



Packet Telephony Industry Status

Cisco Systems

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VoX Deployment in Asia

- SingTel
- Concert GCH
- ITXC
- Thailand TOT
- Thailand CAT
- Japan NTT
- Japan TeleMatrix (J)
- Malaysia Mimos
- Taiwan CHT
- Japan Fusion Comm
- HK NWT
- Vietnam VNPT/VDC
- Vietnam VTI
- Korea Hanaro
- China Unicom
- Ji Tong
- China Netcom
- China Mobile
- China Telecom
- Indonesia PT. Telecom
- GRIC
- Philippine PLDT

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VoX Deployment in Europe

- **Atlanet**
- **Colt**
- **Telecom Italia**
- **Equant**
- **Tele2**
- **Sunrise**
- **Tiscali**
- **Telia**
- **Panafon**

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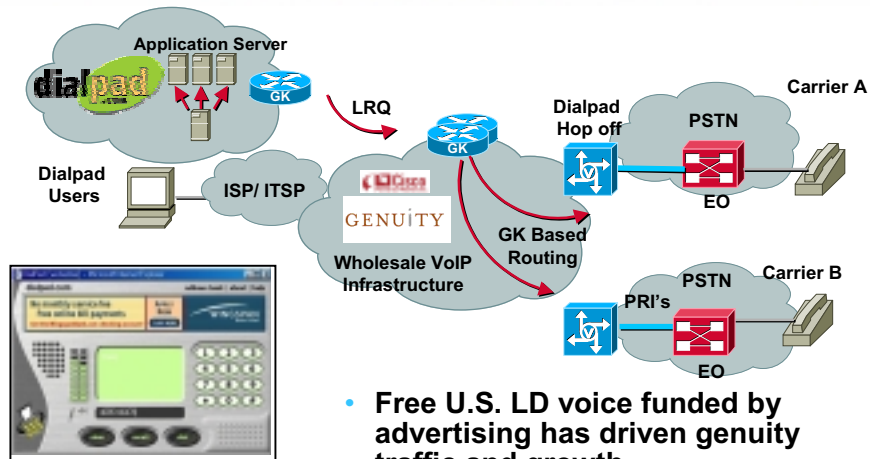
VoX in America

- **iBasis**
- **Genuity**
- **ITXC**
- **CNS**
- **Qwest**
- **Talking Net**
- **Level 3**
- **Voice Stream**
- **Cbeyond**
- **NetVoice**
- **CTC**
- **I-Next**
- **Ping Tone**
- **VoiceNet**
- **DataVon**
- **WorldCom**

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Case Study #1—Genuity Hosting for Dialpad.com



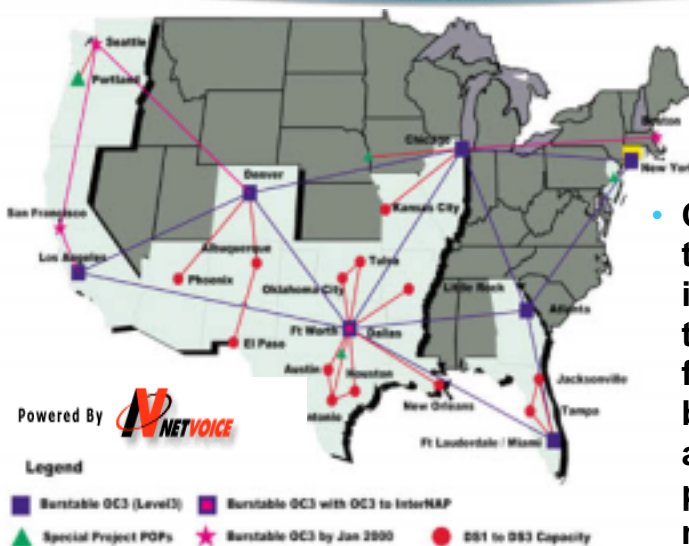
- Free U.S. LD voice funded by advertising has driven genuity traffic and growth
- Announced as CPN in June 2000

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Case Study #2—NetVoice Aggregation and Resale



Powered By **NETVOICE**

Legend

- Burstable OC3 (Level 3)
- Burstable OC3 with OC3 to InterNAP
- ▲ Special Project POPs
- ★ Burstable OC3 by Jan 2000
- DS1 to DS3 Capacity

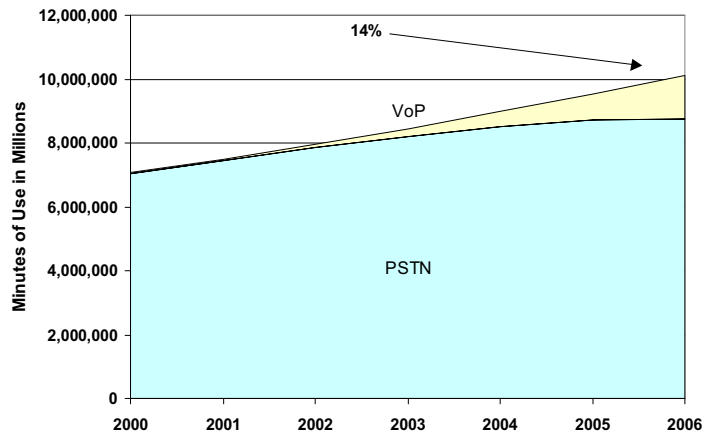
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- Collecting traffic for international transport from IXC's to build traffic, adding pre-paid, UC for margins

Packet Telephony Minutes Growing



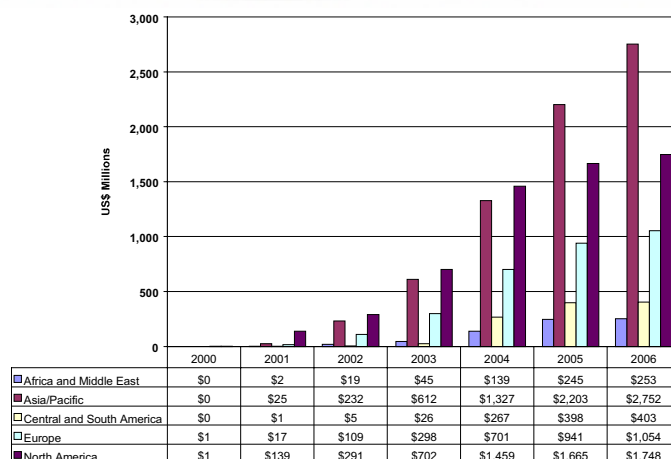
Source: Probe Research, Inc.

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Packet Telephony Enters Local Access Arena

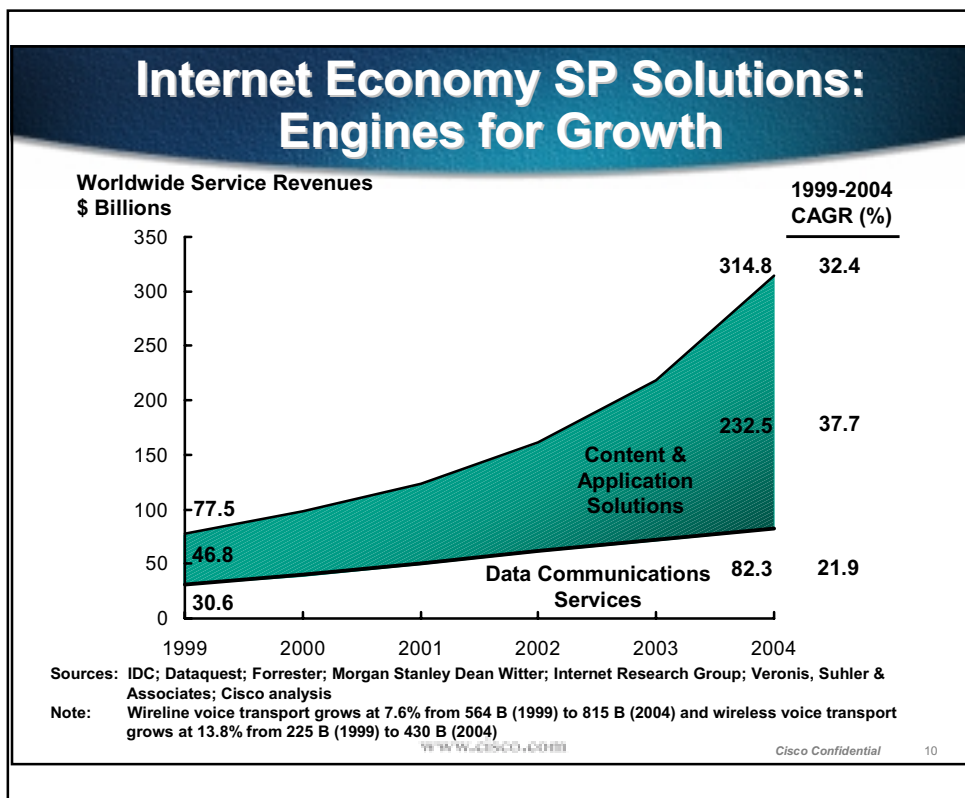
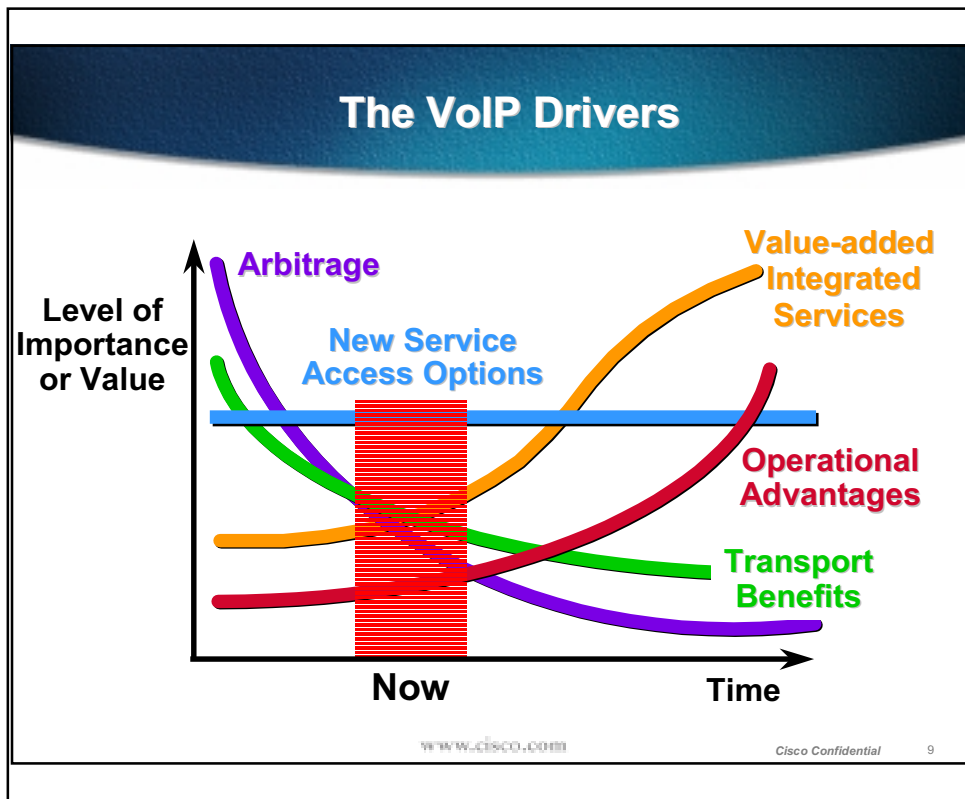


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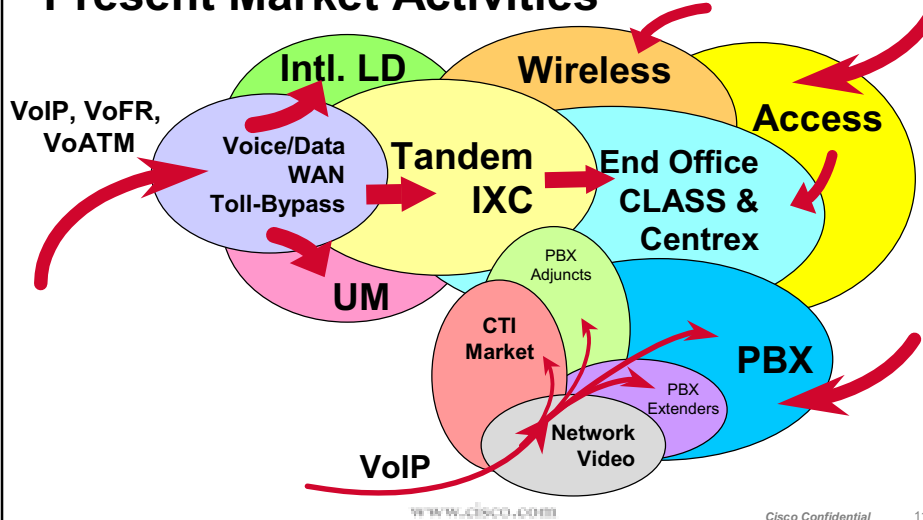
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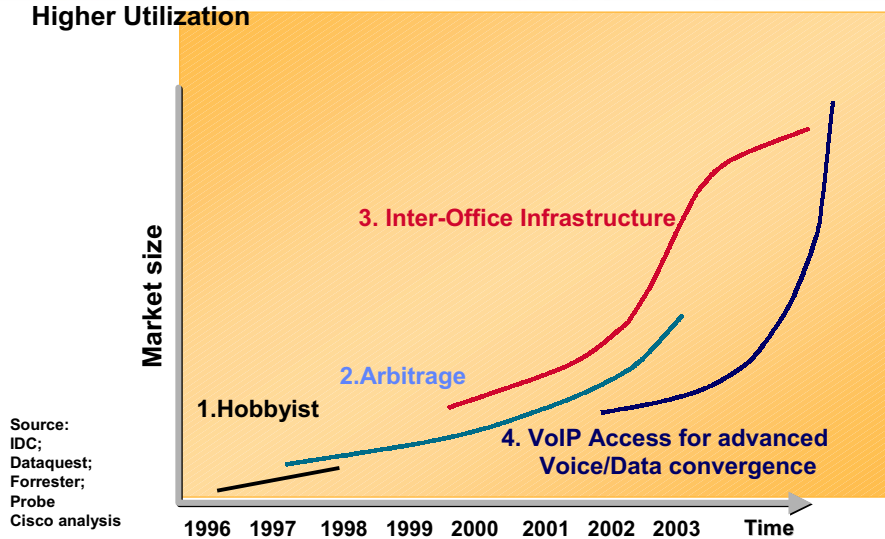
Market Dynamics 2001

• Present Market Activities



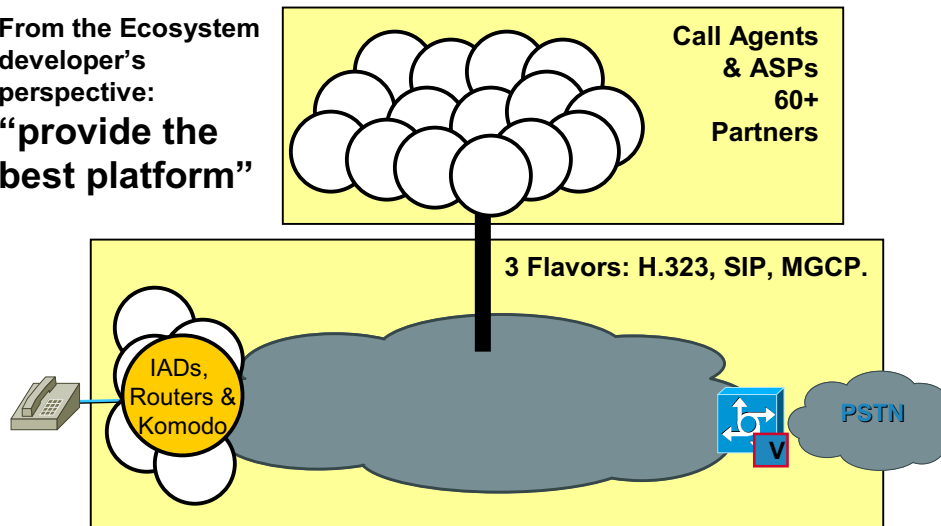
Market Status and Projection

Higher Utilization



Provide Standard Infrastructure

From the Ecosystem
developer's
perspective:
"provide the
best platform"

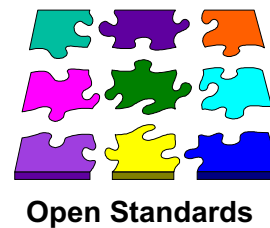
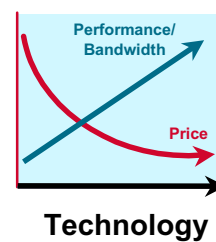
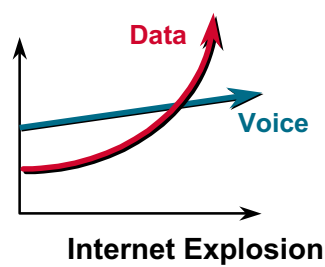


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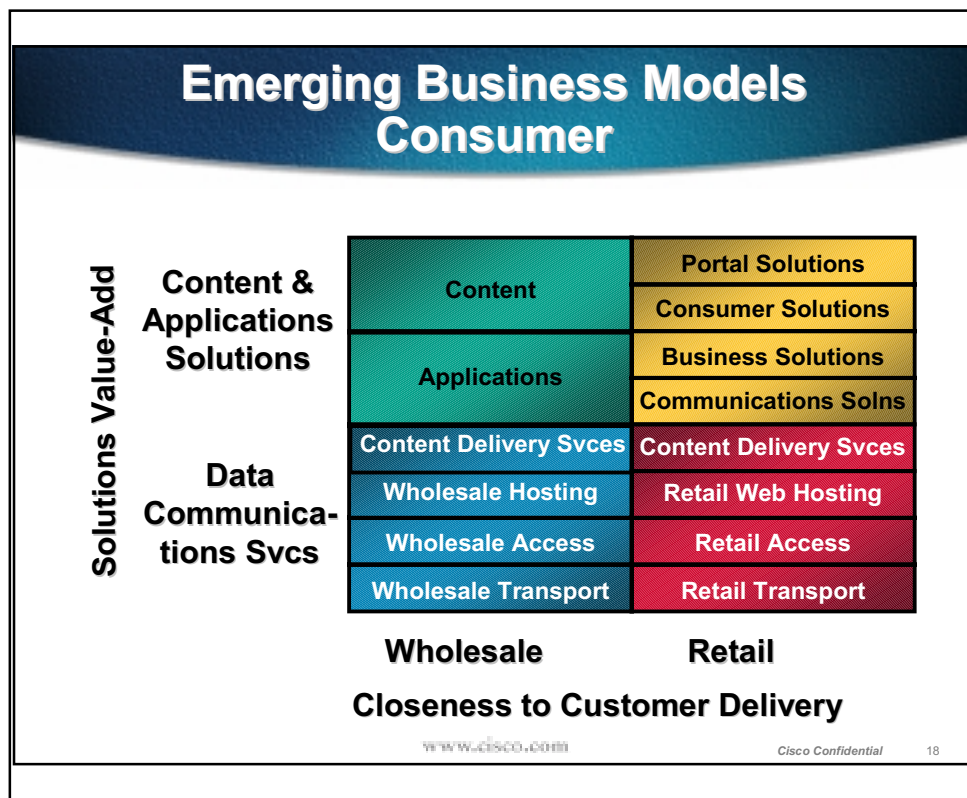
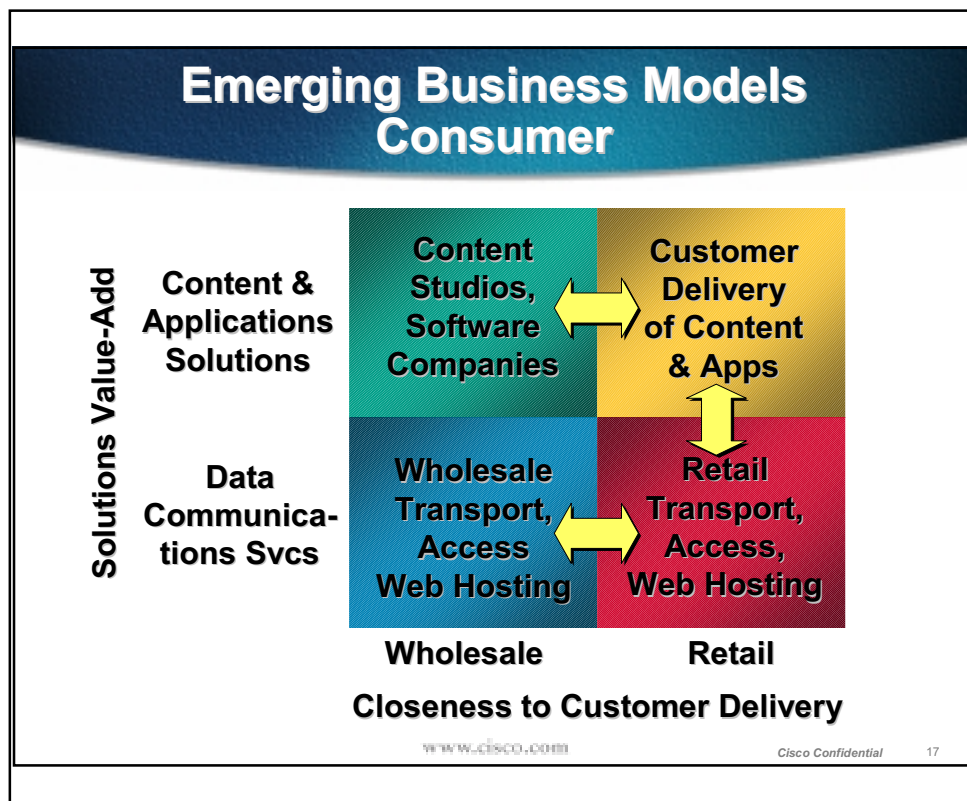
Major Market Forces

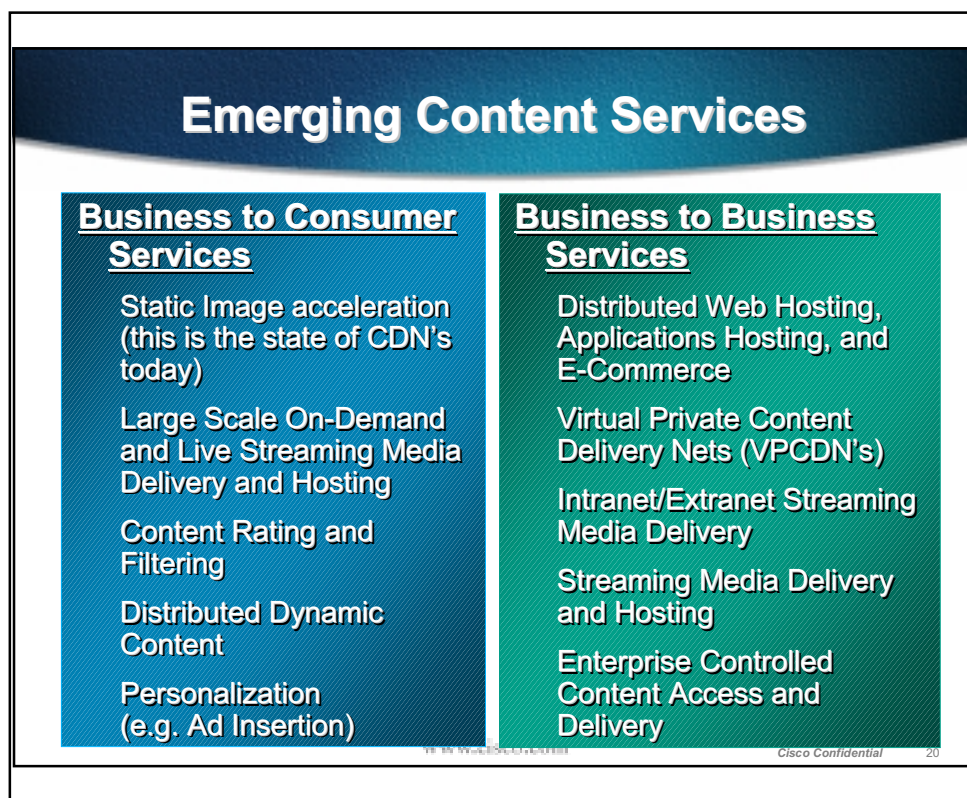
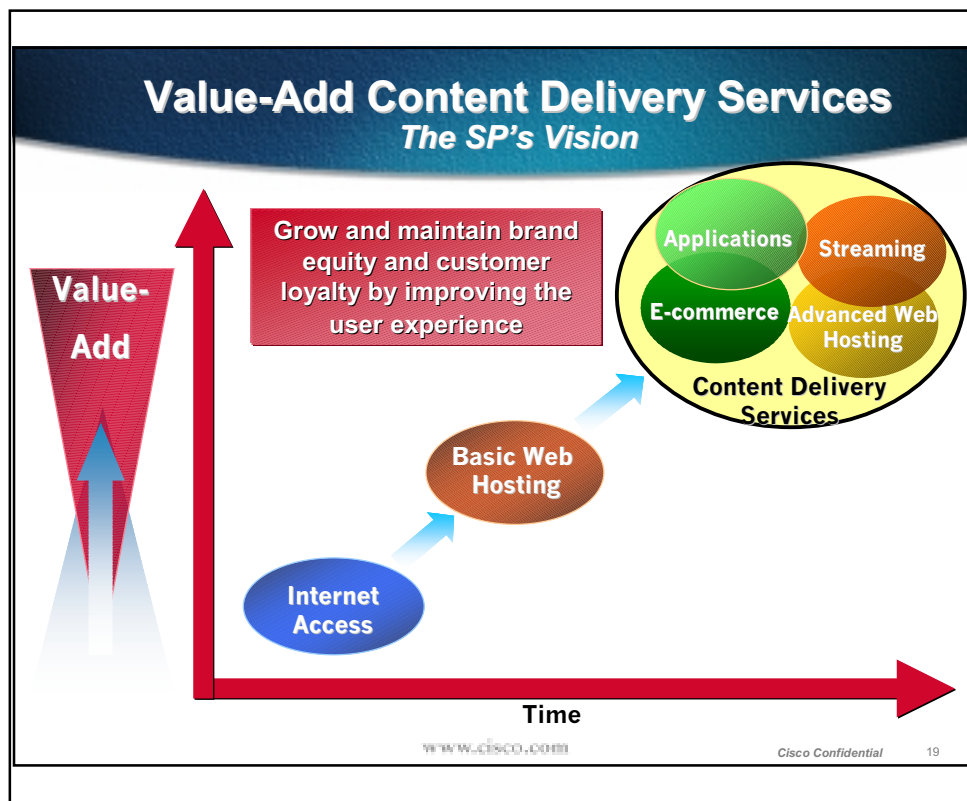


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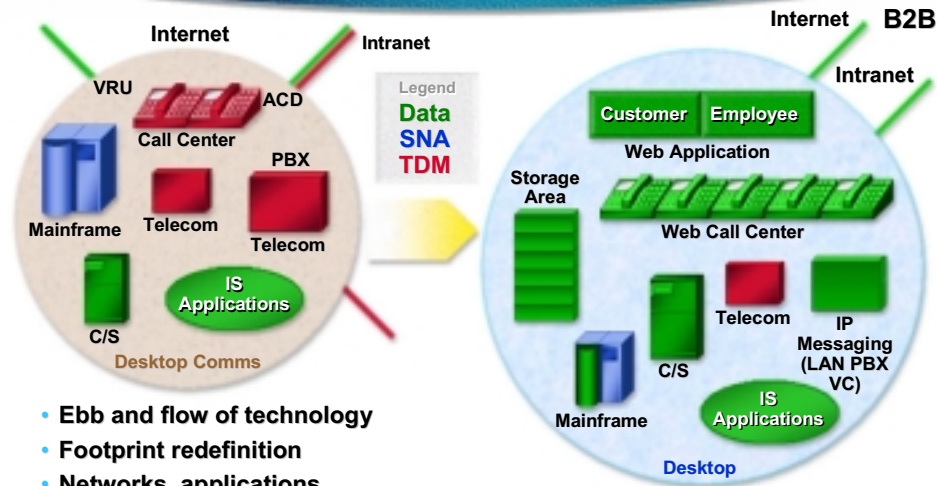
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Enterprise Evolution



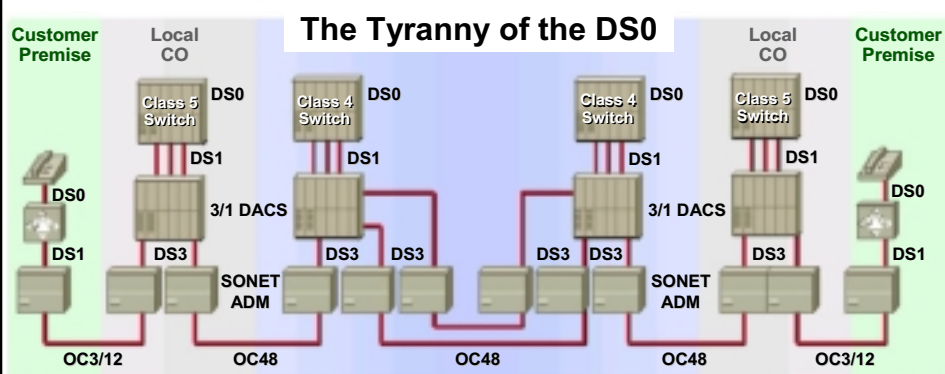
- Ebb and flow of technology
- Footprint redefinition
- Networks, applications
- Tighter coupling between apps running in service provider and enterprise
- Applications dealing with both voice and data in a unified way

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Service Provider History

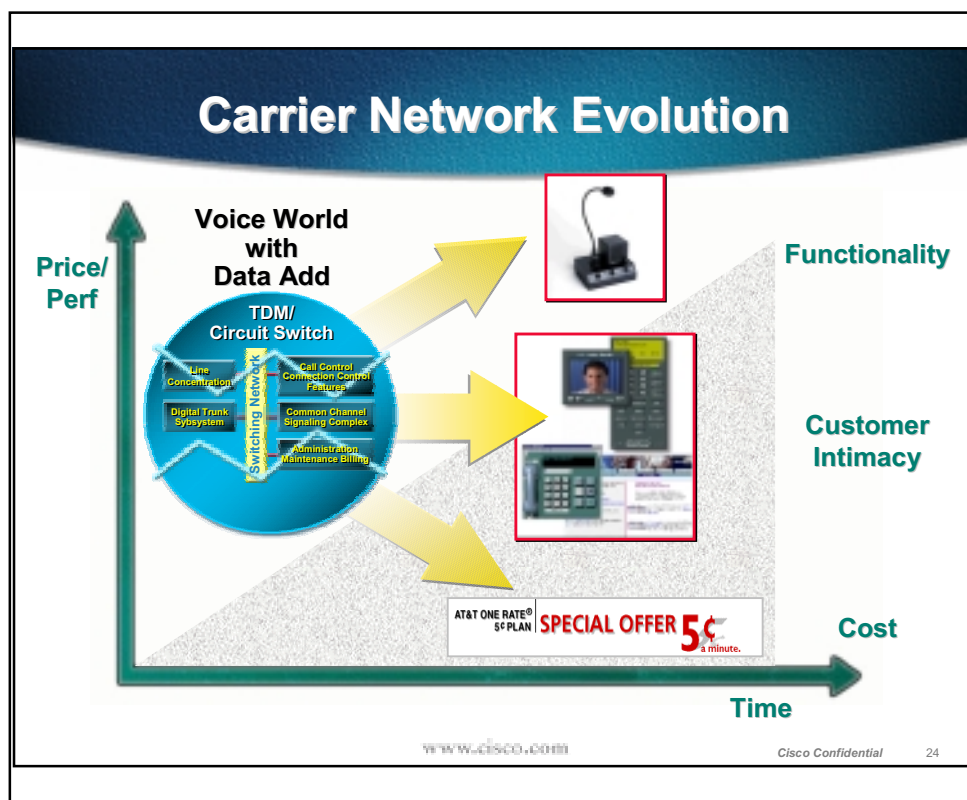
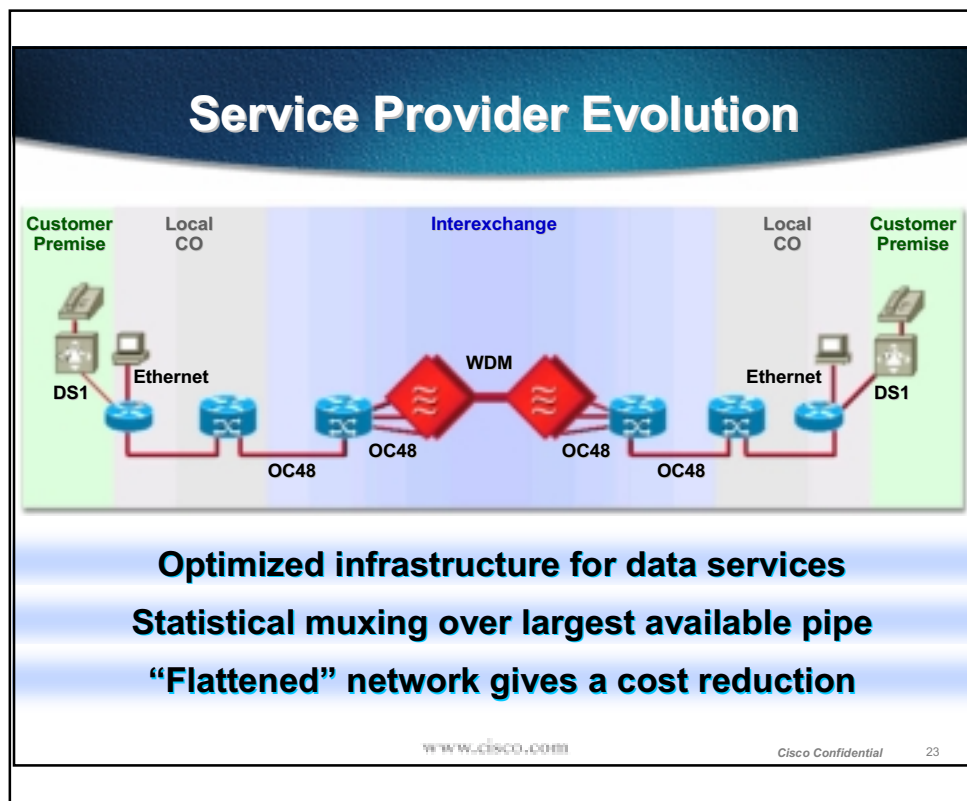


Rigid structure yields high cost per bit
High capital cost disfavors new investment

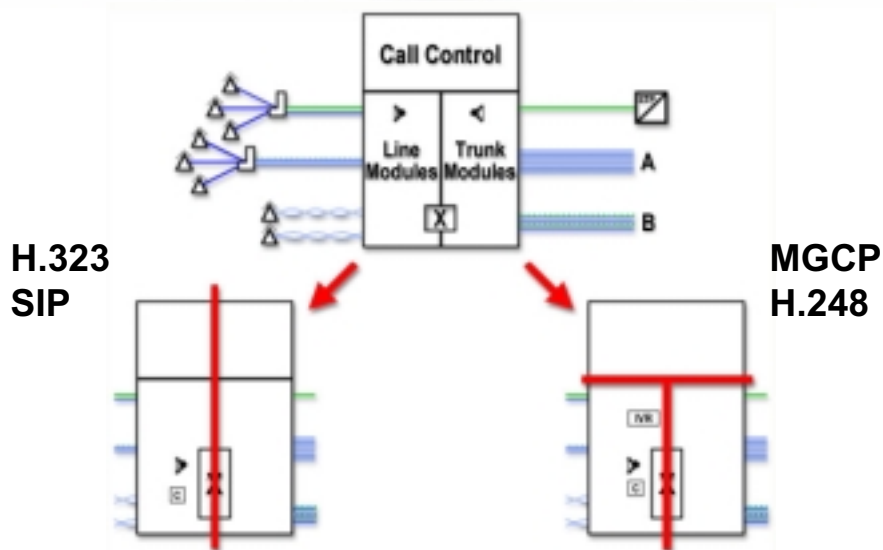
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Multiple Control Models



Summary

