Prof. Willie W. Lu, Ph.D Chief Architect & Chief Inventor Open Wireless Architecture (OWA)[®] and Mobile Cloud [®] IPs

User-Centric Mobile Cloud Device - Global Evolution from Mobile Era to Personal Era

Please note that nothing set forth in this document may be construed as an admission of law or fact, or as a waiver of any right, remedy or defense that Prof. Willie W. LU may hold, all of which are expressly reserved.

Over \$600B **Business by** Year 2020 Hand

(b)

Search Colling and his mobile device in Section Res

OMA 3.0

WLAN WPAN BWA Cellular iHand

RF Front End & Transceiver: 800MHz ~ 6GHz RTT: Cellular (3G/4G), WLAN, WPAN, BWA Ad-Hoc: Device to Device; Mesh Networks

Open Wireless Architecture (OWA) - wireless OS Mobile Cloud platforms - app OS

User-Centric vs. Carrier-Centric

Disclaimer: This is tentative design project for clients, and final design and development are subject to change.

ARCHITECTURE FOR USER-CENTRIC MOBILE CLOUD DEVICE

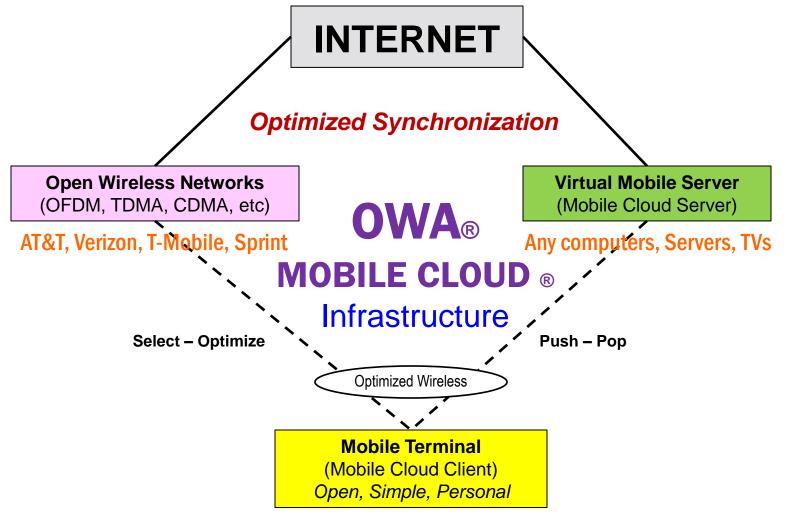
Prof. Dr. Willie W. LU, Principal Investigator of OWA Mobile Cloud architecture



Future Radio Transmission Technology (RTT) including 5G, etc will be operated by Open Wireless Architecture (OWA) discovering, ruling and scheduling different air interfaces for billions of cyber physical system (CPS) devices and mobile devices connecting to the Mobile Cloud wirelessly.

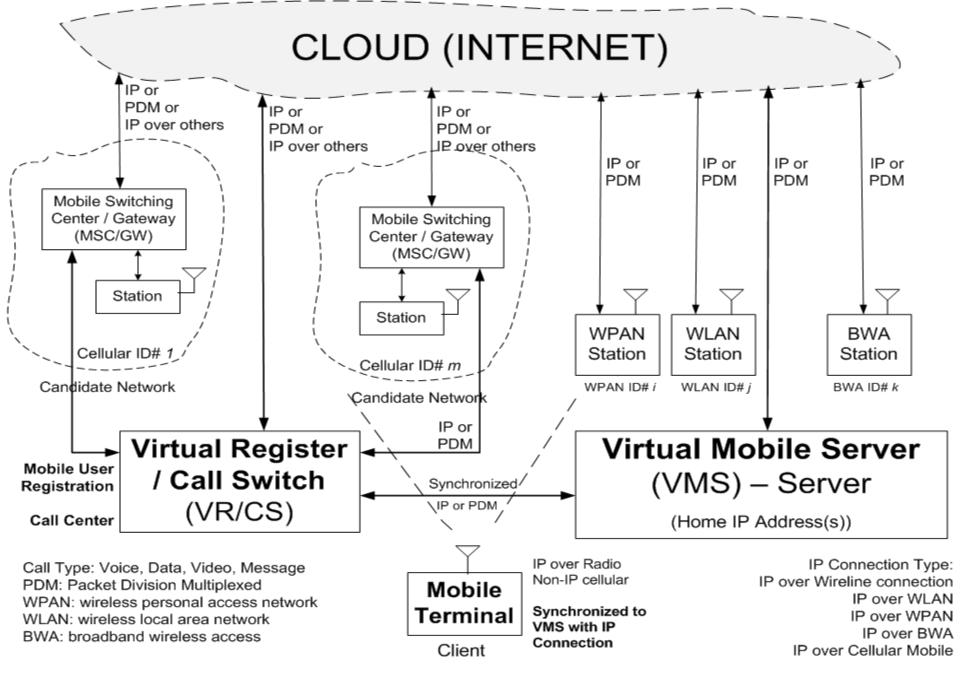
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User-centric instead of Carrier-centric Mobile Cloud

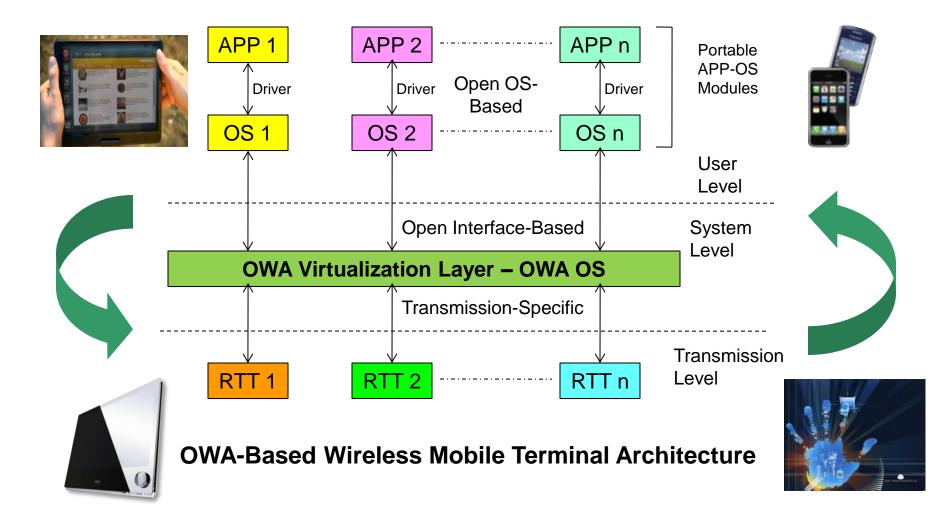


Mobile Device, Tablet, Laptop

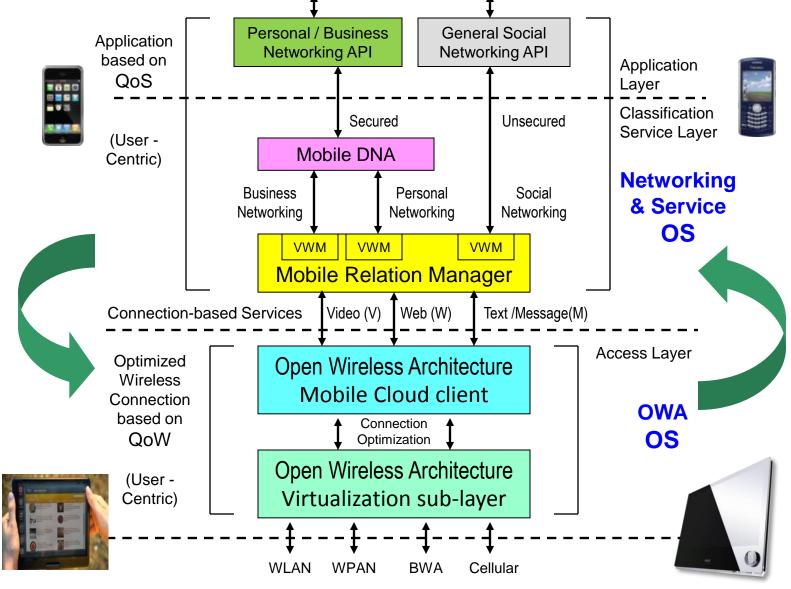
The company holding the "OWA" flag will become new "Intel" of the mobile world.



OWA Virtualization OS for Open MM Applications

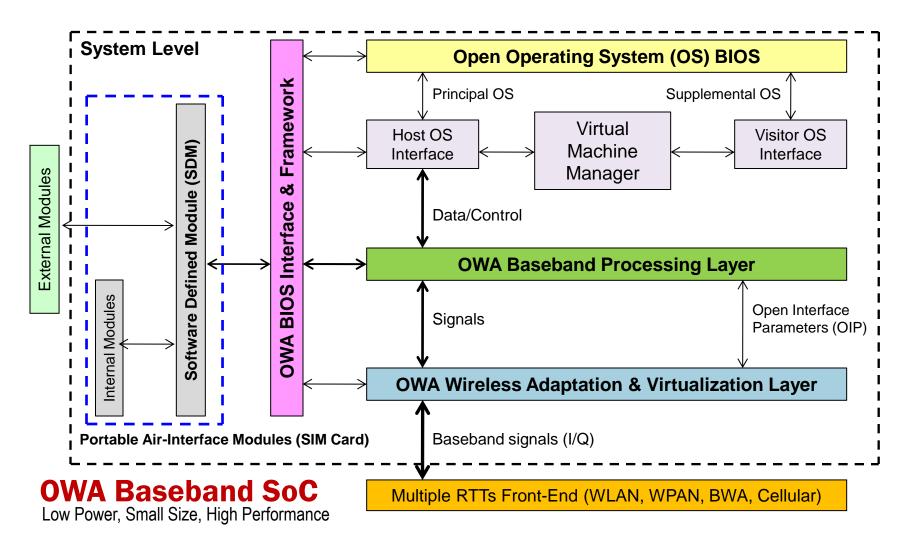


Open Mobile Applications (Mobile Gaming, Ads, LBS, Videos, etc)



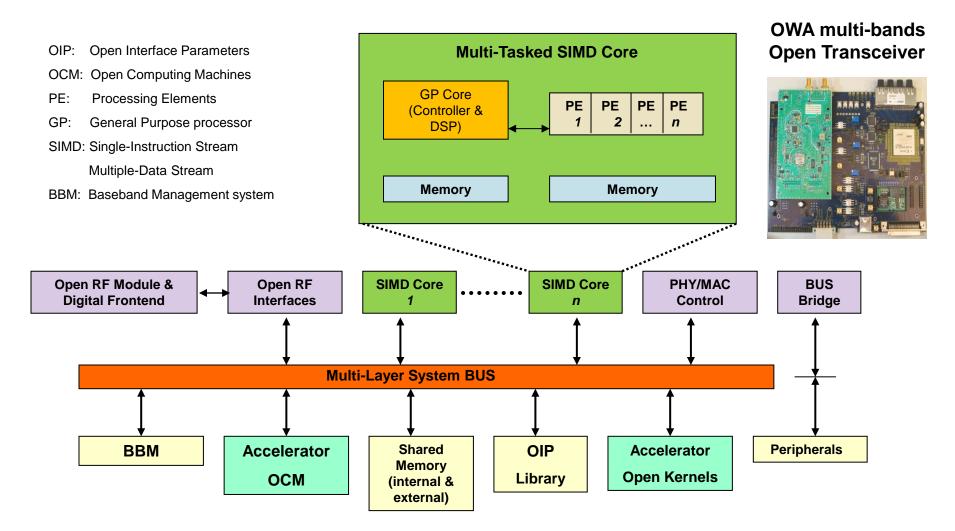
Classified Relation Networking Optimization Platform in OWA Mobile Cloud Devices

Open Wireless Architecture (OWA) Virtualization Layer



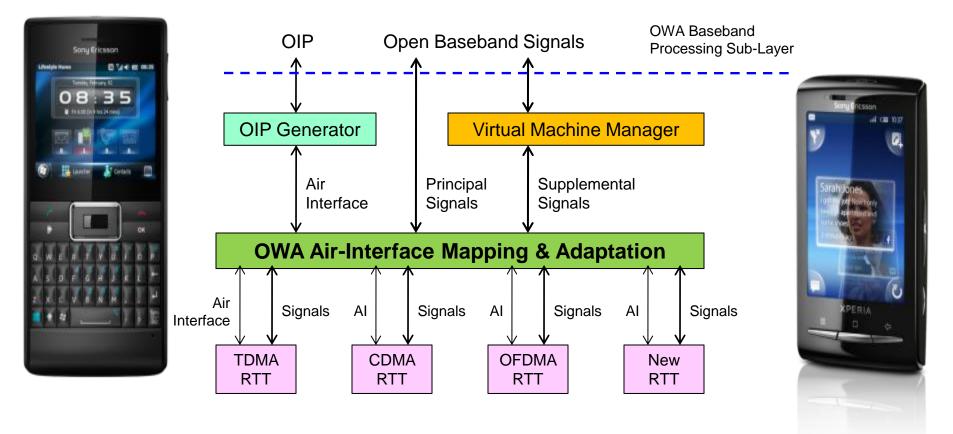
OWA integrates various air-interfaces in an open platform – low power, high performance

Open Baseband Signal Processing Platform



OWA is optimized for integrated platform on Smartphones - both system and transmission.

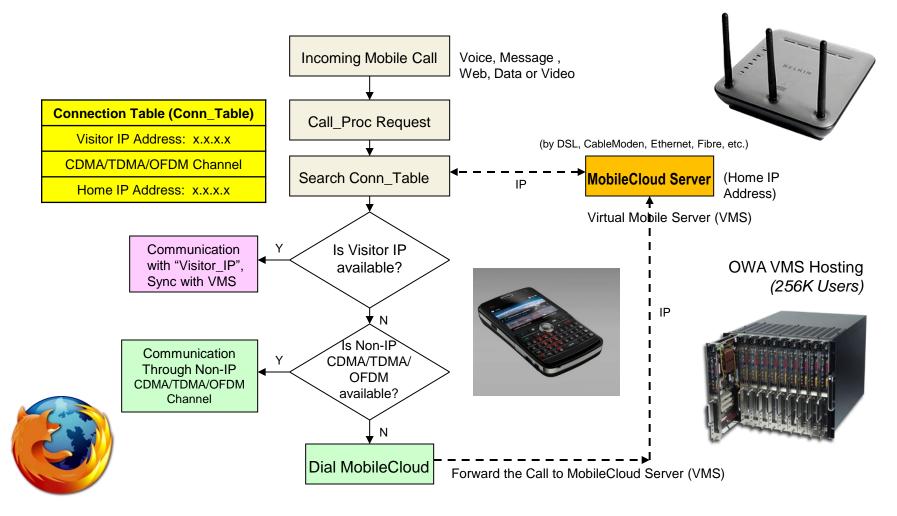
Wireless Adaptation & Virtualization Sub-Layer





OWA is best optimized for advanced Smartphone on power efficiency and integration size – portable **Air-Interface modules** and **Mobile Cloud** architecture.

Call Processing Management System in Mobile Switching Center, Gateway or Virtual Switch



OWA® OS: How to converge multiple wireless access in one mobile device

Virtual Mobile Server as Mobile Cloud Server



