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Conversations

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Changing Business Models, Panel Discussion

Pathnet
Concentric
ARC





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Changing Business Models, Panel Discussion

Gerry Sharp

CTO, Pathnet



Agenda

- “Emerging Packet Based Inter-Exchange Carrier” Definition
- Services offered- Changing the Wholesale Business
- Economics of the Model
- Essential Architecture – Cisco Powered Network
- Pathnet Partnership benefits



Pathnet's New World



The first national *Wholesale Convergent Communications Services Provider* serving high growth segments in underserved markets

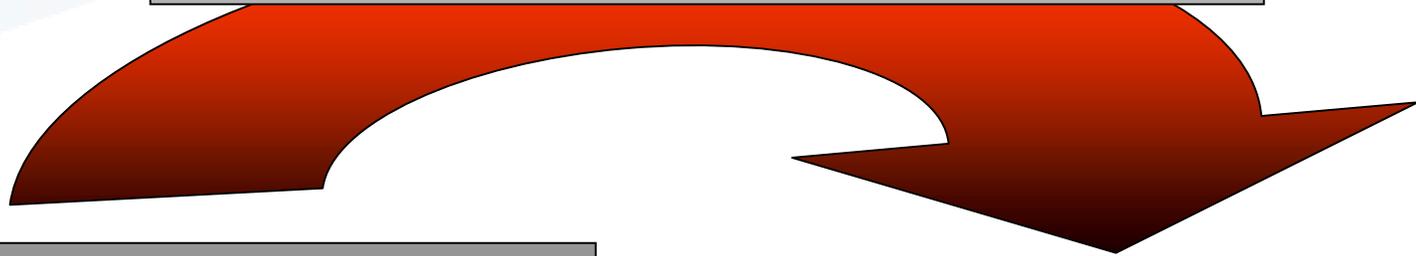
- Building Backbone Since 1995
- Target market segment ISP wanting to be to CLEC's and CLEC wanting Internet services
- Enables partner to avoid CLEC regulator hurdles
- Why Pathnet....why now?
 - Customers need critical mass in customers, breadth of product and geographic reach
 - Customers need a national alternative to traditional suppliers and “doing it yourself”



Pathnet Partnership benefits



- Extend your Footprint**
- Reduce your Capital/Recurring Cost**
- Add Convergent Services**



No longer a required focus

Reduce Telecommunication reoccurring expenses
Acquiring Direct Local Loop Access
Getting UNE transport Access price points
Deploying a DWDM Optical Backbone Connectivity
Number Plan administration
Network surveillance

Now you can focus on:

Acquiring new customers
Adding more products/services
Reduce existing dial Pops
Rapid Increase in market coverage
Leverage lower cost backbone technology
Futures such as VOIP for Local and LD

The logo for pathnet, featuring the word "pathnet" in a lowercase, sans-serif font. The letters "a" and "e" have a blue shadow effect beneath them, suggesting a path or network.

“Packet Based Inter-Exchange Carrier”

Newton’s definition: A telephone company that is allowed to provide long-distance telephone service between LATA’s but not within any one LATA

A New Carrier Model Offering Local and Long Distance Packet Based Voice Call routing Services (including 911/ Operator Services, LNP, Number Administration, etc.) combined with Virtual Private Networking, Internet Access, Video Conferencing, IP Minutes of Use Exchange Access for long distance delivery, Unified Messaging and advance IN features.

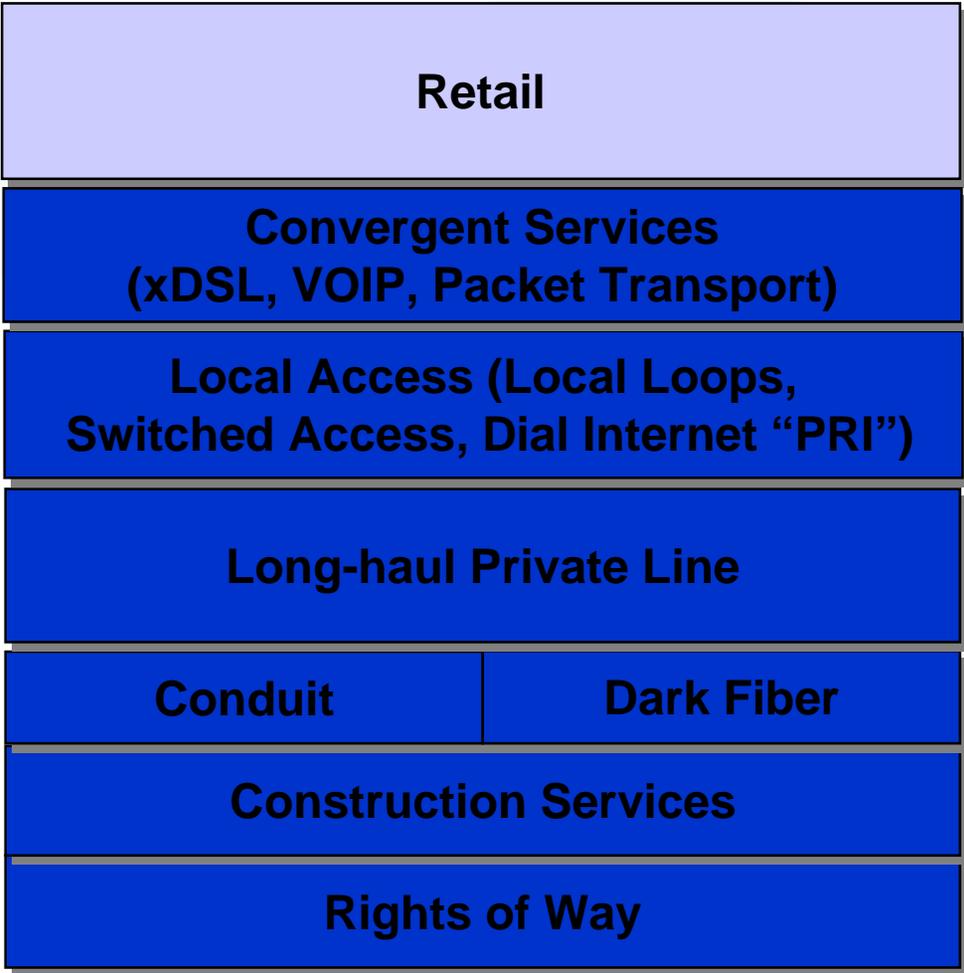
Products



Wholesale Products Value Stack



- Virtual Access
- Virtual Backbone
- Voice over IP



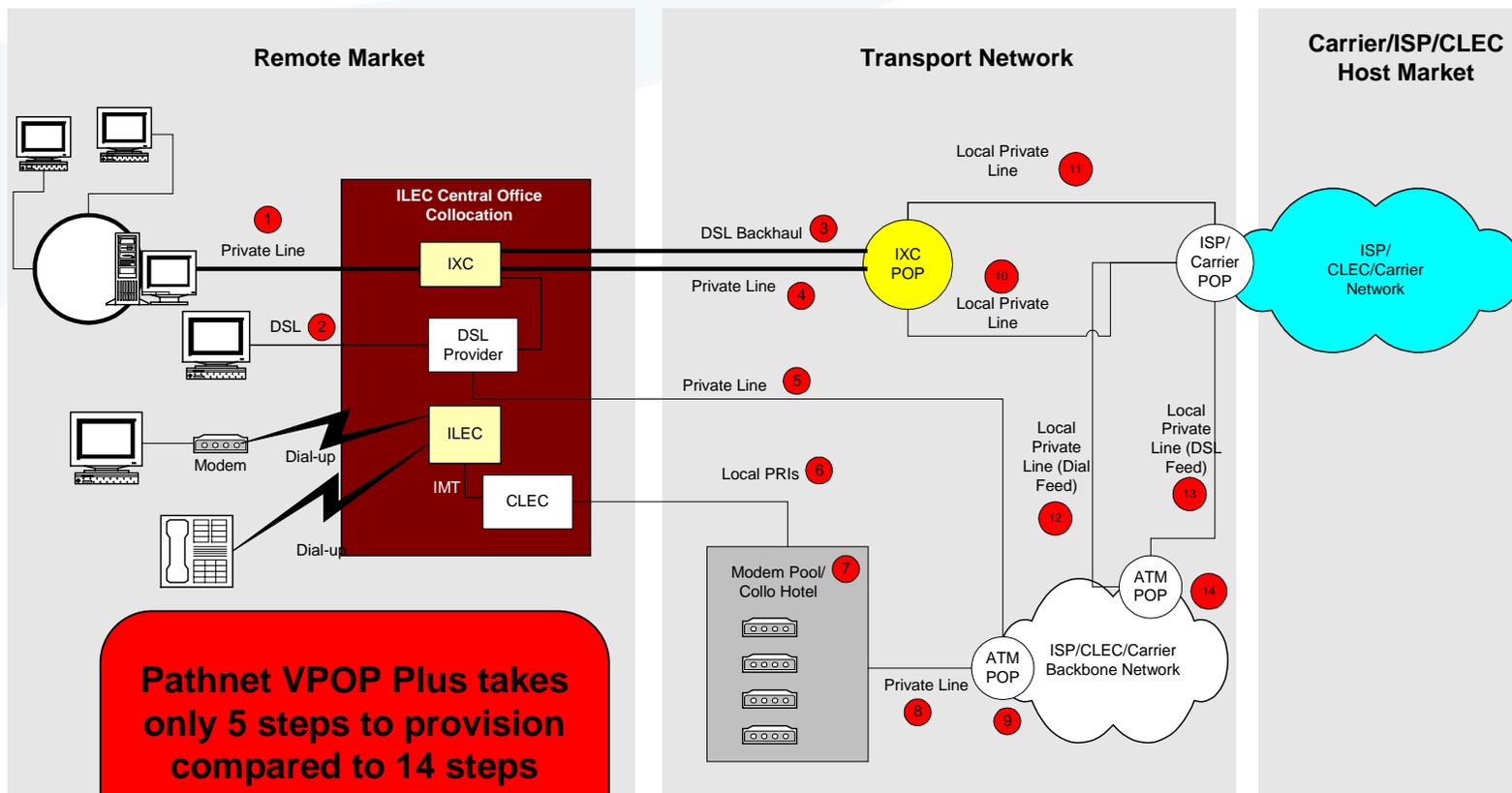
Traditional DLEC Products

Traditional CLEC Products

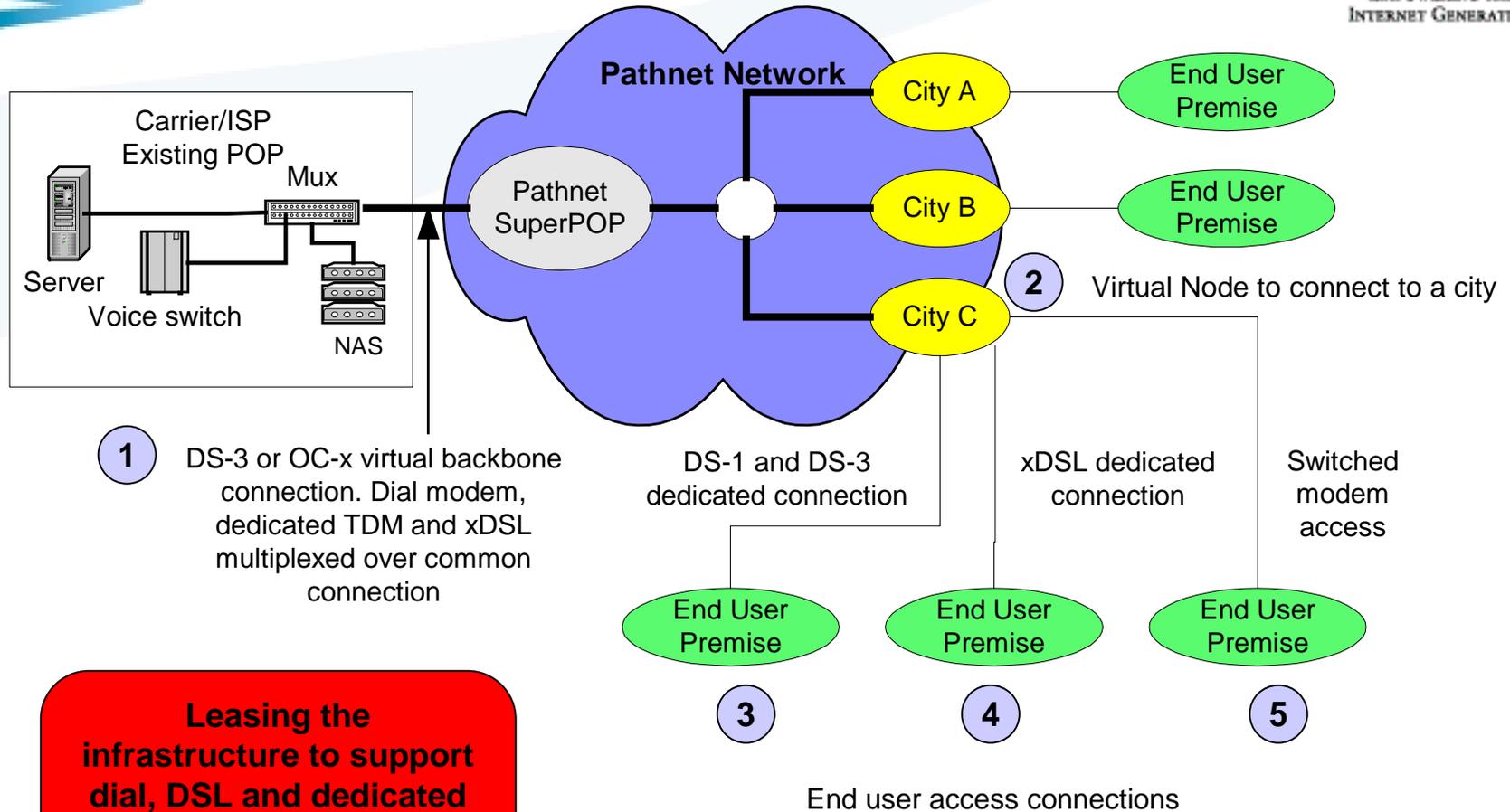
Traditional Long Haul Products

Old World Alternative

Traditional Network Service Architecture



VPOP Plus is Simple and Easy to Provision...

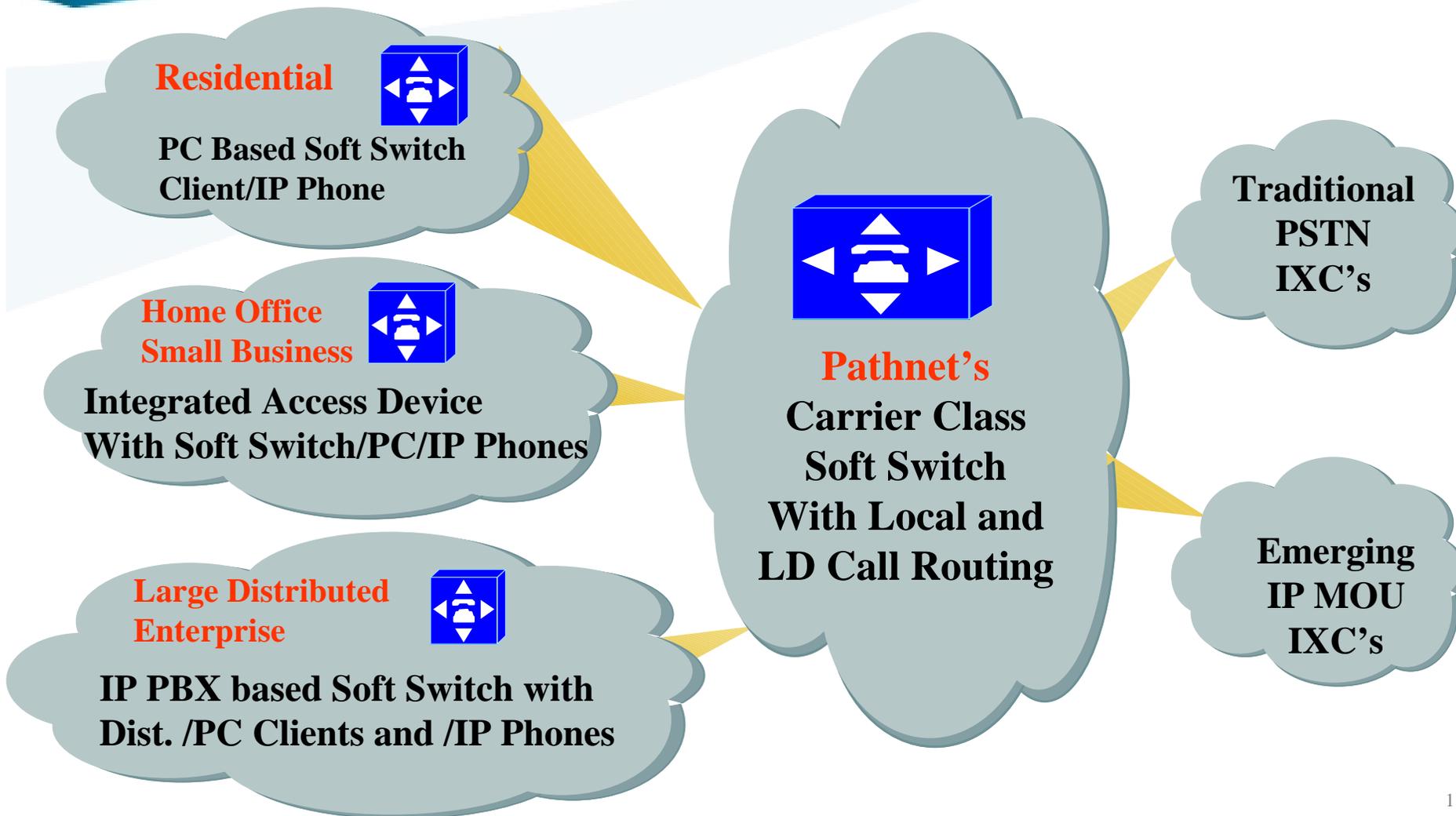


Leasing the infrastructure to support dial, DSL and dedicated access takes only 5 steps with VPOP Plus vs. 14 with traditional providers

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Distributed Soft Switches

(The "PSTN world" is now in software)





Economics of the Model



- **Wholesale within Wholesale**
- **Build versus own- none of the larger ISP's own their Own backbone or local facilities (wholesale lives on)**
- **1999 3.6 Billion in Dial Access Sales with a CAGR 30% to reach 13.6 Billion in five years***
- **The Peak in growth is still on the horizon**
- **Wholesale aspects- price reduction in monthly fees offset by technology (Soft Switch)**
- **Soft Switch IRR (2000 IRR estimates 250% versus 90%)***
- **Traditional cost per port on Class Five Switch (\$238) versus Soft Switch (\$85)***

*Source – Morgan Stanley Dean Witter



Take a quick look at the numbers...



VPOP Plus PRI Dial Access vs. Alternatives

Cities served	Subscribers nationwide	<u>PRI's required</u>	<u>Back-haul</u> \$/month per subscriber	<u>Organic expansion</u> \$/month per subscriber	<u>VPOP Plus</u> \$/month per subscriber	Savings
10	2,000	12	\$ 10.25	\$ 43.96	\$ 6.60	33 %
10	5,000	30	\$ 10.25	\$ 20.38	\$ 5.38	45 %
10	10,000	60	\$ 10.25	\$ 12.52	\$ 4.18	57 %
10	20,000	119	\$ 10.25	\$ 8.59	\$ 4.01	52 %
10	50,000	298	\$ 10.25	\$ 7.28	\$ 3.79	39 %

*VPOP Plus PRI Delivery Option
Produces savings of up to 50%*

•Essential Architecture – Cisco Powered Network

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- Distributed Soft Switch
- QOS access ATM
- Transport QOS-DWDM, MPLS
- Facility Collocations
- Packet Switching core
- Migration from PRI to VOIP
- Integrated operational support

**Our Optical Core-
Will make the difference**

