

IP Core Network Realization

Ruben Montoya
Technical Marketing Engineering
Mobile Wireless Group

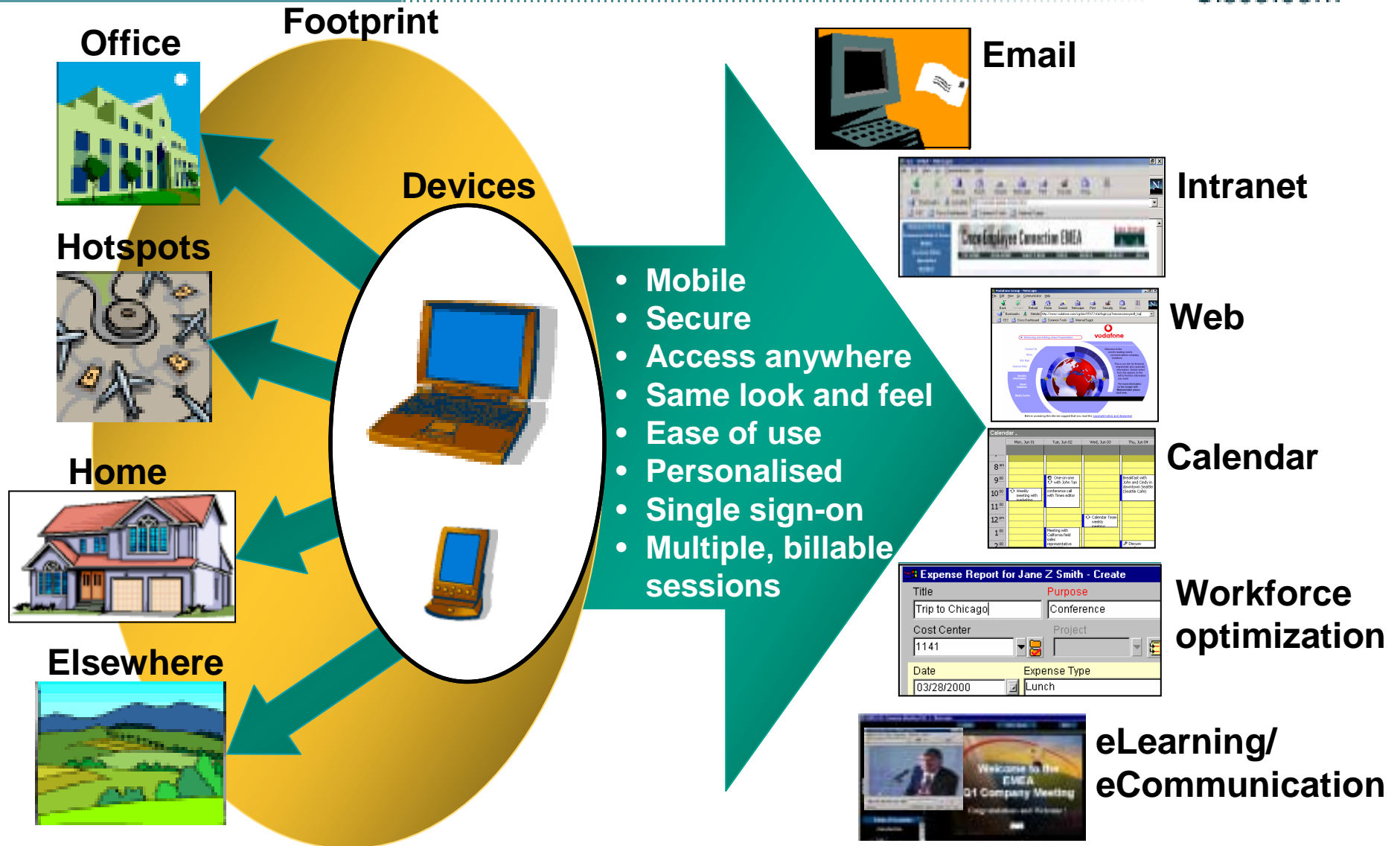
IP Core Network Realization - Agenda

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

Office Unwired

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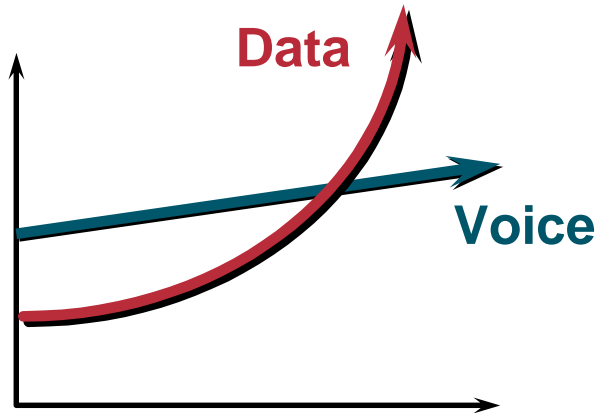
IP Core Network Realization - Agenda

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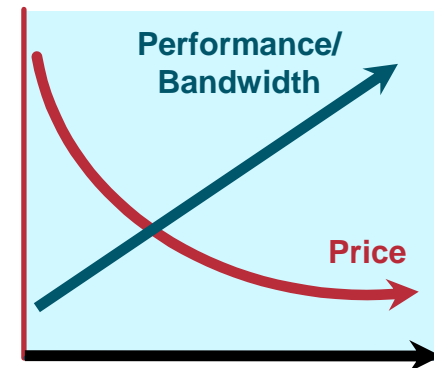
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Major Market Forces

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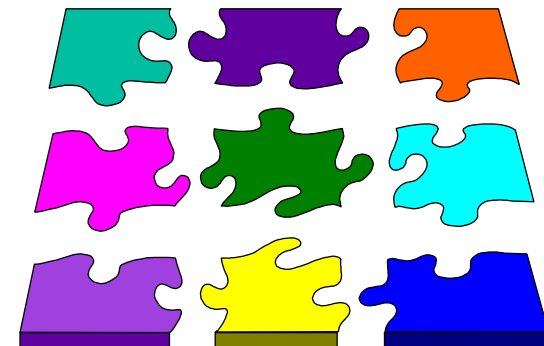
Internet Explosion



Technology



Global Deregulation



Open Standards

IP Core Network Realization - Agenda

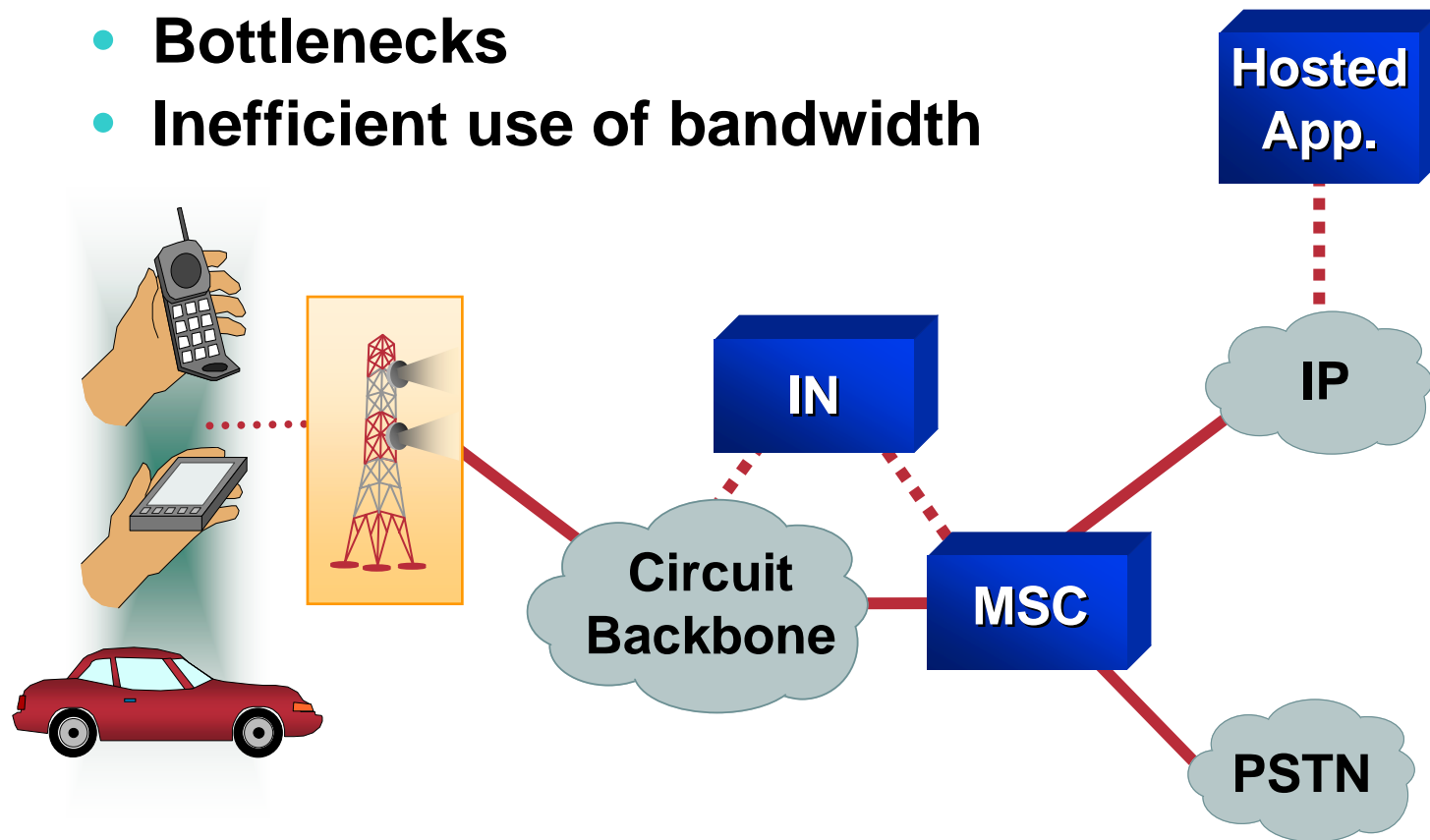
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Wireless Architecture Today

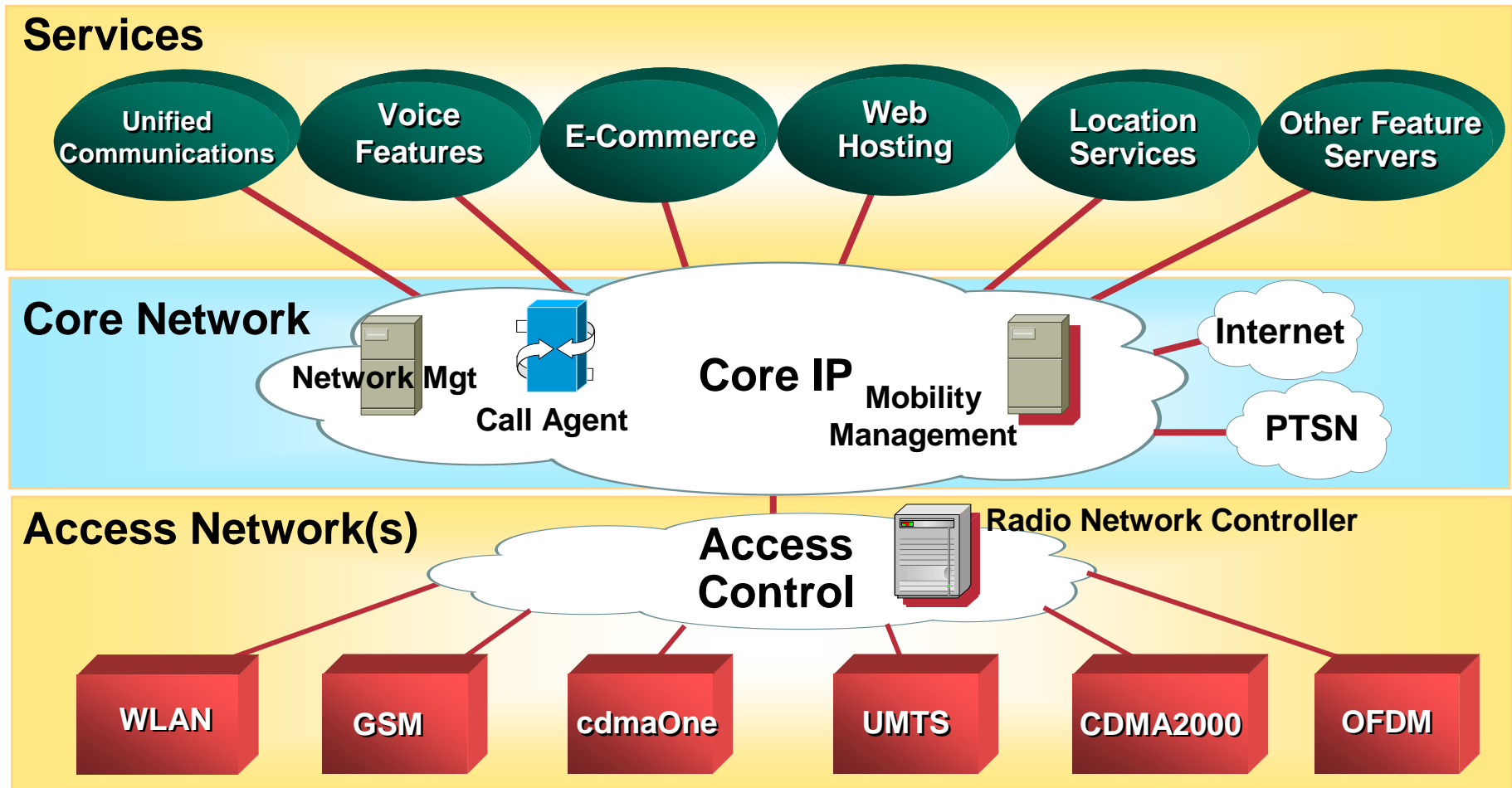
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- Services specific to equipment supplier
- Hierarchical
- Bottlenecks
- Inefficient use of bandwidth



Common IP Architecture

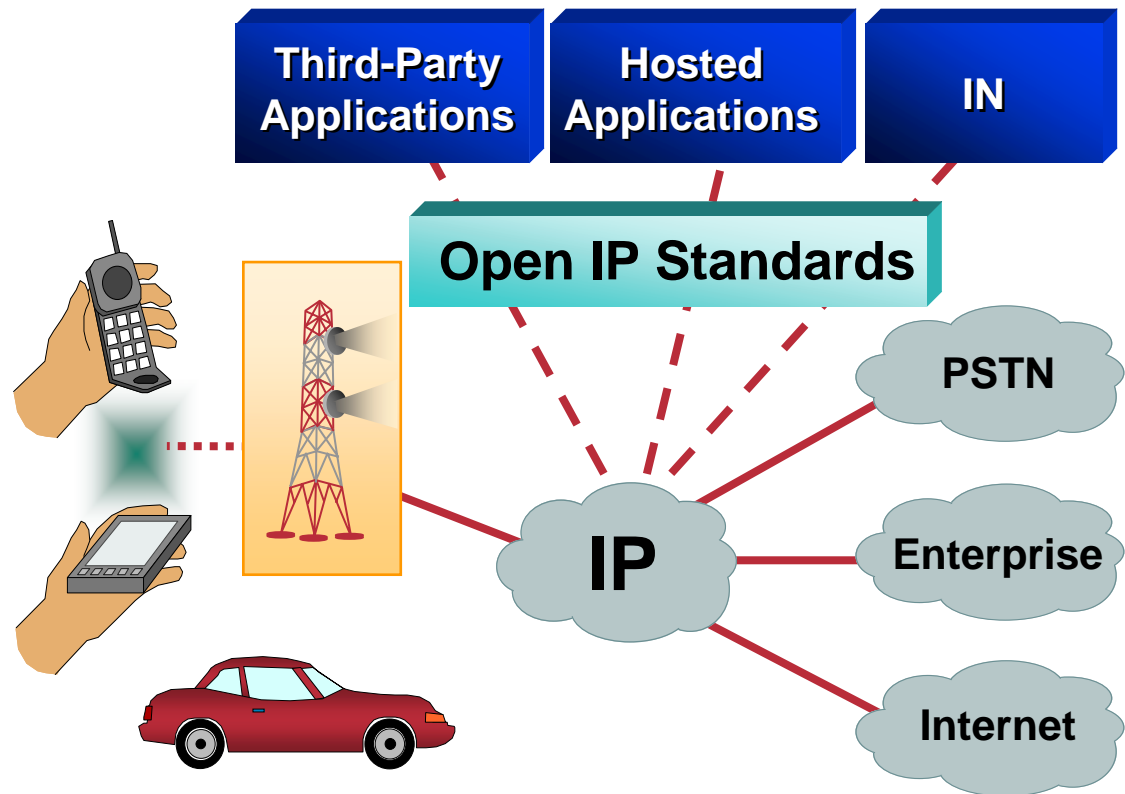
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Wireless Internet Architecture

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



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The Benefits of Integrating IPv6

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Large Address Space



“Plug-and-Play”

The Ubiquitous Internet

Enhanced Mobility



Explosion of New Internet Appliances

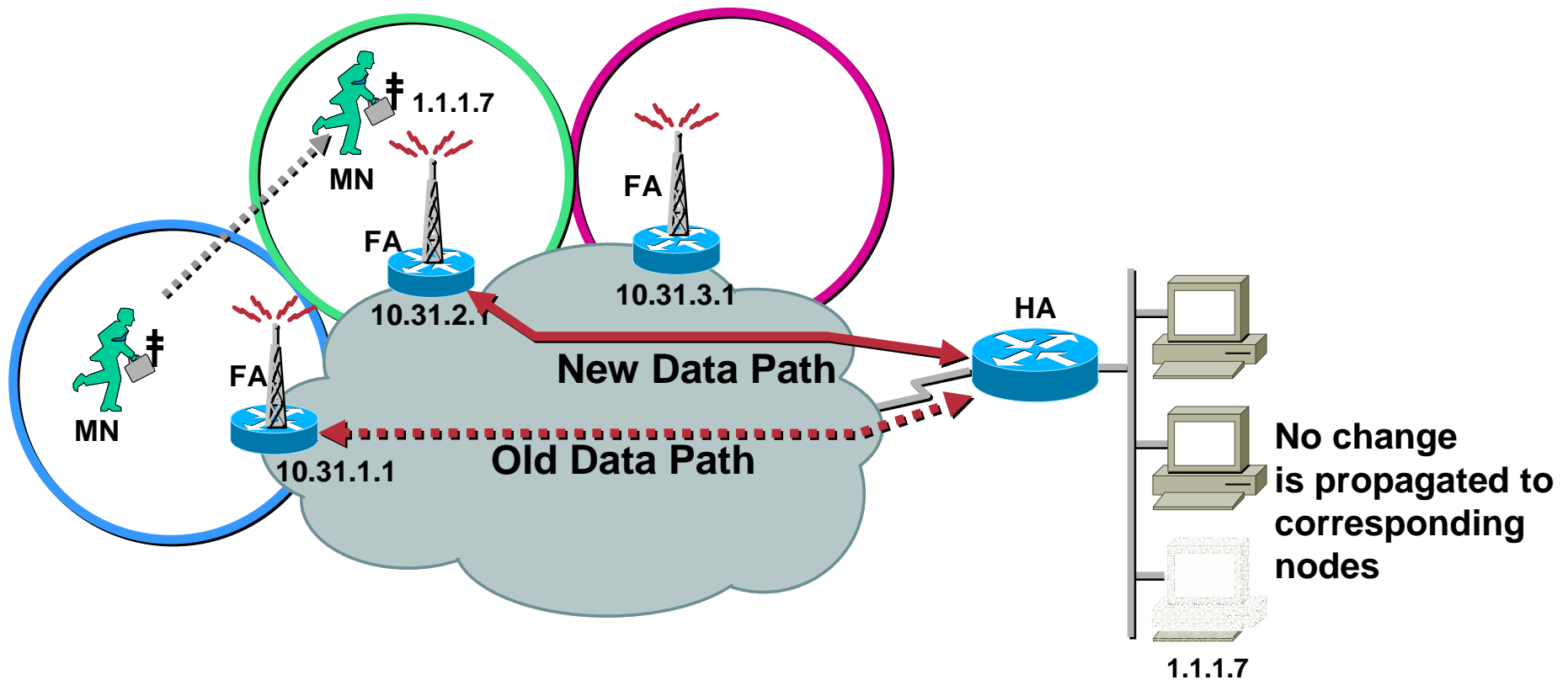
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Mobility using Mobile IP

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The movement is transparent to all other devices

IP Core QoS Architecture

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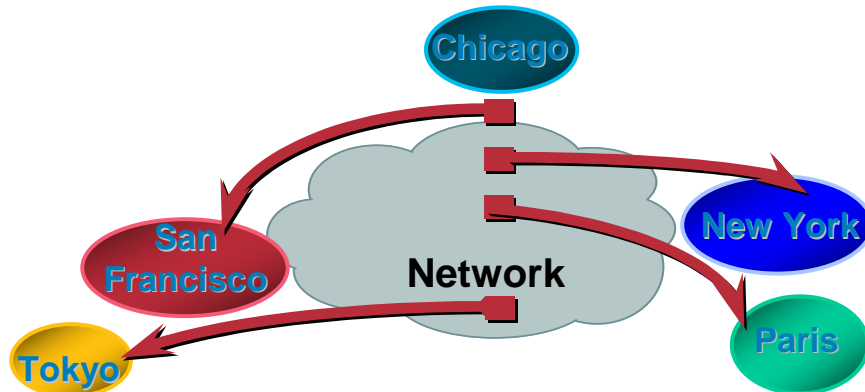


- **Classification**
- **Marking**
- **Policing and Shaping**
- **Scheduling**
- **Congestion Avoidance**

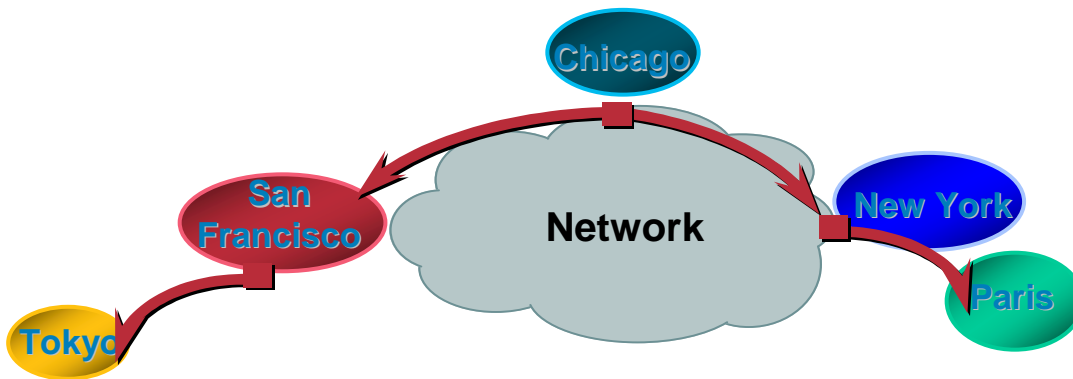
Multicast Services Are Efficient

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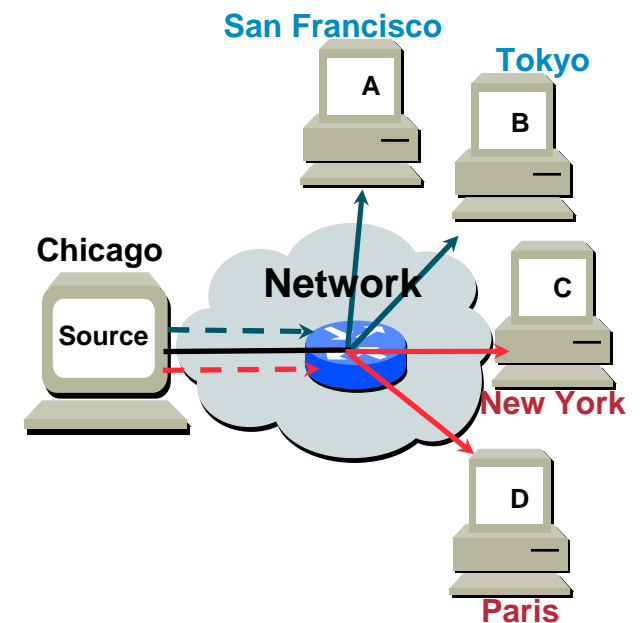
Unicast: Many Copies of the Same Packet Sent



Broadcast: Entire Network Receives the Packet



Multicast



- Bandwidth Conservation
- One source to few groups
- Multiple sources to different groups

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- **IP Core Requirements**
- **Summary**

Office Unwired – New World Operator

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