

J T O P E N

Mobility

Matt McMinn

SIEMENS

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Agenda

- HD-PLM Mobility Overview
- Live Demo
- Q&A

Mobility Within HD-PLM

- HD-PLM is about High Definition Decision Support

- HD-PLM is not just visual, but about accessing information whenever and wherever necessary to get the job done.

- Whether at your desk, on the shop floor, or at an airport, HD-PLM Mobility provides access to:
 - Workflow tasks, signoffs, and approvals.
 - Track issues or changes.
 - View part information (metadata, images, documents, JT).
 - Search and navigation to find what you are looking for.

Where we are

- Support for iOS (iPad) and Android devices.
- Basic JT viewing.
 - Zooming
 - Rotating
 - Panning
- JT can be downloaded directly from Teamcenter
 - On Android we have a general purpose JT viewer which can load JT off of an SD card.
 - On iPad we have a general purpose JT viewer which can load JT from an HTTP server.

Approach

- Design for:
 - 0.5 GHZ to 1 GHZ CPU
 - 256 MB to 512 MB RAM
 - 3.7” to 9.7” screen size
- Start by identifying the minimal amount of DirectModel needed for JT viewing.
- Port the graphics code to OpenGL ES.
- Port the event handling to each individual platform
 - Map touch events to DirectModel input events.
- Make any other changes as necessary for each platform.

Lessons Learned

- For the iPad we have a library that can be included in applications that need JT viewing capabilities.
- For Android we have a standalone viewer (an android Activity) that can be loaded when a JT is asked to be opened.
- For large JTs, memory management is key.
- Whenever possible JT's should be optimized for mobile devices.
- Simple mappings for input events only work for simple applications.
- Programming for “Android” or “iPhone” isn't enough.

What's Next

- Collaboration
- Part selection
- Viewing part information
- Markup
- Viewing and creation of snapshots
- Suggestions?
What's important to you?

