

10TH EXPERT GROUP MEETING ON

Statistical Data and Metadata eXchange


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New Use Cases for Reference Metadata Exchange with SDMX 3.0

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Types of Reference Metadata

- Metadata that is reported against structures
 - example collection methodology, accuracy, timeliness
 - Metadata that travels closely to the Data
 - example footnotes
-  ***EMBEDDED METADATA***
- Type 1 – Continues to be described by the MSD
 - Type 2 – Described in the DSD that also describes the Data

Metadata classification

Metadata	Technical			
	Process			
	Business	Structural		
		Reference	Descriptive (conceptual)	Metacontent
				Methodology
				Quality
Ext. Resources				



Statistical Metacontent

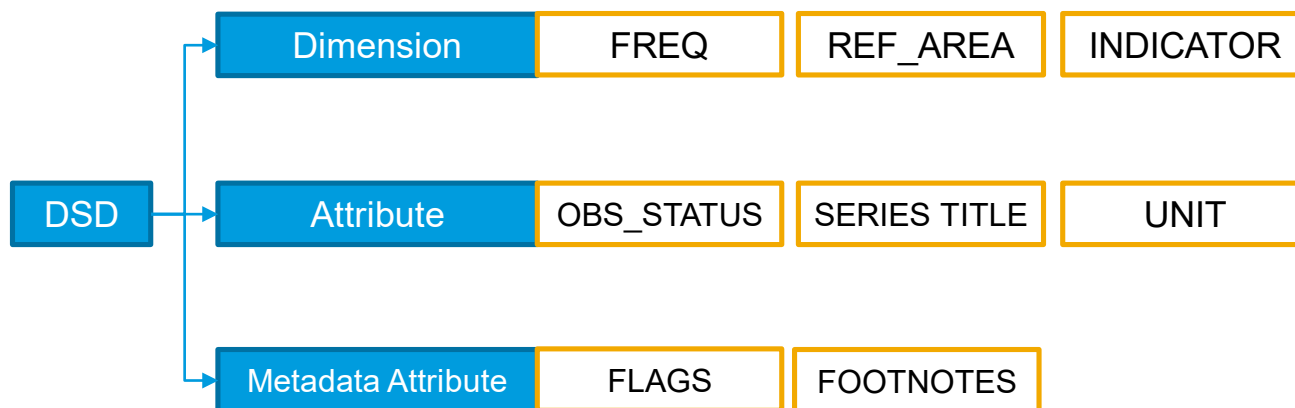
Business → *Reference metadata* → *Descriptive metadata* → **Statistical metacontent**

- Typical “data about data”
- Two classes of metacontent:
 - “Status information”: **Flags**
 - **Footnotes**: controlled vocabulary (enumerated concepts) or free text
- Relevant for the **interpretation** of the data
 - Must be embedded and travel with the data
- **Transformation**:
 - “Operating” on notes for derived indicators
- **Dissemination**
 - How to display table’s metadata, flags and footnotes

Metacontent in SDMX 2.1

- Using Reference metadata artefacts:
 - Not delivered with the data by default
 - Methodology and quality metadata is too verbose
 - Usually not maintained by whom, and at the time, the data is
 - Complicated linkage mechanism
 - Can't operate on them in transformations
- Using Attributes:
 - Can't avoid travelling with the data
 - Cardinality
 - Lack of hierarchical structure
 - Poor presentation capabilities

The solution: Metadata Attributes



The solution: Metadata Attributes

- **Hybrid solution**, takes «the best of both worlds»
- **Travel with the data** by default
- Can be **selectively removed from the data** message (API)
- As part of the DSD are **maintained together with the data**
- **Same attachment mechanism** as traditional attributes
 - Observation, partial key, measure, etc.
- Allow **multiple values** per instance (cardinality issue)
- Presentation capabilities: **html, hierarchy, multilingual**
- Can be treated as normal attributes for **transformations** (VTL)