DDF (Digital Data Flow) - Project Information and Call for Volunteers

Presenters: Christine Connolly, CDISC Senior Project Manager, Dave Evans, CDISC President & CEO, John Owen, CDISC Head of Partnership & Development **Panelists**: Alison Luckman, TransCelerate co-Product Owner/Lead for the DDF Delivery/Build Team <u>Peter Van Reusel, CDISC Chief Standards Officer</u>

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TUE 5 OCT 11:00AM-12:30PM ET

Today's Agenda

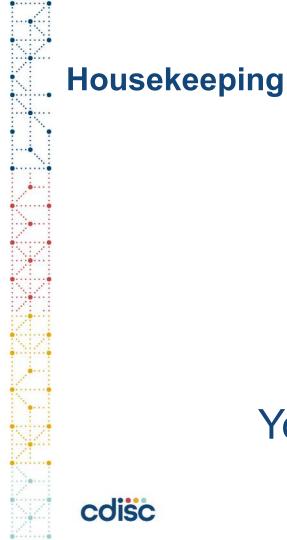
- 1. Housekeeping
- 2. Speaker Introductions
- 3. Feature Presentation
- 4. Q&A

2

5. Upcoming Learning Opportunities & Events

Housekeeping

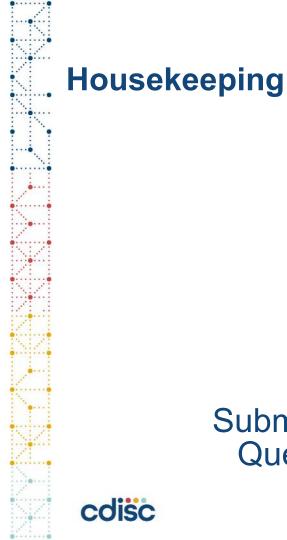
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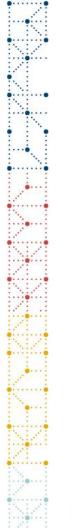
You will remain on mute



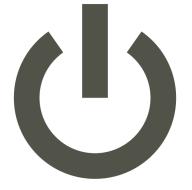




Submit questions at any time via the Questions tool on your GTW app

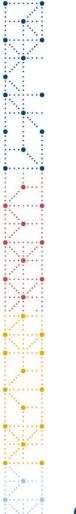


Housekeeping



Audio issues? Shut down & restart GTW app





Housekeeping



A recording of this webinar and the slides will be available in the **Webinar Archive** section of CDISC website, and on the DDF pages.



Today's Presenters and Panelists

Presenters:

- Christine Connolly, CDISC Senior Project Manager
- Dave Evans, CDISC President & CEO
- John Owen, CDISC Head of Partnership & Development

Panelists:

- Alison Luckman, TransCelerate co-Product Owner/Lead for the DDF Delivery/Build Team
- Peter Van Reusel, CDISC Chief Standards Officer



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TUE 5 OCT 11:00AM-12:30PM ET

Digital Data Flow (DDF) Project Scoping Overview and Call for Volunteers

Presenters: Christine Connolly, CDISC Senior Project Manager, Dave Evans, CDISC President & CEO, John Owen, CDISC Head of Partnership & Development

Panelists: Alison Luckman, TransCelerate co-Product Owner/Lead for the DDF Delivery/Build Team Peter Van Reusel, CDISC Chief Standards Officer

5th October 2021

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1. Webinar Introduction

- 2. Introduction to DDF
- 3. CDISC Involvement in the DDF project
- 4. Results of the scoping phase
- 5. Ongoing development work
- 6. Call for volunteers
- 7. Q&A

Why is CDISC partnering with TransCelerate on DDF?

CDISC has always been an evolving transformational standards organization for information used in clinical research and regulatory submission.

CDISC Data Standards Lifecycle





Why is CDISC partnering with TransCelerate on DDF?

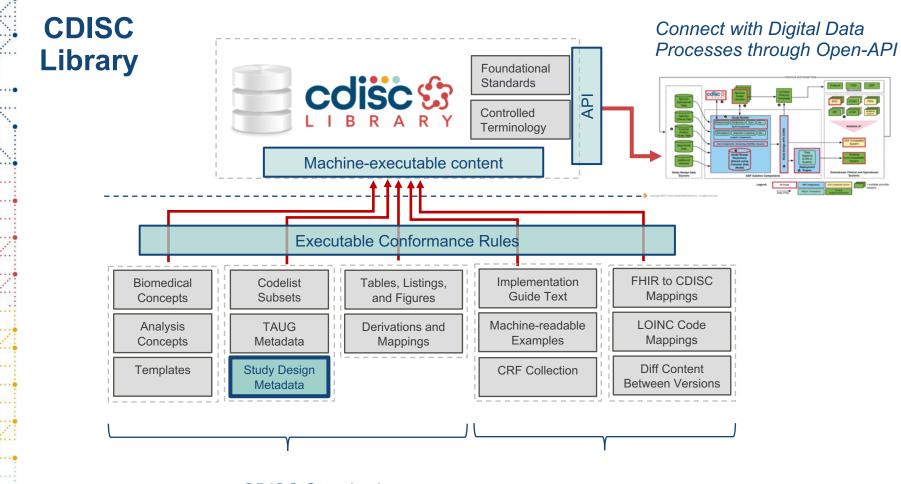
CDISC has always been an evolving transformational standards organization for information used in clinical research and regulatory submission.

CDISC Data Standards Lifecycle

Automation requires:

- Standard Machine-executable content for Useability
- Standard Technology Interfaces for Integration for Accessibility
- Standard Verification and Conformance Rules for Integrity
- Standard Trial Design Specifications for Total Automation of the Digital Data Flow



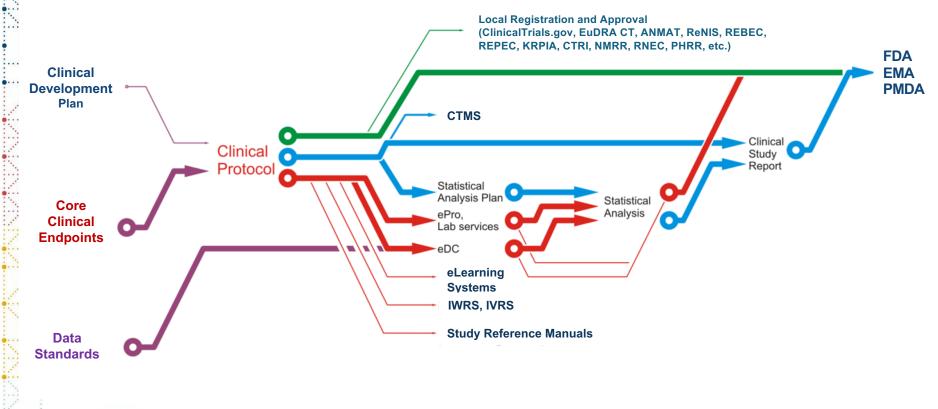


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CDISC Standards

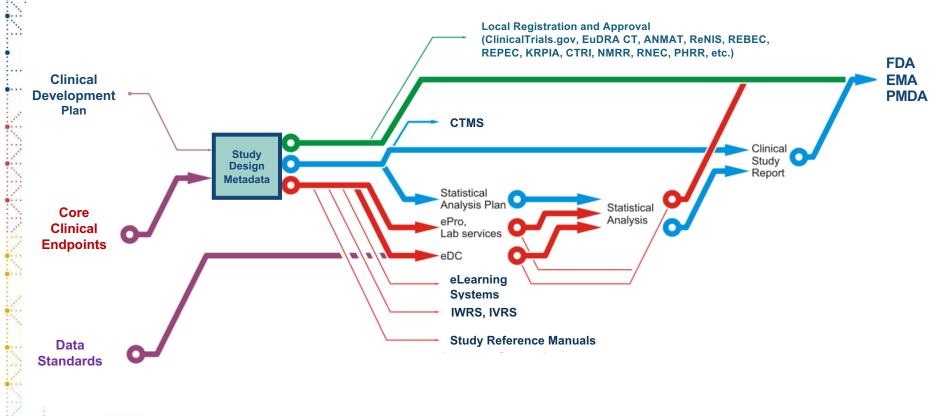
Informative Content

The Clinical Trial Information Flow



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The Clinical Trial Information Flow



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TransCelerate Digital Data Flow (DDF) Solution

This initiative aims to:

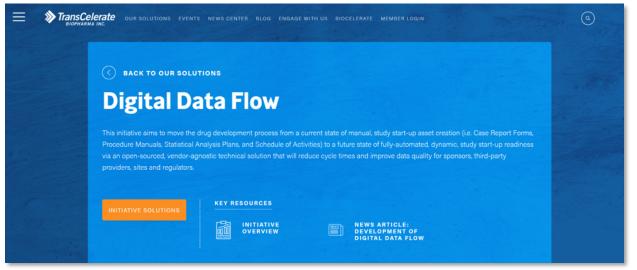
- Move the drug development process from a <u>current state of manual, study</u> <u>start-up asset creation</u> (i.e. Case Report Forms, Procedure Manuals, Statistical Analysis Plans, and Schedule of Activities)
- To a future state of fully-automated, dynamic, study start-up readiness
- Via an open-sourced, vendor-agnostic technical solution
- That will <u>reduce cycle times and improve data quality</u> for sponsors, thirdparty providers, sites and regulators





TransCelerate DDF Information

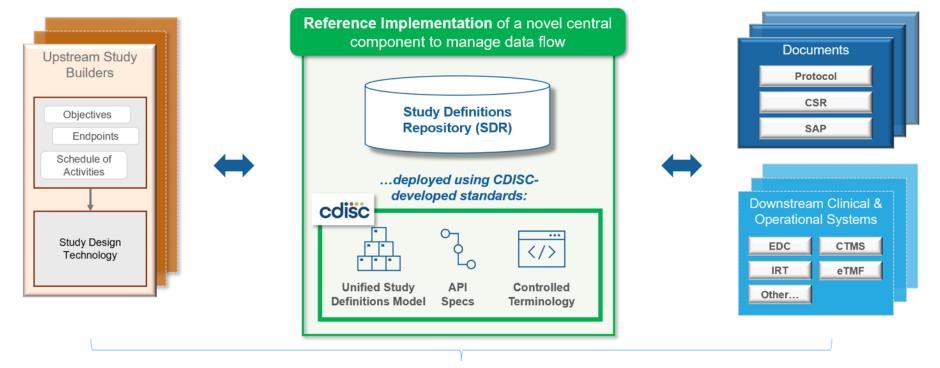
Please visit the TransCelerate DDF Webpage for more information



https://www.transceleratebiopharmainc.com/initiatives/digital-data-flow/



DDF is building "middleware" to connect systems, not to replace them



Automated Data Flow Between Upstream & Downstream Systems

TransCelerate DDF Press Release

TransCelerate BioPharma Commences Collaborative Development of a Novel Digital Data Flow Solution for Study Start-Up

Accenture, CDISC, and Microsoft join TransCelerate to create open-source, vendor-agnostic solution

September 09, 2021 09:03 AM Eastern Daylight Time

PHILADELPHIA-(BUSINESS WIRE)--TransCelerate BioPharma Inc. (TransCelerate) announced today that it has commenced development on a reference implementation of a study definitions repository. The study definitions repository is a novel central component aimed at facilitating the exchange of structured study definitions across clinical systems using technical and data standards. TransCelerate is leading the effort to design, build, and deploy the open-source, vendor agnostic solution with Accenture, the Clinical Data Interchange Standards Consortium (CDISC), and Microsoft. The solution provides a common foundation for industry-wide interoperability, capable of modernizing the way data flows across the clinical trials ecosystem.

"Microsoft is pleased to help
accelerate and empower innovation
and reduce time to market of new
therapies"

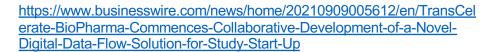
🔰 Tweet this

Utilizing a standards-based study definitions repository may facilitate endto-end digital data flow between upstream study design systems (e.g., study builders, protocol authoring tools) and downstream systems and documents used to execute a trial according to the protocol. TransCelerate is building a reference implementation of a study definitions repository to encourage future open-source development and deployment of this concept across the clinical trials ecosystem. This is expected to facilitate new levels of interoperability among clinical systems used across study design, start-up, and execution, paving the way for new innovations in the

R&D technology landscape and more seamless, open collaboration among research partners.

Potential benefits of such a solution include:

· Minimized process hand-offs, data re-entry, and data inconsistencies across study start-up and execution







- 2. Introduction to DDF
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DDF Initiative – CDISC Involvement

TransCelerate has partnered with CDISC in support of this vision and will:

- Develop standards and reference architecture for a study definitions repository to be built by a lead vendor.
- Maintain developed standards and reference architecture utilized by the Digital Data Flow solution.

A reference architecture generally includes common architecture principles, patterns, building blocks, and standards. A reference architecture in the field of software architecture provides a template solution for an architecture for a domain.

• With reference architecture and standards, any vendor can build a study definitions repository using different technologies, etc.



CDISC Study Definition Repository RA Deliverables



Unified Study Definitions Model (USDM) Class Diagram



Application Programming Interface (API) Specification



CDISC Controlled Terminology



Reference Architecture Conformance Tests





CDISC Deliverables



Essential User Stories

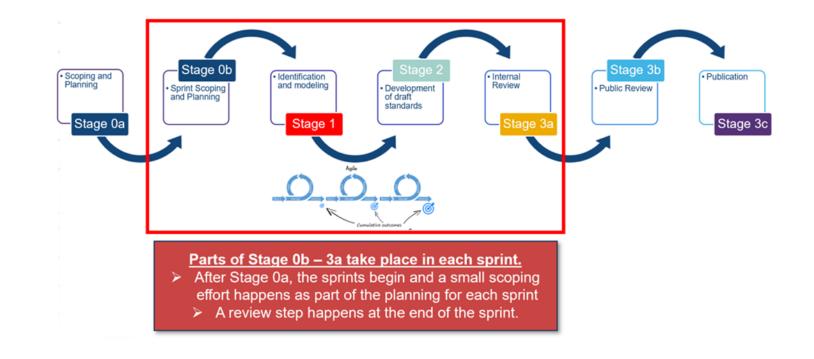


Architecture Principles



*Minimal Viable Product

The Process for MVP





*Minimal Viable Product

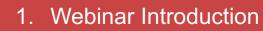
Timelines for the MVP*





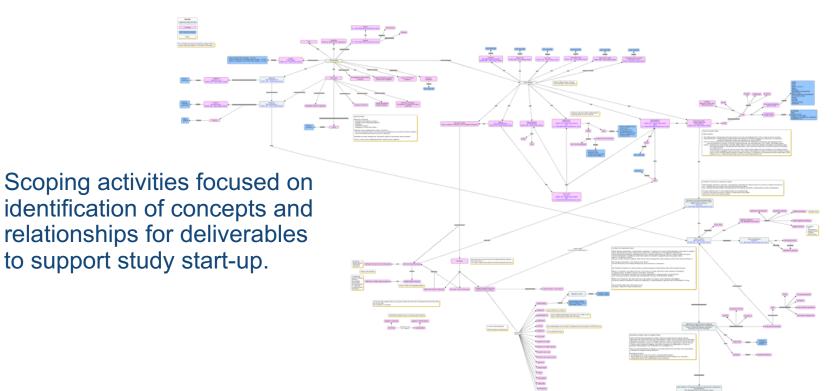
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Scoping for Reference Architecture (RA)





Scoping for Reference Architecture (RA)

At a minimum, scoping was required to include the following concepts:

- Objectives and endpoints
- High level study design
- Eligibility criteria
- Schedule of activities and assessments
- Activities and assessments
- Biomedical concepts linked to endpoints
- Data collection configuration related to activities and assessments





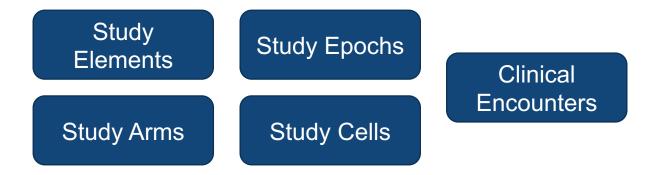
Scoping resulted in inclusion of general **clinical study** concepts; including but not limited to:







Scoping resulted in inclusion of high-level **study design** concepts; including but not limited to:







Scoping resulted in inclusion of **planned workflow** concepts; including but not limited to:



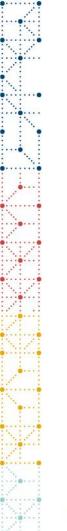




Scoping resulted in inclusion of **activity and assessment** concepts; including but not limited to:







Scoping resulted in inclusion of concepts to describe **biomedical concepts**; including but not limited to:



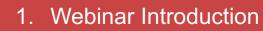




Scoping resulted in inclusion of concepts to describe **data collection**; including but not limited to:







- 2. Introduction to DDF
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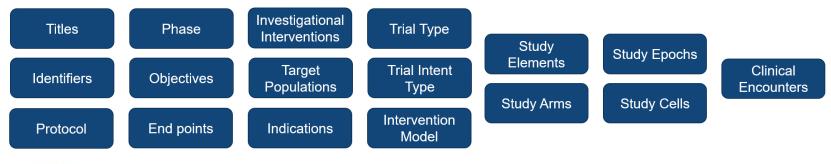
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Ongoing Development Work

Development work has started with current focus on scoped concepts:

- Likely applicable to any to-be defined RI requirements
- Already defined in mature CDISC and/or industry standards
- Which are dependencies for development of content related to protocol *Schedule of Activities and Assessments*.

Clinical Study and Study Design





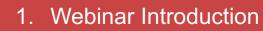
Ongoing Development Work

Deliverables currently in development are:

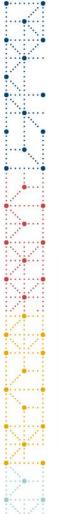
- Unified Study Definition Model (USDM) Class Diagram
- CDISC Controlled Terminology
- Application Programming Interface (API) Specification

Reference Architecture Conformance Tests will be be developed later in project timelines based on near final deliverables.





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Why Volunteer?

- Opportunities are available to become part of the CDISC DDF team
- At a minimum, opportunities to review the draft standards through the development process and public review
 - Other opportunities are available depending on time availability, please complete the volunteer with a description of your interest in the project





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How to volunteer

- Create a free cdisc.org account (<u>https://www.cdisc.org/user/registration</u>)
 - Only required if you don't have a cdisc.org account
- Navigate to the volunteers section of the website (<u>https://www.cdisc.org/volunteer</u>)
 cdisc

Home / Volunteer

Volunteer

Benefits of Volunteering

CDISC harnesses the vision and insights of each volunteer to define a focused approach for capturing and analyzing clinical research data. When the entire research community works together, we have the power to solve issues too complex for any one individual, team, or organization to address alone.



Volunteer Spotlight

CDISC is grateful to our many volunteers who dedicate their time and expertise to developing and advancing data standards of the highest quality. Visit our **Volunteer Spotlight** to learn about our community of experts committed to bring clarity to research.

Become a Volunteer

We invite you to join our efforts. If you are interested in volunteering at CDISC, pleas visit our **Become a Volunteer** page.

Highlighted Opportunities

Safety User Guide: Calling Volunteers with CDASH and SDTM Expertise



How to volunteer

· Review the following video and documents and complete the form

Select the CDISC Standards Development team that you would like to join. (Please choose one)



C CDASH
C Controlled Terminology
QRS
SDS
SEND

O XML-TechO Medical DevicesO Other...

Specify which Therapeutic Area you would like to join, if any.

Additional standards information can be found on our Standards Page.

View current Therapeutic Area User Guides in development.

Specify in which capacity you want to participate and explain why you want to be a volunteer. If you are interested in joining another team, leave your interest here.







Q&A



Thank You



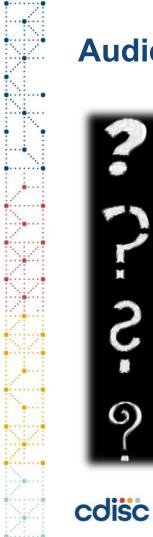
Questions & Answers



How will contents of the individual elements within the USDM be authored/reviewed/approved? (e.g. Endpoints, or Inclusion Criteria)



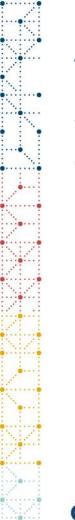






Where does this fit into the current CDISC standards landscape?

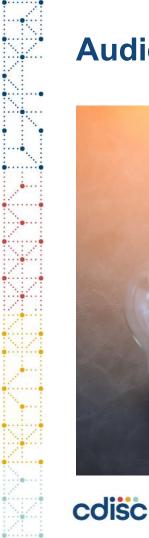
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Will this impact the foundational standards (CDASH, SDTM, ADaM)?



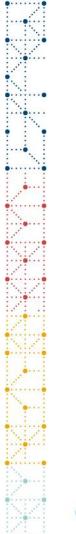






I work with CDISC foundational standards, but am unfamiliar with deliverables for this project apart from controlled terminology, can I still get involved?

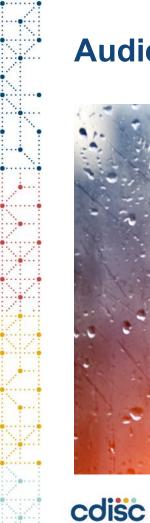
50



Do I have to be a CDISC member to volunteer?









Is the USDM using an existing or new standard?



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Are you also using the terminology developed by the CDISC Protocol Entities team? We have developed more than 350 terms to support protocol development, with more terms in the wings.









What are the volunteer activities you're looking for besides review?

+

What is the time commitment for volunteers?





Is it expected that volunteers for DDF should have any specific technology/programming skills as well?



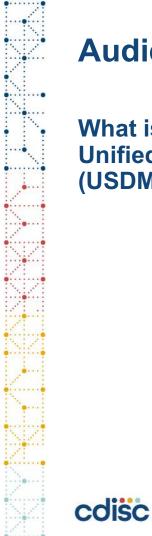
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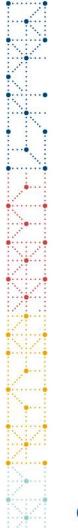
When I signed up for volunteering at CDISC, I had initially picked ADAM as the interest area. Can I change it to DDF for participating in this?





What is the relationship of the Unified Study Definition Model (USDM) to the BRIDG model?







What kind of technology recommendations is the effort going to publish? Is there a concern that any technology recommendation will bias towards one implementation or another and ultimately hurt the ability to innovate?

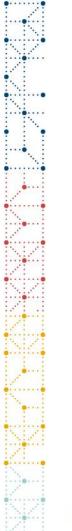




Will CDISC develop and publish a formal model for biomedical concepts as part of this project?







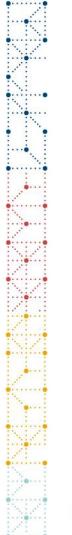
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Audience Questions



Does the scope of CDISC DDF also cover development of biomedical taxonomies and ontologies as well?

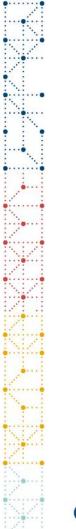




Do you plan to develop TA USDM?



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What is the plan to ensure that the study definition will encompass all study designs, including oncology and immunology?



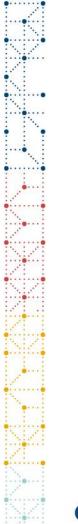


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Audience Questions

Has the Open Source License been picked? There are a couple of open source licenses that make corporate oversight extremely uncomfortable.







Where can we find the Standard CRFs developed for different domains within Transcelerate portal, can we have access to view them if we are registered in Transcelerate?

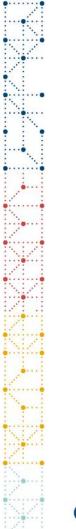




Interoperability is the ultimate goal. Is the integration of clinical studies with Electronic Health Records (EHRs) is planned in the future with enhanced data exchange security?



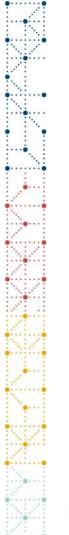






Is there any specific link to check on what is actually happening or any standards available as a part of Transcelerate?

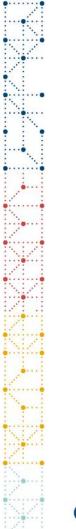




Are you all using the PRM in any way?



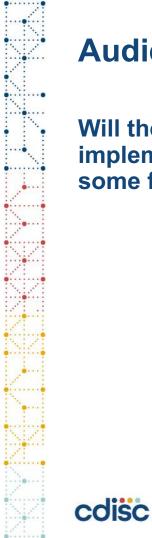






What about something like RESTFUL versus GraphQL? That selection has particular implementation implications.





Will the model or the reference implementation be tested through some form of connectathon?



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Is this project linked to the CDISC 360 initiative? What are the connections?

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Would you consider or promote another round of an Hackathon such as the TransCelerate DDF hackathon which ran two years back now?









Is this project for clinical data only or will it include nonclinical studies?

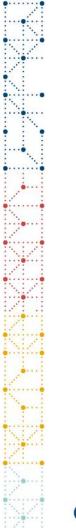


72



Is the USDM intended for RCTs only, or are you considering observational studies within the initial, or later, scope?







Would this project deliver a standard protocol template which can be machine readable?



Upcoming Learning Opportunities

New Virtual Training Methods

Blended Learning from CDISC

Online Resources <u>+ In-Person Instruction</u> More Personalized Learning

Classes Starting Soon!

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- Information available at: <u>www.cdisc.org</u>
- Register at: <u>https://learnstore.cdisc.org/</u>
- Contact us at: training@cdisc.org



CDISC Redefines Data Standards Training

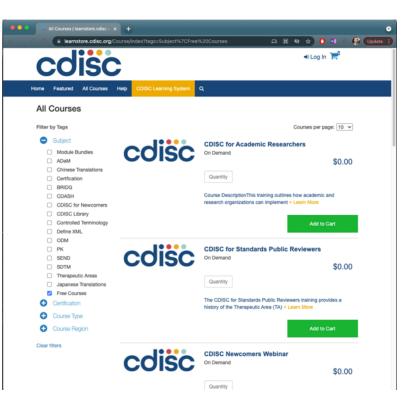
100% Instructor LedImmediate Feedback

Remote Convenience

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• Small Class Sizes

Free CDISC Courses



Http://learnstore.cdisc.org

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2021 US INTERCHANGE

With Standards – Science Will Prevail!

Live Stream | 20-21 October

Conference & Trade Show

VIRTUAL EVENT!

Virtual

VIUIIV





Upcoming Webinars

CDISC Open Source Alliance (COSA) Spotlight

18 November 2021, 11am - 12:30pm EST

REGISTER NOW!

To drive innovative approaches to standards-based automation, CDISC has initiated the CDISC Open-Source Alliance (COSA), which supports, promotes, and sometimes sponsors open-source software projects that create tools for implementing or developing CDISC standards.

Join us to learn the basics of how you can leverage the first COSA-approved tools to facilitate the implementation of CDISC standards in your systems.

- TFL Designer
- Visual Define-XML Editor
- Odmlib

We will also share how open-source developers can learn to apply for inclusion in the COSA Directory.

Panelist(s)

Sam Hume, VP Data Science, CDISC Dmitry Kolosov, Expert Statistical Programmer, Parexel Bhavin Busa, VP of Clinical Data Services & Operations, Vita Data Sciences

Language

English

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Controlled Terminology Updates for Q4 2021

21 December 2021, 11am - 12:30pm EST

REGISTER NOW!

This quarterly webinar series addresses the latest Controlled Terminology release package as well as content currently in Public Review. Controlled Terminology is the set of codelists and valid values used with data items within CDISC-defined datasets. Controlled Terminology provides the values required for submission to FDA and PMDA in CDISC-compliant datasets.

Panelist(s)

Dr. Erin Muhlbradt, Clinical/Biomedical Information Specialist, Enterprise Vocabulary Services, National Cancer Institute

Language

English

https://www.cdisc.org/events/webinar

Thank you!



Contact the Events inbox: events@cdisc.org



Contact Education inbox: training@cdisc.org



Contact Bernard directly: bklinke@cdisc.org

