Revolutionary DataFax
The Path to DFdiscover-y
Saloni Parikh, Software Developer, DF/Net Research Inc.
Software development is an iterative process.
Take Amazon, for example:

AMAZON IN 1994

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SPOTLIGHT! -- AUGUST 16TH
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day so please come often.

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a look at the books we recommend in over 20 categories... Check out our customer reviews and
the award winners from the Hugo and Nebula to the Pulitzer and Nobel... and bestsellers are
30% off the publishers list.

AMAZON TODAY
Outline

• WHY? HOW? WHAT?

• Overview of next generation tools and core features

• Demos

• Timelines

• Q&A
Let’s start with asking “WHY?”
Forward Thinking

Moving forward with technology and moving forward with our users
Save trees, reduce paper

Customers are requesting

- Offline data entry modes alternative to paper
- Mobile data collection
- Web-based data collection and data management solutions
• **Zero footprint** – some users have restrictions on installing and downloading applications on their machine.

• **Greater flexibility** – customers want to invest less time and resources managing infrastructure.
HOW are we going to accomplish this?
Existing Architecture

- Electronic Image Capture (EIC) (paper)
- Electronic Data Capture (EDC)
- Media Import
- iDataFax Client
- DataFax Database

Flow:
- Electronic Image Capture (EIC) (paper) to iDataFax Client
- DataFax Database to iDataFax Client
- iDataFax Client to Media Import
- Electronic Image Capture (EIC) (paper) to Electronic Data Capture (EDC)
- Media Import to Electronic Data Capture (EDC)
New Architecture

Electronic Image Capture (EIC) (paper)

Electronic Data Capture (EDC)

Media Import

iDataFax Client

Web app

Mobile app

API

DataFax Database
Start from the middle

A  Application
P  Programming
I  Interface

- A way for DataFax to talk to another application or service
- Allows internal and external developers to build out applications that further the use of the company’s core product
WHAT are we building?
API Core Features

Secure

• Authorization/authentication scheme
• Communication over secure protocol (HTTPS)

Intuitive

• JSON (JavaScript Object Notation) request/response data
• Versioning and API reference docs
**DFweb**

- Online, browser-based data capture
- Zero footprint
- Responsive design

![DF/Net Web EDC Enrollment Page](image)

<table>
<thead>
<tr>
<th>Participant ID</th>
<th>Visit Type</th>
<th>Visit Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>997000001</td>
<td>Enrollment Visit</td>
<td>0</td>
</tr>
</tbody>
</table>

Field with * requires input.

**Visit Code**

- Field format: mm.nn

**Participant ID**

- Field format: mmmmmmmm

**Visit date**

- Field format: DD/MM/YY
DFcollect

- Data collection app for Android OS
- Optimized for tablets
- Offline + online data capture
DFweb Demo
Demo Overview

- Authorize using system credentials
- Search for participant by ID
- Add participant
- Participant visit map
- Navigate to other visits/records from data entry screen
- Real-time validation checks
  - Legal ranges
  - Skip logic
  - Required fields
  - Format for number, text, date and time fields
- Add/view reasons, queries, missing values
DFcollect Demo
POWER App Case Study

- POWER (Prevention Options for Women Evaluation Research)

- Develop cost-effective and scalable methods for implementation of microbicides and other forms of pre-exposure prophylaxis (PrEP) for women.

- 3,000+ participants

- Sites: (1) Cape Town, (2) Johannesburg, (3) Kisumu

- Study duration: 3 years

- Data collection solution: Android app that supports offline and online data entry and bidirectional synchronization of data when online
## Demo Overview

<table>
<thead>
<tr>
<th>Online Features</th>
<th>Offline Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Initial authentication to study using DataFax credentials on the device</td>
<td>• Device remembers previously logged in users</td>
</tr>
<tr>
<td>• Synchronize data to send new records and retrieve records</td>
<td>• View participant visit map</td>
</tr>
<tr>
<td>• Pull latest setup information and study configuration</td>
<td>• See visit status, record status and sync status</td>
</tr>
<tr>
<td></td>
<td>• Retrieve blank record for data entry</td>
</tr>
<tr>
<td></td>
<td>• View previously completed records</td>
</tr>
<tr>
<td></td>
<td>• Real-time validation checks</td>
</tr>
</tbody>
</table>
Welcome to Power Study

Username
saloni

Password

LOGIN
Welcome to Power Study

Username
saloni

Password

Login
Timeline

**DFcollect**
- App release for POWER study late 2016

**DFweb**
- Early 2017
Thank you!

Q&A