

# **IP Core Network Realization**

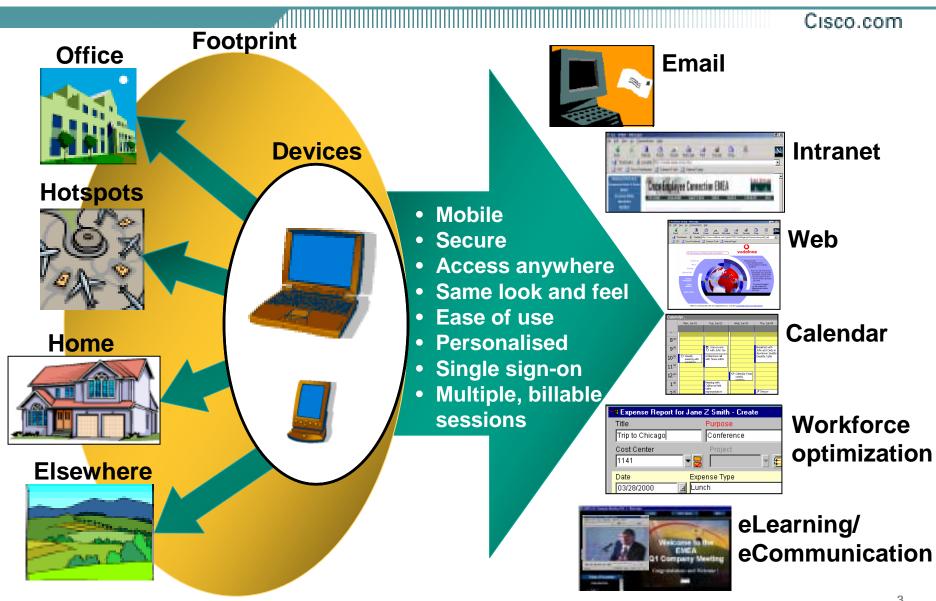
**Ruben Montoya** 

**Technical Marketing Engineering** 

**Mobile Wireless Group** 

- Introduction
- Major Driving Forces
- Industry Migration to all IP
- IP Core Key Elements
- Summary

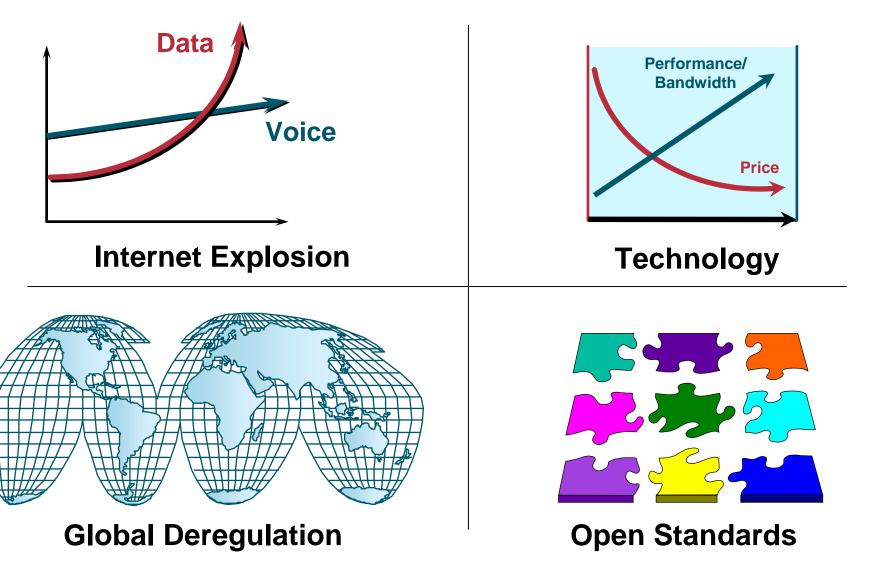
## **Office Unwired**



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### **Major Market Forces**



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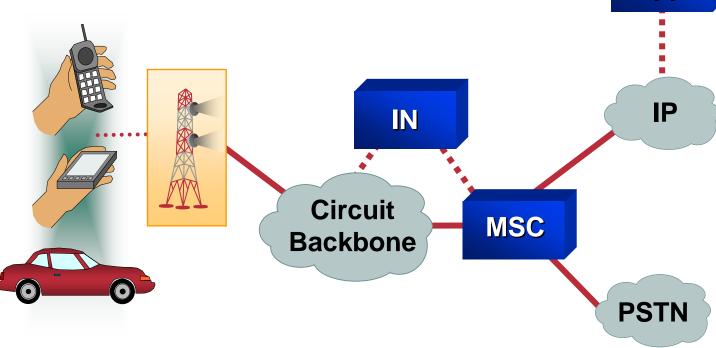
### **Wireless Architecture Today**

Cisco.com

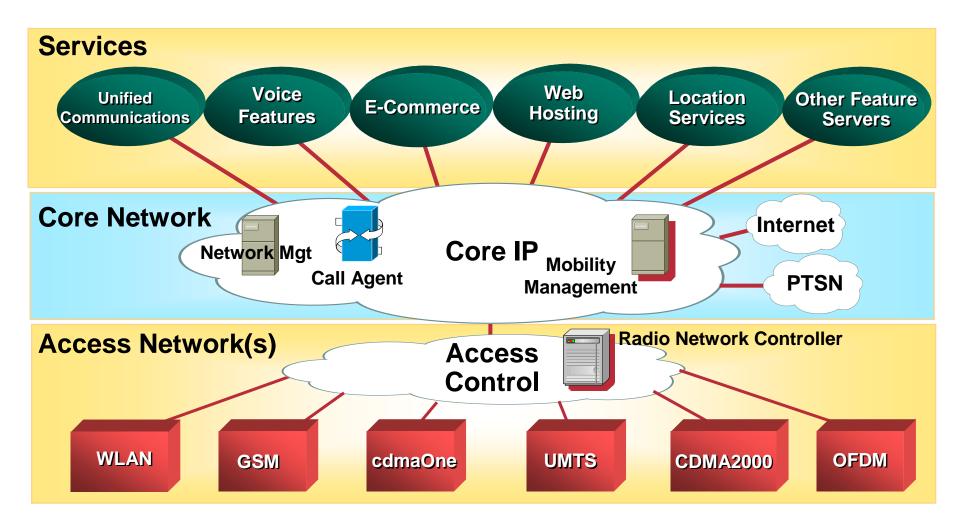
Hosted

App.

- Services specific to equipment supplier
- Hierarchical
- Bottlenecks
- Inefficient use of bandwidth

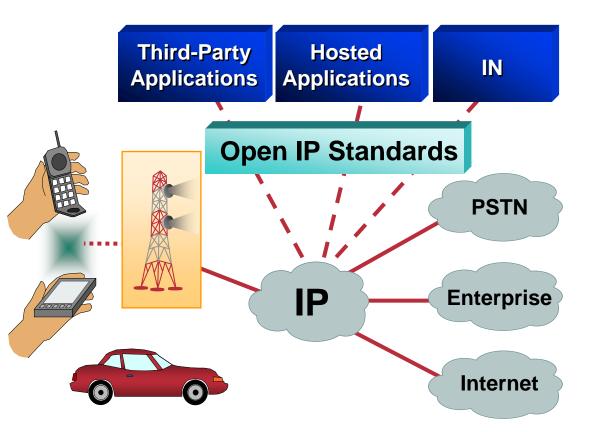


### **Common IP Architecture**



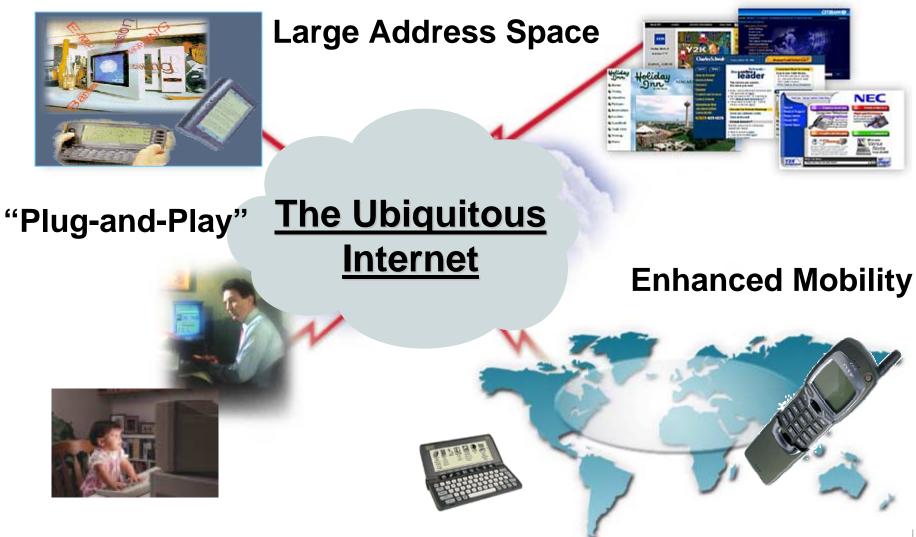
### **Wireless Internet Architecture**

- Distributed
- Service and transport independence
- Services ecosystem
- Bandwidth efficient
- Options for integrated services



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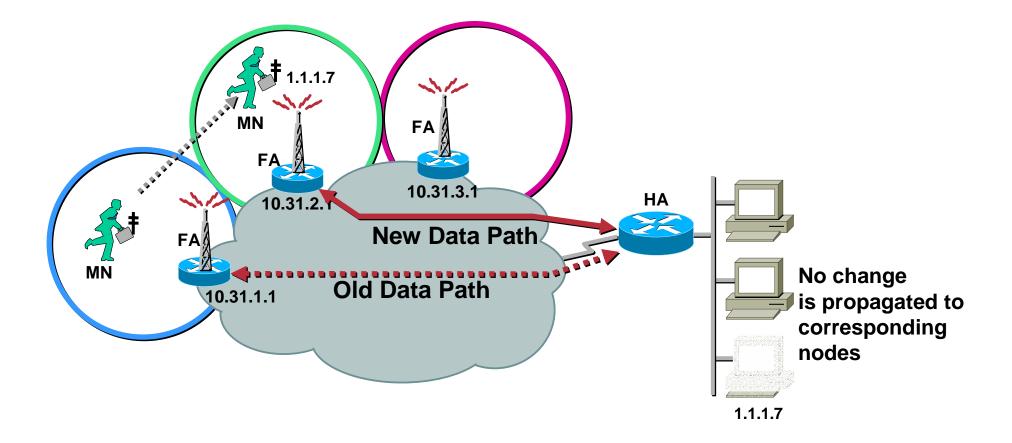
### The Benefits of Integrating IPv6



## **Explosion of New Internet Appliances**



# **Mobility using Mobile IP**



### The movement is transparent to all other devices

## **IP Core QoS Architecture**

 No state
 Aggregated
 Per-flow state

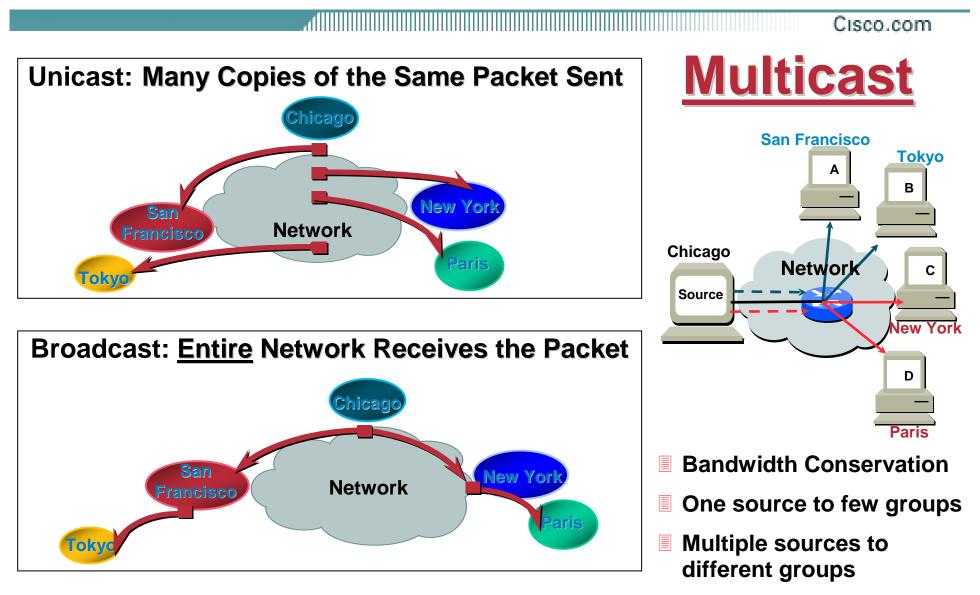
 + +
 +
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 Best effort
 Diffserv
 RSVP v1/

 IntServ
 IntServ

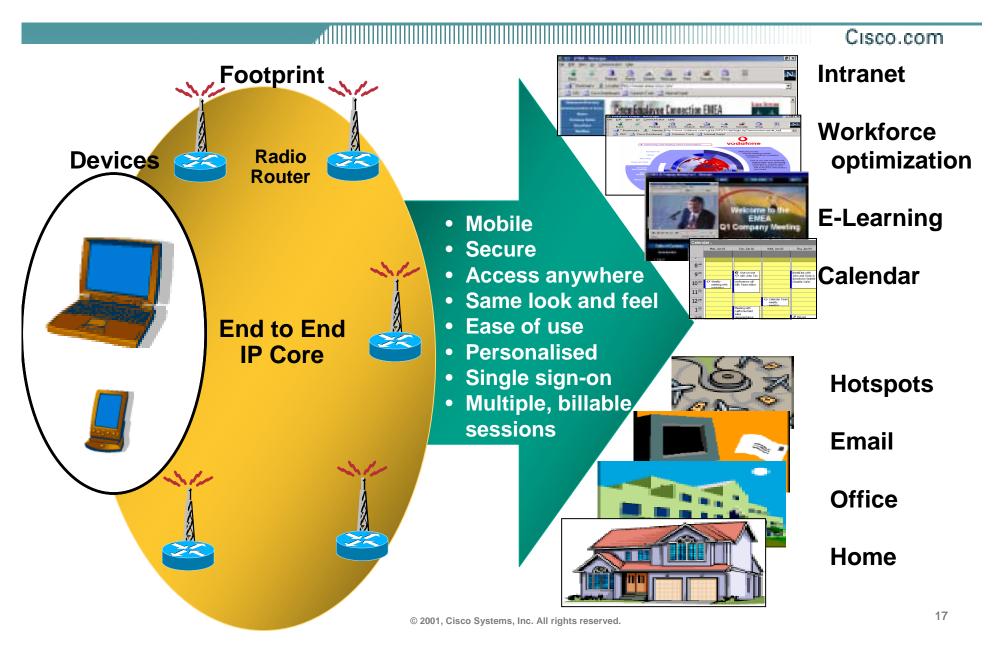
- Classification
- Marking
- Policing and Shaping
- Scheduling
- Congestion Avoidance

### **Multicast Services Are Efficient**



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### **Office Unwired – New World Operator**



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