Standards and Mobile Applications, Services and Widgets

Arthur Barstow; Nokia
Mobile Internet World
13 November 2007
Contents

• User Experiences

• Interoperability

• Relevant Work at the W3C
Our vision

A world where everyone can be connected

In 2015, 5 billion people always connected
Full Web browsing
Staying connected
Smart connectivity

Wi-Fi

WiMAX

Bluetooth

DVB-H

GPS

FM Radio

GSM

EDGE

WCDMA

HSDPA
Widgets
Application Environments

Relative number of app developers (illustrative only)
Widgets Phase I: Internet Services

Widgets connect to Internet services

- Designed to give users quick, instant, easy access to essential & commonly used services & content
- Leverages Web 2.0 services & Web content
- Access only to system information services, e.g. battery status, network signal strength, memory statistics.
Phase II: Access to platform services

Widgets & S60 core platform services

- Widgets combine Internet & core platform services, such as, **GPS, phonebook, calendar** etc.

- **Safe & secure access** to S60 core platform services requires trusted widgets

- Opens up numerous exciting possibilities for **mash-ups** & other innovative services
Search and find

YellowPages.stc.com.sa
YellowPages.ca
YellowPages.com.eg
YellowPages.ae
De Telefoongids directories
DasÖrtliche
Windows Live
yandex.ru
Baidu 百度
Yahoo!
Atlas
Suchen.de
PaginasAmarillas.es

Find it easy
Web 2.0 applications
Web 2.0 with context
Mobile webservice

www.mymobilesite.net
Media browsing
Interoperability
Service Enablers

• Location Protocols
• Presence Protocols
• Billing and Charging Frameworks
• Messaging Protocols
  • Text Messaging
  • Multimedia Messaging (MMS)
• Instant Message (chat, IRC, …)
• Data Synchronization Protocols
• Mobile Broadcast (TV)
• …
Consortia Landscape
Interop & Certification
Open Source Software

maemo™

Gnome

gstreamer

Mozilla

eclipse

THE LINUX FOUNDATION

CE LINSX FORNNN

Nokia
Relevant Work @ the W3C
HTML WG

• Creating HTML5 - the next generation of HTML
  • Codifying what’s been implemented
  • Adding some new tags, attributes, DOM APIs
• Addressing interoperability issues
  • Error handling
• Test suite
CSS WG

• CSS is the Web’s Style Language
• Updates for CSS 2.1 spec
• Creating new specs and modules:
  • Grid Positioning
  • User Interface
  • Colors
  • Multi-column layout & Advance layout
  • Media Queries
  • …
Web API WG

- Codifying existing implementations of Browsers’ JavaScript APIs
- DOM spec maintenance and evolution
- Work in Progress:
  - *Ajax* -> XMLHttpRequest object
  - JavaScript objects -> Window
  - DOM Events
  - Selectors API
  - Progress Events API
  - Persistent/Offline Storage API
  - …
Web Application Formats WG

- Widgets
  - Standardized packaging format (ZIP)
  - Metadata *manifest*
  - Standardized way to *Sign* a Widget
  - Localization model
  - …
- Controlled way to poke holes in the browser’s sandbox (aka *Same Origin Policy*)
  - Cross-site scripting
We Need You!

- Lots of interesting *Work In Progress*!
- Publications: w3.org/TR/
- Come Join Us!
Thank You!