Mainstreaming Mobile the Sprint Titan Platform

Sprint Titan “Open for Business”
OSGi Technology in Mobile

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Titan… Mainstreaming Mobile

- Full OSGi R4 MEG support
- Application Server (in your pocket)
  - http Server
  - Java Servlet
- MIDP 2.1 support
- Loadable Rich Middleware Services
- Loadable eSWT, eRCP support for Enterprise
  - IBM partnership for Expeditor
- Fully Managed Environment
- Rich Internet Application Model for Mobile
Customizable Platform for Mobile Solutions

- **Sprint Titan Core**
- **Loadable Enterprise Middleware (API’s and Services)**

**Loadable Middleware Services and APIs**

- **Browser / Widget Application**
  - JMS
  - MQTT/Micro Broker

- **eRCP Application**
  - JDBC (JSR 169)
  - DB2e
  - eRCP

- **MIDP++ Application**
  - Enterprise Mgmt Agent
  - SyncML Framework

**OSGi Framework and Services**

- MIDP
- Web Container
- Sprint APIs and Services

**Java™ Virtual Machine (CDC 1.1/Foundation 1.1)**

**WM6, Brew, Linux (OS agnostic)**
Rich Internet Developer Demand
Rich Internet Applications for Mobile
What’s the difference?

• Connection Model (Online, Offline, Sync, QOS)
• Integration to Phone functions (Call, Position, Msg, PIM, etc)
• Task flow, task focus
• One hand operation
• Touch (emerging)
• UI design
• Code loading
• Security

Browser with Ajax is JUST NOT ENOUGH!
Titan Rich Internet MobileNet Applications

- Leverage the Server in your pocket
- Best of both worlds
  - Renderable UI combined with powerful Java server capabilities and access to Mobile device functionality all in one package
- Local Application Server
  - Offline Web applications
  - Full access to mobile phone capabilities
  - Easily extendable support multiple offline models
    - E.g. Gears, Air
- Create Mobile Mash-ups as OSGi Services
Rich Mobilenet Architecture

Titan Platform

Network

Flash

JavaScript / HTML

Other Rendered UI

Java API’s

http Service / Servlet

Specific Service

Shared Service

Sprint Services

Location API

Bluetooth API

Other

Network

Flash

JavaScript / HTML

Other Rendered UI

Java API’s
Middleware “Skins” Allow Deep Customization

- Third parties using OSGi services can customize the device by adding APIs that are available to both Java and Widget developers

- Examples
  - Yahoo, Facebook, Google,
  - Enterprise Horizontal e.g. IBM Expeditor, others
  - Vertical medical, financial, insurance
The Sprint Titan Ecosystem consists of:

1. SW Stack on Sprint Phones
2. Tools for Developers
3. Sprint Application Developer Program
4. Mobile Device Management Server
5. Partners, Partners, Partners… IBM, Sun, Prosyst, MobiNoir, Eclipse … We need YOU!
Sprint Titan Powered by OSGi technology vs MIDP 3
Titan vs MIDP 3 Key Differences

• Perspective… MIDP3
  • Treats mobile as poor stepchild
  • Mobile and the rest of Java have different models
  • Not SOA, Not open for Middleware, constrained security
  • No WEB model, Java silo
  • Not dynamically manageable

• Perspective… Titan
  • Mobile is an equal partner on the network
  • Mobile and the rest of java share same model via OSGi, Servlet etc
  • Full OSGi SOA, framework, and Middleware support
  • Support both Java and WEB model no Silo
  • Powerful, Flexible security model
  • Full Management with OMA or pluggable agent
What can Titan do for You?

In the past, mobile applications were limited…
With Titan the only limit is your imagination

- Offline / intermittently connected
- Secure access to corporate data sources
- Update devices with new capabilities on the fly
- Buy mobile middleware from your server software supplier
- Focus your developer strength with components
  - Components form a complete app: UI, bus logic, database, comms
  - Components can be reused by several applications
- Create mobile Mashups for easy access to WEB 2.0 services
- Use WEB/Widgets for compelling mobile applications
Sprint Titan Platform Availability

- WM6 devices 2nd half 08
- Mass Market devices widely available in 2009

For More info Please attend

What OSGi offers to Mobile Enterprise Developers

Joachim Ritter, ProSyst