MeeGo Technical Overview

Linux Foundation Collaboration Summit Arjan van de Ven

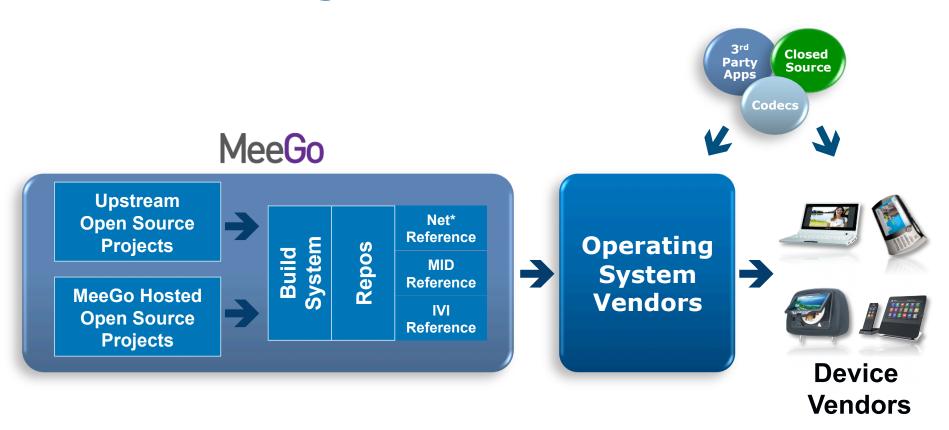


MeeGo Overview

- MeeGo = best of Moblin and the best of Maemo
- MeeGo is a fully open source software platform
 - Proprietary add-ons can be provided by vendors to support hardware, services, or customized user experiences
- MeeGo provides a common set of APIs across client devices with one unified voice to developers
- MeeGo supports multiple hardware architectures (IA and ARM)
- MeeGo is an independent project under the auspices of the Linux Foundation
- MeeGo has a 6 month release cadence



MeeGo Working Model



MeeGo Handheld UX

Handheld UI + Apps

Handheld UI Framework

MeeGo Netbook UX

Netbook UI + Apps

Netbook UI Framework

Other UX's

MeeGo UI Toolkit (Qt)

GTK / Clutter

SECURITY

Comms Services

Connection Mgmt ConnMan

Telephony API's oFono

IP, VOIP, IM, Pres. Telepathy

> Bluetooth BlueZ

Internet Services

Layout Engine WebKit

Web RunTime WebKit

Web Services IibSocialWeb

Location GeoClue

Visual Services

3D Graphics OpenGL / GL ES

2D Graphics Calro, QPainter

l18n Rendering Pango, QtText

,

Media Services

Media Framework GStreamer

Camera GStreamer Plugin

Codecs GStreamer Plugins

> PulseAudio UPnP GUPnP

Data Mgmt

Content Framewk Tracker

Context Framewk ContextKit

Package Manager PackageKit

Device Services *

Device Health

Sensor Framewk

Resource Manager

Backup / Restore

Personal Services

PIM Services

Device Sync

Accts & Single Sign-On *

Settings Database GConf System Libraries glibc, glib, etc

Message Bus D-Bus Platform Info Device Kit

MeeGo Kernel

Hardware Adaptation Software



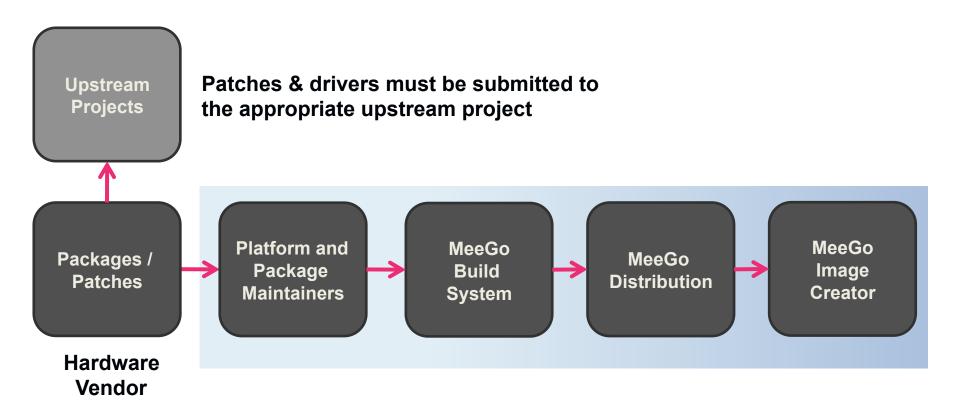
System Software Division

Hardware Architecture Support

- Support for both Intel and ARM architectures
- Silicon vendors are responsible for providing the hardware adaptation software
 - Intel provides the complete solution for Atom-based platforms
- Architecture maintainers are responsible for integrating hardware-specific patches into the single MeeGo source base
 - "upstream first" policy for patches!



Hardware Enabling Process





MeeGo Compatibility Overview

- MeeGo will provide strong, full stack based compatibility
 - focused on application compatibility between MeeGo-based devices
- MeeGo stack must be provided in its entirety
 - all packages based on MeeGo sources
 - user experience can be customized
 - must include UI framework and user interaction model per profile
- Components can be added on top of MeeGo stack
- There will be a MeeGo compatibility program
 - Use of MeeGo brand, logo, etc will be based on compatibility
- Use of the MeeGo name



MeeGo Developer Infrastructure

git



meego.gitorious.org

bugzilla



bugzilla.meego.com

repos



repo.meego.com

garage



garage.meego.com



MeeGo Application Development Environment

MeeGo offers Qt and Web runtime for app development:

- Qt for native C++ and Web runtime for Web applications (HTML, JS, CSS, etc.)
- Qt and Web runtime bring cross platform development so apps can span multiple platforms
- Native development tool: Qt Creator
- Web development tools: plug-ins for standard web development tools including Aptana and DreamWeaver





Governance, Community, Licensing

Governance

Technical Steering Group



Imad Sousou



Valtteri Halla

Committers, Maintainers, and **Technical Leaders**

Working Groups









Handheld



In-Vehicle

Community











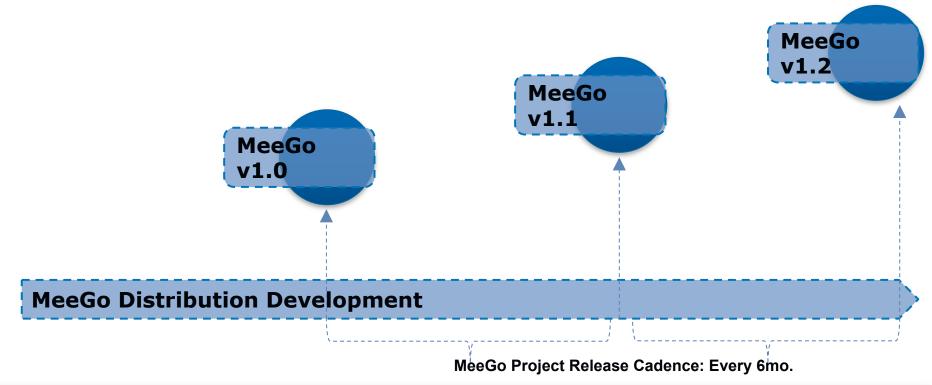
Licensing



- All licenses must be compatible with OSI Open Source Definition
- Framework technologies must allow linking of proprietary components
- MeeGo OS: Use of (L)GPL version 2.x is encouraged
- MeeGo UX: Use of permissive licenses such as BSD is encouraged



MeeGo Project Release Schedule



4Q'09			1Q'10			2Q'10			3Q'10			4Q'10			1Q'11			
ост	NOV	DEC	JAN	FEB	MAR	APR	MA Y	JUN	JUL	AUG	SEP	ост	NOV	DEC	JAN	FEB	MAR	APR



System Software Division