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TEKZONEFORUM081

MO 25. Feb. 2008, 17:00 UHR

ANDROID
GOOGLE GOES MOBILE



Android – Google goes mobile

Introduction

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TekZone Forum 2008-02-25

What has changed?



Nokia Music Store
Beta

The killer application for mobile devices:

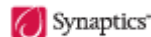
The Internet

Open Handset Alliance

Mobile Operators



Semiconductor Companies



Handset Manufacturers



Commercialization Companies



Software Companies



Android



- Linux kernel
- Open source (however not yet realized)
- Android is no Java platform, but uses Java to build applications. Android uses Java SE class library parts from Apache Harmony project
- For mobile devices optimized virtual machine “Dalvik”
 - runs .dex files (created from .class and .jar files)
 - optimized for multiple VM process instances
 - relies on underlying system for process isolation, memory management and threading support
- Only Java SE is open source, not ME, i.e. Android is independent of Sun and JCP; could lead to separation of Java and Android

What does Android contain? (not everything yet available)

- Basic platform
- Dalvik VM
- Basic applications for phone, contact management, SMS, camera support, connectivity (GSM- and UMTS-based, Bluetooth, ...), SIM card support, memory cards etc.
- SQLite database
- Location manager
- OpenGL
- Speech synthesis and recognition
- SyncML
- Application installer

Android for developers

- Android SDK available for download
- Eclipse support through Android plug-ins (even as Eclipse is not required for development)
- Simulator (lacks currently many features: placing and receiving phone calls, USB connections, camera/video capture, audio input, device-attached headphones, battery charge level and status, SD card insert/eject, Bluetooth, ...)

