			1		0e50931d-4d39
65		{QUESTION}	Does the EO fulfil the criteria by itself?		1	INDICATOR	4ca9d5c0-28e8-
66		{QUESTION_SUBGROUP			1		fe557ed0-2387-
67		{QUESTION}	In the case of no – Relied upon or not		1	INDICATOR	b94a10bc-da55-
68		{QUESTION_SUBGROUP			1		e296a1cc-83d3-
69		{QUESTION}	Name of the entity	[Name]	1	DESCRIPTION	5e778df3-c065-
70		{QUESTION}	ID of the entity	[ID]	1	ECONOMIC_OP	77fe87b5-cbfe-
71		QUESTION_SUBGROUP}					
72		QUESTION_SUBGROUP}					
73		QUESTION_SUBGROUP}					
74		{QUESTION_SUBGRO			1..n (1)		c0cd9c1c-e90a-
75		{QUESTION}	Start date; End date	2016-01-C	1	PERIOD	1eb80667-ff73-
76		{QUESTION}	Amount	1000001	1	AMOUNT	33ded15b-4e7a
77		QUESTION_SUBGROUP}					
78		{QUESTION_SUBGRO			1..n (2)		
79		{QUESTION}	Start date; End date	2016-01-C	1	PERIOD	
80		{QUESTION}	Amount	1000001	1	AMOUNT	

◄ ► ... **SC-Specific_Yearly_Turnover_LOT** SC-Other_economic_or_financial ⊕

Second occurrence (lots 3 and 4)

UUID – Variant proposal 2 (UUID variant) – Management of Requirement

Path samples – Requirements with lots (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**)

- **Variant proposal 2 (UUID variant) for Requirement ID** (structure-UUID- and occurrence indexing)
  - Use of "R" as a tag to represent the occurrence semantics for values provided by the Buyer.
  - Pattern: "UUIDx/Rn", where **Rn** can be repeated several times.

    8d23f156-be4f-4fc7-ae87-c4b2bde59366/R1/R1 (RQ1)

    bf8a8e1d-ad69-4bb9-a023-81b924cb9049/R2/R1 (RQ3)

UUID – Variant proposal 2 (UUID variant) – Management of Requirement

- **Example of the AS-IS situation for requirement value description (ESPD Request) – RG, RQ, LOT.**

→ Different dynamic UUID for each LOT occurrence.

```
<cac:TenderingCriterionProperty>
        <cbc:ID schemeID="Criterion" schemeAgencyID="XXESPD-SERVICEXXX"
schemeVersionID="3.0.1">1136acb0-09a5-4853-9921-c9038ce2890e</cbc:ID>

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

        <cbc:TypeCode listID="CriterionElementType" listAgencyID="OP"
listVersionID="3.0.1">REQUIREMENT</cbc:TypeCode>

        <cbc:ValueDataTypeCode listID="ResponseDataType" listAgencyID="OP"
listVersionID="3.0.1">LOT_IDENTIFIER</cbc:ValueDataTypeCode>

        <cbc:ExpectedID schemeAgencyID="XXESPD-SERVICEXXX">LOT-00001</cbc:ExpectedID>
</cac:TenderingCriterionProperty>
```

UUID – Variant proposal 2 (UUID variant) – Management of Requirement

- Example of requirement value description (ESPD Request) – RG, RQ, LOT

<cac:TenderingCriterionProperty>

<cbc:ID schemeID="Criterion" schemeAgencyID="XXESPD-SERVICEXXX"
schemeVersionID="3.0.1">1136acb0-09a5-4853-9921-c9038ce2890e/R1/R2**</cbc:ID>**

ID of the structure for the requirement

Description of the requirement

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

Additional information about the requirement

<cbc:TypeCode listID="CriterionElementType" listAgencyID="OP"
listVersionID="3.0.1">REQUIREMENT**</cbc:TypeCode>**

Type code

<cbc:ValueDataTypeCode listID="ResponseDataType" listAgencyID="OP"
listVersionID="3.0.1">LOT_IDENTIFIER**</cbc:ValueDataTypeCode>**

Data type

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

Value

</cac:TenderingCriterionProperty>

UUID – Variant proposal 2 (UUID variant) – Management of Requirement

- Example of requirement value description (ESPD Request) – RG, RQ, QSG

```
<cac:TenderingCriterionProperty>

        <cbc:ID schemeID = "criterion" schemeAgencyID = "XXESPD-SERVICEXXX" schemeVersionID =
"3.0.1">8d23f156-be4f-4fc7-ae87-c4b2bd8ce289/R1/R1</cbc:ID>          ← ID of the structure for the requirement

        <cbc:Description>Number of fiscal years (Target QSG: c0cd9c1c-e90a-4ff9-bce3-
ac0fe31abf16)</cbc:Description>

        <cbc:TypeCode listID = "criterion-element-type" listAgencyID = "OP" listVersionID =
"3.0.1">REQUIREMENT</cbc:TypeCode>          ← Type code

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

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

</cac:TenderingCriterionProperty>
```

Description of the requirement

Additional information about the requirement

Value

UUID – Variant proposal 2 (UUID variant)

Implications of Variant proposal 2 (UUID variant)

- **UUID algorithm update**:
  - Removal of dynamic UUID creation for each new occurrence
  - Inclusion of the semantics of occurrence where needed

- **New algorithm:** writing of the algorithm to process the semantics of occurrences.

- **Criterion files update** (both Excel and XML).

- **Online documentation update**

ESPD-EDM future releases

MAJOR CHANGES			
Description	**Related GitHub Issue**	**Type**	**% Resolved**
Duplicate "Question Group UUID" in the same Criterion and the Question Groups have different structures	#320	Major	**100%**
Groups with same UUID and different cardinality	#327	Major	**100%**
Questions regarding the purely national EG in ESPD-EDM v3.x.x	#334	Major	**100%***
Incorrect element code in ESPD-criterion.xlsx v3.0.1 for Criterion #27	#325	Major	50%
Question on UUID for Repeatable Question Sub Group *Management of different requirements for different lots in a criterion* *Update excel criterion files and generate xml samples files* *XSLT updates: transformation from Excel to XML ESPD*	#312	Major	50%
Create validation rules for mandatory fields	Code lists management	Major	0%
Create validation rules for all ESPD code lists	Code lists management	Major	0%

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

ESPD-EDM future releases

MINOR CHANGES			
Description	**Related GitHub Issue**	**Type**	**% Resolved**
Part IV: Selection criteria, C: Technical and professional ability (CA`s)	#287	Minor	**100%**
Occupation / new code list (ESCO)	#307	Minor	**100%**
Data misplacement for Criteria #52 and #53	#322	Minor	**100%**
ProfileID version	#324	Minor	**100%**
EVIDENCE_IDENTIFIER with different cardinality	#326	Minor	**100%**
Question regarding the DATE Response Data Type	#332	Minor	**100%**
Same requirement group UUID with different content	#333	Minor	**100%**
Questions with multiple cardinality when Member States demand a specific order	#335	Minor	**100%**
Financial ratio type translations	#337	Minor	**100%**

ESPD-EDM future releases

MINER CHANGES			
Description	**Related GitHub Issue**	**Type**	**% Resolved**
Invalid text in Taxonomy in SC-Professional_risk_insurance tab	#338	Minor	**100%**
General yearly turnover - differences in taxonomy and mock-ups from ESPD-EDM	#340	Minor	**100%**
docrefcontent-type - codelist	Code lists management	Minor	25%
Misinterpretation additional description lines	#339	Minor	0%
Descriptive text is not the same in eCertis and Taxonomy	#336	Minor	0%

Tasks related to the release
    Update of the XSLT and UUID samples
    Preparation of the release notes			

Description	**Related GitHub issue**
eCertis alignment with ESPD-EDM *criterion - code list : Concepts & Definitions*	#251

GitHub issues – Closed issues (9 issues)

Issue	Title of the issue
307	New Code list 'occupation'
327	Groups with same UUID and different cardinality
332	DATE Response Data Type
333	Same requirement group UUID with different content
335	Questions with multiple cardinality when Member States demand a specific order
337	Financial ratio type translations
338	Invalid text in Taxonomy in SC-Professional_risk_insurance tab
344	Selection criteria. Suitability > Enrolment in a relevant professional register: Other occupation
346	Initial question for the EO to fulfil or not the criteria

GitHub issues – Currently open issues (12 issues)

Issue	Title of the issue
345	Average turnover
343	For service contracts: authorisation (membership) of particular organisation needed: question cardinality
342	Criterion sections grouping and titles
341	Trouble building java-library
340	General yearly turnover - differences in taxonomy and mock-ups from ESPD-EDM
339	Misinterpretation additional description lines
336	Descriptive text is not the same in eCertis and Taxonomy
334	Questions regarding the purely national EG in ESPD-EDM v3.x.x
331	Questions regarding the relationship at syntax binding level between data type and response data type and ESPD TestCases Mapping document
325	Incorrect element code in ESPD-criterion.xlsx v3.0.1 for Criterion #27
312	Question on UUID for Repeatable Question Sub Group
251	Link eCertis and ESPD

Next meetings

- Next OUC meeting: October 27, 10.00 – 11.30

- ESPD Annual Seminar: ~~December 1st, 10.00 - 13.00~~ → November 30th, 9.30-12.30

THANK YOU FOR YOUR PRESENCE

ANY QUESTIONS?

Please feel free to send also your questions to

OPESPD@publications.europa.eu

Publications Office
of the European Union

New Code list 'occupation'

GitHub issue	#307	Reception date	05/02/2021	Closing date	23/09/2022

Description of the issue

As presented in the OUC community of 3rd of February, a new code list **e.g. RegisterType** should be created to address issue #273:

Remove the current requirements where the CA provides the Name and the URL of the registered where the EO should be registered. Instead, include a requirement to specify the register type (area). This will be specified using an ad-hoc code list including different type of registers that are available at the EU level. The code list will be created taking into account the inputs from different OUC members. Moreover, the code list will include the option to specify "other", and allow CAs to specify any register type not included in the code list.

Solution provided by the ESPD Team

The codelist is going to be maintained by EU Vocabularies. It can be found here: https://op.europa.eu/web/eu-vocabularies/dataset/-/resource?uri=http://publications.europa.eu/resource/dataset/occupation.
The ESPD-EDM will include the gc generated by EU Vocabularies, maintain the metadata on the repository, and update the validation rules accordingly.
The new release of the codelist has been updated and uploaded to the specific branch upadate-codelists. The update of the codelist will be part of a future release.

Groups with same UUID and different cardinality

GitHub issue	#327	Reception date	21/03/2022	Closing date	08/07/2022

Description of the issue

The group with UUID **10822ddd-9ba6-42d5-9339-de0845aeafc9** has different cardinality inside the file **ESPD-criterion.xlsx**.

In the criterion #48 the cardinality is **1..n**, but in the criterion #50 the cardinality is **1**.

The same is for other groups, with UUID:

- **289f39b3-2a15-421a-8050-a29858031f35**: differents cardinality are **1** and **1..n**

- **5f9f09f7-f701-432c-9fdc-c22c124a74c9**: differents cardinality are **1** and **0..1**

- **74e6c7b4-757b-4b40-ada6-fad6a997c310**: differents cardinality are **0..1** and **[empty]**

- **9026e403-3eb6-4705-a9e9-e21a1efc867d**: differents cardinality are **1** and **0..1**

- **a53561d5-6614-4dbe-987e-b96f35387f46**: differents cardinality are **0..n** and **1..n**

- **c0cd9c1c-e90a-4ff9-bce3-ac0fe31abf16**: differents cardinality are **1** and **1..n**

- **cc1da737-6c4e-4f4e-821d-c260029058f6**: differents cardinality are **0..1** and **1..n**

Groups with same UUID and different cardinality

GitHub issue	#327	Reception date	21/03/2022	Closing date	08/07/2022

Solution provided by the ESPD Team

- **10822ddd-9ba6-42d5-9339-de0845aeafc9**: different structures, a new UUID has been generated and assigned to criterion 50: add786b6-7e75-4303-8b9a-3d477331abd9

- **289f39b3-2a15-421a-8050-a29858031f35**: the issue does no longer exist. Since version 3.0.0 and older versions are not under support, no changes are necessary.

- **5f9f09f7-f701-432c-9fdc-c22c124a74c9**: cardinality is wrong in criterion 22, it has been updated to 1

- **74e6c7b4-757b-4b40-ada6-fad6a997c310:** empty cardinality is wrong in criteria 18 and 19, it has been updated to 0..1

- **9026e403-3eb6-4705-a9e9-e21a1efc867d**: cardinalities 0..1 in criteria 40 and 41 are wrong, have been updated to 1

- **a53561d5-6614-4dbe-987e-b96f35387f46**: cardinality is wrong in criterion 26, it has been updated to 0..n

- **c0cd9c1c-e90a-4ff9-bce3-ac0fe31abf16**: cardinality is correct as this criteria is for Yearly Turnovers (more than one value, usually 3 years) while Average Turnover is just one single value, so no changes are necessary

- **cc1da737-6c4e-4f4e-821d-c260029058f6**: UUID has been removed as it´s a structure close line

The fixes have been implemented it in the criterion-evolution branch and will be released it in the next version.

Annex: Closed issues – Issue #332

DATE Response Data Type					
GitHub issue	#332	Reception date	02/06/2022	Closing date	23/06/2022

Description of the issue

Regarding the description of the DATE response data type, in the CodeLists the format is specified as YYYY-DD-MM:

```
ESPD-EDM/codelists/gc/ResponseDataType.gc
Line 166 in 515c6d0

166        <SimpleValue>Date values (format YYYY-DD-MM)</SimpleValue>
```

But when exploring the XML output from ESPD-Service, the format seems to be YYYY-MM-DD, e.g.

```
<ccv:Requirement responseDataType="DATE">
  <cbc:ID schemeID="CriterionRelatedIDs" schemeAgencyID="EU-COM-GROW" schemeVersionID="1.0">ecf40999-7b64-4e10-b960-7f8ff
  <cbc:Description>Date of conviction</cbc:Description>
  <ccv:Response>
    <cbc:Date>2022-06-28</cbc:Date>
  </ccv:Response>
</ccv:Requirement>
```

Solution provided by the ESPD Team

The fix has been implemented in a specific branch and it will be released in a future version.

Same requirement group UUID with different content					
GitHub issue	[#333](#)	Reception date	07/06/2022	Closing date	30/06/2022

Description of the issue

UUIDs for property groups exist to facilitate re-use, however 53c9aad8-dc80-48f8-85d9-755c2aab8e95 in Taxonomy excel has different content in exclusion grounds and selection criteria. UUID (53c9aad8-dc80-48f8-85d9-755c2aab8e95) is used in criteria with numbers 7, 8, 37 and 39 based on Criteria Taxonomy numbering. The problem is that in Criteria 7 and 8 the structure is different than in Criteria 37 and 39.

This violates the standard that the value of a Question Group/Requirement Group UUID matches with a specific Question Group/Requirement Group structure and vice versa.

Solution provided by the ESPD Team

To solve the reported issue, a new UUID has been generated for the structures in criterias 7 and 8: c7d60cb5-b6fc-4e1a-a6b0-e0d91a09c80a. This will be released it in the next version.

Questions with multiple cardinality when Member States demand a specific order					
GitHub issue	#335	Reception date	29/06/2022	Closing date	22/07/2022

Description of the issue

Some Member States demand a specific order for some questions and, since there is no field for ordering them, if the questions are, for instance, saved in a database, they might get in a different order.

Shouldn't there be an Order field to indicate that undoubtedly?

As stated in specifications, order shouldn't be an issue, but there might be implementation problems when the authorities demand that ordering. And a field for that would support that need.

Solution provided by the ESPD Team (1 of 2)

There are no explicit ordering of descriptive criterion elements (Question_Group, Question_Subgroup, Question, Requirement_Group, Requirement_Subgroup, Requirement, Caption, Subcriterion, Legislation). The ordering is rather implicit according to the position of the element in the description at a given level. The first element has the number 1, the second element has the number 2, and so on.

In general, UUID is used to refer to criterion element. There are fixed or static UUIDs which are always known, and also dynamic UUIDs that are created when a Request or Response is generated.

Questions with multiple cardinality when Member States demand a specific order					
GitHub issue	#335	Reception date	29/06/2022	Closing date	22/07/2022

Solution provided by the ESPD Team (1 of 2)

For fixed UUIDs, an implicit numbering (combined with the parent ID) might be necessary only if the same structure is used several times, because then the same uuid is used for the same structure group (for instance, "evidences" Question_Subgroup in criterion C40 and C41 that appear twice).

For dynamic UUIDs, let imagine that we save the data in a database when the dynamic UUIDs have not yet been assigned. If we restore the data, the questions might indeed be mixed. Although this use case is not common, we should recommend the use of the implicit numbering to ensure the file is restored as it were in the first place and avoid any conflict.

About including an explicit numbering for criterion elements or attributes, this will imply to add a new element or new attribute to the model. However, the model is tightly linked to the UBL language, so it is not possible to add an element or attribute that is not provided by the language because there is a third dependency with UBL.

Hence, guidelines and recommendations about the implicit numbering of criterion elements should be provided in the online documentation for users and developers of the ESPD project in a future release.

Same requirement group UUID with different content					
GitHub issue	#337	Reception date	03/08/2022	Closing date	19/08/2022

Description of the issue
The FinancialRatioType.gc file include some values that contain English text but with labels "name-bul" (as if the value was in Bulgarian). Is this correct?

Solution provided by the ESPD Team

The following files were affected by this issue and have been updated:

- ESPD-CodeLists.xlsx : there were some formatting issues related to languages not populated (blank) in the tab for the FinancialRatioType codelist.

- excel-to-gc-multilang-v1.0.xsl : XSL file used to generate the codefiles from the previous Excel file, there was an issue with a wrong cell position for the status column for the FinancialRatioType codelist (position 5 instead of 4).

- FinancialRatioType.gc : the codelist file has been generated again after the implementation of the fixes in the two previous files.

Annex: Closed issues – Issue #338

Same requirement group UUID with different content					
GitHub issue	#338	Reception date	03/08/2022	Closing date	12/08/2022
Description of the issue					
In column nr. 25, Code List, in the mentioned tab there's a comment in CodeList column.					
Solution provided by the ESPD Team					
In the Excel criterion file, criterion 35 : SC-Professional_risk_insurance tab, there was a misplacement of two comments in the Codelist column. They both have been moved one column to the right to the proper Comment colum. The fix has been implemented and uploaded into the master branch and it will be released in the next version.					

Selection criteria. Suitability > Enrolment in a relevant professional register: Other occupation

GitHub issue	#344	Reception date	16/09/2022	Closing date	22/09/2022

Description of the issue

In Selection criterion "Enrolment in a relevant professional register", for Requirement: Occupation, the code list 'occupation' is used to determine the area to which the EO should be registered in.
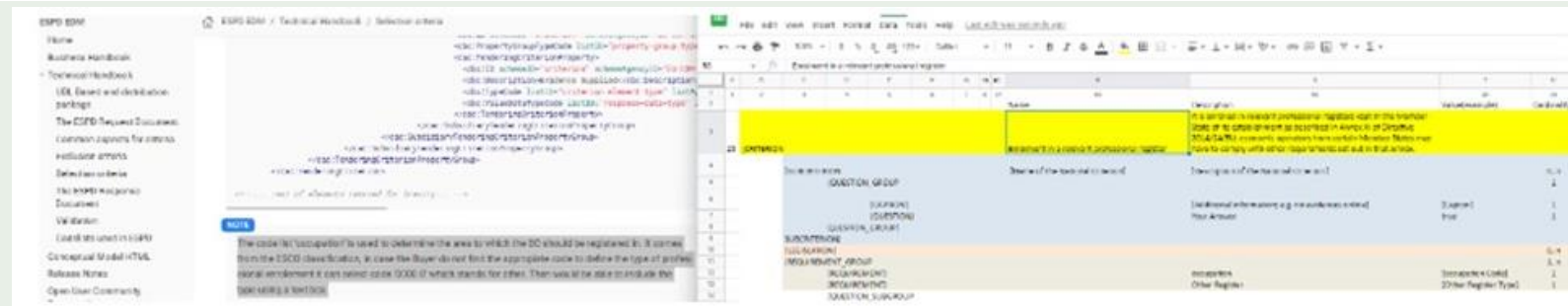
It comes from the ESCO classification, in case the Buyer do not find the appropriate code to define the type of professional enrolment it can select code '0000.0' which stands for other.

Is it possible to choose several times code 0000.0 – Other, or it can be selected only once?
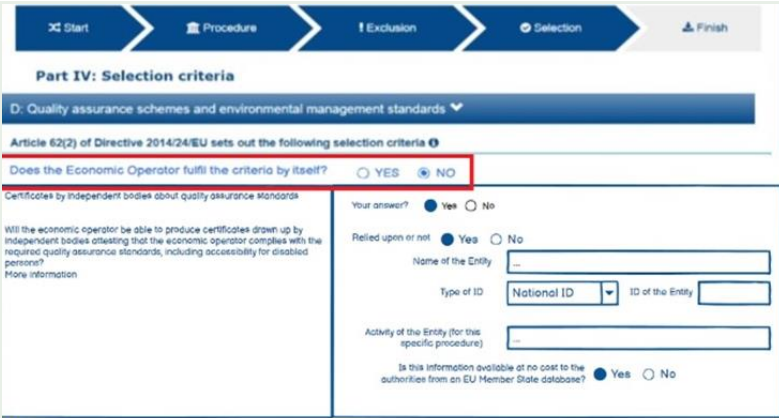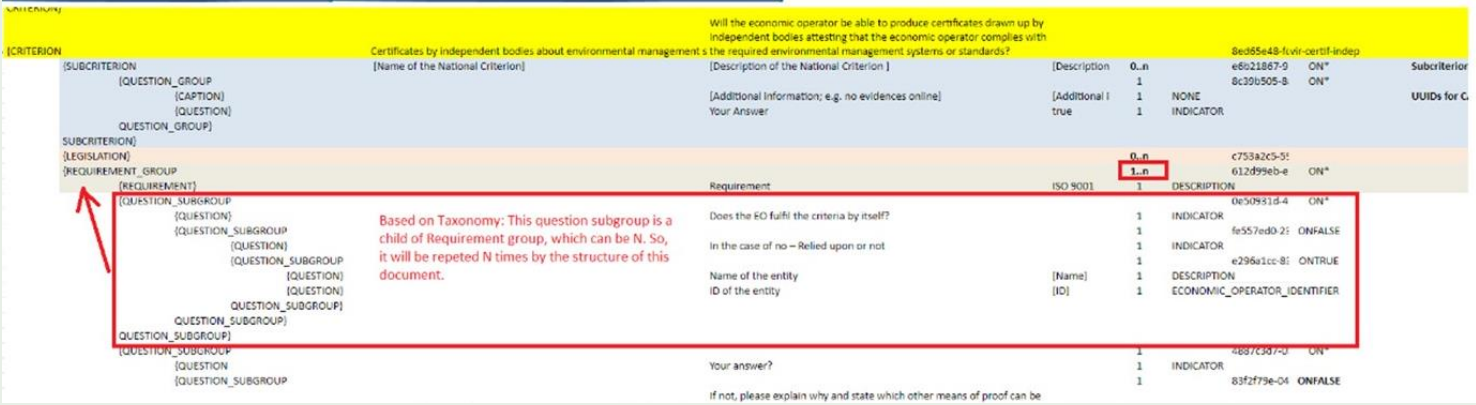
Solution provided by the ESPD Team

As can be read in the image of data structures attached to the issue, the cardinality of REQUIREMENTS is [1]. It means that in one REQUIREMENT_GROUP it is only possible to include one code 0000.0 Other + an additional text box.

However, the cardinality of the whole REQUIREMENT_GROUP is 1..n. Therefore, it is possible to add two REQUIREMENT_GROUPS with their corresponding requirements and questions nested.

Initial question for the EO to fulfil or not the criteria - critical for implementation

GitHub issue	#346	Reception date	21/09/2022	Closing date	23/09/2022

Description of the issue

Based on Taxonomy structure(Data structure), each requirement group has its own question "Does the EO fulfil the criteria by itself?". It seems not logical, as the question is about CRITERIA, not requirement.

Based on the mock-up, this question should be asked ONCE before each criteria.

Initial question for the EO to fulfil or not the criteria - critical for implementation					
GitHub issue	#346	Reception date	21/09/2022	Closing date	23/09/2022

Solution provided by the ESPD Team

This first question group was added in version 3.0.0 after the agreement with the OUC. The purpose of the group is to know if the Economic Operator relies on any other entity to fulfil the criteria and the requirements. It is useful to gather additional information from the EO.

The data structure allows for the ESPD Service to implement the question as it is represented in the mockup. Therefore, no additional modifications would be needed to implement ESPD services the way it is shown in the mockup. Additionally, to add more granularity to our explanation, criteria are built with a requirement_group element (cac:TenderingCriterionPropertyGroup) and within it, all questions are nested. This does not mean that questions need to respond only to those requirements, because there are cases where the Buyer does not include any additional requirement to the questions from the criteria.

In consequence, there is not need to modify these data structures to extract this question group outside the requirement group, as all criteria include a requirement_group (cac:TenderingCriterionPropertyGroup) as the basis.