

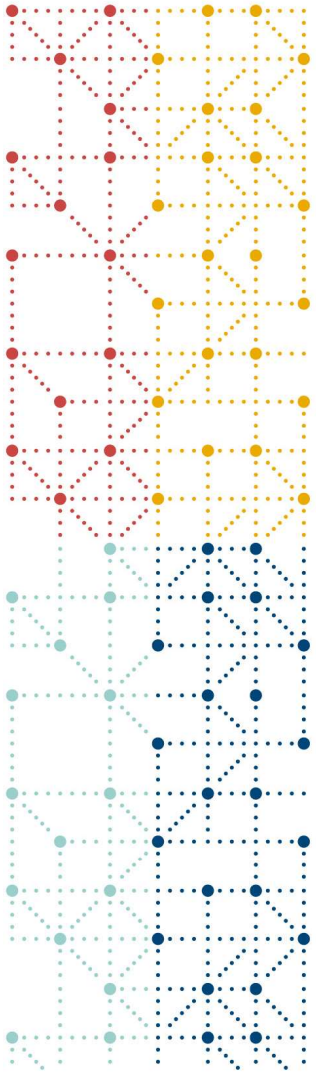


Next Generation CDISC Library

Presented by
Sam Hume - VP, Data Science, CDISC
Mike Hamidi - Head, Data Science, CDISC
Anthony Chow - Director, Data Science, CDISC

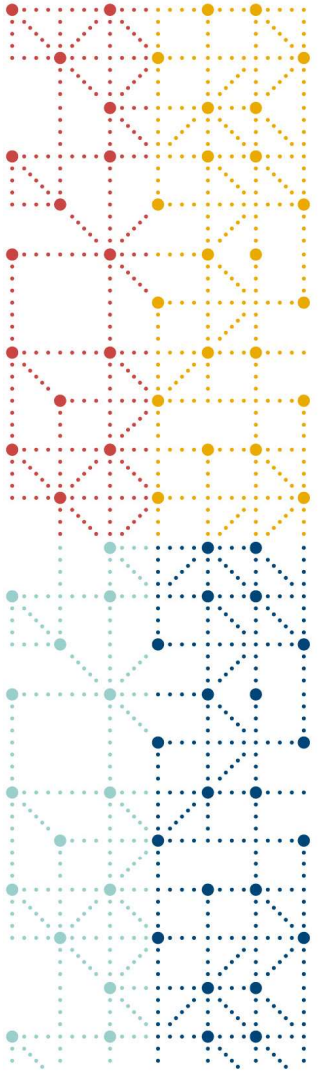
22 October 2020





Agenda

1. Introduction
2. Timeline of Activities
3. CDISC Library Data Standards Browser (DSB)
4. Actions for Data Standards Browser (DSB) Users
5. CDISC Library API Management Developer Portal (APIM-DP)
6. Actions for API Developers
7. CDISC Library Demo
8. Future of CDISC Library
9. Summary
10. Q&A



Introduction



What's the Next Generation CDISC Library?

CDISC is quickly moving towards a more technology-based standards future. With the CDISC Library, this technology focused approach is already underway. However, as we continue this journey into the next generation, more advanced and modernized technology suite of tools and services become a requirement.

The CDISC 360 Proof-of-Concept leveraged the Microsoft Azure platform to evaluate if CDISC could achieve the impossible (i.e., an end-to-end transformational pipeline). This also introduced the power of the Microsoft Azure platform and allowed a **partnership** between **Microsoft** and **CDISC** to form.

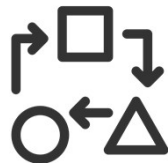
By CDISC partnering with Microsoft, it allowed the CDISC Library to have that more advanced and modernized technologically stack. In doing so, it allows the CDISC Library to move into the next generation and achieve our short-, medium-, and longer-term goals. Those goals cover the needs of operational, transitional, and maintenance continuum.



Next Generation Requirements

The CDISC Library will utilize the Microsoft Azure technology stack to accomplish the next generation requirements. Those requirement needs are partially defined on this slide.

- **Operational Needs**
 - Cost Mgmt.
 - Accessibility
 - Usability
 - Efficiency
 - Transparency
 - Functionality
 - Dependability
 - Security
 - Safety
 - Standards Mgmt.
- **Transitional Needs**
 - Portability
 - Interoperability
 - Reusability
 - Adaptability
 - Scalability
- **Maintenance Needs**
 - Modularity
 - Maintainability
 - Flexibility
 - Simplicity



Adaptability



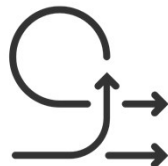
Dev. & Maint. Simplification



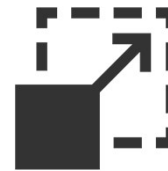
Modularity



DevOps Functionality



Flexibility



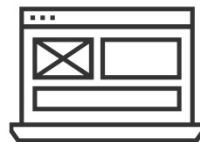
Scalability



Efficiency



Security



Accessibility & Usability



Reliability

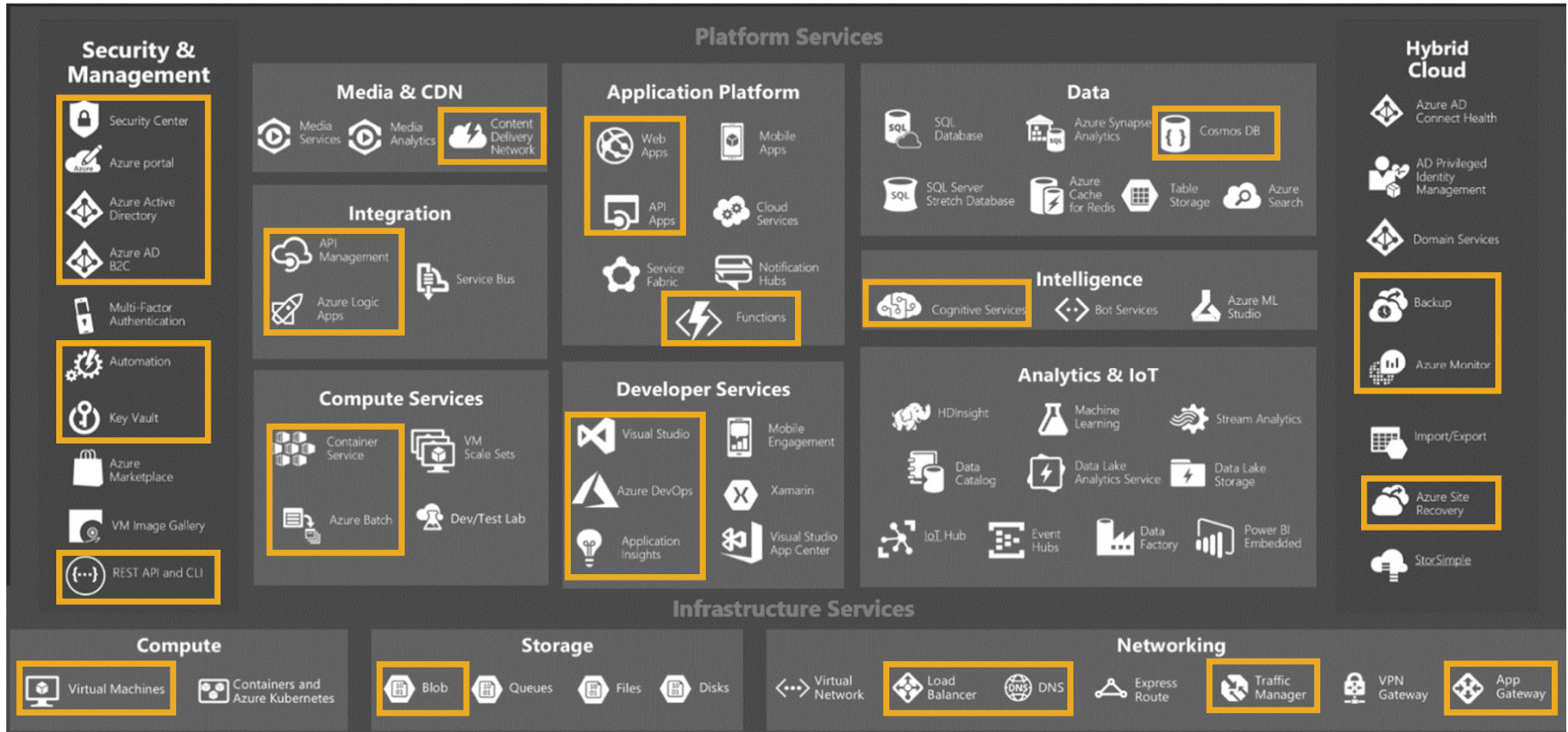


Analytics

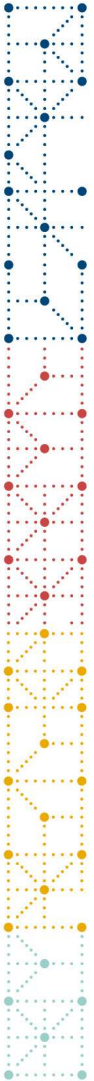


Cost Management

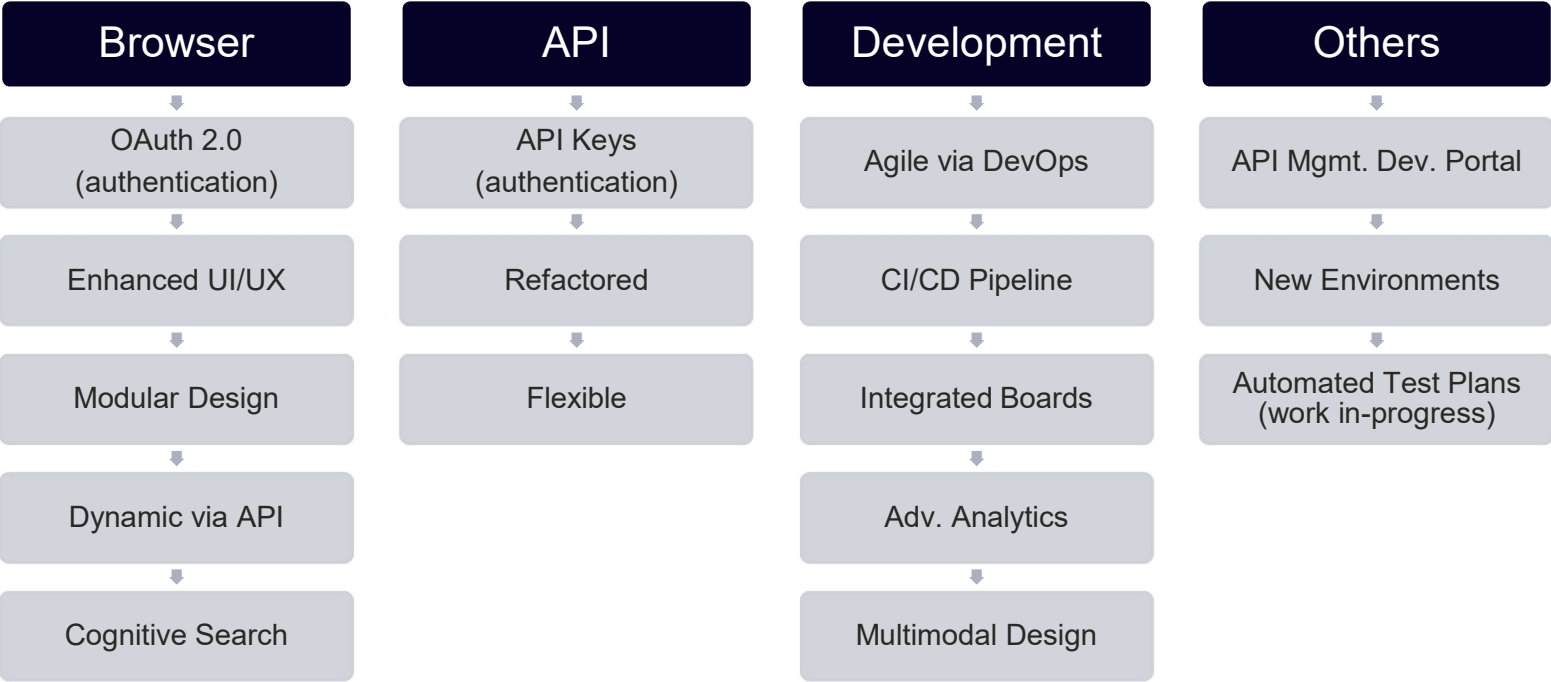
CDISC Library on Azure



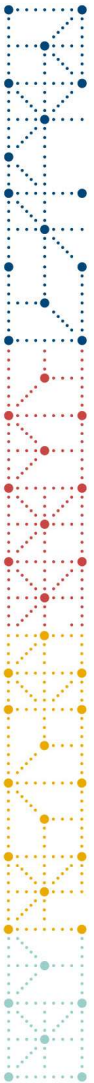
*As of Oct. 2020. Azure services will evolve as CDISC Library evolves. Additional Azure services may not be represented.



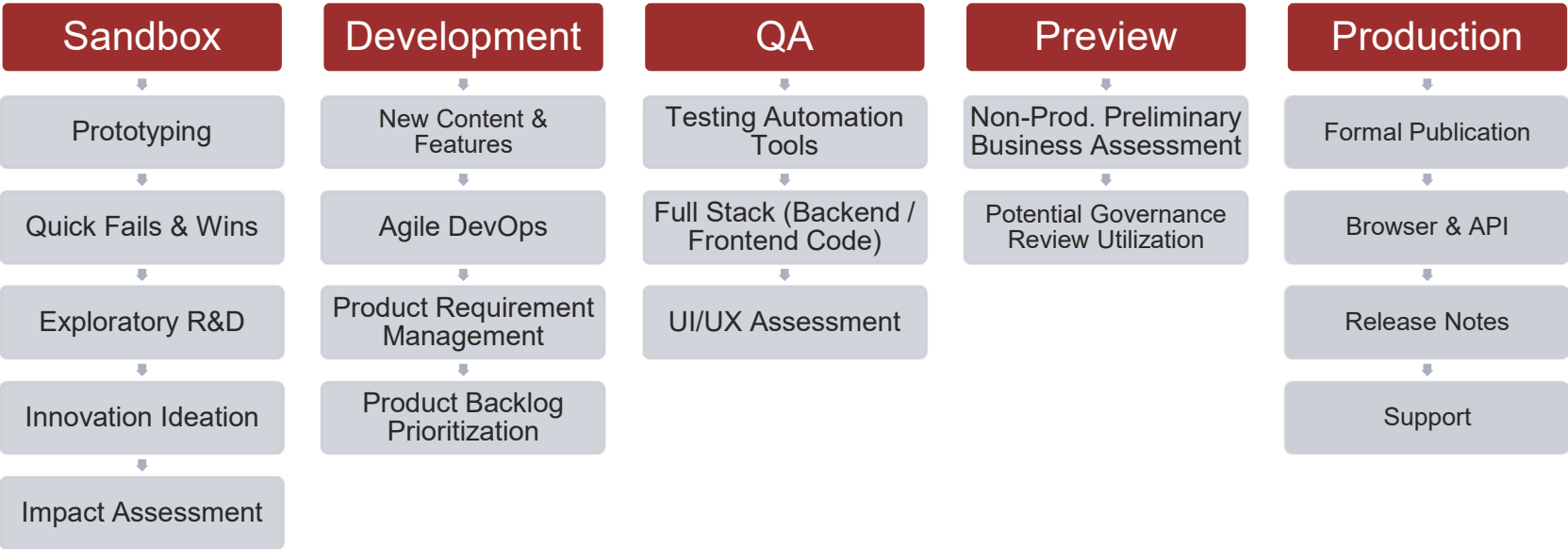
Summary of Key Changes



* The full details on all changes will be provided as part of the release notes.
UI/UX=User Interface and User Experience; CI/CD=Continuous Integration & Continuous Delivery/Deployment



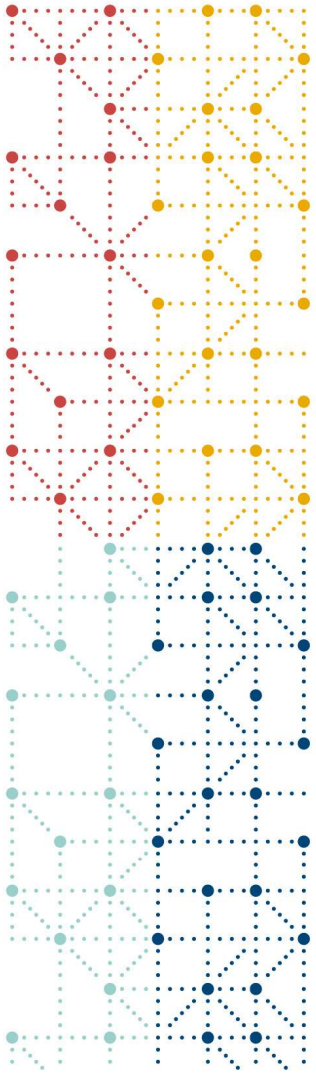
CDISC Library Environments



Continuous Integration & Continuous Delivery Pipeline →



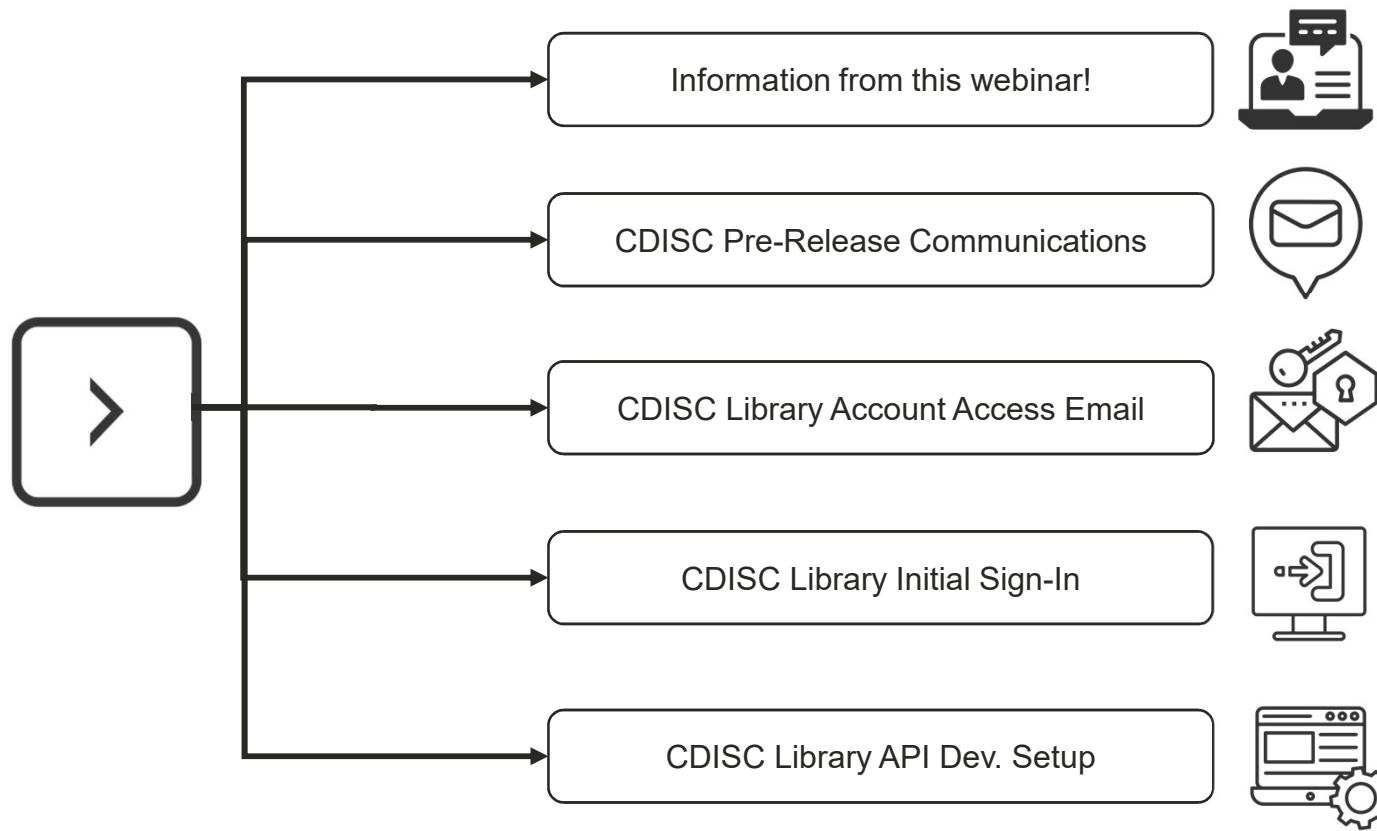
* Representative of current and future state concepts.
UI/UX=User Interface and User Experience; CI/CD=Continuous Integration & Continuous Delivery/Deployment



Timeline of Activities



What's Happens Next?



Timing of Release Activities



Go-Live:

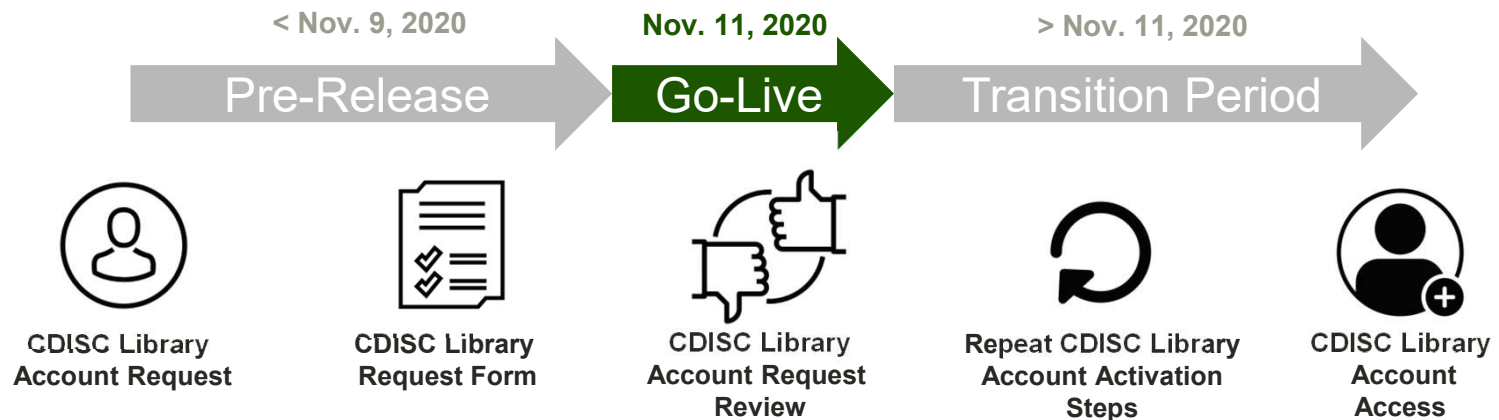
- CDISC instructions on key actions to be taken
- Make any necessary technical changes to API code (e.g., retrieving API Keys for CDISC Library API access)
- Initial setup period should generally take minutes-to-hours at most
- CDISC Library account setup instructions via email communication
- Notifying your internal organization of changes (spread the word)
- **Release maintenance window will occur between Nov. 9th to Nov. 11th**

Existing CDISC Library Accounts



- All existing CDISC Library accounts will be automatically migrated over to Microsoft Azure
 - CDISC will have a release maintenance window from **Nov. 9th** to **Nov. 11th**
- Your CDISC Library first sign-in instructions will be sent to your existing account email address
- You will verify and authenticate your CDISC Library account
- Access to the CDISC Library DSB and CDISC Library API Mgmt. Dev. Portal
 - If you are not a developer using the API, then all you need is the DSB
- A CDISC Library API Key is necessary to access the CDISC Library API (*more on this later*)
 - The CDISC Library API Mgmt. Dev. Portal provides developers access to the API Keys, Reports, etc.

New CDISC Library Accounts



- For new CDISC Library accounts, you will still request a CDISC Library account vis [CDISC website](#)
- Complete the CDISC Library account request form
- Your CDISC Library account request will be reviewed by CDISC
- CDISC Library account would be activated and ready for use
 - Same steps from the previous slide would be repeated, where applicable
- You can then access both the CDISC Library DSB and API Mgmt. Dev. Portal



*Detailed instructions and support references will be provided upon go-live.
DSB=Data Standards Browser

CDISC Library Communication Plan

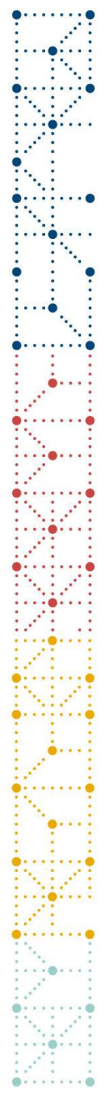
Timing Phase	Est. Timing	Communication	Target
Pre-Release	~Nov. 2nd	First notice of release maintenance downtime*	Existing CDISC Library accounts
Pre-Release	~Nov. 6th	Second notice of release maintenance downtime*	Existing CDISC Library accounts
Day of Release	Nov. 11th	Official release launch notification and account details emailed	Existing CDISC Library accounts
Post-Release	~Nov. 17th	First global communication of CDISC Library release	<ul style="list-style-type: none"> Existing CDISC Library accounts Wider CDISC community
Post-Release	~Dec. 2nd	Second global communication of CDISC Library release	<ul style="list-style-type: none"> Existing CDISC Library accounts Wider CDISC community

*The CDISC Library release maintenance downtime will occur between **Nov. 9th** and **Nov. 11th**.

There will be **no access** to CDISC Library during this time.

Note: Estimated dates may change as deemed necessary by CDISC

CDISC Library Sign-In Process



cdisc LIBRARY Data Standards Browser

Search

Dashboard

Expand All

- Data Collection
- Data Tabulation
- Data Analysis
- Terminology

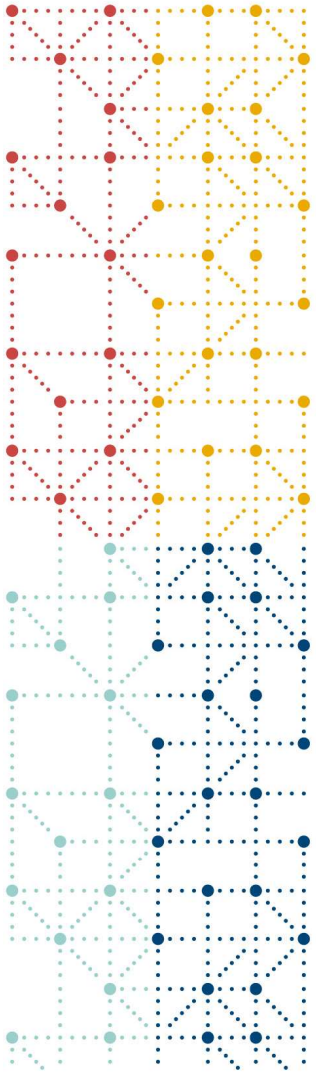
Welcome to the CDISC Library!
The single, trusted, authoritative source of CDISC standards metadata.

Helpful CDISC Library Resources

- [CDISC Library API Portal](#)
- [API Documentation](#)
- [CDISC Website Landing Page](#)
- [Product Inquiry Form](#)
- [Service Desk](#)
- [Release Notes](#)
- [How-to Articles](#)

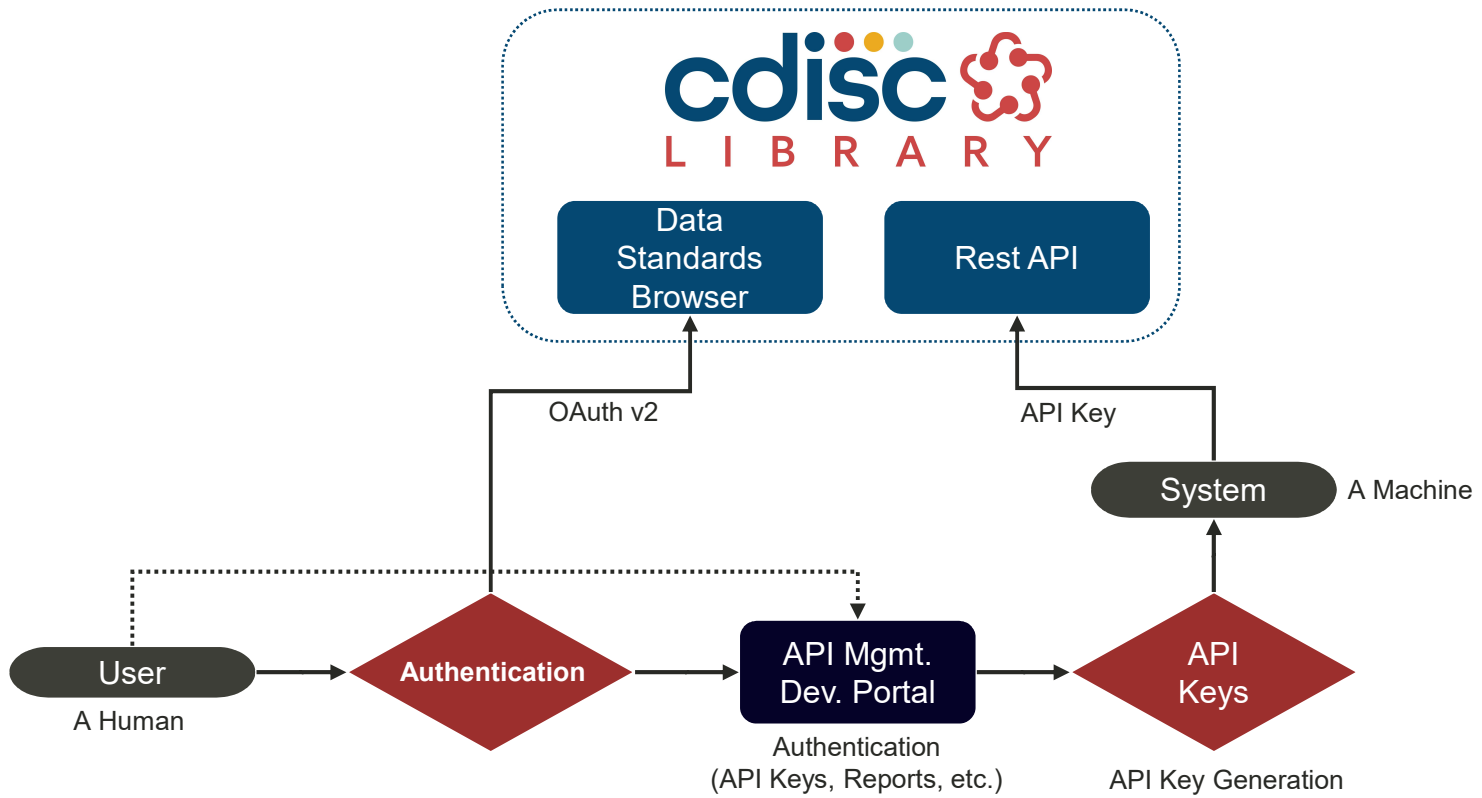


*As of October 2020.



CDISC Library Data Standards Browser (DSB)

Overview



AD B2C= Azure Active Directory Business 2 Customer; APIM=API Management; OAuth=Open Authorization

CDISC Library DSB: Login Page

cdisc
LIBRARY

Sign in with your email address

Email Address

Password

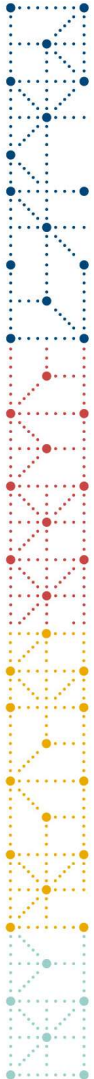
[Forgot your password?](#)

Sign in



*Screenshot as of October 2020

CDISC Library DSB: Dashboard



cdisc LIBRARY Data Standards Browser

Search

Dashboard

cdisc LIBRARY

Welcome to the CDISC Library!
The single, trusted, authoritative source of CDISC standards metadata.

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- [Release Notes](#)
- [How-to Articles](#)



*Screenshot as of October 2020

CDISC Library DSB: Product Page



Data Standards Browser

Search

Dashboard Expand All

Data Collection

Data Tabulation

- SDTM v1.8
- SDTM v1.7
- SDTM v1.6
- SDTM v1.5
- SDTM v1.4
- SDTM v1.3
- SDTM v1.2
- SDTMIG-MD v1.1
- SDTMIG v3.3
- SDTMIG-PGx v1.0
- SDTMIG-AP v1.0
- SDTMIG v3.2
- SDTMIG-MD v1.0
- SDTMIG v3.1.3
- SDTMIG v3.1.2
- SENDIG-AR v1.0
- SENDIG-DART v1.1
- SENDIG v3.1
- SENDIG v3.0

Data Analysis Terminology

SDTMIG v3.3

Status: Final Effective Date: 2018-11-20 Implements: SDTM v1.7

Export

Classes: General Observations Special-Purpose Interventions Events Findings Findings About Trial Design Relationship Study Reference

Data Sets: DA DD EG IE IS LB MB MS MI MO CV MK NV OE RP RE UR PC PP PE FT QS RS SC SS TU TR VS


Findings: VS

Name: Vital Signs Structure: One record per vital sign measurement per time point per visit per subject

Description: A findings domain that contains measurements including but not limited to blood pressure, temperature, respiration, body surface area, body mass index, height and weight. (Source: CDISC Controlled Terminology, DOMAIN, C49622, 2018-06-29)

Vital Signs

Ordinal	Name	Label	Description	Data Type	Role	Core	Code List	Described Value Domain	Implements
1	STUDYID	Study Identifier	Unique identifier for a study.	Char	Identifier	Req			STUDYID
2	DOMAIN	Domain Abbreviation	Two-character abbreviation for the domain.	Char	Identifier	Req			DOMAIN



Data Standards Browser

Search

Dashboard Expand All

Data Collection

Data Tabulation

- SDTM v1.8
- SDTM v1.7
- SDTM v1.6
- SDTM v1.5
- SDTM v1.4
- SDTM v1.3
- SDTM v1.2
- SDTMIG-MD v1.1
- SDTMIG v3.3
- SDTMIG-PGx v1.0
- SDTMIG-AP v1.0
- SDTMIG v3.2
- SDTMIG-MD v1.0
- SDTMIG v3.1.3
- SDTMIG v3.1.2
- SENDIG-AR v1.0
- SENDIG-DART v1.1
- SENDIG v3.1
- SENDIG v3.0

Data Analysis Terminology

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Data Sets: DA DD EG IE IS LB MB MS MI MO CV MK NV OE RP RE UR PC PP PE FT QS RS SC SS TU TR VS

Findings: VS

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Description: A findings domain that contains measurements including but not limited to blood pressure, temperature, respiration, body surface area, body mass index, height and weight. (Source: CDISC Controlled Terminology, DOMAIN, C49622, 2018-06-29)

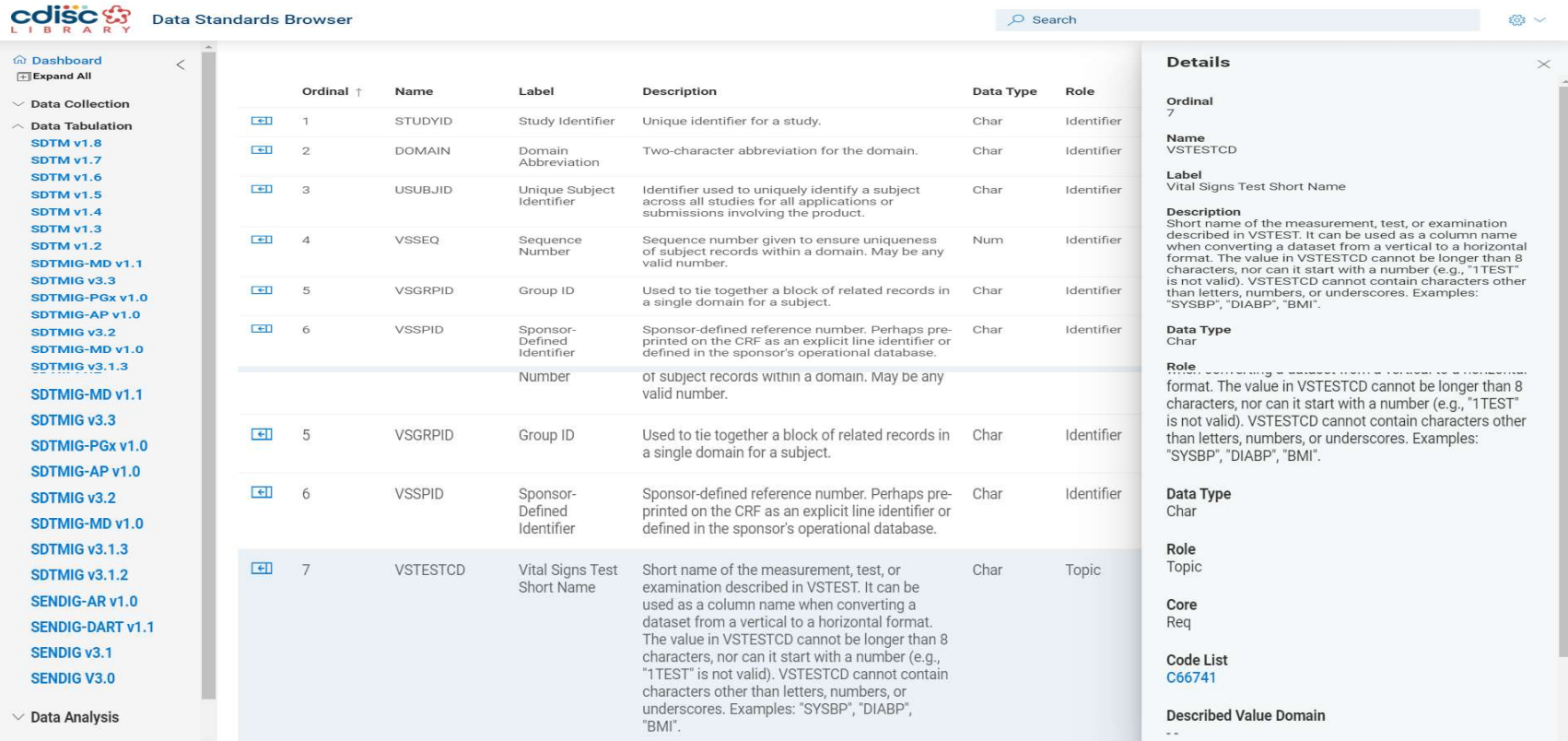
Vital Signs

Ordinal	Name	Label	Description	Data Type	Role	Core	Code List	Described Value Domain	Implements
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2	DOMAIN	Domain Abbreviation	Two-character abbreviation for the domain.	Char	Identifier	Req			DOMAIN



*Screenshot as of October 2020

CDISC Library DSB: Quick View



The screenshot shows the CDISC Library Data Standards Browser interface. On the left is a navigation sidebar with a tree view of categories like 'Data Collection', 'Data Tabulation', and 'Data Analysis'. The main area displays a table of data standards. The table has columns for Ordinal, Name, Label, Description, Data Type, and Role. The entry for 'VSTESTCD' (Ordinal 7) is highlighted. To the right of the table is a 'Details' panel for the selected entry, showing its Ordinal (7), Name (VSTESTCD), Label (Vital Signs Test Short Name), Description, Data Type (Char), and Role (Topic).

Ordinal ↑	Name	Label	Description	Data Type	Role
1	STUDYID	Study Identifier	Unique identifier for a study.	Char	Identifier
2	DOMAIN	Domain Abbreviation	Two-character abbreviation for the domain.	Char	Identifier
3	USUBJID	Unique Subject Identifier	Identifier used to uniquely identify a subject across all studies for all applications or submissions involving the product.	Char	Identifier
4	VSSEQ	Sequence Number	Sequence number given to ensure uniqueness of subject records within a domain. May be any valid number.	Num	Identifier
5	VSGRPID	Group ID	Used to tie together a block of related records in a single domain for a subject.	Char	Identifier
6	VSSPID	Sponsor-Defined Identifier	Sponsor-defined reference number. Perhaps pre-printed on the CRF as an explicit line identifier or defined in the sponsor's operational database.	Char	Identifier
7	VSTESTCD	Vital Signs Test Short Name	Short name of the measurement, test, or examination described in VSTEST. It can be used as a column name when converting a dataset from a vertical to a horizontal format. The value in VSTESTCD cannot be longer than 8 characters, nor can it start with a number (e.g., "1TEST" is not valid). VSTESTCD cannot contain characters other than letters, numbers, or underscores. Examples: "SYSBP", "DIABP", "BMI".	Char	Topic



*Screenshot as of October 2020

CDISC Library DSB: Search Results



cdisc LIBRARY Data Standards Browser AETERM

[Close search results](#)

Search Results

Narrow search results

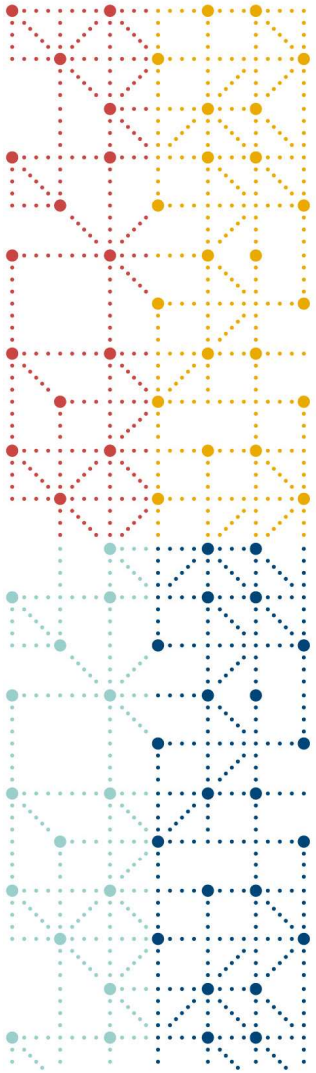
Scope: Scope Value: [Reset](#)

Selected Filters (1) [hide](#)

- [Class: Events](#)

20 results for "AETERM"

- AETERM** (Data Collection Field)
The reported or pre-specified name of the adverse event.
[Clinical Data Acquisition Standards Harmonization Implementation Guide for Human Clinical Trials Version 2.0](#)
- AETERM** (Data Collection Field)
Verbatim (i.e., investigator-reported term) description of the adverse event.
[Clinical Data Acquisition Standards Harmonization \(CDASH\) User Guide V1.1](#)
- AETERM** (Data Collection Field)
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- AETERM** (Data Collection Field)
The reported or prespecified name of the adverse event.
[Clinical Data Acquisition Standards Harmonization Implementation Guide for Human Clinical Trials Version 2.1](#)
- AETERM** (SDTM Dataset Variable)
Verbatim name of the event.
[Study Data Tabulation Model Implementation Guide: Human Clinical Trials Version 3.2 \(Final\)](#)



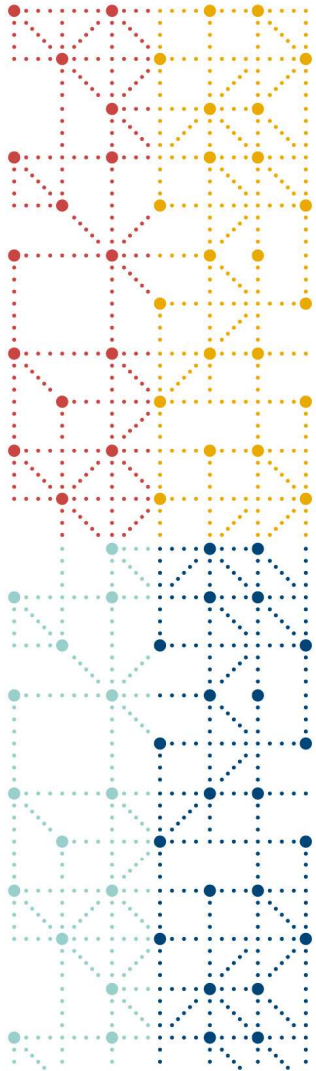
Actions for Data Standards Browser (DSB) Users

Actions for DSB Users



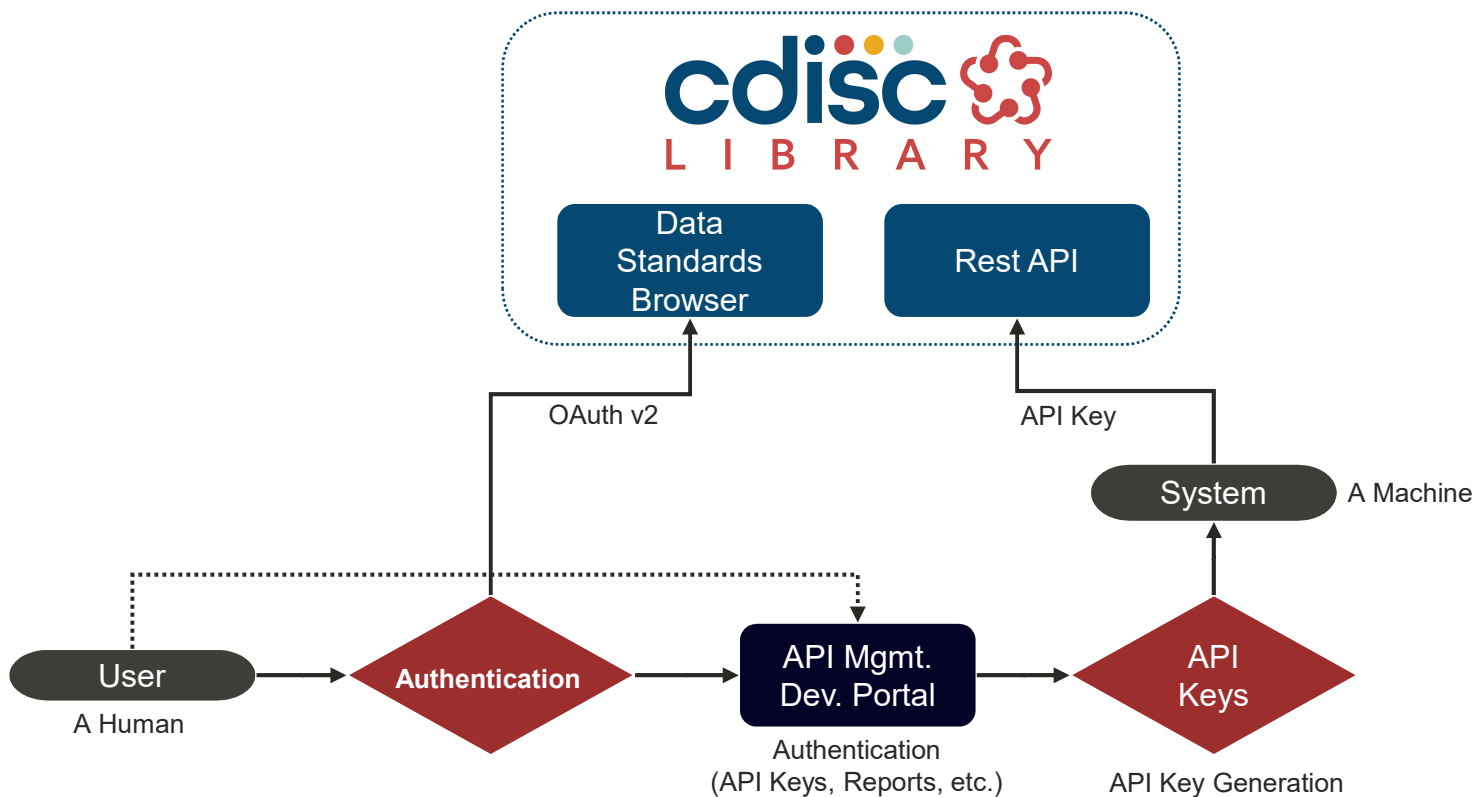
Step 3:

- Access the CDISC Library Data Standards Browser. Done!



**CDISC Library
API Management Development Portal
(APIM-DP)**

Overview



AD B2C= Azure Active Directory Business 2 Customer; APIM=API Management; OAuth=Open Authorization

CDISC Library APIM-DP: Dashboard



[CDISC Library Browser](#) [Reports](#) [API Tester](#) [API Key](#) [Sign out](#)

Welcome to the CDISC Library API Manager

To access your API key, please use the CDISC Library login to sign in at top right.

To access your API key, please use the CDISC Library login to sign in at top right.



*Screenshot as of October 2020



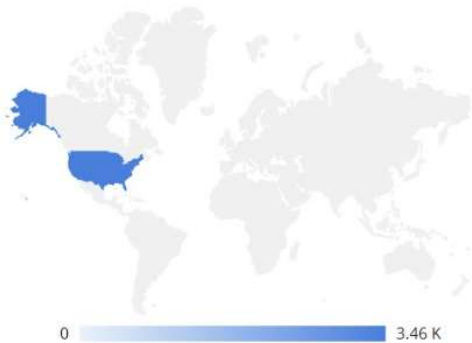
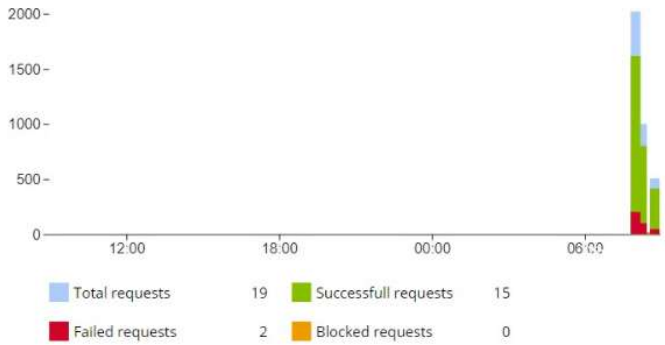
CDISC Library APIM-DP: Reports



Reports

- Last hour
- Today**
- Last 7 days
- Last 30 days
- Last 90 days

API calls

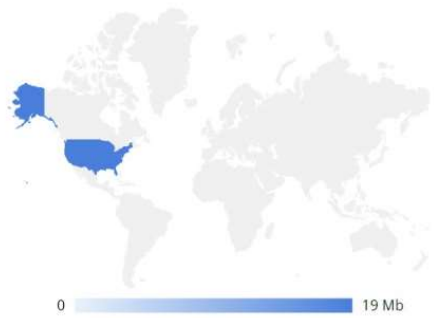
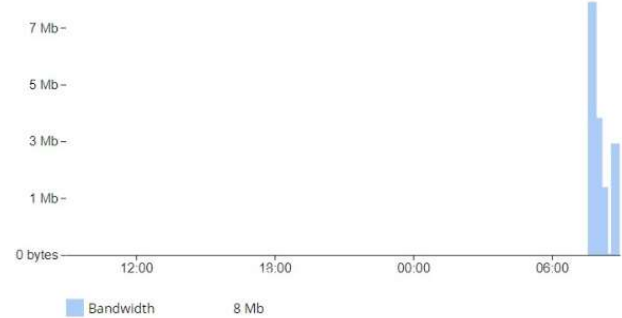


*Screenshot as of October 2020

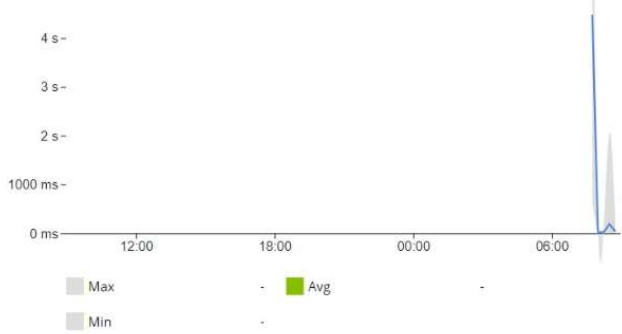


CDISC Library APIM-DP: Reports (cont.)

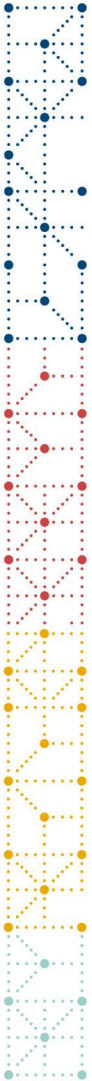
Data transfer



API response times



*Screenshot as of October 2020



CDISC Library APIM-DP: Reports (cont.)

Products

Product	Successful calls	Blocked calls	Failed calls	Other calls	Total calls	Average response time	Bandwidth
CDISC Library API	2.78 K	0	350	350	3.46 K	33 ms	19 Mb

Subscriptions

Subscription	Successful calls	Blocked calls	Failed calls	Other calls	Total calls	Average response time	Bandwidth
chowSubscriptionTest	2.78 K	0	350	350	3.46 K	33 ms	19 Mb

APIs

API	Successful calls	Blocked calls	Failed calls	Other calls	Total calls	Average response time	Bandwidth
CDISC Library API	2.78 K	0	350	350	3.46 K	33 ms	19 Mb

Operations

Operation	Successful calls	Blocked calls	Failed calls	Other calls	Total calls	Average response time	Bandwidth
/mdr/root/ct/{productGroup}/codelist...	804	0	0	350	1.13 K	12 ms	1 Mb
/mdr/cdashig/{version}/classes - GET	176	0	0	0	176	12 ms	346 Kb
/mdr/cdashig/{version}/domains - GET	175	0	0	0	175	73 ms	524 Kb
/mdr/cdashig/{version}/domains/{do...	175	0	0	0	175	74 ms	582 Kb
/mdr/cdash/{version}/domains - GET	175	0	0	0	175	11 ms	350 Kb



*Screenshot as of October 2020

CDISC Library APIM-DP: API Tester



CDISC Library API

Search operations



Group by tag

Analysis Data Model and Implementation Guide (ADaM and ADaMIG)

- GET /mdr/adam/{product} - GET
- GET /mdr/adam/{product}/datastructures/...
- GET /mdr/adam/{product}/datastructures/...
- GET /mdr/adam/{product}/datastructures/...
- GET /mdr/adam/{product}/datastructures/...
- GET /mdr/adam/{product}/datastructures/...
- GET /mdr/adam/{product} - GET
- GET /mdr/adam/{product}/datastructures/...
- GET /mdr/adam/{product}/datastructures/...
- GET /mdr/adam/{product}/datastructures/...
- GET /mdr/adam/{product}/datastructures/...
- GET /mdr/adam/{product}/datastructures/...
- GET /mdr/adam/{product}/datastructures/...

CDASH Implementation Guide (CDASHIG)

- GET /mdr/cdashig/{version} - GET
- GET /mdr/cdashig/{version}/classes - GET
- GET /mdr/cdashig/{version}/classes/{class}...
- GET /mdr/cdashig/{version}/classes/{class}...

No API selected

/mdr/sdtmig/{version}/datasets - GET

Get SDTMIG Dataset List

SDTM Implementation Guide (SDTMIG)

Request

GET https://api.library.cdisclibrary.org/api/mdr/sdtmig/{version}/datasets

Request parameters

Name	In	Required	Type
version	template	true	string

Request

GET https://api.library.cdisclibrary.org/api/mdr/sdtmig/{version}/datasets

Request parameters

Name	In	Required	Type
version	template	true	string

Response: 200 OK

OK

- application/json
- application/xml
- text/csv

CDISC Library API / /mdr/sdtmig/{version}/datasets - GET

GET /mdr/sdtmig/{version}/datasets

Authorization

Subscription key

Parameters

version

+ Add parameter

Headers

Cache-Control Remove

+ Add parameter

Headers

Cache-Control Remove

+ Add header

HTTP Curl C# Java

JavaScript PHP Python Ruby

Objective C



*Screenshot as of October 2020



CDISC Library APIM-DP: API Tester



Account and API Key

Account details

Email
First name
Last name
Registration date

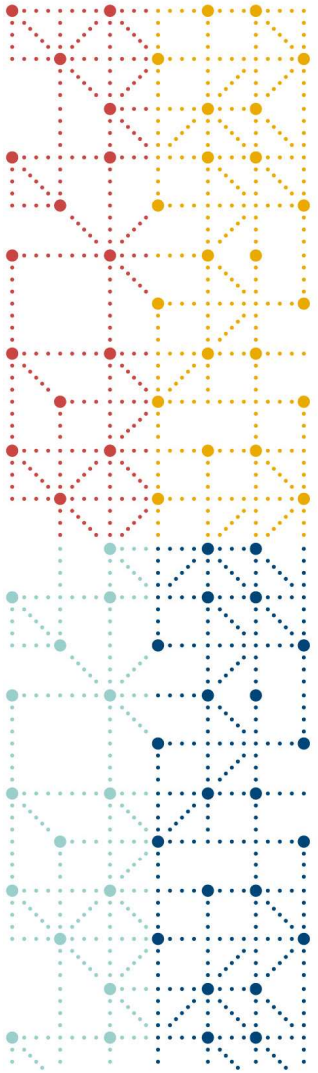


Subscriptions

Subscription details	Product	State	Action
Name		Active	Cancel
Primary key	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		Rename Show Regenerate
Secondary key	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		Show Regenerate

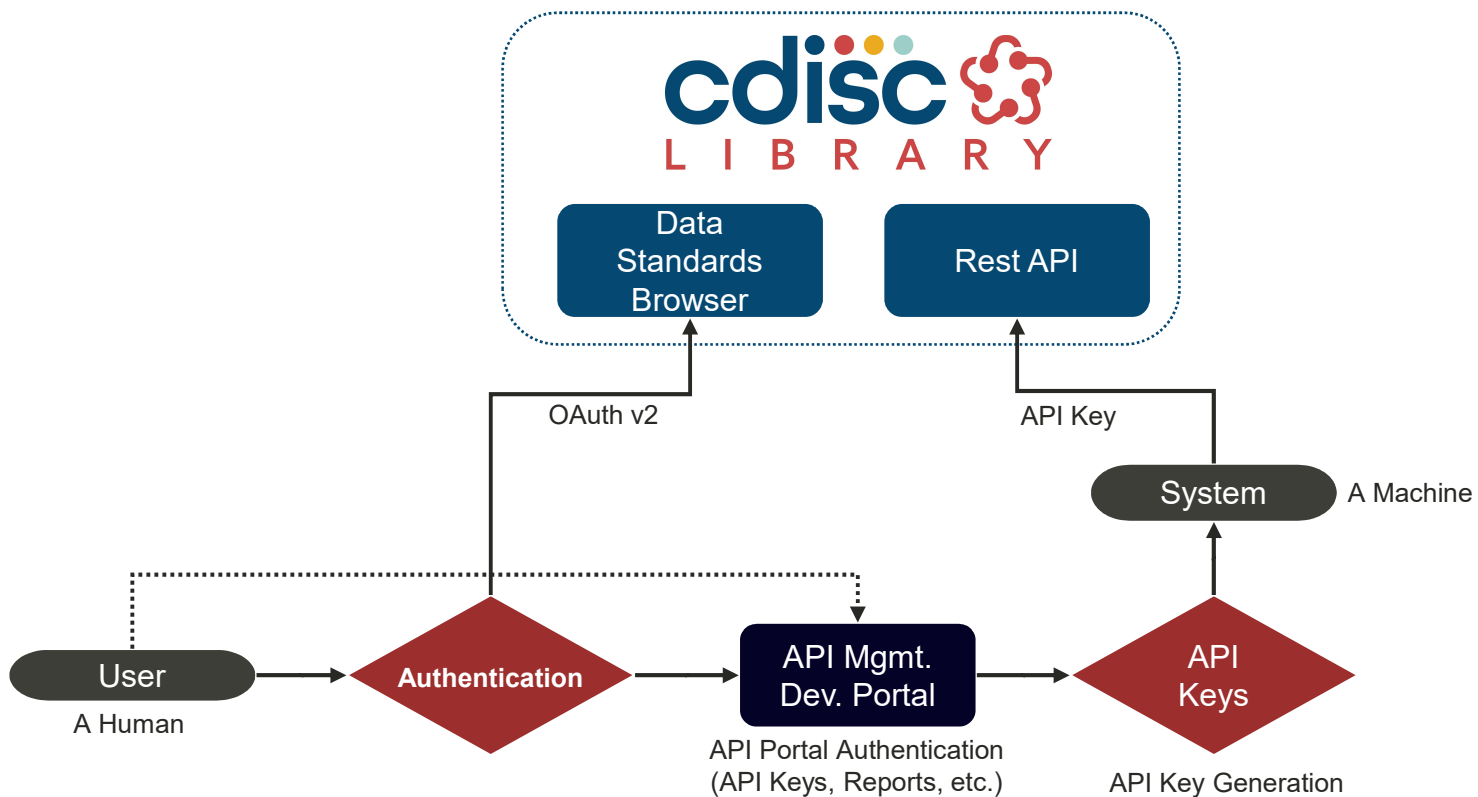


*Screenshot as of October 2020



Actions for API Developers

Overview



AD B2C= Azure Active Directory Business 2 Customer; APIM=API Management; OAuth=Open Authorization

Pre-Release Preparation Activities



Pre-Release
Guidance



Pre-Release
Code Preparations



Pre-Release
Communication Awareness

Pre-Release Communication Awareness:

- CDISC will be communication key announcements prior to the release
- Communication details will describe the maintenance downtime and availability
- Follow any additional instructions described within those communications

On & Post-Release Activities



Obtain
API Key(s)



Integrate
API Key(s)



Review Release
Notes & Guidance



Ask for Help
(if necessary)

Ask for Help:

- If the release notes or guidance does not help
- Please reach out to the CDISC Library Support team
- Accessible via <https://www.cdisc.org/cdisc-library> (under Product Inquiry tab)



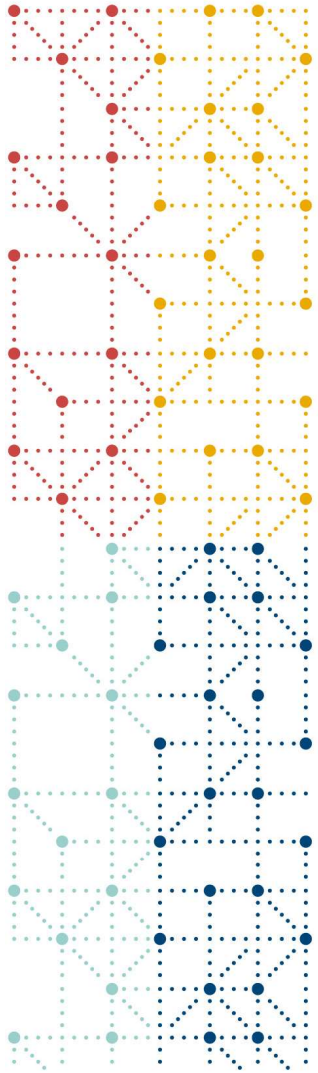
CDISC Library Demo

Data Standards Browser, API Developer Portal, REST API



Disclaimer

URLs shown in the demo are not intended for production use



Future of CDISC Library

CDISC Library Vision: Today vs. Tomorrow

Today's CDISC Library

- Single source of normative metadata
- All versions of all standards
- CDISC Data Science loads content
- Read-only content
- Software tools adding API support
- Library hosted by CDISC



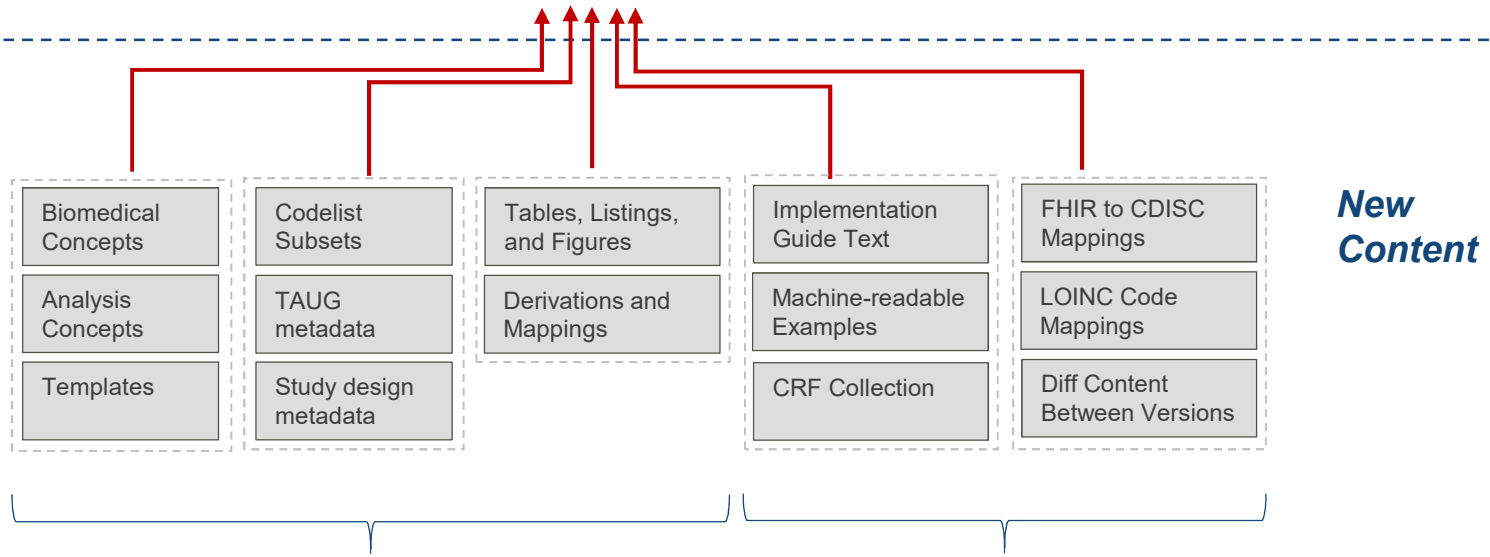
Tomorrow's CDISC Library

- Source of record for published standards
- Authoring tools for standards development
- Create, read, and update standards
- Informative and normative content
- Contains concept metadata
- Numerous software tools use Library
- Titanium members host private Libraries
- Promotes a common API for standards content
- Authoring tools for Titanium members
- Collaborative curation

Future Roadmap: New Content



Available Today

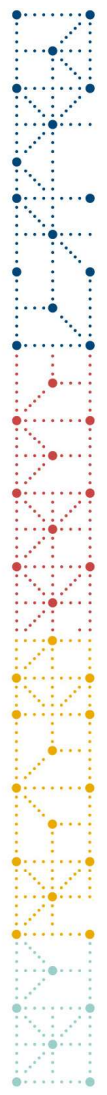


New Content



CDISC 360

Informative Content





Developer access

Titanium – New Membership Level

- **Federated Model**
- **Create a Library Advisory Board: Investors have a vote**
 - Functionality priority
 - User Requirements
- **Opens back-end access**
 - Authoring, governance, integrated metadata



No account limitation
(all@company.com)

- Ability to 'deploy' on own environment
- Community curation of content



No bandwidth limit
(fair use policy)

Members – Via CDISC membership

- **Additional functionality**
 - Full Standards download
 - Diff tables



Named accounts



Per plan

Bundles

Gold			Platinum		
License	Maximum Bandwidth	Maximum # of Accounts	License	Maximum Bandwidth	Maximum # of Accounts
Member	1.5 GB/month	2	Member	2 GB/month	3
Commercial	2.5 GB/month	3	Commercial	3 GB/month	4

Bundle Option	Bundle Cost*	Bandwidth Allocation % (per bundle)**
10 accounts	\$2,500/year	4 GB/month
20 accounts	\$3,500/year	8 GB/month
50 accounts	\$5,000/year	20 GB/month

API



Non Members - World – Free of charge

- **“Adoption of standards”**
- Small downloads (XLS – CSV)



Self sign-up



Limited bandwidth
(browsing only)

Future Roadmap: Standards Authoring Capabilities

The screenshot displays the CDISC Standards Authoring Capabilities interface. The left sidebar shows a tree view of standards, including CDASHIG v2.0 and various SDTM and SENDIG versions. The main content area is for 'CDASHIG v2.0' and includes sections for Domains (DA, DD, EG, IE, LB, MI, PC, PE, SC, RP, SR, VS, FA) and Scenarios (DA - Denormalized Options: Horizontal-Example, DA - Implemented Options: Horizontal-Generic). The 'Findings' section shows a table of data points for 'Drug Accountability'.

Ordinal	Name	Label	Definition	Question Text	Prompt
1	STUDYID	Study Identifier	A unique identifier for a study.	What is the study identifier?	[Protocol/Study]
2	SITEID2	Study Site Identifier	A unique identifier for a site within a study.	What is the site identifier?	Site (Identifier)
3	SUBJID	Subject Identifier for the Study goes here	A unique subject identifier for the study.	What is the subject identifier?	Subject
4	VISIT	Visit Name	The name of a planned and unplanned trial interventions, procedures...	What is the visit name?	[Visit]
5	VISDAT	Visit Date	Date the clinical encounter occurred (or started).	What [is/was] the date of the visit?	Visit Date
6	DAPERF	Drug Accountability Performed	An indication whether or not a planned drug accountability assessment was performed.	Was drug accountability performed?	Drug Accountability Performed



*Screenshot is a wireframe concept and not indicative of a final product. Certain features may be restricted to membership access. 42

Future Roadmap: Up-version & Change Management

The screenshot displays the CDISC Standards Browser interface. On the left is a navigation tree with categories like Data Collection, Data Tabulation, and Data Analysis. The main content area shows details for 'CDASHIG v2.0' and 'Drug Accountability'. A comparison view on the right shows 'Drug Accountability - v2.1'. Callouts highlight key features: 'Switch between different sponsor managed metadata versions' (pointing to the 'Implements' dropdown), 'User friendly metadata management features (e.g., edit, compare, etc.)' (pointing to 'Edit', 'Compare Originals', and 'Export' buttons), and 'Easily distinguish differences between metadata versions or changes made' (pointing to a table comparing two versions of the 'Study Site Identifier' field).

Switch between different sponsor managed metadata versions

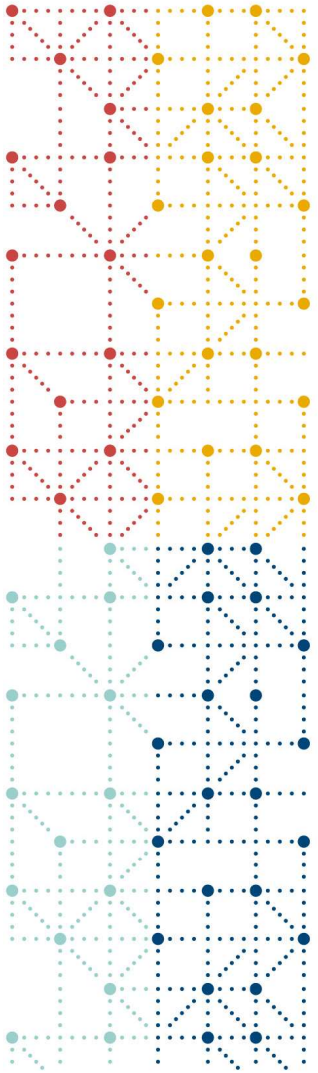
User friendly metadata management features (e.g., edit, compare, etc.)

Easily distinguish differences between metadata versions or changes made

Ordinal	Name	Label	Definition
1	SUBJID	Study Site Identifier	A unique identifier for a site within a study.
2	SUBJID	Study Site Identifier	A unique identifier for a site within a study.
3	SUBJID	Study Site Identifier	A unique identifier for a site within a study.
4	VISIT	Visit Name	The name of the visit planned and/or conducted.
5	VISDAT	Visit Date	Date the visit was planned and/or conducted.
6	DAPERF	Drug Accountability Performed	An indicator of whether drug accountability was performed.
7	DACAT	Category of Drug Accountability Assessment	A grouping defined for drug accountability assessments.



*Screenshot is a wireframe concept and not indicative of a final product. Certain features may be restricted to membership access. 43



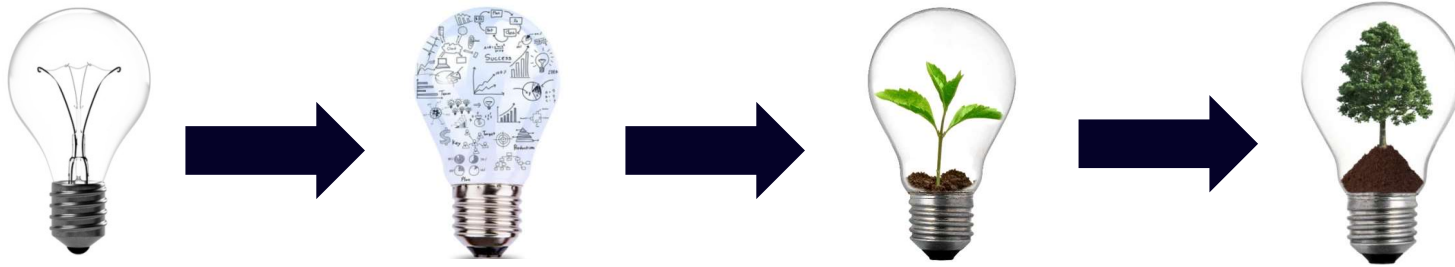
Summary

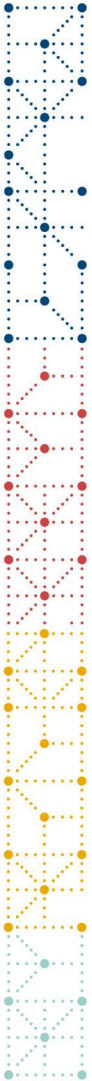
Summary

CDISC is moving towards a more technology-enabled standards future. Our partnership between Microsoft is the beginning of the CDISC Library next generation capabilities. CDISC's ability to achieve operational, transitional, and maintenance continuum will allow us to innovate and remain nimble in our technological journey.

The next generation CDISC Library allows CDISC to provide new authentication and security measures, features and functionality, and content types. As the next generation CDISC Library release gets closer, our CDISC Library team will be hard at work on the next phase of development activities. Stay tuned and join the **2021 TechniCon** for further details.

This is an exciting time for CDISC! We hope it's just as exciting for the CDISC Library community.

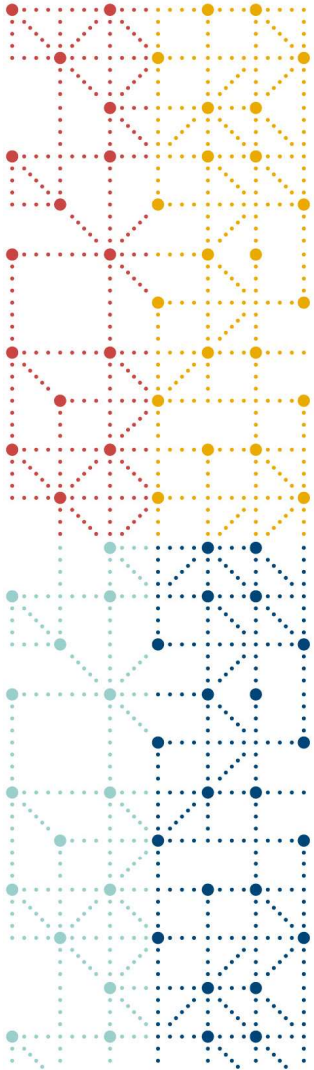




Please look for upcoming CDISC Library communications!



<https://www.cdisc.org/cdisc-library/getting-started>



Thank You!

Sam Hume - VP, Data Science, CDISC
Mike Hamidi - Head, Data Science, CDISC
Anthony Chow - Director, Data Science, CDISC

