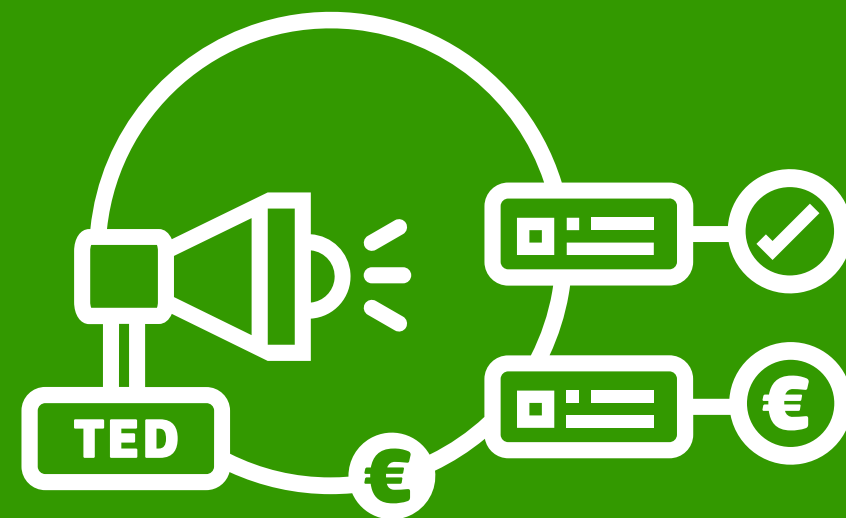




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REPLACEMENT OF UUIDS (ESPD-EDM V4.0.0)

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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)

1	2	3	4	5	6	7	8	17	18	19	20	21	22	23			
									Name	Description	Buyer Value Ex	EO Value Ex	Cardinal	PropertyData	ElementUUID Request	XML PATH LIKE VARIANT ID Reque	XML PATH LIKE VARIANT ID Respo
C1	{CRITERION								Participa	Has the economic operator its					005eb9ed-1347-4ca3-bb29-9bc0db64	C_LEG_crime-org	C_LEG_crime-org
SBC1	{SUBCRITERION								[Name o	[Description of the National Criterion]			0..n		e6b21867-95b5-4549-8180-f4673219b	C_LEG_crime-org/SBC1	C_LEG_crime-org/SBC1
	QG1	{QUESTION_GROL											1		8c39b505-8abe-44fa-a3e0-f2d78b9d	C_LEG_crime-org/SBC1/QG1	C_LEG_crime-org/SBC1/QG1
	CA1	{CAPTION								[Additional information; e.g. no evidences online			1 NONE		ae5e864a-f3ba-489b-ba17-b87a/8b10	C_LEG_crime-org/SBC1/QG1/CA1	C_LEG_crime-org/SBC1/QG1/CA1
	Q1	{QUESTION}							Your Answer				1 INDICATOR		a8d55a62-425a-4284-b450-b5b3462	C_LEG_crime-org/SBC1/QG1/Q1	C_LEG_crime-org/SBC1/QG1/Q1
		QUESTION_GROU															
		SUBCRITERION}															
L1	{LEGISLATION}												0..n		c753a2c5-59e6-4970-b6eb-27224a9f	C_LEG_crime-org/L1	C_LEG_crime-org/L1
QG1	{QUESTION_GROL												1		7c637c0c-7703-4389-ba52-02997a0f	C_LEG_crime-org/QG1	C_LEG_crime-org/QG1
	Q1	{QUESTION}							Your answer		VERDADERO		1 INDICATOR		c31b6447-bf88-4172-901a-f9b105205	C_LEG_crime-org/QG1/Q1	C_LEG_crime-org/QG1/Q1
	QSG1 (1	{QUESTION_SUBGROUP											0..n (1)		f5276600-a2b6-4ff6-a90e-b31fe19dae	C_LEG_crime-org/QG1/QSG1	C_LEG_crime-org/QG1/QSG1
	Q1	{QUESTION}							Date of conviction		9/12/2015		1 DATE		a1534624-95cf-4519-bd4a-856d5acf5	C_LEG_crime-org/QG1/QSG1/Q1	C_LEG_crime-org/QG1/QSG1/Q1
	Q2	{QUESTION}							Reason		[Reason provide		1 DESCRIPTION		f36ee1fb-210b-4786-b351-e0194ba2df	C_LEG_crime-org/QG1/QSG1/Q2	C_LEG_crime-org/QG1/QSG1/Q2
	Q3	{QUESTION}							Who has been convicted		[Convicted persc		1 DESCRIPTION		05bd1155-a780-4eef-9526-09d90b1b5	C_LEG_crime-org/QG1/QSG1/Q3	C_LEG_crime-org/QG1/QSG1/Q3
	Q4	{QUESTION}							Length of the period of exclusi		01/01/2016; 12/12		1 PERIOD		5363410e-0884-41c6-ae13-e7f4666b2	C_LEG_crime-org/QG1/QSG1/Q4	C_LEG_crime-org/QG1/QSG1/Q4
	QSG1	{QUESTION_SUBGROUP											1		5f9f09f7-f701-432c-9fdc-c22c124a74c	C_LEG_crime-org/QG1/QSG1/QSG1	C_LEG_crime-org/QG1/QSG1/QSG1
	Q1	{QUESTION}							Have you taken measures to d		VERDADERO		1 INDICATOR		108399ae-0332-4c14-bd3b-69d5035a	C_LEG_crime-org/QG1/QSG1/QSG1/Q1	C_LEG_crime-org/QG1/QSG1/QSG1/Q1
	QSG1	{QUESTION_SUBGR											0..1		74e6c7b4-757b-4b40-ada6-fad6a997	C_LEG_crime-org/QG1/QSG1/QSG1/QSG	C_LEG_crime-org/QG1/QSG1/QSG1/QSG
	Q1	{QUESTION							Please describe them		[Measures taken		1 DESCRIPTION		f59271bd-8049-41cc-a4d7-06a4f0762	C_LEG_crime-org/QG1/QSG1/QSG1/QSG	C_LEG_crime-org/QG1/QSG1/QSG1/QSG1
		QUESTION_SUBGR															
		QUESTION_SUBGR															
		QUESTION_SUBGROUP}															
		QUESTION_SUBGROUP}															
	QSG1 (2	{QUESTION_SUBGROUP											0..n (2)			C_LEG_crime-org/QG1/QSG1	C_LEG_crime-org/QG1/QSG1
	Q1	{QUESTION}							Date of conviction		9/12/2015		1 DATE				C_LEG_crime-org/QG1/QSG1/Q1
	Q2	{QUESTION}							Reason		[Reason provide		1 DESCRIPTION				C_LEG_crime-org/QG1/QSG1/Q2
	Q3	{QUESTION}							Who has been convicted		[Convicted persc		1 DESCRIPTION				C_LEG_crime-org/QG1/QSG1/Q3

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 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 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}			

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/MSG1/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>**

ID of the tendering response

<cbc:ValidatedCriterionPropertyID schemeID = "Criterion" schemeAgencyID = "XXESPD-SERVICEXXX" schemeVersionID = "4.0.0">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 = "4.0.0">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>

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>**

ID of the tendering response

<cbc:ValidatedCriterionPropertyID schemeID = "Criterion" schemeAgencyID = "XXESPD-SERVICEXXX" schemeVersionID = "4.0.0">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 = "4.0.0">C1_EG_crime-org/QG1/QSG1/Q1/R2/RV**</cbc:ID>**
<cbc:ResponseDate>2017-01-01</cbc:ResponseDate>
</cac:ResponseValue>

ID of the response value (RV)

</cac:TenderingCriterionResponse>

Replacement of UUIDs (ESPD-EDM v4.0.0)

Management of Questions

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

<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>**

ID of the tendering response

<cbc:ValidatedCriterionPropertyID schemeID = "Criterion" schemeAgencyID = "XXESPD-SERVICEXXX" schemeVersionID = "4.0.0">**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 (Response Evidence Supplied, RES)

Replacement of UUIDs (ESPD-EDM v4.0.0)

Management of Requirements

3	C32	{CRITERION	Specific	Its specific yearly turnover in the business ar	074f6031-55f9-4e
4	SBC1	{SUBCRITERION	[Name c	[Description of the Nation	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 descripti	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}			

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	Its specific yearly turnover in the business area c	074f6031-55f
4	SBC1	{SUBCRITERION	[Name c	[Description of the National Crit	0..n e6b21867-95k
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}			

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 electue		1	INDICAT			
71	QSG	{QUESTION_SUBGROUP			0..1	41dd2e9b-1b			
72	Q1	{QUESTION}	Evidence Supplied	EVIDENCE-ID	1..n	EVIDENC			
73		QUESTION_SUBGROUP}							

Second occurrence (lots 3 and 4)

Replacement of UUIDs (ESPD-EDM v4.0.0)

Management of Requirements

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")
- **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

<cac:TenderingCriterionProperty>

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

ID of the requirement

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="4.0.0">REQUIREMENT**</cbc:TypeCode>**

Type code

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

Data type

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

Value

</cac:TenderingCriterionProperty>

Replacement of UUIDs (ESPD-EDM v4.0.0)

Management of Requirements

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

<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>**

ID of the requirement

Additional information about the requirement

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

Description of the requirement

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

Type code

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

Data type

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

Value

</cac:TenderingCriterionProperty>

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.