DFdiscover API

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What is an API?
What is an API?

- **Application Programming Interface**
- Like a toy box
- Expects certain format
- Specific slots for different formats
- Rejects incompatible input
What is DFdiscover API

- Interface for other software to interact with DFdiscover
- REST like API offering DFdiscover web-services
- Request to access records from study 253

GET https://dfweb.dfdiscover.com:4433/dfws/v5/studies/253/records
Architecture

Web Clients

HTTPS

DF Client Tools

HTTPS

DFws API

HTTPS

DFdiscover Server
Security

- Not an open-to-all API

- Requires API user account (developer) to access resources

- Existing DFdiscover authentication flow still required as a first step of accessing API resources

- Data is encrypted while in transit between client and server
Advantages

- **Without API**
  - Require uninterrupted networked connection
  - Data in PIPE delimited format
  - Understanding of backend business-logic

- **Web API**
  - Session manager – works with intermittent networks
  - Data in JSON format
  - Support saving records based on field names
DFdiscover control API support

- DFdiscover servers decides if it supports API
- API as a feature within DFdiscover license
- Feature seats can be controlled by DFdiscover server
- API communicates with multiple DFdiscover servers
Multiple Servers

explore.dfdiscover.com

hosted.datafax.com

dfdiscover.sharepoint.com
DFdiscover API Resources

- Data Records
- Metadata
- Study Setup
- User and Role Permissions
DFdiscover API Resources

- Data Records
  - Give me record for subject 1003
  - Add/Update record for subject 1003

- Metadata
  - Give me Queries on plate 1
  - Add Query on plate 1 field Age

- User and Role Permissions
  - Give me study 253 users
  - Grant user Simon the Data Manager role for study 253
DFdiscover API Documentation

- Quick Guide
- Admin Guide
- User (Developer) Guide
DFdiscover API Documentation

- Quick Guide
  - 1-2-3 Start and working example code
- Admin Guide
  - Details to configure and monitor API activity
- User (Developer) Guide
  - Details of all API resources and more
API Use Cases
API Uses

- DFcollect: Mobile app data collection
- DFweb: Web app for data collection
- Custom dashboard – Multi-study Status reports

- Lab Results to DFdiscover study
- Sites user database integrates with DFdiscover user database
- Sponsor’s Safety database pulls clinical data from DFdiscover
DFcollect & DFweb

Web Clients

DFweb
DFcollect

HTTPS

DFws API
DFcollect

- Mobile app that supports online and offline data entry
- Powered by DFdiscover API
DFweb

- Web app that supports online data entry
- Powered by DFdiscover API
Reports

Status Report from Multiple Studies/Servers

- Design your own custom reports view
  - from multiple servers
  - from different studies
- API makes it possible

#DFUG2018
Connector (Bridge)

Bridge
Mobile App
Web App
Server Script
Integration Tool

HTTPS
DFws API

Example 4
A randomization application

Data Integration using DFexport & DFimport
- Batch style uploads
- Pipe delimited format
- Server side operation

Data Integration using Web API
- Real-time interaction
- JSON format
- Precise server messages
Integrate CTMS user accounts with multiple DFdiscover servers

- User profile management system
- CRO/sponsor managing multiple studies
- API to sync user accounts
Central Lab Database

Data from Central Lab can be integrated

- Central lab data handled outside the clinical database
- Merged with clinical data in SAS or other analysis software
- No edit checks against study database
Central Lab Database

Data from central to DFdiscover via API

- Custom script/tool to load lab data as it arrives electronically
- Push lab data to DFdiscover via API
- Lab results in DFdiscover immediately
Pharmacovigilance/Safety

- Transfer data from clinical database to sponsor's safety database – new and updated SAE reports

- Instead of
  - Constant email notification of SAE updates
ePRO sends results to DFdiscover via the API

- Subjects fills forms directly collected by ePRO
- ePRO use DFdiscover API to create/update data records
- Real-time Results
We have API ready for you.

Are you ready for it?
Questions?

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