Scalable Architecture for a FDA cleared mobile image viewer using GPU servers
Summary

• The story of ResolutionMD
  – Humble beginnings
  – Web enablement
  – Supporting increasing numbers of users
Company Overview

- Headquarters: Calgary, AB
- Founded: 2004
- Privately held
- 15 issued and 91 pending patents

Global Partners

- Cisco
- AT&T
- Fujifilm
- Dell
- Siemens
- Medtronic
- GE
- Allscripts
- VRad
Breaking Down Barriers

**Controls**
- **Scroll Slices**: To scroll slices, use the scroll wheel or left-click and drag.
- **Pan**: To pan the image, press Shift + left-click and drag.
- **Zoom**: press CTRL+Shift + left-click and drag (press CMD+Shift + left-click and drag if you’re on a Mac).

**Gestures**
- **Scroll**: Using a single finger drag up and down to scroll through slices. Tap to go through them one by one.
- **Pan**: With two fingers down move in any direction to move the image.
- **Zoom**: Use two fingers or your finger and your thumb to zoom in and out of the image.
- **Window Level**: Double tap and drag to adjust the window/level.

Calgary Scientific

Breaking Down Barriers

Confidential 6
Resolution MD™

- MR Diagnosis on iPhone
- CT Diagnosis on iPad
- All Modalities Diagnosis on Laptop (Except MG)
- MR Diagnosis on iPad
- CT Diagnosis on iPhone
System Architecture

Client
ResolutionMD iOS

Server
Application

Server
DICOM Archive

Server
LDAP
Application Architecture

Client

ResolutionMD iOS

PureWeb iOS STK

Server

Application

PureWeb c++ STK

PureWeb Server
PureWeb connection

1. Browse
2. Connect
3. Start App
4. Start Up
5. Connects
6. Interaction

Client → Server → Application
Collaboration
Image Transmission

Broadband

WiFi

Cellular
Questions?