Seamless Mobility & OSGi Service Platform

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I wish...

...my car could talk to the nearest gas station

...my mobile phone could turn on the lights in my home.

...my alarm clock could talk to my car

...my mobile phone could talk to my home thermostat

...my PC could talk to my home theater or car stereo

...my mobile phone could locate other active phones in the network, much like the way IM works

...my home security camera could talk to my mobile phone

...my TV/DVD could talk to the video rental store

...my home phone could talk to my mobile phone

...my alarm clock could talk to my car...
where the world is going
The Digitization of Everything
The Expansion of Broadband
Explosion of Wireless and Hyper-Mobility
The Explosion of Smart Things
what's next?
The future of communications …

User centric content - device and context sensitive driven by affordable, available broadband

Applications explode - digitization of everything at the edge of the network

Privacy, safety and security - critical for content that is purchased and created

Full mobility - across heterogeneous networks

Always on, always here - sessions that cross networks and devices, seamlessly
The four “screens”…
The four “mediums”...
The four “connections”

People to People

People to Things

Things to People

Things to Things
Seamless Mobility
Seamless Mobility is not continuity of bits…it’s continuity of experience

- Content Handling
- Intelligent Interaction
- Sensing & Control
- Real Time Communications
- Heterogeneous Networks
- Session Continuity
“I am a Real Madrid fan. On the train, I watch the game on my mobile screen. I start driving, and the experience continues on my radio. I get home and the TV turns on, with the game. I never miss Beckham score.”
Seamless Content Handling

- Buy/rent and stream content online
- DVB, Cellular
- Buy content pull from home storage
- Internet
- Store on Gateway
- Home Network
- Listen via media adaptor or connected stereo
- Browse and listen from TV
- Pull from storage via TV or Set Top Box
- Synchronize to car
- Store on PC

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Mobility Services Architecture

- Cellular 3G
- Communication Gateway
- Cable/DSL/Fiber
- Core IP Network
- Softswitch
- Service Delivery Platform
- Cellular 2.5G
- Communication Gateway
- Mobile Broadband Wireless Access
- Application & Content Servers
- Communication Gateway
- Wireless Services Manager
Comprehensive Services Platform

**Basic & Advanced Video Services**
- Wholesale or retail
  - Broadcast channels
  - Premium channels
  - PPV
  - VOD, sVOD
  - HDTV
  - PVR

**Basic & Advanced Data Services**
- Broadband data
- Symmetrical services
- Customized bandwidth
- Data/video convergence
- Home networking

**Complete Voice Services**
- Local
- Long distance
- CLASS features
- Life line

PVR

Home Networking

MS1000

OSGi Alliance

ONT
The device formerly known as the cell phone
... application capabilities

First Commercial Portable Phone

GSM  SMS  PTT  WAP  GPRS  Downloads

3G  Photo  Camera

Video Streaming  & Camera  Broadcast  Video

Polyphonic  MP3  Polyphonic  compose  Surround  Sound

Java  J2ME
Linux  WinCE
Java/Linux
OSGi  Services

Color  Display  Rotator  Design

Skins  QDualhinge
TransFlash

Voice Mail  EMS  MMS  IM  Outlook  iMode

AMPS  Dual-band  Tri-band  HS-CSD  Bluetooth  A-GPS  Quad-band  WiFi  EDGE  DVB-H  UWB

83  92  94  97  99  00  01  02  03  04  05

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Java/Linux Personal Terminals

Pluggable modular architecture enables both application and feature updates

- New features
- Component upgrades and repairs
- New user interface capabilities
- Agnostic to bearer (cellular or W-LAN)
- Scales to different device tiers and configurations
In the vehicle

• Synchronize with home, network, and handheld based content

• Deploy new and/or updated services wirelessly

• Update in-vehicle software consistent with the manufacturers policies
Where Motorola is going …

Making everything “to go” – user experience for Mobile Me

Providing interoperability and connectivity across heterogeneous networks – private & public

Creating solutions for the connected vehicle and home – aware, architected and networked

Transforming mobile communications with the device formerly known as the cell phone
Seamless Mobility