



Mobile Applications over Multi-Mode Devices

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The Mission: Quality Applications Easily Developed & Deployed

Classical Apps

- Voice
- SMS/Instant Messaging
- Contact Manager
- MP3 player

Up and Coming Apps

- Video Broadcast
- Interactive video
- Gaming / 3D
- Multimedia
- Mapping

Innovative Apps

- Dating
 - Stock trading
 - Social Networking
- Web Apps
Many Others

How?

GSM
GPRS
EDGE

W-CDMA

HSDPA
&
HSUPA

DVBH

GPS

FM

Blue-
tooth

WiFi

WiMAX

FMC Carrier trials have shown challenges with:

- ❑ Quality of VoIP
- ❑ Quality of Video Streaming
- ❑ Handoff Reliability
- ❑ Battery Life during Multimode Operation
- ❑ Interoperability

ODM/OEM's have had additional challenges:

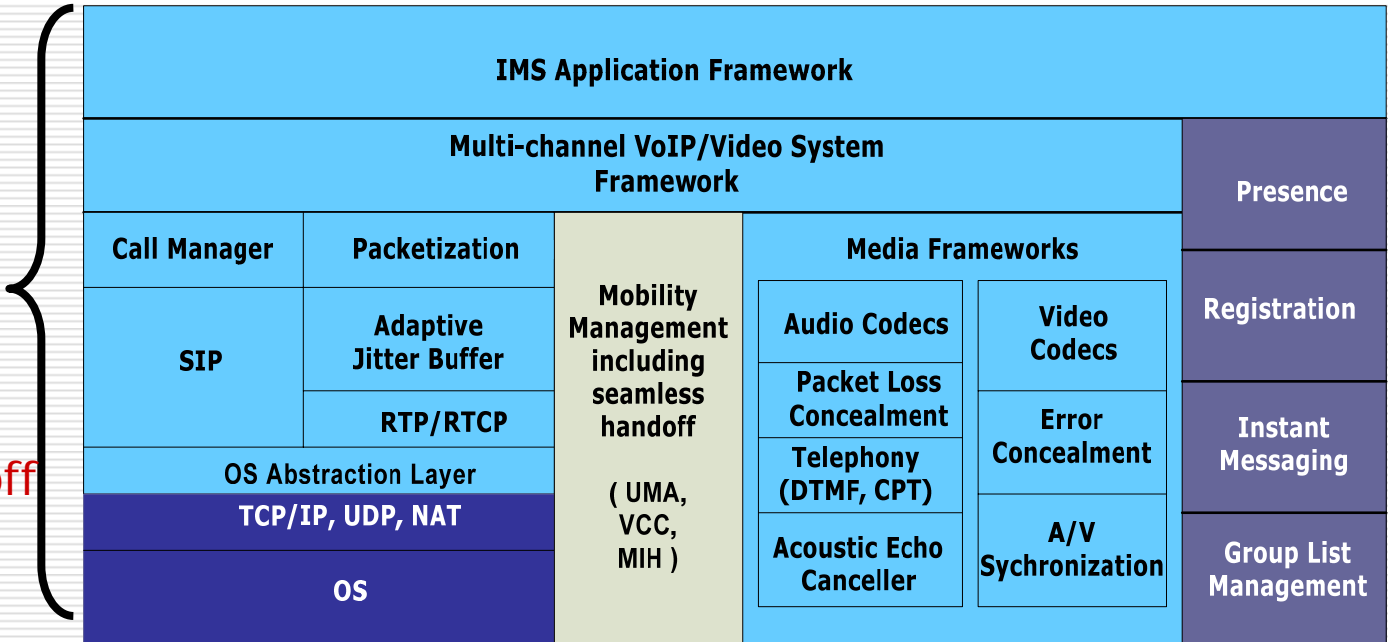
- ❑ Multiple application SIP stacks
- ❑ Memory footprint optimization
- ❑ Power optimization
- ❑ Deep diving into protocol stacks

PLUG-IN APPLICATIONS

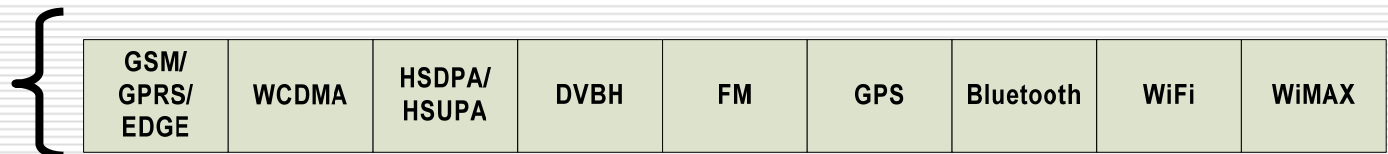


APPLICATION FRAMEWORK

- * IMS
- * VoIP
- * Media Transport
- * Media Codecs
- * Seamless Handoff
- * Multimode I/F



MULTI-MODE MODEMS



The results: World's 1st Commercial VoIP Dual-Mode

WNC Wistron NeWeb Corp.



HelloSoft
Inside

- Outlook : Candy-bar design
- Display : Main color 262K TFT, 176x220 px
- Network : GSM850/900/1800/1900
- GSM Voice : HR/FR/ EFR/AMR CSD 9.6kbps
- Wi-Fi : IEEE 802.11b
- Codec support: G711/ G723.1/G726/G729A/B
- VoIP : SIP, SDP, RTP, RTCP, WEP
64/128 bit, WPA2
- Size Weight: 95g (Battery Included)
- Dimensions: 106 mm x 44 mm x 19 mm
- Ring Tones : 40 polyphonic melody

