Android GPS

Key strategic decisions around Open Source

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Agenda

• Status Update

• What is Android?

• Near-term strategic decisions
  • Which type of Open Source are we?
  • How do we interact with OSS community?
  • How do we Open Source our JVM?

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Status: Hide the food, Android is here

- **Where:** Building 41, second floor
- **Group meeting:** Presented to wireless team. Making contacts and working well as a group
- **Development status:** Perforce server installed. Engineers are coding again.
- **Strategy:** Working with Deep, Nikesh and others to help define Android strategy going forward.
- **GPS:** Full-fledged GPS at a future date.
- **Demo:** Available upon request.

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What is Android?

Project Android is building the world’s first Open Source handset solution with built-in Google applications

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The Model

Google works closely with Carriers and OEMs to help incorporate its Open Source OS into handset designs.

- The Carriers benefit from the ability to quickly deploy differentiating features and applications.
- The OEMs benefit from the above, and a dramatic reduction in BOM costs by utilizing a robust, free consumer OS platform.
- Google benefits by having more control of the user experience and built-in Google apps.

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Why Open Source*

To disrupt the closed and proprietary nature of the two dominant industry players: MSFT and Symbian

To provide Carriers and OEMs a non-threatening solution for cross-vendor compatibility

To eventually build a community force around Google handset APIs and applications

* Our OSS license is a rider on a mainstream license such as Mozilla that requires licensee to maintain compatibility with Google APIs

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Which OSS Model?

- Build product
  
  A strategy where development happens internally, and once product has reached a certain level of stability it is released as open source.

- Community effort
  
  A strategy where development is a collaborative effort between internal Google resources and a larger more diverse community of external Open Source developers. Typically there is a publicly accessible source code repository with a informal check-in procedure.

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JAVA

• Why Java?
  – Carriers require it
  – MSFT will never do it
  – Elegant tools story
  – Safe sandbox for 3rd party developers
  – Existing pool of developers and applications
  – Who pays? OEM pays sun a license, typically < .30 in volume

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JAVA

- Java + Javascript/XML = Key differentiator

Current scenario:
- Developing a clean-room implementation of a JVM
- Need coffee-cup logo for carrier certifications
- Must take license from Sun
- Cost isn’t the issue, open source JVM is the issue

Proposal:
- Google/Android, with support from Tim Lindholm, negotiates the first OSS J2ME JVM license with Sun
- Outcome could reinforce our JVM development, or perhaps result in us convincing Sun to Open Source their MVM implementation.

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End.

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