

Charting a Course to Energy Independence

Providence, RI
August 9-12, 2009

Wireless Controls and Metering

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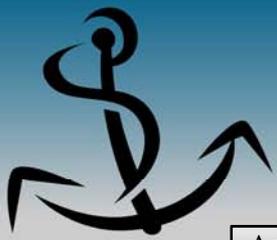




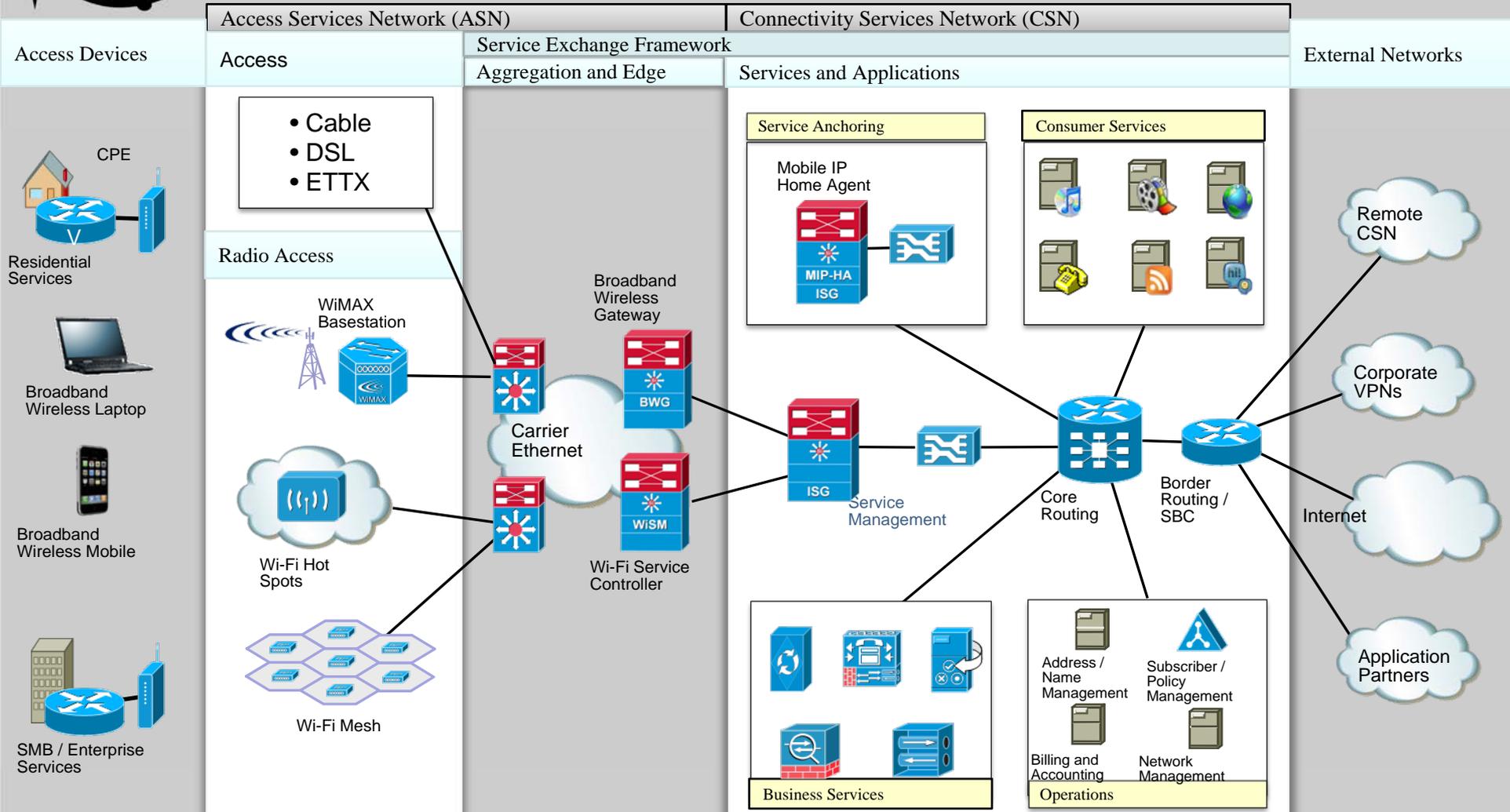
Wireless Broadband in the Smart Grid?

Creating an end to end, resilient and secure infrastructure for Smart Grid deployments

- RF Access Technologies
- Management and Control
 - Network Security



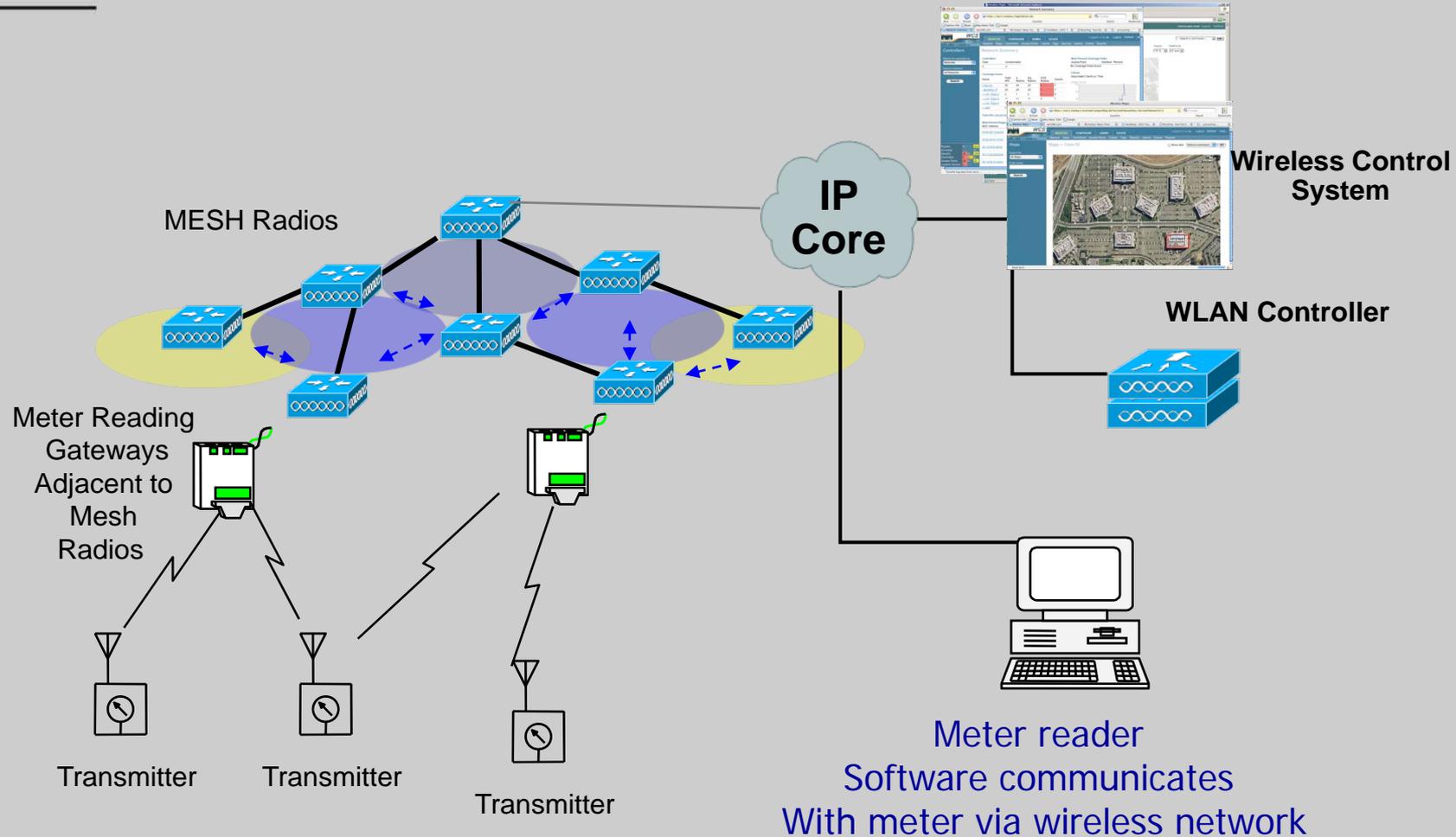
End to End IP-Based Wireless Access



Integrating multiple access technologies into a converged IP service delivery architecture

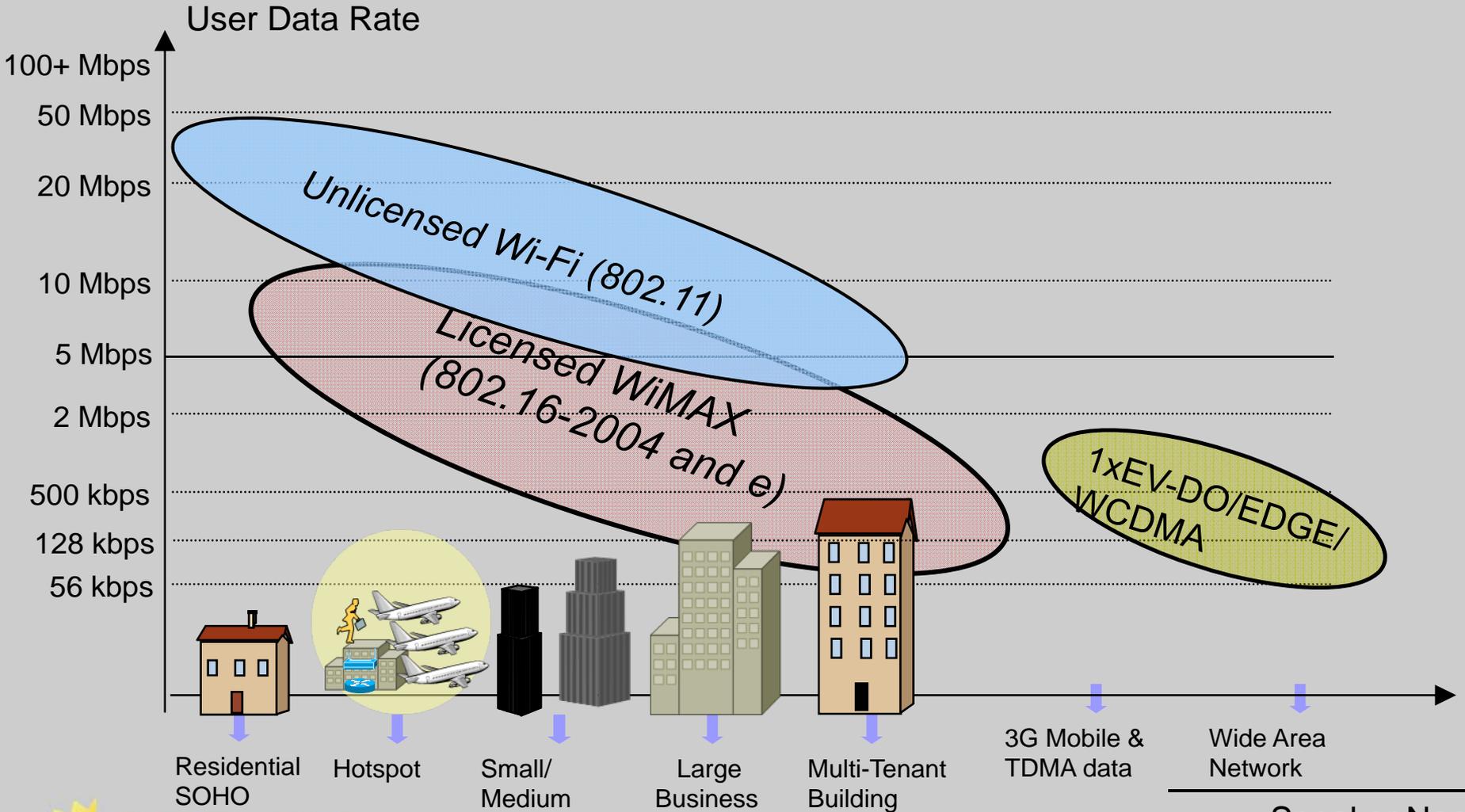


Joint Mesh/ Meter Reader Application





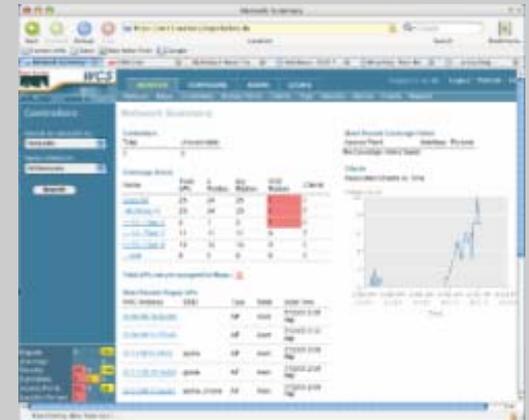
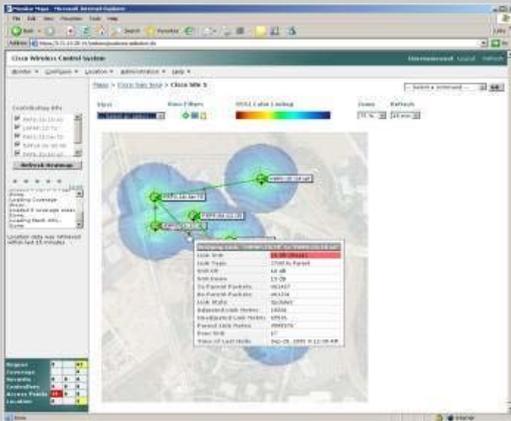
Wireless Broadband Access Technologies





Network Management

- Centralized design, control, and monitoring of the wireless networks to simplify deployment and operation of the network
- Integration into existing network management and provisioning architectures to deliver consistent QoS based performance across the network
- Advanced radio resource management to automate channel assignments, power control, and dead-zone detection for optimum coverage and reliability



Wireless Control System decreases OPEX by centralizing and automating operations



Network Security

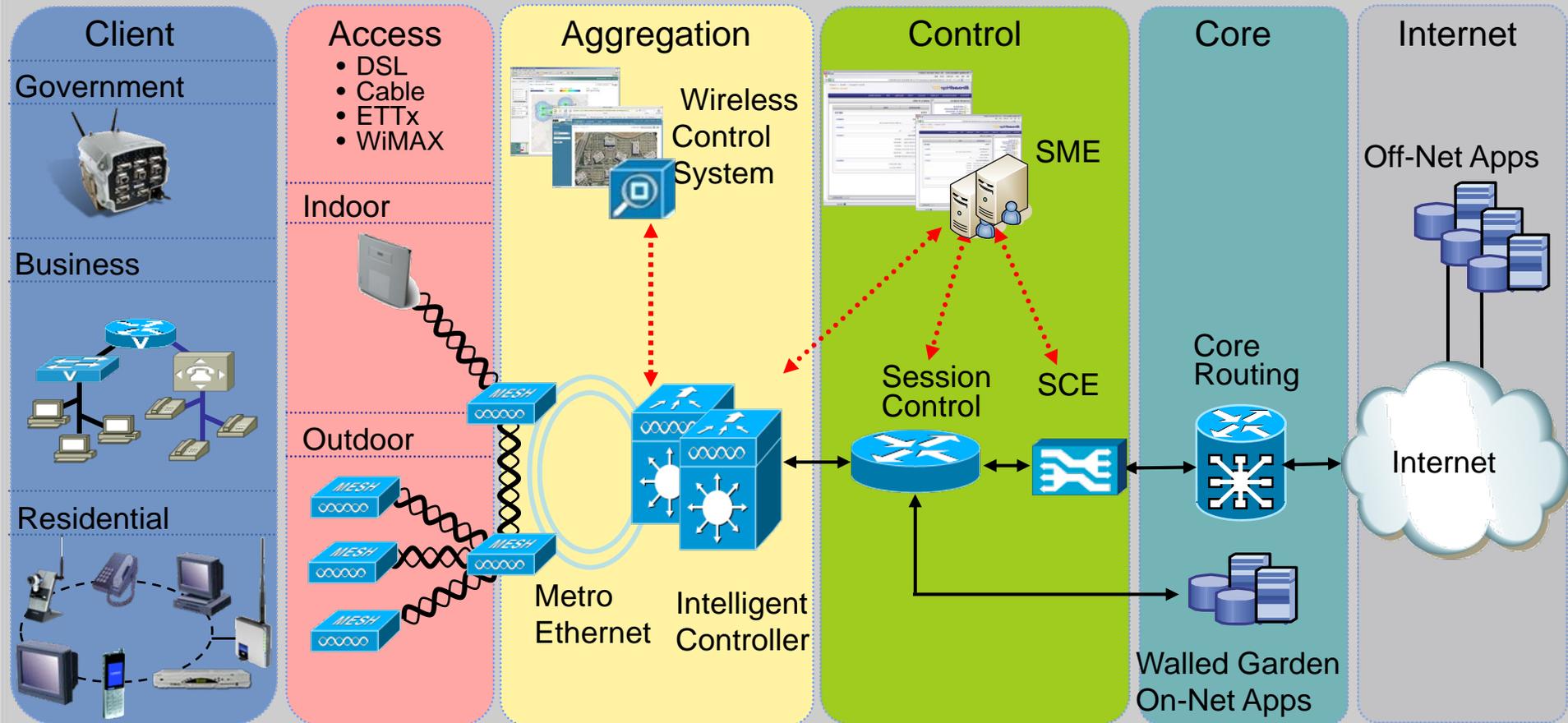
- IEEE 802.11i, WPA, and WPA2 secure authentication
- Advanced Encryption Standard (AES) encryption
- Intrusion detection and network access control protects both infrastructure and customers
- Dynamic WLAN VLAN assignments enable multiple security levels for customers



Integrated security protects both service providers and their customers



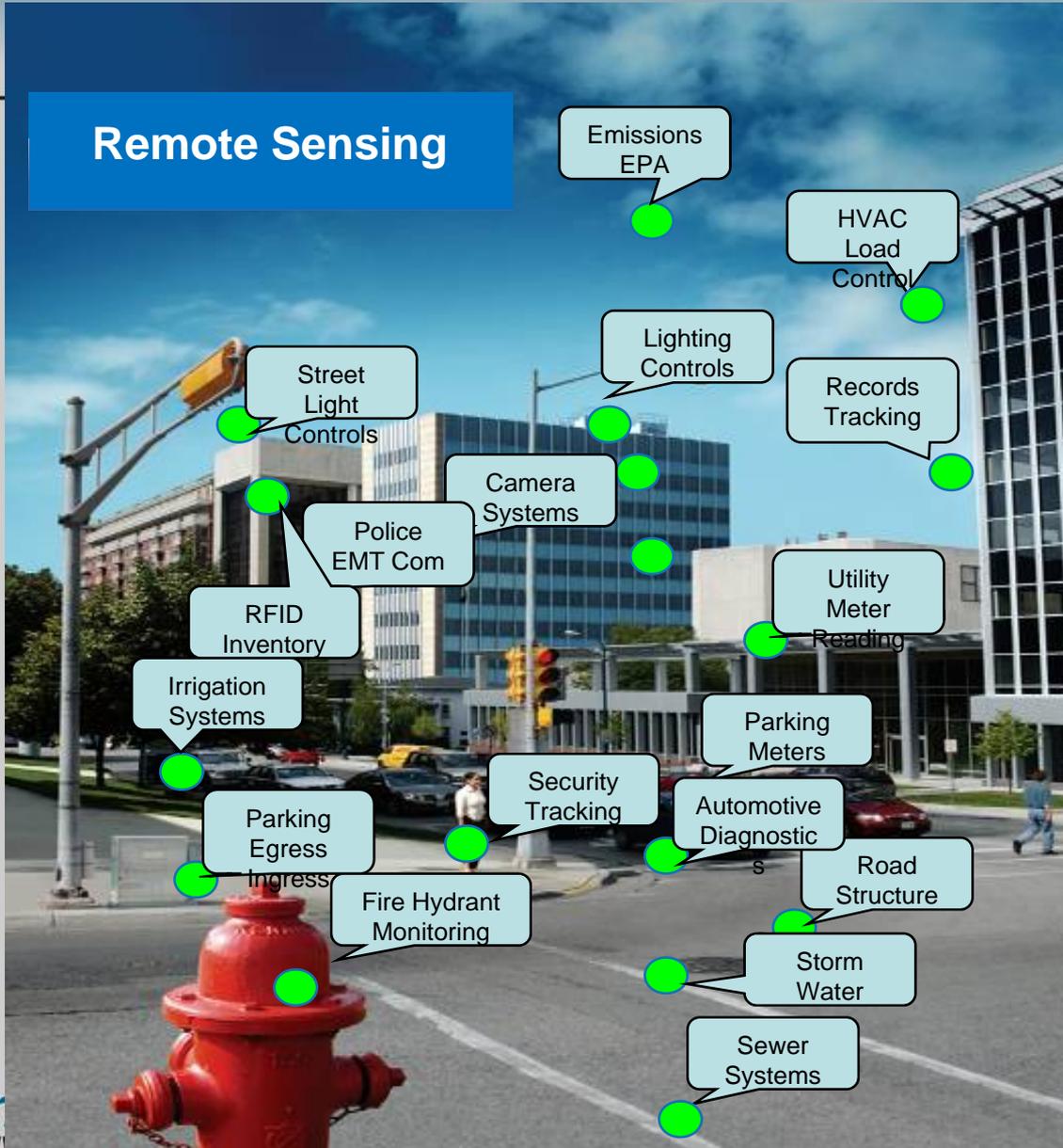
Wireless Broadband Access Technologies





An "Internet of Things"

Remote Sensing



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