Introduction to MeeGo Project

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The Current OS Landscape is Highly Fragmented

Disparate Operating Systems

Minimal consistency across experiences
MeeGo -- Unified Intel Operating Environment for Intel Atom Devices

Platforms based on Intel processors

MeeGo = Best of Moblin + Best of Maemo

Intel Atom Developer Program & AppUp Center

MeeGo continues Intel's Atom Software Strategy
MeeGo Working Model

OSVs Deliver Customized MeeGo Compliant Products
MeeGo Application Ecosystem

1000s of QT applications + 1000s of Runtime Apps + 100s of Native Linux Apps

Recompile

Qt Apps running on other operating systems e.g. Symbian
MeeGo V1.1 just released!

- Core OS 1.1
- Netbook UX 1.1
- IVI UX 1.1
- Handset UX 1.1
- SDK 1.1 (Beta)
MeeGo V1.1 Netbook UX
MeeGo™ v1.1 Major Themes

- Kernel and tools support for latest Intel® Atom™ processors
- MeeGo core OS enhancements to enable touch-based devices
- New MeeGo APIs for developers: Qt 4.7 (including QtQuick/QML) and QtMobility 1.0.2
- New reference user experience for handsets
- Enhanced user experience for IVI platforms and netbooks
### MeeGo v1.1 Core OS New Features (1 of 2)

<table>
<thead>
<tr>
<th>New Hardware Support</th>
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<tr>
<td>- State-of-the-art Linux kernel 2.6.35</td>
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<tr>
<td>- Includes support for Intel® Atom™ processor Z6xx series family (formerly known as “Mooresstown”) targeted for low power platforms</td>
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<tr>
<th>New version of GNU tools: gcc 4.5</th>
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<tr>
<td>- Support for Intel Atom microarchitecture</td>
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<td>- Key run-time libraries optimized for Intel SSSE3 instruction set</td>
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<td>- Improved performance via simple recompile/relink</td>
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<th>Enhanced 2D/3D graphics</th>
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<td>- X.org server 1.9.0 and Mesa 7.9 for improved 2D and 3D graphics performance</td>
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<tr>
<td>- Updated Intel Linux graphics driver for Intel Atom processor Nxxx series</td>
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<th>New APIs for Developers</th>
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<td>- Qt 4.7 (including QtQuick/QML) and QtMobility 1.0.2 provide a rich set of APIs for creating compelling applications that include location, sensors, contacts and messaging</td>
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<th>New sensor framework</th>
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<td>- Allows developers to take advantage of platform sensors such as accelerometers, compasses and gyroscopes to build compelling applications</td>
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**Strong set of new features to enable the creation of touch oriented devices based on Intel Atom processors**
MeeGo v1.1 Core OS New Features (2 of 2)

Networking and Telephony Enhancements
- New ofono telephony stack with modem plug-in for Nokia N900
- Connection Manager enhancements: static IPV6, DHCP-lib, VPN support

Multimedia Enhancements
- Gstreamer upgraded to 0.10.30 with liborc support for improved performance
- PulseAudio enhanced to support audio for voice calls on Nokia N900

New PIM and Sync Services
- Buto synchronization framework that supports device to device and device to cloud sync via SyncML and sync of media content between device and PC
- Calendar and contacts engine based on Tracker

New System Services
- udisks and upower replace deprecated devicekit-disks and devicekit-power
- Zypper/libzypp are now being used for package management instead of yum

Strong set of new features to enable the creation of touch oriented devices based on Intel® Atom™ processors

Software and Services Group
MeeGo v1.1 for Handset New Features (1 of 2)

New Handset UX Framework
- Built on Qt and MeeGo touch framework (MTF) technologies
- Support for multi-touch and gestures
- Includes home screen, application launcher, application switcher

Dialer Application
- Provides basic phone functions such as making/receiving voice calls
- Simple call history and basic integration with contacts
- Uses the oFono telephony stack

Messaging Application
- Provides basic support for creating, sending, receiving, viewing and deleting SMS messages

Handset Browser
- Provides a basic mobile browser powered by Mozilla technology, including support for the Adobe® Flash® plug-in
- Supports bookmarks, cookies, plug-ins, add-ons and the latest web protocols such as HTML, XHTML, XML, XSLT, Xpath, DOM, CSS, RDF, MathML, and JavaScript

Includes key handset technology components for use in device and user experience development

Software and Services Group
MeeGo v1.1 for Handset New Features (2 of 2)

**Photo Viewer Application**
- Allows viewing of photos and basic photo manipulation such as rotation
- Support for viewing photos as thumbnails, photo lists or slide shows
- Support for creating albums and searching

**Video Player Application**
- Provides basic video playback capabilities
- Supports full screen video, user controls, timeline indicator and video metadata
- Uses Gstreamer framework from MeeGo OS core

**Music Player Application**
- Provides basic music playback capabilities with play controls (previous, play/pause, next, shuffle, repeat)
- Shows the name of the currently playing song and the play queue

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Includes key handset technology components for use in device and user experience development
MeeGo v1.1 for IVI New Features

**IVI Home Screen and Taskbar**
- Built on Qt technologies
- Designed with automotive control center HMI requirements in mind
- Taskbar can be controlled by scroll wheel, touch or mouse

**Text to Speech Support**
- Uses Festival Speech Synthesis
- Enabled by default while navigating menu in the IVI home screen

**Speech Recognition Support**
- Based on the open source PocketSphinx 0.6.1 package
- Voice commands have been pre-defined for navigating the scroll menus

**Sample Applications**
- Video player, music player, photo viewer, hands free dialer, settings management

Provides key technology components required to build advanced in-vehicle infotainment systems

Software and Services Group
Resources

- MeeGo project web site: http://meego.com
- MeeGo developer info: http://meego.com/developers
- How to get started developing for MeeGo: http://meego.com/developers/getting-started
- MeeGo mailing lists: http://meego.com/community/mailing-lists
- MeeGo IRC info: http://meego.com/community/irc-channel
- MeeGo bug tracking: http://meego.com/community/bug-tracking