

# Cybersecurity in Mobile Cloud



## Redefining Mobile Cloud Convergence - Lessons from MH370

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Chief Architect & Chief Inventor  
Open Wireless Architecture (OWA)®  
and Mobile Cloud® platforms



**OWA.inFlight Mobile Notebook**

### When In-Flight Mode

All Terrestrial Radio Transceivers Turned OFF (automatically)

Device Connected to OWA.onBoard Wireless Router

Device Synchronized to Mobile Cloud VMS on Ground

20-50 Mbps

20-50 Mbps



**OWA.onBoard Wireless Router/ Access Point**

### OWA.onBoard RTTs

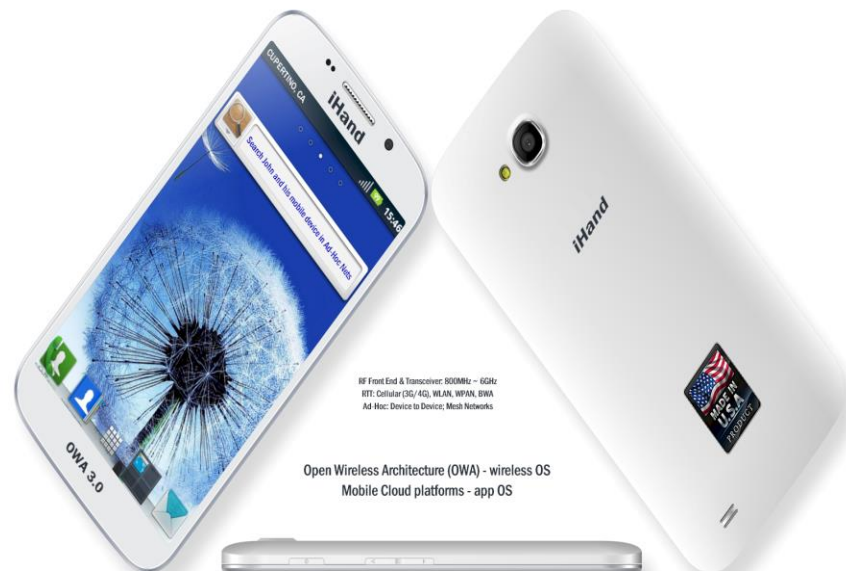
Standard Wireless LAN (WLAN)  
Modified Wireless LAN (WLAN.Air)  
Standard Wireless PAN (WPAN)  
Modified Wireless PAN (WPAN.Air)

## **OWA.inFlight Mobile Network**

Auto Switch to In-Flight Mode

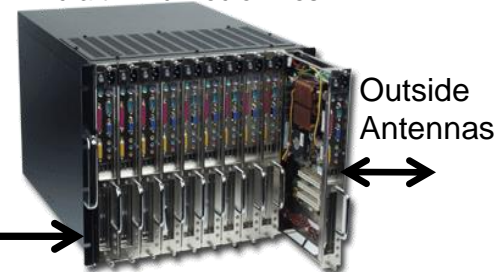
Connecting to OWA.onBoard

Push to Virtual Mobile Server



**OWA.inFlight Mobile Device**

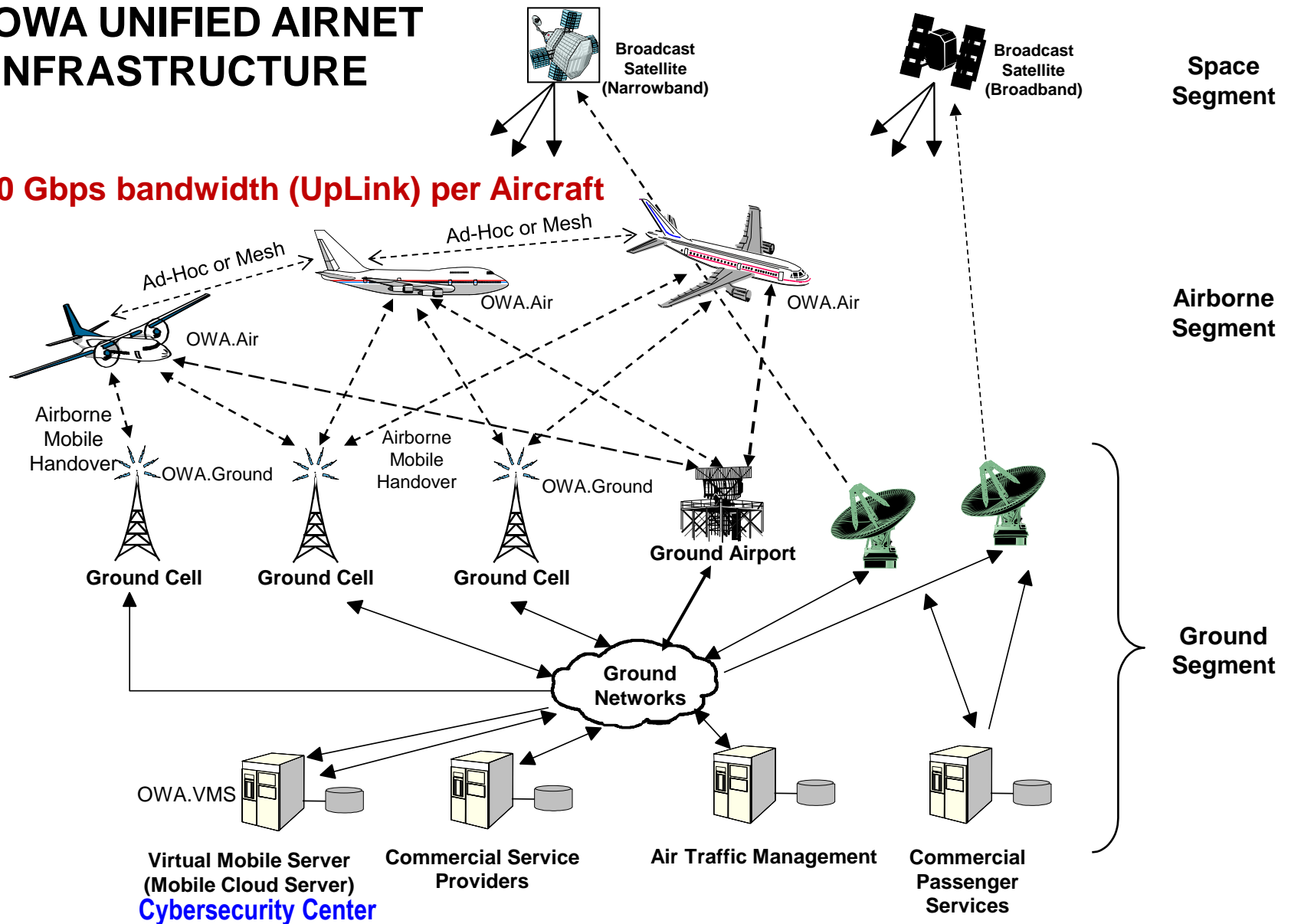
Connecting to Ground or other Aircraft in Ad-Hoc or Mesh



**onBoard Server and OWA.Air Transceiver Cybersecurity Gateway**

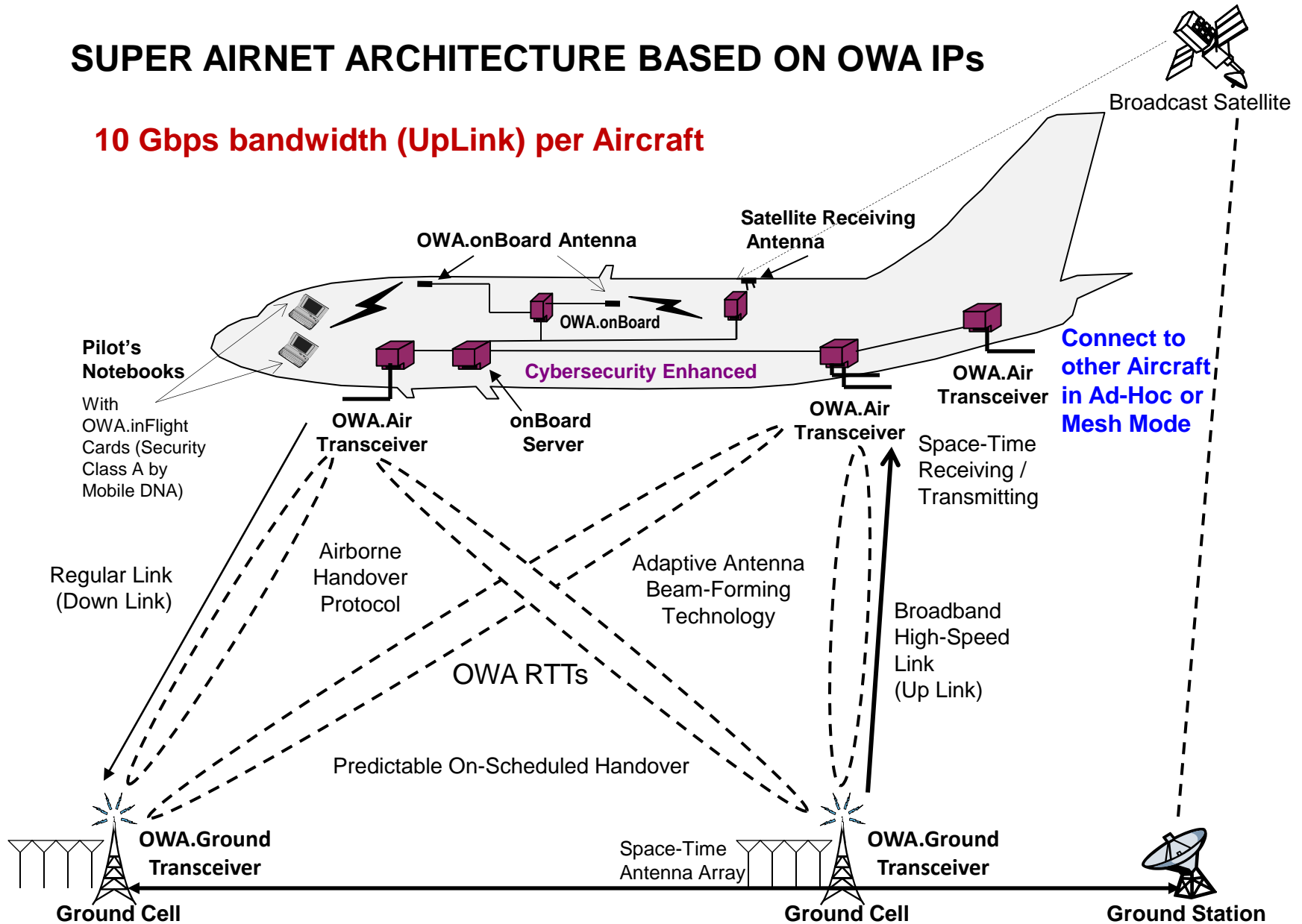
# OWA UNIFIED AIRNET INFRASTRUCTURE

**10 Gbps bandwidth (UpLink) per Aircraft**



# SUPER AIRNET ARCHITECTURE BASED ON OWA IPs

**10 Gbps bandwidth (UpLink) per Aircraft**





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Transceivers  
Turned OFF  
(automatically)

Device Connected  
to OWA.onBoard  
Wireless Router

Device  
Synchronized to  
Mobile Cloud VMS  
on Ground

OWA.onBoard RTTs

- Standard Wireless LAN (WLAN)
- Modified Wireless LAN (WLAN.Air)
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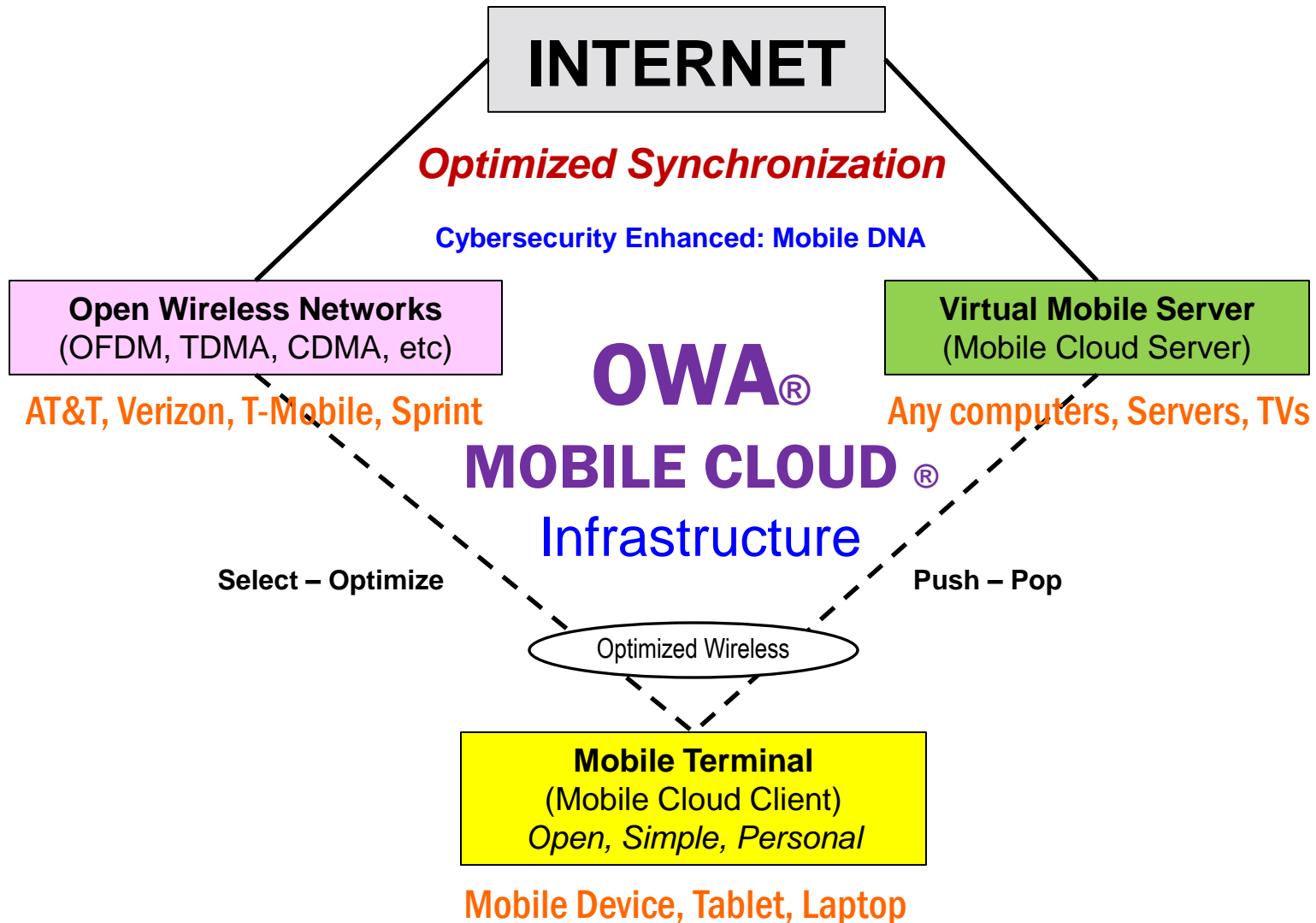


Open Wireless Architecture (OWA) - wireless OS  
Mobile Cloud platforms - app OS

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



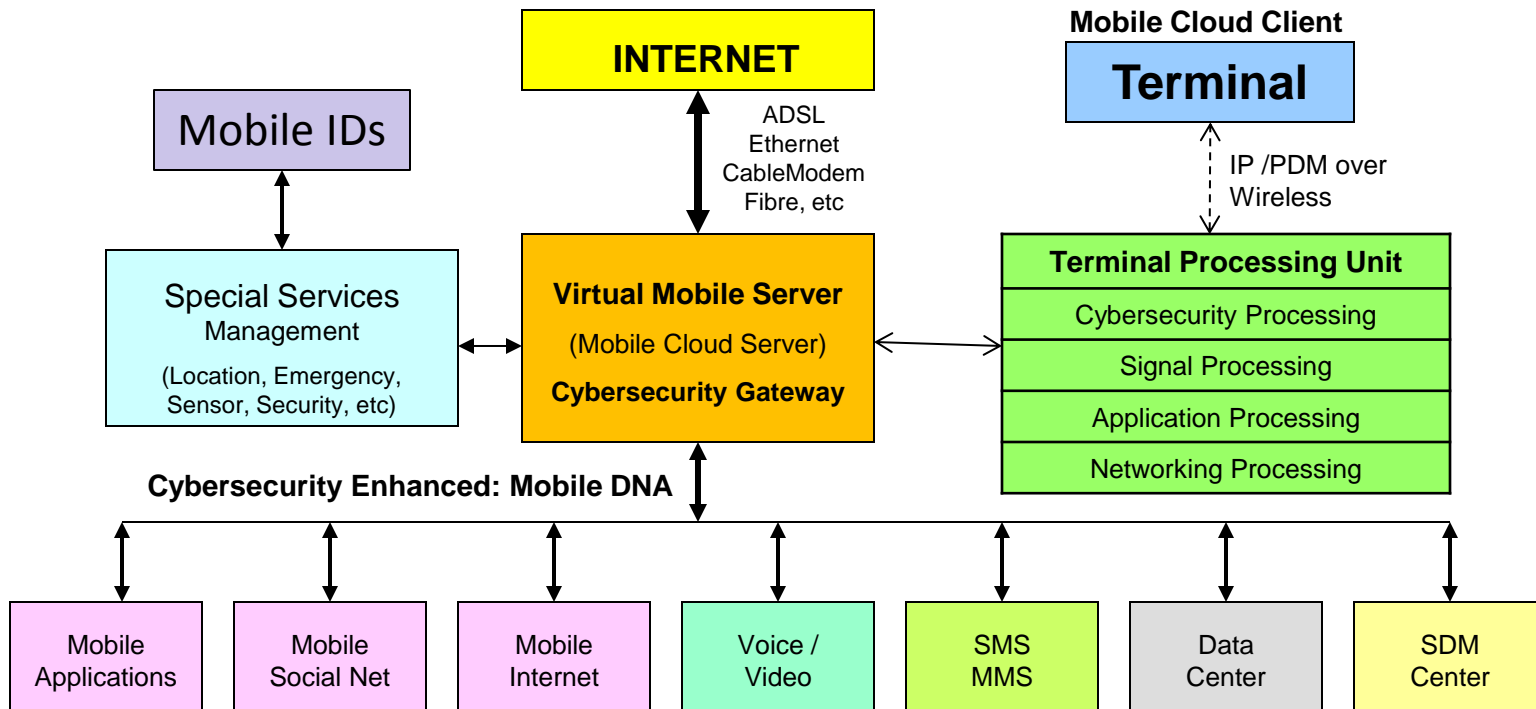
# User-centric instead of Carrier-centric Mobile Cloud



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

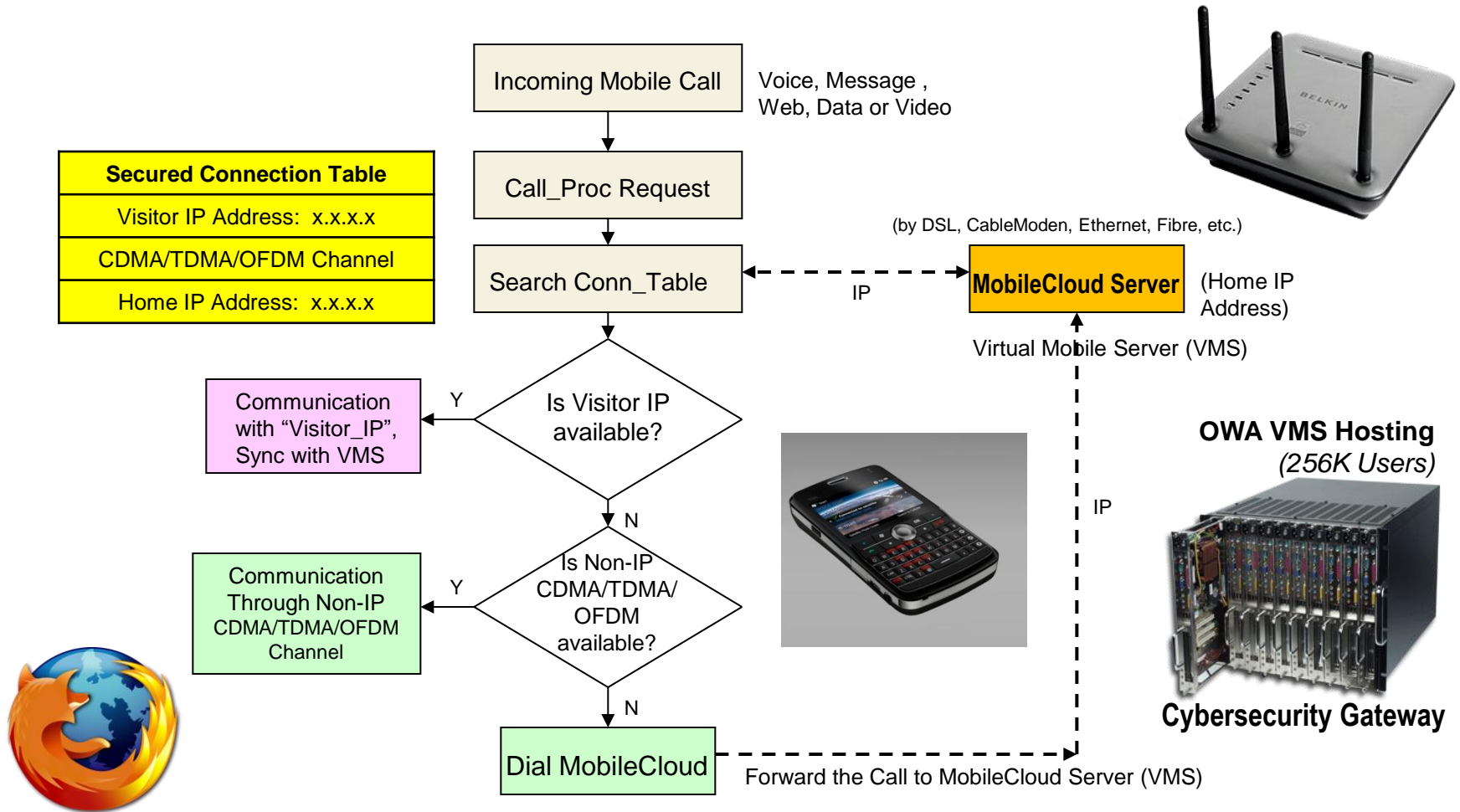


# Mobile Cloud Server as Cybersecurity Gateway



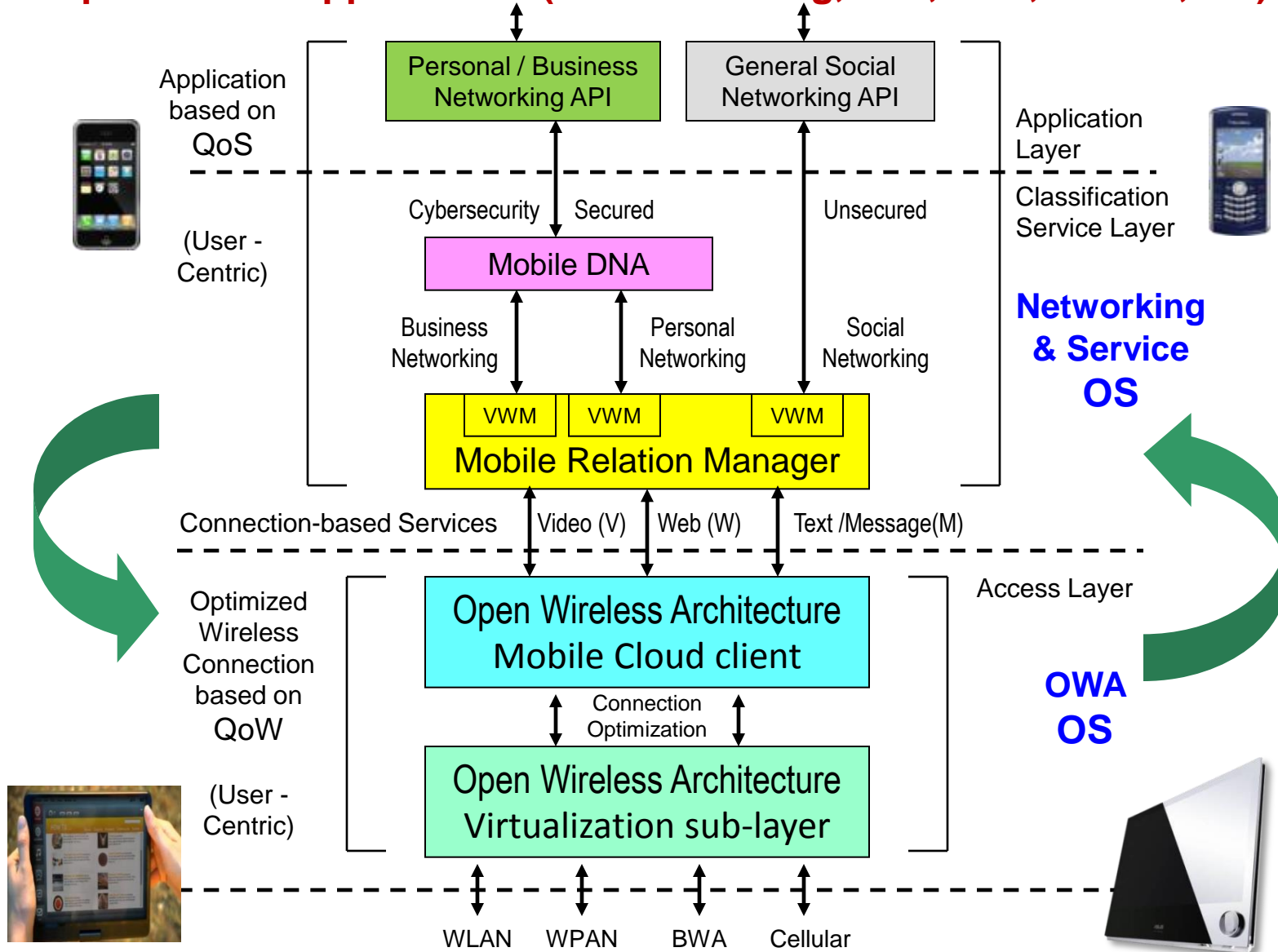


# Call Processing Management System in Mobile Switching Center, Gateway or Virtual Switch



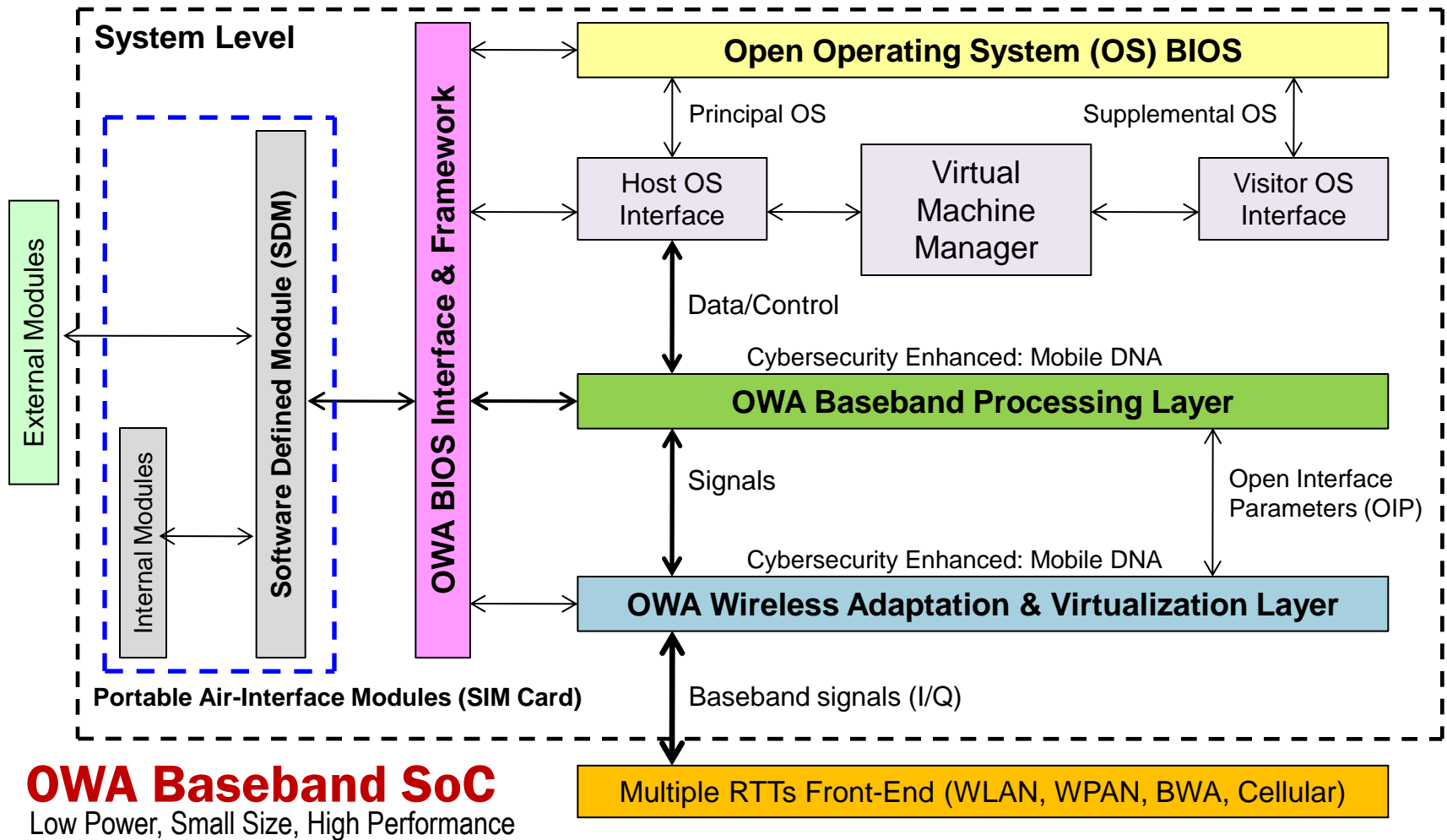
**OWA® OS: How to converge multiple wireless access in one mobile device**

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

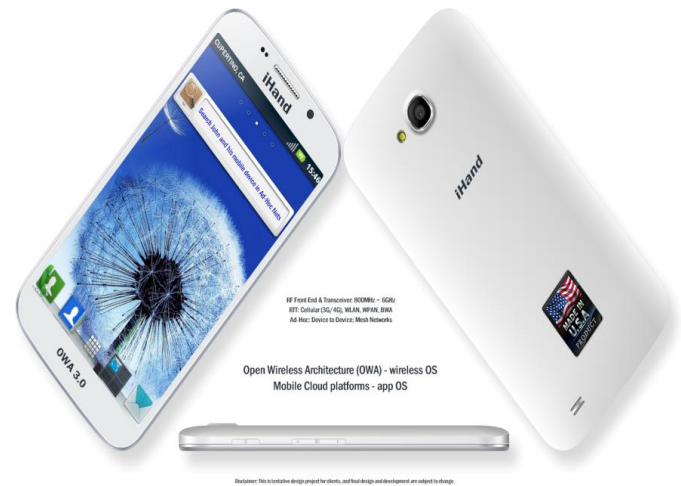


Classified Relation Networking Optimization Platform in OWA Mobile Cloud Devices

# Open Wireless Architecture (OWA) Virtualization Layer



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



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