

Introducing DFdiscover 2020

Webinar | June 30, 2020



DFdiscover 2020

1. The DFdiscover Journey
2. DFdiscover 2020
3. Tips and Tricks
4. Integration with DFengage
5. Upgrade with help from the Software Support Team
6. What's Next
7. Q&A

The DFdiscover Journey

Previous Release Feature Highlights



- Look & Feel Updates
- eCRFs
- Site Definitions
- Reporting
- Metadata Editor Panel
- Export to Excel
- API

200: Pre-existing Conditions

Page # 20001

Subject Identifier 001001

No pre-existing conditions No pre-existing conditions reported or observed

Description

Date of Diagnosis/Surgery / /

Is condition ongoing? Yes No

Severity Grade Not Gradable

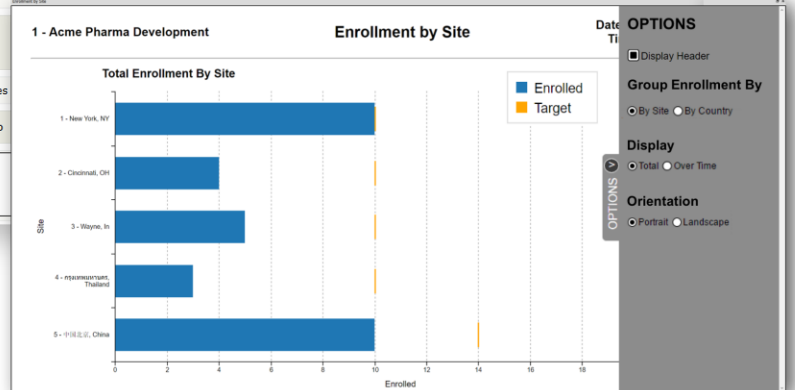
Is the participant under care? N/A Yes

Has the participant been referred? Yes No

Comments

Visual Interface

eCRF in DFExplore



Graphic Visualization

Previous Release Feature Highlights



- DFcollect
- DFweb
- Security Updates
- Enhanced Dashboard View
- Trend Reports
- User-defined Properties
- Metadata Exports
- Customizable Login Screen

The screenshot displays the dfdiscover 2019 dashboard interface. It features a sidebar with navigation options like 'Data entry and review', 'Review queries', and 'Subject scheduling'. The main content area is divided into three panels:

- Enrollment by Site:** A line chart showing enrollment trends for Cincinnati, OH from 2016-07 to 2018-04. The chart includes data for Target Enrollment, Constant Rate Enrollment Target, Total Enrolled, Trend Line, and Enrolled per Month.
- Subject Scheduling Information:** A table with columns for Subject ID, Name, Date, Entry Visit, Last Follow-up, and Next Follow-up. It lists three subjects (1000, 1001, 1002) with their respective visit dates and follow-up schedules.
- Query Status Trend:** A horizontal bar chart showing the number of Resolved and Outstanding Queries across various sites. A 'Fit to page' button is visible on the right side of the chart.

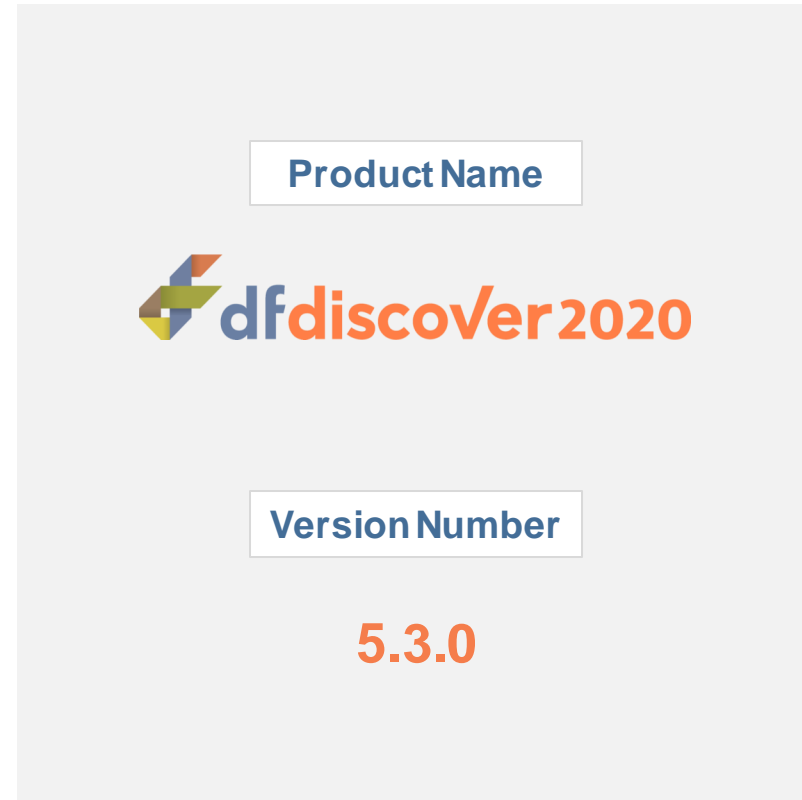
Enhanced Dashboard View

Trend Reports

DFdiscover 2020

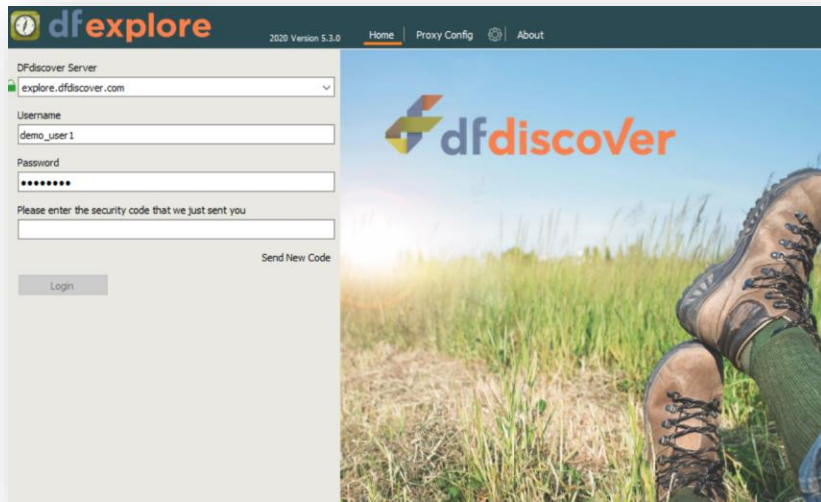
Version Numbering

- DFdiscover 2020 5.3.0 is a minor release in the DFdiscover 5.X family that started with DFdiscover 2018
- Complete release, updates everything on server-side and client-side
- 5.1.4 and 5.2.1 clients do work with 5.3.0 server-side
- Not required to go to 5.3.0 clients immediately **but** new features are available only to 5.3.0 clients

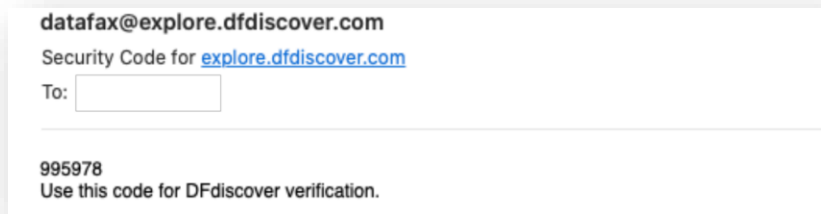


Two-factor Authentication (2FA)

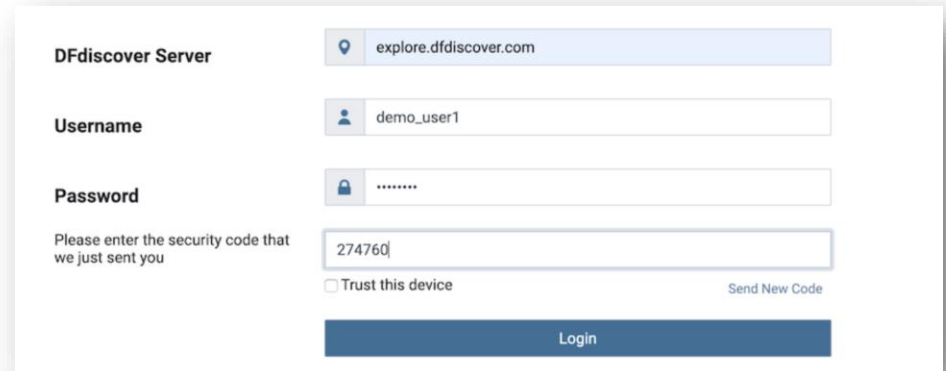
Desktop applications



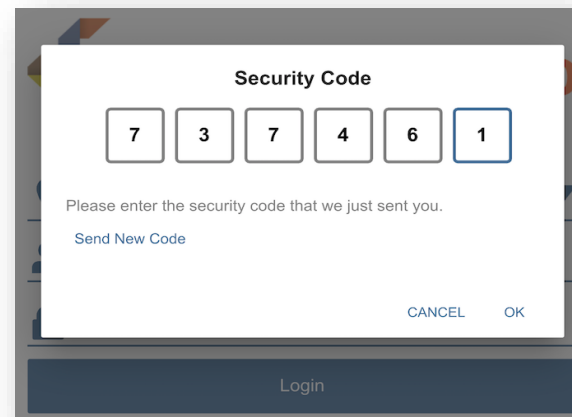
Email



DFweb



DFcollect



Two-factor Authentication

6 digit security code

10 minute expiry

30 day validity

10 devices

Two-factor Authentication



- User must have an email address known to DFdiscover
- Send user an email with 6-digit security code, valid for 10 minutes
- User can request another code
- Once accepted, that user on that device (desktop, browser, mobile) at that address does not require another 2FA code for 30 days
- Up to 10 unique devices in that 30 day period
- Do not enable 2FA for:
 - Users that are also using pre-DFdiscover 2020 tools
 - Users without a known email address
 - Accounts used to run cron jobs

Two-factor Authentication

DFadmin User definition

Email
 Two-factor authentication required

DFadmin Users list












Username	Password Expiry	2FA Status	Full Name	Affiliation
 demo_user1	2020-10-24	Required	Demo User	DF/Net Software ULC
 site_invest	2020-10-24	Required	Site Investigator	ABC Company

DFdiscover User profile

Full Name
Email
Two-factor authentication required

Subject Alias

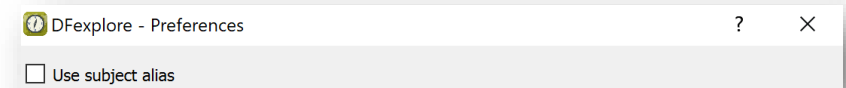
- **Optional** "label" for the subject ID that we know and love
- Unique within the database, just like the subject ID

 Site 99 - Hospital #99	
	99-001
	Site99-Subject002
	003-99
	99004
	Eric_Bosch
	David_Du
	王建生
	A-99-009
	B-44-010
	9-9-005

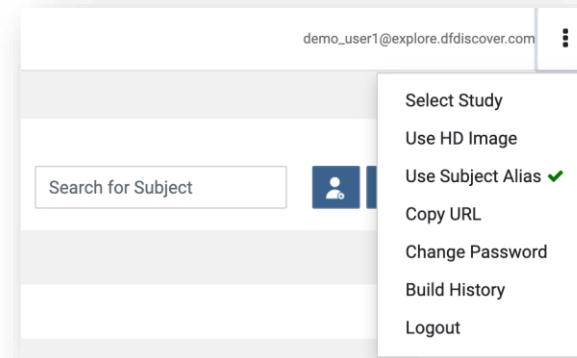
Subject Alias

- Supported in DFExplore, DFweb, DFcollect:
 - Each includes a preference
 - Supported in edit checks: dfid2alias(), dfalias2id()
- Supported in DFdiscover reports, DFexport, DFsqlload and DFSas
- Not supported in Legacy reports

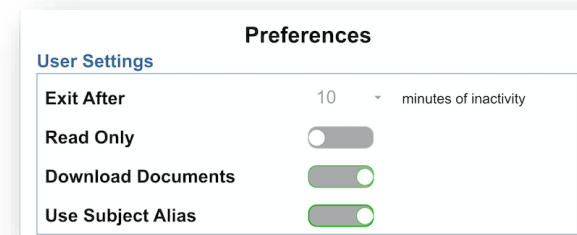
DFExplore



DFweb



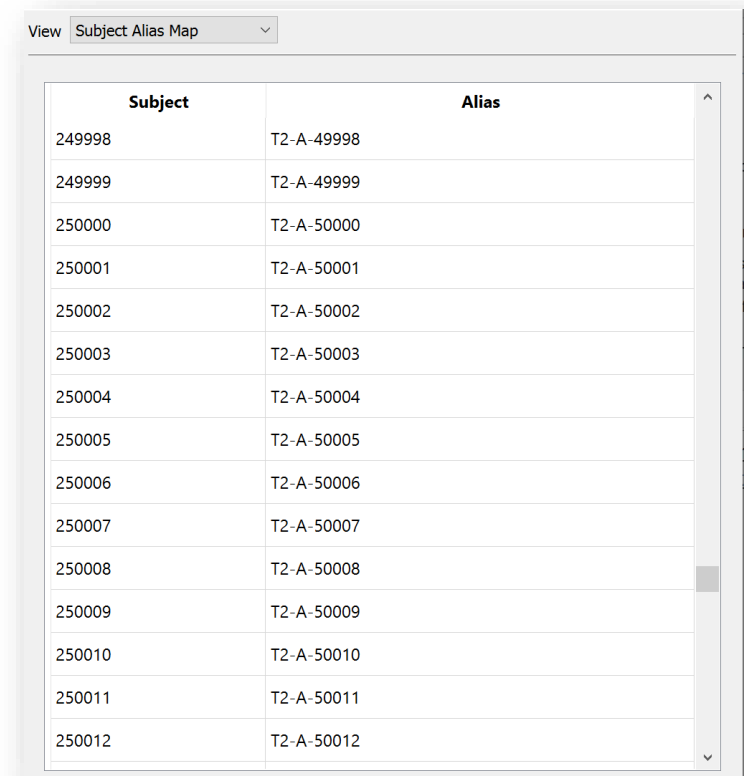
DFcollect



Subject Alias

- Define / Import aliases in DFsetup
- Up to 30 UNICODE characters in length
- Most characters are allowed, but not all (spaces not allowed, for example)

DFsetup



The screenshot shows a window titled "Subject Alias Map" with a "View" dropdown menu. The window contains a table with two columns: "Subject" and "Alias". The table lists 13 rows of data, each with a subject ID and its corresponding alias.

Subject	Alias
249998	T2-A-49998
249999	T2-A-49999
250000	T2-A-50000
250001	T2-A-50001
250002	T2-A-50002
250003	T2-A-50003
250004	T2-A-50004
250005	T2-A-50005
250006	T2-A-50006
250007	T2-A-50007
250008	T2-A-50008
250009	T2-A-50009
250010	T2-A-50010
250011	T2-A-50011
250012	T2-A-50012

Subject Alias

DFExplore: Data View

Site 250 - Downtown Rehab

T2-A-50001

0 : Screening

1 : DM: Demographics

10 : IE: Inclusion Exclusion

30 : VS: Vital Signs

102 : SC: Subject Characte...

1 : Enrollment

10 : Month 1

20 : Month 2

30 : Month 3

40 : Month 4

50 : Month 5

60 : Month 6

70 : Month 7

80 : Month 8

90 : Month 9

100 : Month 10

dfdiscover

Subject ID: T2-A-50001

Visit Date (DD/MM/YYYY): 01/SEP/2016

000

Demo A (DM) 001

Demographics

1. Birth Date (DD/MM/YYYY): 27/JUN/1964

2. Sex: Female Male

3. Ethnicity: Hispanic or Latino, Not Hispanic or Latino, Not reported, Unknown

4. Race: American Indian or Alaska Native, Asian, Black or African American, Native Hawaiian or Other Pacific Islander, White

Comments

DFExplore: List View

Plates & Metadata	Modules	Custom	VISITNUM	SUBJID	VISDAT	BRTHDAT	SEX	ETHNIC
[T2-A-50001,0,1] - 1 of 7			1	T2-A-50001	01/SEP/2016	27/JUN/1964	F	NOT HISPANIC OR LATINO
001 - DM: Demographics			2	T2-A-50002	10/DEC/2018		M	blank
010 - IE: Inclusion Exclusion			3	350001	01/SEP/2016	27/MAR/1958	M	NOT HISPANIC OR LATINO
020 - ENR: Enrollment			4	350002	12/DEC/2016	31/JUL/1982	F	HISPANIC OR LATINO
030 - VS: Vital Signs			5	350003	12/DEC/2016	15/APR/1976	F	NOT REPORTED
040 - PE: Physical Exam			6	350004	16/FEB/2018	11/JAN/1977	F	NOT REPORTED
050 - LB: Hematology Results			7	350005	21/NOV/2018	11/111/977	M	NOT HISPANIC OR LATINO
060 - CCPR: Cardiac PCI Report								
101 - SE: Subject Encounter								

Subject Alias

Field Selection

+ Data Fields (plate# : field# : name)	- Display Fields
+ 1:9:BRTHDAT - Birth Date	- 1:7:SUBJID - Subject
+ 1:10:SEX - Sex	- 1:DFSUBJECT_ALIAS
+ 1:11:ETHNIC - Ethnicity	- 1:9:BRTHDAT - Birth Date
+ 1:12:RACE1 - 4. American Indian or Alaska Native	- 20:9:ENRDAT - 1. Date subject signed consent form
+ 1:13:RACE2 - 4. Asian	
+ 1:14:RACE3 - 4. Black or African American	
+ 1:15:RACE4 - 4. Hawaiian	
+ 1:16:RACE5 - 4. White	
+ 1:17:DMDESC - Comments	
+ 1:18:DESCREEN - Screen Status	
Metadata Fields	
Subject Properties	
+ DFSUBJECT_ID	
+ DFSUBJECT_ALIAS	

Tabular Listings

- Combines Views and Tasks
- Available online in DFexplore
- Run / Share / Save to Excel from Reports View or via DFreports

Tabular Listings

- Define Views & Select Fields
- View definitions can now include inner and outer joins

Inner Join

DFExplore - Define Views

View Name: Birth and Enrollment Dates

Description:

Custom: Any records from the selected plates

Field List: Records that match subject and visit from the selected plates

Field Name: name alias number : name/alias plate number

Coded Field: code label

Date Field: default calendar julian apply imputation rule

User Role:

Username: demo_user1

Outer Join

DFExplore - Define Views

View Name: Birth and Enrollment Dates

Description:

Custom: Any records from the selected plates

Field List: 1:7,1:DFSUBJECT_ALIAS,1:9,20:9

Field Name: name alias number : name/alias plate number

Coded Field: code label

Date Field: default calendar julian apply imputation rule

User Role:

Username: demo_user1

Field Selection

DFExplore - Field Selection

001 - DM: Demographics

010 - IE: Inclusion Exclusion

020 - ENR: Enrollment

030 - VS: Vital Signs

040 - PE: Physical Exam

050 - LB: Hematology Results

060 - CCPR: Cardiac PCI Report

101 - SE: Subject Encounter

102 - SC: Subject Characteristics

110 - SADH: Study Drug Adherence

1:5:DFPLATE - Plate Number

1:6:VISITNUM - Visit Number

1:7:SUBJID - Subject

1:8:VISDAT - Visit Date

1:9:BRTHDAT - Birth Date

Metadata Fields

DFIMAGE_FORMAT

DFIMAGE_SENDER

DFIMAGE_PAGES

Subject Properties

DFSUBJECT_ID

DFSUBJECT_ALIAS

Site Properties

DFSITE_ID

DFSITE_NAME

Display Fields

1:7:SUBJID - Subject

1:DFSUBJECT_ALIAS

1:9:BRTHDAT - Birth Date

20:9:ENRDAT - 1. Date subject signed consent form

Done Cancel

Tabular Listings

List View

DFexplore [demo_user1@explore.dfdiscovers.com] Demo A Development - View: Birth and Enrollment Dates

File Edit View Select Show Page Field Window Help

Plates & Metadata Modules Custom

[150001,0,1] - 1 of 25

Birth and Enrollment Dates

PCI Report

	SUBJID	DFSUBJECT_ALIAS	BRTHDAT	ENRDAT
1	150001	T1-B-1		
2	150002	T1-B-2		
3	150003	T1-B-3		
4	150004	T1-B-4		
5	250001	T2-A-1	12/DEC/1980	
6		T2-A-1		09/SEP/2016
7	250002	T2-A-2	20/DEC/1993	
8	250003	T2-A-3	11/DEC/1980	
9	350001		27/MAR/1958	
10				07/SEP/2016
11	350002		31/JUL/1982	
12	350003		15/APR/1976	
13				09/JAN/2017
14	350004		21/JUN/1962	
15	450001			
16	550001		01/MAY/1987	
17				18/MAY/2018
18	650000		01/SEP/1995	
19	700001		01/AUG/1985	
20	750004		28/AUG/1969	
21	999001			
22	999002		12/MAR/1990	
23	999003			
24	999004		02/SEP/2018	
25	999006			

Reports View

DFexplore [demo_user1@explore.dfdiscovers.com] Demo A Development - Reports

File Edit View Select Window Help

DFdiscover Reports

- Site Tracking
- Subject Tracking
- Subject Scheduling
- Query Reporting
- Study Setup
- Database Status
- Query and Data Trending
- Tabular Listing
 - Plate Listing
 - Module Listing
 - Keys Info Listing
 - Birth and Enrollment Dates
 - PCI Report
- Task Listing
 - Task Summary
 - Edit Checks (BP Review)
 - Edit Checks (Initials)
 - Edit Checks (Screening)
 - Image DDE
 - Image Review
 - Review and code adverse events
 - Review new queries created by data e...
 - Review of eCRF against EMR
 - Today
 - Review and code medications
- Legacy Reports

Name Birth and Enrollment Dates

Options Clear Options

Specify

Run Explain Close Report

Birth and Enrollment Dates

252 - Demo A Development **Birth and Enrollment Dates** Date: 2020-06-29 Time: 14:07:13

Listing

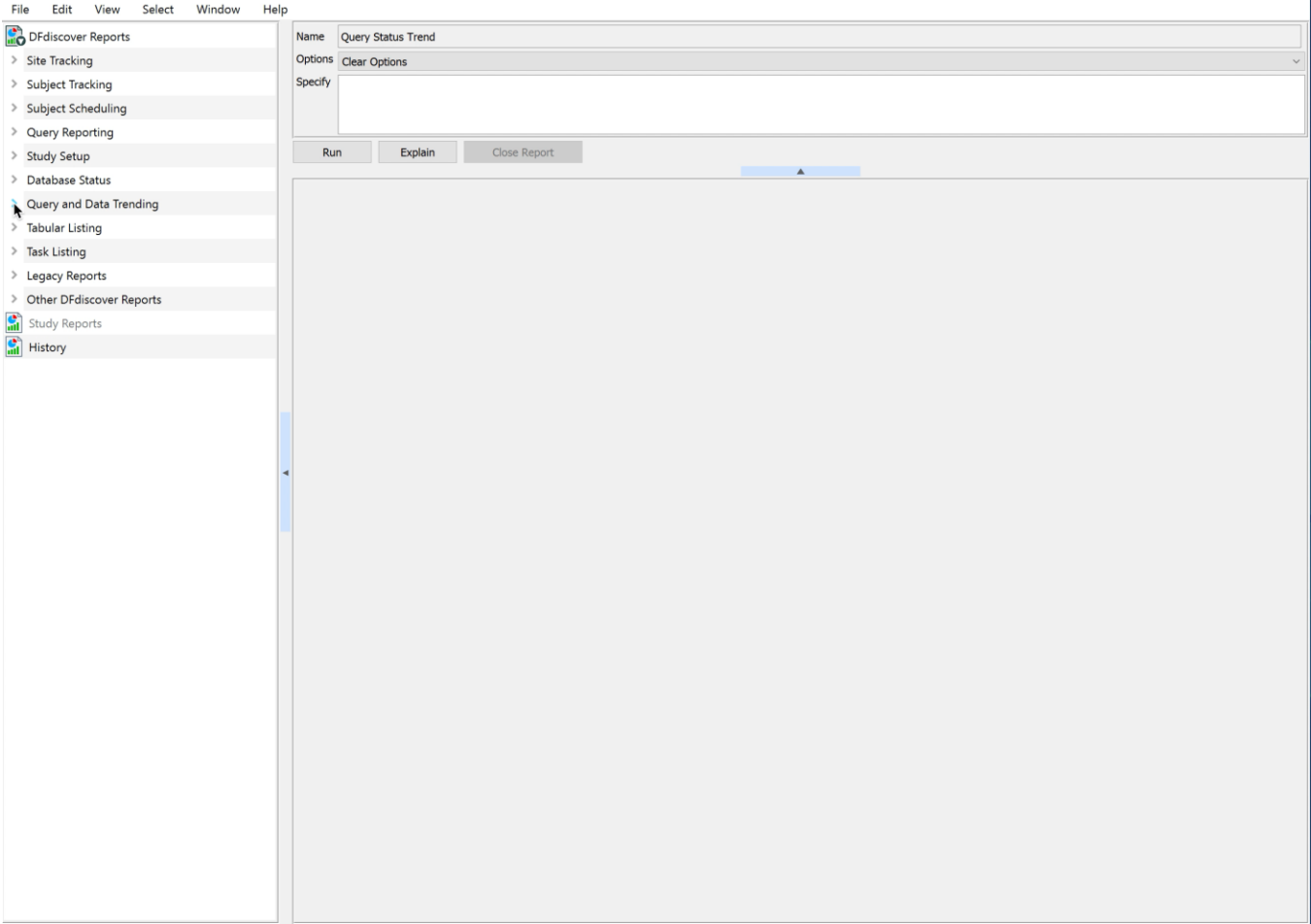
Search by SUBJID

SUBJID	DFSUBJECT_ALIAS	BRTHDAT	ENRDAT
150001	T1-B-1		
150002	T1-B-2		
150003	T1-B-3		
150004	T1-B-4		
250001	T2-A-1	1980-12-12	
	T2-A-1		2016-09-09
250002	T2-A-2	1993-12-20	
250003	T2-A-3	1980-12-11	
350001		1958-03-27	
			2016-09-07

Options

- Views appear under Tabular Listing category
- Tasks appear under Task Listing category

Trend Report Animation



DFweb & DFcollect

- Support for subject aliases
- Two-factor authentication support

- DFweb: completely updated to Angular 8, giving better load and interaction speeds, and paving the way for more amazing updates
- DFcollect: faster due to more use of compression and intelligent caching

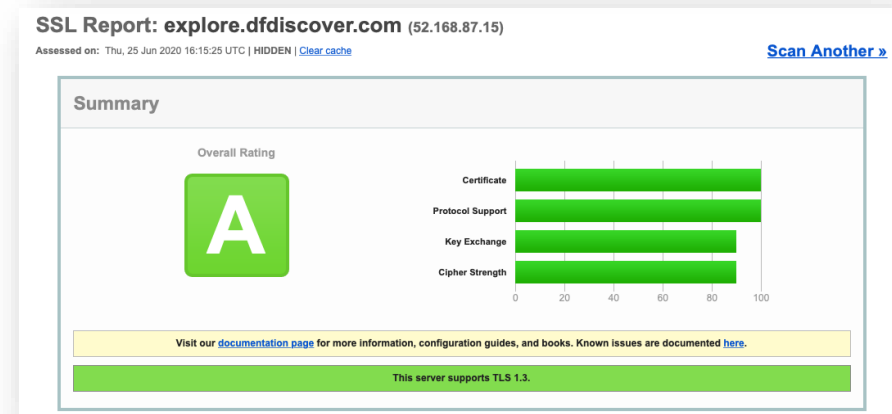
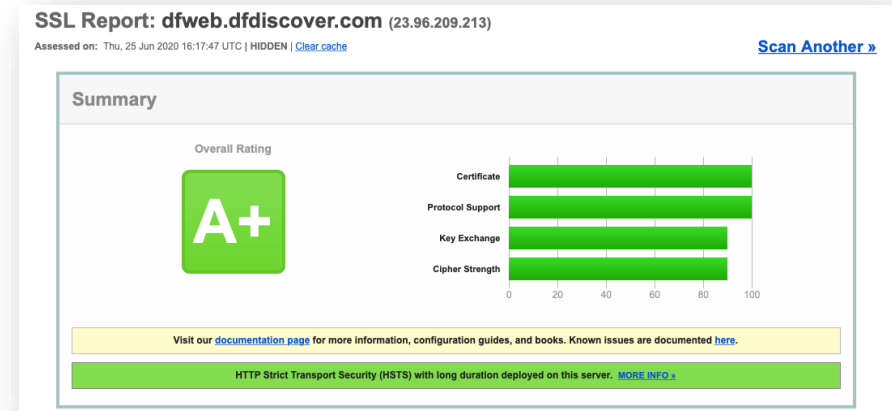
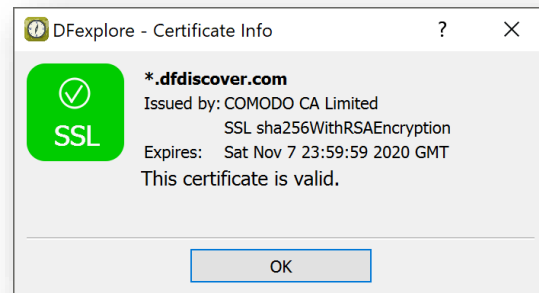
More Updates

- Field background colors can now include transparency
- DFNEED_RESET is available in dfneed() edit checks – DFweb & DFcollect

Security Updates

- Failed password attempts during eSigning
- TLS 1.2 / 1.3
- Perfect Forward Secrecy - PFS
- HTTP Strict Transport Security - HSTS

- Request certificate signing by a well-known commercial CA



Tips and Tricks

Get the most out of DFdiscover



- ✓ Let Study Admins define user accounts
- ✓ Use inner-join or outer-join in View definition
- ✓ Include user-defined properties in data exports
- ✓ Customize your DFexplore – Dashboard

Integration with DFengage

What is DFengage?

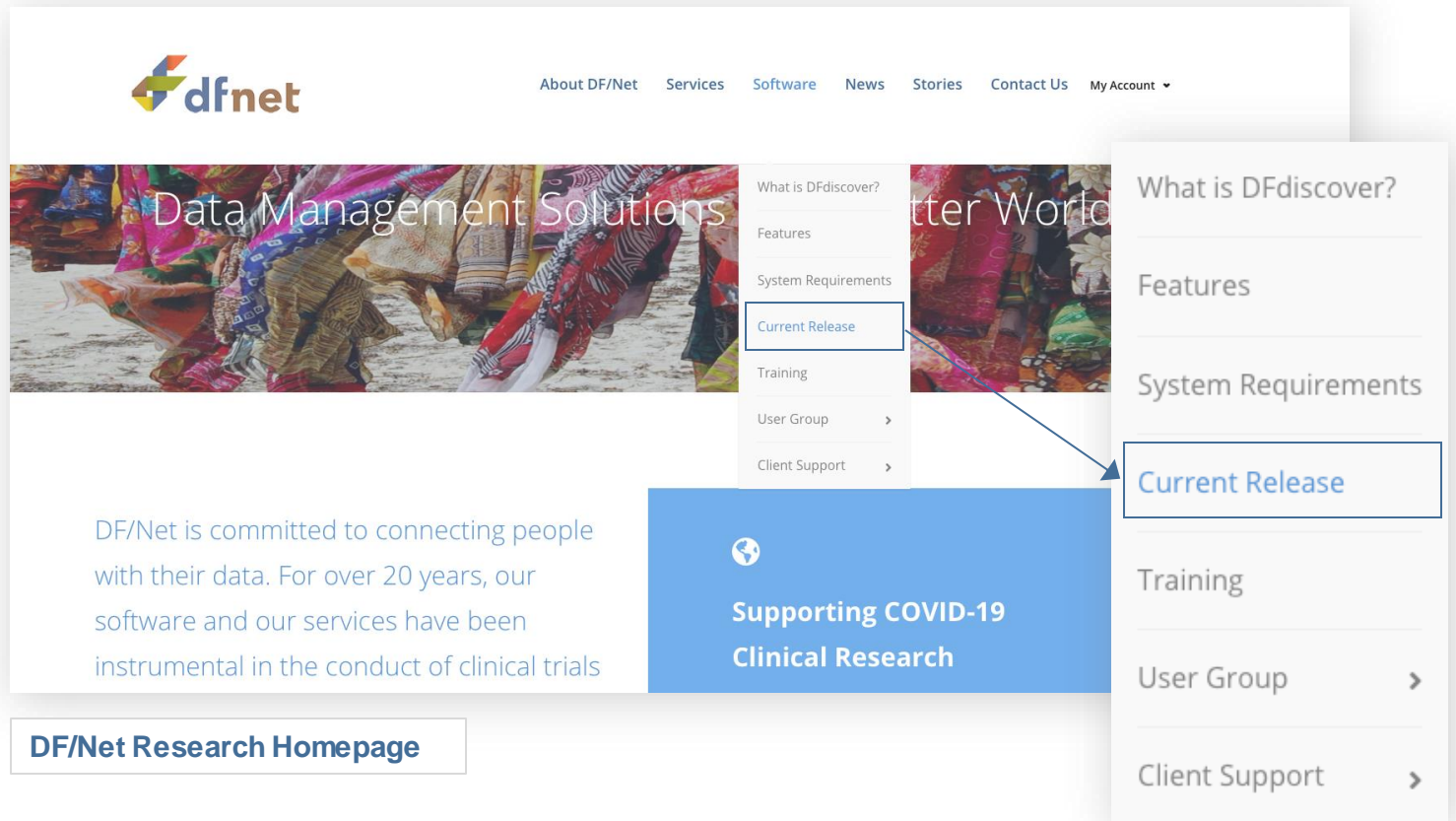
- ePRO app for mobile (iOS and Android)
- Collaboration between CurveTomorrow and DF/Net Research
- Built on WeGuide platform, using DFdiscover API (DFWS)
- Questionnaire fields/screens, scheduling and permissions defined in DFsetup/DFadmin
- Participant interaction, notifications handled by WeGuide
- Data read from and written to DFdiscover study database **directly**
- ePRO data available in real-time if user is online



Upgrade with help from the Support Team

Upgrade Support

- DFdiscover 2020 will be available for download from www.dfnetresearch.com by July 15
- An email announcement will be sent on the release date



Upgrade Support



- From DFdiscover 2018 and 2019, this is a **minor release** and upgrade is simple
- No requirement for all client tools to be DFdiscover 2020
- Available for Windows 10 and macOS Mojave/Catalina



- Software-related support email has been migrated from support@datafax.com to help@dfnetresearch.com

What's Next

WHAT'S NEXT



What is Flutter?

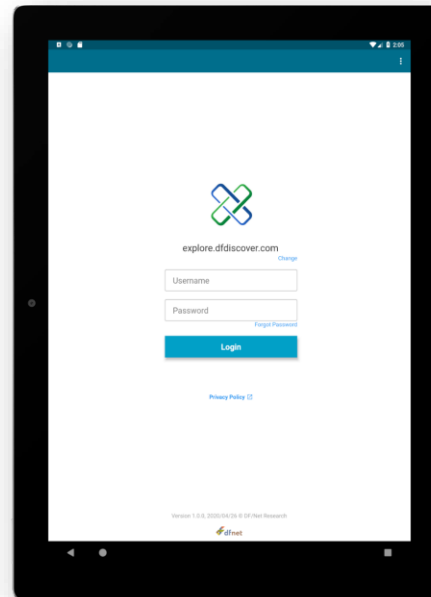
Made by 

Flutter is Google's UI toolkit for building beautiful, natively compiled applications for **mobile**, **web**, and **desktop** from a single codebase.

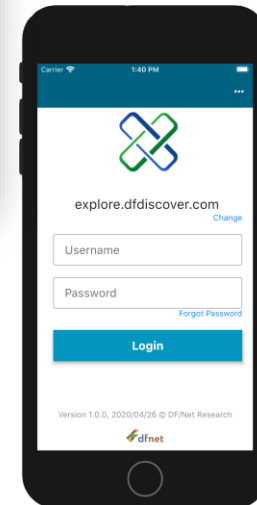
Why?

- Same view for mobile, web and desktop
- New features automatically go to all three platforms
- Increase user efficiency, less training
- Faster, more robust
- Simplify development and support

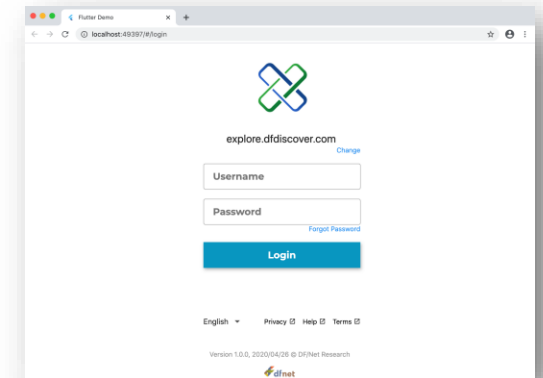
Pixel C



iPhone SE 2nd gen



Chrome



eSource Collection



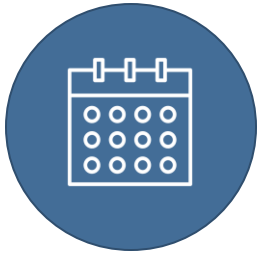
- Best features of DFsend, DFattach and Attach Document
- Include image capture, identification (QR code?), redaction
- Available in browser and mobile – no install required
- Client built in Flutter, uses API

Study Setup



- Optionally start from CDASH
- New reported data types: ISO date, floating point, geolocation, conditional value
- Enhancements for eCRFs:
 - Row, column, grid of fields
 - Static text / media / line
 - Calculated value
 - Translations, multi-language support
- Multi-user, simultaneous development

Scheduling



- Additional requirements of ePRO
 - Event/visits repeat within one day
 - Time-of-day scheduling
 - Events that expire
 - Notify the subject
 - Adhoc reports
- Evaluate conditions in the API or on the server

Questions?

Thank you for deploying

