

Feedback from break-out groups in OpenStudyBuilder <-> EDC integrations

COSA Workshop 23. April 2024

OpenStudyBuilder EDC use cases

EDC ODM.XML based OSB integration

- The Marvin case
- Advantages & Disadvantages of ODM integrations
- Reality vs. Standards vision
- ODM Extensions

EDC integration to native OSB utilising API generated ODM.XML

- The Oracle Clinical One case
- Can use all EDC attributes for the integration, using vendor + OSB extension
 - Enabling a complete integration and automation

OSB integration to native EDC API

- The Veeva EDC case
- Will only use selected 'core' EDC attributes for the integration, only using core OSB extensions (limited vendor extension)
 - Enabling a partly integration focusing on the need for data retrieval and down steam usage
 - Will require a vendor specific setup in the EDC solution, using the EDC controlled library

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SWOT- Break-out 1 (ODM.XML)

Strengths

 Opportunity to give feedback to CDISC what's lacking to get standard ODM and API standard (ODM Evolution) ODM structure matches majority of study concept (concepts for cycles/events driven like in Oncology) Data import due to defined structure autoflow option OSB as acceleration tool to get information ODM.xml and define.xml linkage Migration from EDC to another Low memory and storage (easy format) Transformable format (stylesheets) Extensions to be flexible according requirements (user friendliness,) 	 ODMv1.3 missing trial design Workflow is missing in ODM completely Dynamics, automatic checks, notifications etc. ODM lacking behind EDC (worksflow) Formats is too open "what is date" File-based approach -> no tracking, what changed, what impact in EDC system (do they stick to standards?) Migration ODMv1.3 to 2.0 XML format issues for read/process by users EDC and lab missing adoption for ODM Mission to bring standards forward as transfer method is in reality rarely been used (lab & other) Extensions are very flexible and differ for vendors
Opportunities	Threats
 Standardization of additional attributes Workflow standard definitions Alignment of ODM and SDTM Industry focus on ODM/standardization lead to more ODM adoption 	 CDISC Versioning change like ODMv2 (no item groups), but systems use item groups Resource constraints to adopt to ODM.xml Vendors developing "vendor standards" instead of using industry

Weaknesses

SWOT- Break-out 2 – OSB <-> EDC / API

Strengths

- Already working as demonstrated by Oracle One / EvidentIQ
- Many API endpoints

Wishes

- Many endpoints but lack of granularity
- Have a generic way of adding more data (budget info, cdash,...) in every part of the OSB
- Improve the API endpoint for the CRF with Test data automatically generated for validation
- Have a way to integrate an agnostic protocol template
- Have some API endpoints to load legacy metadata
- OSB Vendor extensions to be integrated into the CDISC Library
- Have some system reports providing the % of Standard versus Sponsor metadata

SWOT Break-out 3 - OSB <-> native EDC API (1)

Strengths

- Hold the core data specification needed for the down-stream data flows not holding all details needed for data collection
 - Limit dependencies between systems, drive innovation
 - Focus on what is needed to drive clinical data flows
- Possibility to ensure sync between the MDR/SDR OSB versus the EDC system using shared uid reference keys for building blocks to be synced between MDR-EDC, including process for governance & maintenance
- You define the data specification for a study in one place/system, use it in many places, different EDC, ePROs, Labs, etc.
- OSB support a granular level of versioning, enabling sync with the EDC library is important
- Reduced number of API calls to define an EDC collection instrument
- Annotated CRF will come out of the MDR as this is part of data spec and a submission deliverable
- It will have a manifest 'contract' that will help the machine to understand and read successfully the file for sync

Weaknesses

- CDISC exchange formats is for exchange including extensions but some of the needed '25' core attributes are missing, these need to be added as 'CDISC Standard' extensions
- Differences in data types between systems that are not sufficiently captured in the core MDR definitions.
- Another system to learn if we have the general specifications included in MDR (OCM work)

SWOT Break-out 3 - OSB <-> native EDC API (2)

Opportunities

- The core 'data specification' to 'submission delivery specification'
- Improve insight into actual data collection use of data standards, study specific use, a bottom-up approach for standard governance and standard development
- OSB can provide a 'digitally enabled study specification' for data collection systems, where the receiving system can utilise the parts they support
- Some OSB definitions simply is 'structured' instructions for manual study build in EDC
- ePRO and EDC communication, standards that go across systems setup un StudyBuilder source agnostic data flows

Threats

- Do not boil the ocean in the MDR, focus on the core integration
- Many MDR solutions have failed due to incomplete coverage for the study set-up in the MDR<->EDC/ePRO – due to the vision of a complete coverage – solution is to limit the integration to the core parts
- How to drive adoption in the organisation to be used across skill areas
- Standards are different across companies
- OSB and EDC systems have different versioning approaches

Actions and next step

The NN OSB <-> Veeva EDC experiments

- Will focus on the NN needs
- Veeva will build API's for their solution, will be made public
- NN will build OSB integration using Veeva APIs
- We will share these for collaboration

Follow up

- Newsletter (linkedIn)
- Project homepage (openstudybuilder.com)

Other OSB EDC experiments

• Can focus on anyone's need

CDISC COSA collaboration

- Presentations at:
 - Webinars
 - Videos
 - Workshops
 - Conferences (EU + US)
 - DDF/USDM
 - COSMoS

OpenStudyBuilder Feedback & Feature Requests

- Mail: <u>OpenStudyBuilder@gmail.com</u>
- Slack / LinkedIn
- OpenStudyBuilder community meetings (next 6.6.)