
DFlite

Martin Renters
Clinical DataFax Systems Inc.

Objectives

- Small viewer tool
- Work on the road/at home
- Platform independent
- Low bandwidth capability
- Oracle backend capability
- Security/Encryption?
- Standalone?

Features

- CRF review with images, database data and QC notes
- CRF printing
- Non-blocking user interface
- Low bandwidth support
- Runs on Unix and Windows 9x/NT

CRF Review

- Shows data on CRF, fax image or both in a split screen view similar to the validation tool
- View can be switched from data to image by pressing the right mouse button
- Split screen mode can have data or image in either pane and can be split horizontally or vertically

User Interface

- Combination of existing and standard Windows interface
- User interface tries not to block (lock up) while waiting for data from database server
- Help actually does something

Low Bandwidth Support

- Flips pages in approx 4 seconds over a 28.8Kbps modem link
- Combination of compression, caching and asynchronous event handling
- Enabled with a checkbox when program starts

Backend Support

- DFlite communicates with a small support module on the server using a simple database independent protocol
- The support module talks directly to the database server which can be either the RPC server or an SQL server like Oracle

Security

- Remote access requires some sort of privacy protection to prevent eavesdropping
- Can be built into application (like web browser) or into network protocols (like Virtual Private networks)

Security (Application Level)

- **Advantages:**

Works immediately because no extra client software needs to be installed and configured

- **Disadvantages:**

Can be difficult to do “right” (i.e. cryptographically sound)

Need firewall support to allow outside sessions through

Security (Network Level)

- **Advantages:**

Protects all client data, not just those of the application

Piggy-backs on existing remote access solutions (less IT problems)

- **Disadvantages**

Requires setup on client side

DFlite Security

- We need input as to which approach to take

Demonstration

Other Issues

- DataFax-level user permissions
- Online/offline
- Review/edit data