SDMX Standards and Tools

Session: Constraints
Constraints – Structure

• Supports the specification of sub sets of data or metadata structure definitions or data and metadata sets
  – In terms of allowable key values
  – In terms of the actual content of a data source
  – In terms of a filter that might invoke a process (e.g. a specific validation process on a part of a data set)
  – In terms of allowable dimension or attribute values (usually codes)

• Constraints can apply to:
  – Data sets – so called “cubes” or “cube regions”
  – Entire databases
  – Data flows
  – Metadata sets
  – Entire metadata repositories
  – Metadata flows
  – Provision agreements

• Two kinds of Constraint
  – Content – this is used to define the actual or allowable content
  – Attachment – this is used to define a sub set of data or metadata set for the purpose of attaching metadata to it
Constraints – Structure Schematic

- **Cube Region**: Sets of values to be included in or excluded from the scope

- **Concept Values**: Set of values for a concept

- **Values**: List of values

- **Attachment Constraint**

- **Content Constraint**

- **Constraint**: This comprises sets of series keys

- **Key Set**: Sets of keys to be included in or excluded from the scope

- **Key Value**: Specification of a key value

- **Key**: Specification of a key

- **Concept**: Identity of the Concept (e.g. Country)

- **This is a sub set of the code list in the DSD or MSD"
Example: Cube Region Constraints

This is a sub-set of the full Country Code List
Example: Key Set Constraints
Example: Key Set Constraints

This is created from the current selection and a knowledge of all the available series keys.