ACHIEVING TOOLS INTEROPERABILITY; WHAT IMPACT ON SDMX 3.0 IMPLEMENTATION

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The SDMX Tools Assessment Working Group (STAWG) have been mandated by the Statistical Information System Collaboration Community (SIS-CC) Management Level Group to assess existing tools for SDMX artefact edition and maintenance.
ASSESSMENT GOALS

- Identify the tool's position in the statistical business process.
- Identify the possible orchestrations.
- Identify the interoperability level with .Stat Suite.
- Identify the main functional & non-functional gaps.
ASSESSMENT MAIN RESULTS
FUNCTIONAL MAPPING (MAIN CONCLUSION)

It’s still necessary to use several SDMX-compliant tools simultaneously, to be able to edit and maintain SDMX Meta(data) Structures.

What about interoperability & integration of these tools?
MAIN INTEROPERABILITY REQUIREMENTS

Versioning & Upgrade
Access Management
Documentation
Tool Source
Tool Governance
**FAO SDMX INTEGRATION USE CASE AND MAIN CHALLENGES FOR SDMX 3.0 IMPLEMENTATION**

- **Internal referential metadata repository**
- **Database**
- **FAO Back End**
  - M&D Manager
  - Admin
  - Structure manager
  - Data manager
- **FAODATA Explorer**
  - Dissemination of FAO DFs + attached reference metadata
  - Reporting of SDG data

**Challenges:**
- Incompatible JSON header format can compromise the data exchange (manual configuration is required)
- Incompatible annotation description can lead to a misinterpretation metadata/attributes
- Manual generation of data constraint
- Double authentication (different auth-mechanism)
- Manual import of HCL
MAIN CHALLENGES

- How to manage versioning and all the expected interoperability issues separately with each tool provider.

- Is there enough documentation with each version release, on how to integrate the tool in a changing technical environment?

- With any involved change, what impact on your established workflow?

- Are the tools evolving together in a harmonized way to catch the standard evolution?

- Is there any available componentized backage for these tool that offer more flexible deployment?
HOW TO MOVE FORWARD?

Community Cooperation Framework

Tool provider

Tool provider

Coordination

Precise expression of needs

User research Task Force

FMR workbench user group

MDM support group
SUGGESTIONS?

- Development should consider user needs in terms of tool integration.
- Coordination of tools’ harmonization and complementarity in terms of functional components
- Release of required documentation should be coordinated to detail integration requirements for each new version of the tool.
- Better consideration of a component-based development approach.

What collaborative approach can the community take to ensure better coordination among tool providers?

To what extent can SDMX interoperability guidelines help facilitate tool integration?

How can the formulation of user requirements be standardized to provide better guidance to tool vendors?
Thank you

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