



Jim Lamoureux
General Attorney

AT&T Services, Inc.
1401 I Street, N.W., Suite 400
Washington, D.C. 20005

202.326.8895 Phone
202.408.8763 Fax
jim.lamoureux@att.com E-mail

June 2, 2006

Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554

Re: Ex Parte, *IP-Enabled Services*, WC Docket No. 04-36; *Implementation of Section 621(a)(1) of the Cable Communications Policy Act of 1984 as amended by the Cable Television Protection and Competition Act of 1992*, MB Docket No. 05-311

Dear Ms. Dortch:

On behalf of AT&T, Inc. (AT&T), Paul Whitehead, Christopher Boyer, Jim Lamoureux, James K. Smith and Tom Hughes met with William Johnson, John Kiefer, Alison Greenwald, Priscilla Lee, Kate Todryk, Dan Mark, Brendan Murray, Holly Sauer, Mike Lange, and Natalie Roisman of the Media Bureau on June 1, 2006. At the meeting, AT&T provided an overview of Project Lightspeed and AT&T's IPTV platform. The attached presentation was used as the basis of the briefing.

If you have any questions, please do not hesitate to contact me at (202) 326-8895.

Sincerely,

/s/ Jim Lamoureux
General Attorney
AT&T Services, Inc.

Attachment

cc: William Johnson
John Kiefer
Alison Greenwald
Priscilla Lee
Kate Todryk
Dan Mark
Brendan Murray
Holly Sauer
Mike Lange
Natalie Roisman

AT&T Project Lightspeed Overview

June 1, 2006



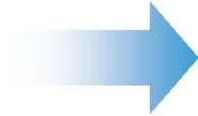
AT&T's Video Initiatives

AT&T customers in our 13-state region have or soon will have access to cutting-edge video services through one of three solutions...

AT&T DISH Network	AT&T U-verse TV (Project Lightspeed)	AT&T Homezone
<ul style="list-style-type: none">▪ Satellite.▪ Available today.	<ul style="list-style-type: none">▪ Terrestrial fiber-based network using VDSL.▪ Integrated Internet Protocol (IP)-based applications including video, HSIA, VoIP.▪ Plan to reach approximately 19 million households in initial rollout.	<ul style="list-style-type: none">▪ Integrates satellite and DSL in single Set Top Box.▪ Plan to be available over AT&T's broadband footprint.

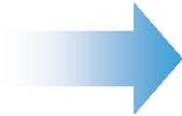
Project Lightspeed Overview

Market-Changing Services



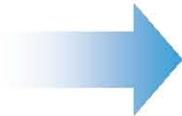
- Integrated services
- HSIA, VoIP & IPTV

Powerful Network



- Both FTTP and FTTN
- Natural extension of current fiber deployment and broadband network

Speed To Market



- Initial deployment to approximately 19 million households

Lightspeed Access Network Summary

Fiber to the RT (Pronto)

Central Hub

Fiber

Remote Terminal

Copper

X-box

Copper



1.5 - 6.0 Mbps

Fiber to the Node (FTTN)

Central Hub

Fiber

Fiber

IP Node

Copper



20 - 25 Mbps

Fiber to the Premises (FTTP)

Central Hub

Fiber

Fiber

Optical X-box

Fiber



20 - 25 Mbps

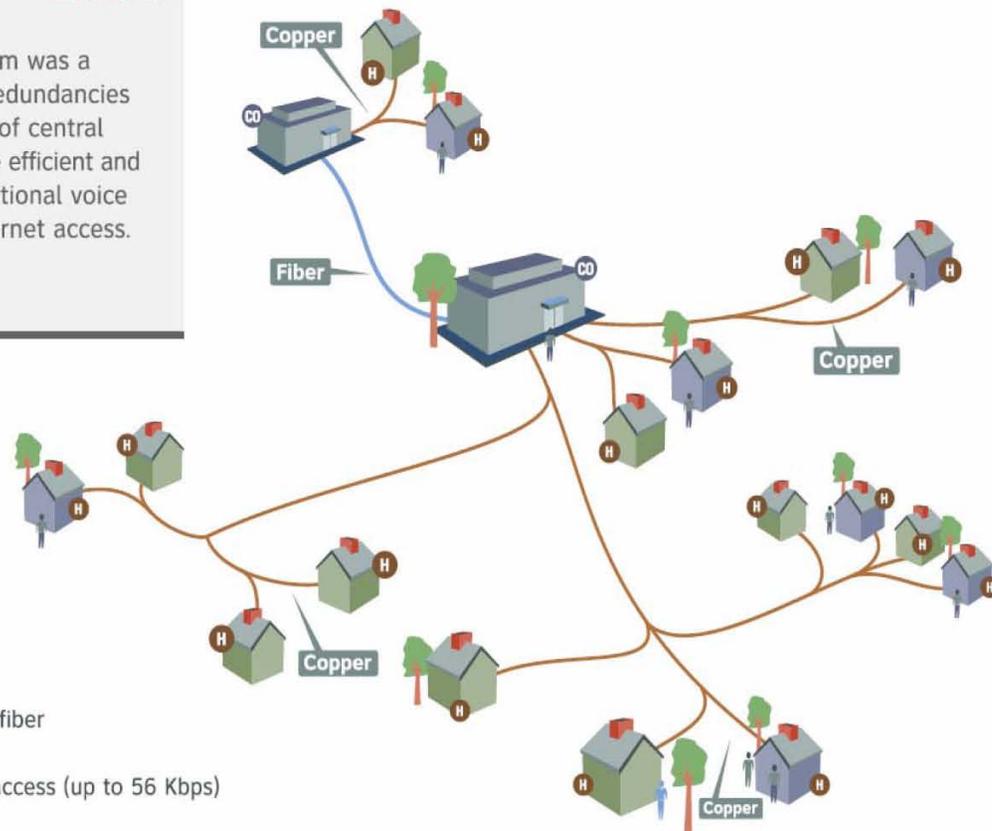
= Network Electronics
X-box = (Cross-connect box or cabinet)

AT&T Access Network Evolution

① Fiber Connecting Central Offices

1990

The residential voice system was a reinforced network, with redundancies built into a robust system of central offices. Central offices were efficient and reliable, consisting of traditional voice telephony and dial-up Internet access.



Achievements:

- Central offices connected by fiber
- Achieved data efficiencies
- Allowed for dial-up Internet access (up to 56 Kbps)

For illustrative purposes only. Not drawn to scale.

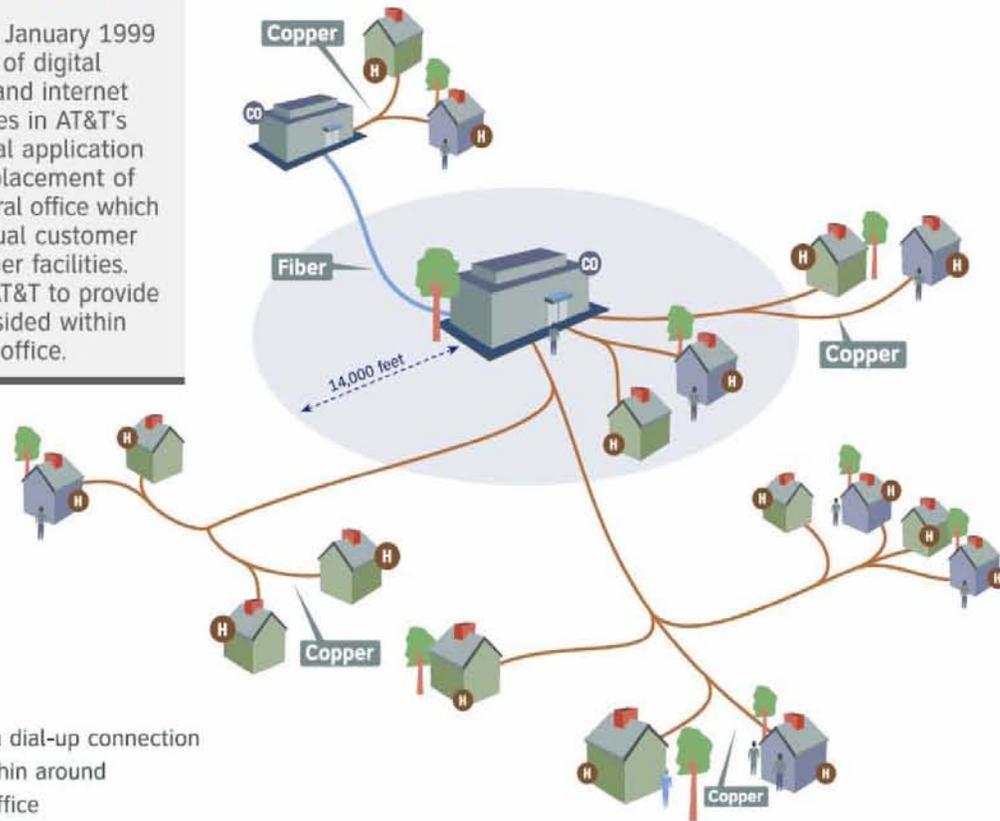
AT&T Access Network Evolution

2

Rollout of DSL

1999

The introduction of DSL in January 1999 brought a new generation of digital services, including broadband internet access, to millions of homes in AT&T's service territory. In its initial application DSL was provided by the placement of electronics in an AT&T central office which were connected to individual customer homes via the use of copper facilities. Copper facilities enabled AT&T to provide DSL to subscribers that resided within 14,000 feet of the central office.



Achievements:

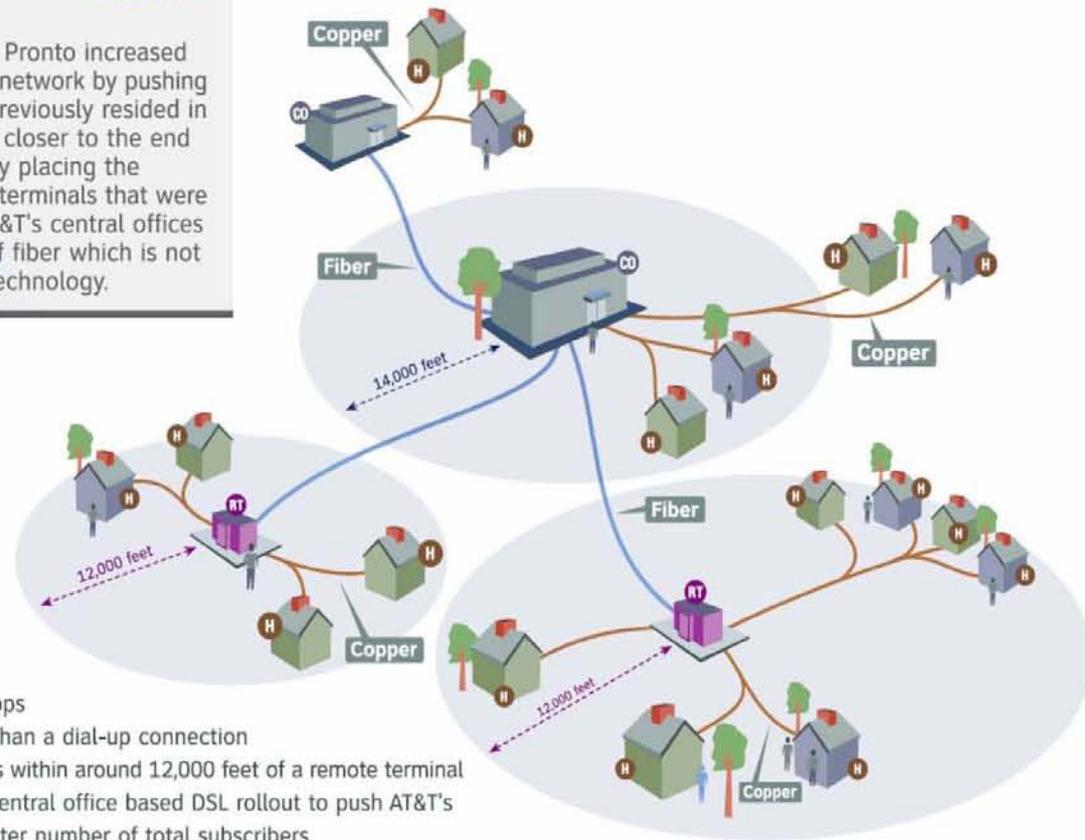
- DSL speed up to 6 Mbps
- Up to 50 times faster than a dial-up connection
- Delivered to households within around 14,000 feet of the central office

For illustrative purposes only. Not drawn to scale.

AT&T Access Network Evolution

③ Rollout of Project Pronto 2000

The rollout of Project Pronto increased the robustness of the network by pushing the electronics that previously resided in AT&T's central offices closer to the end user. This was done by placing the electronics in remote terminals that were then connected to AT&T's central offices via the deployment of fiber which is not a distance sensitive technology.



Achievements:

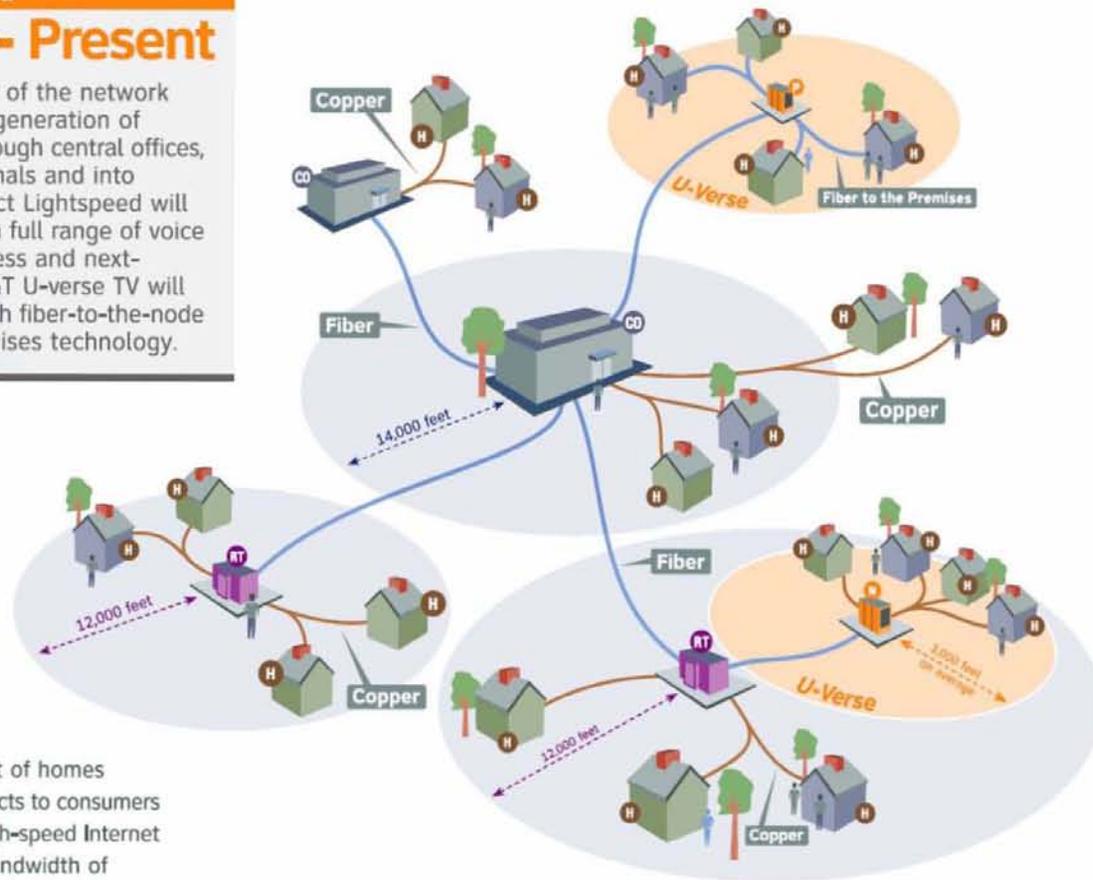
- DSL speeds up to 6 Mbps
- Up to 50 times faster than a dial-up connection
- Delivered to households within around 12,000 feet of a remote terminal
- Complements AT&T's central office based DSL rollout to push AT&T's DSL footprint to a greater number of total subscribers

For illustrative purposes only. Not drawn to scale.

AT&T Access Network Evolution

4 Project Lightspeed 2004 - Present

The current transition of the network pushes another new generation of advanced services through central offices, beyond remote terminals and into neighborhoods. Project Lightspeed will enable AT&T to offer a full range of voice services, Internet access and next-generation video. AT&T U-verse TV will be delivered using both fiber-to-the-node and fiber-to-the-premises technology.



Achievements:

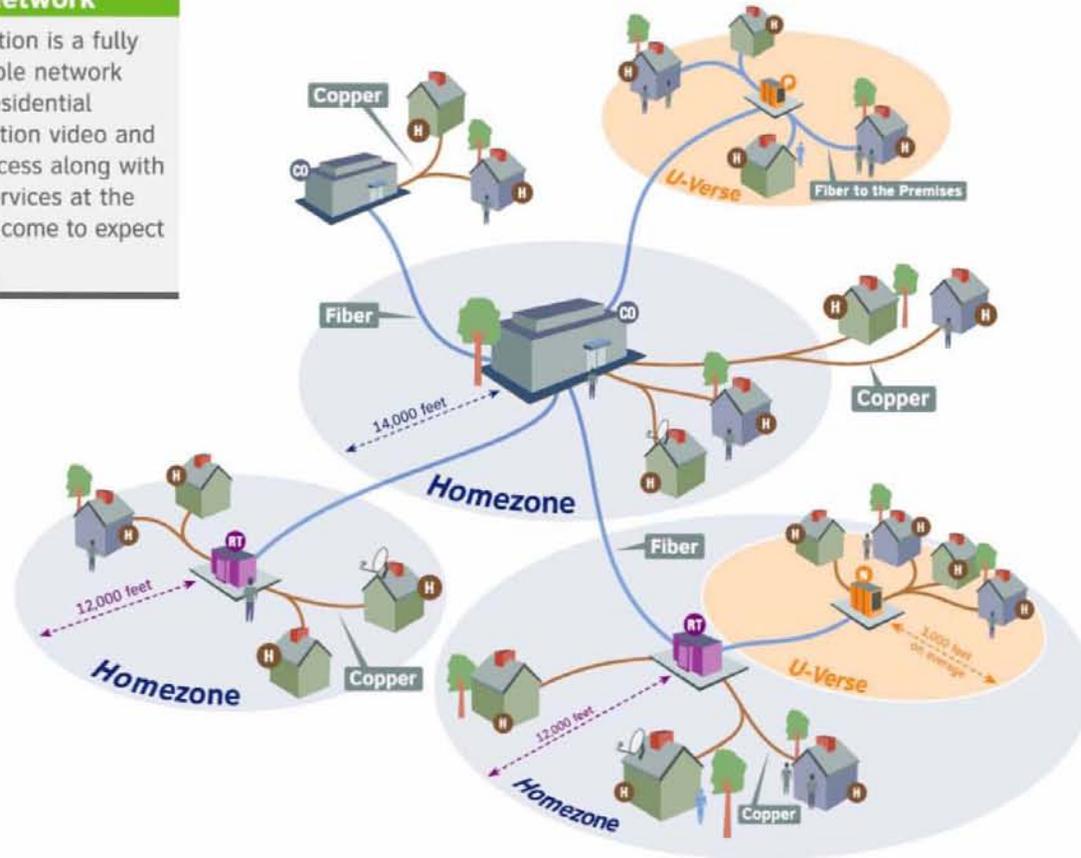
- Delivers fiber to within approximately 5,000 feet of homes
- Delivering IP-based products to consumers
- Video application and high-speed Internet access delivered over bandwidth of 20-25 Mbps

For illustrative purposes only. Not drawn to scale.

AT&T Access Network Evolution

5 Next-Generation Network

The result of the evolution is a fully integrated, highly reliable network capable of providing residential customers next-generation video and high-speed Internet access along with a full range of voice services at the quality customers have come to expect from AT&T.



For illustrative purposes only. Not drawn to scale.

AT&T U-verse Product Offerings

- An all IP network moves AT&T away from a discrete service approach and offer a range of services over a common platform, including switched video, enhanced broadband Internet access, and VoIP

- **20-25 Mbps**
- **Everything IP**

AT&T U-Verse TVsm

High-Speed Internet Access

Voice Over IP (VoIP)

AT&T U-verse Product Suite

- Controlled Market Entry in December 2005 in San Antonio
- AT&T U-versesm TV
- AT&T Yahoo!® High Speed Internet – *U-verse Enabled*

Current Video Offering:

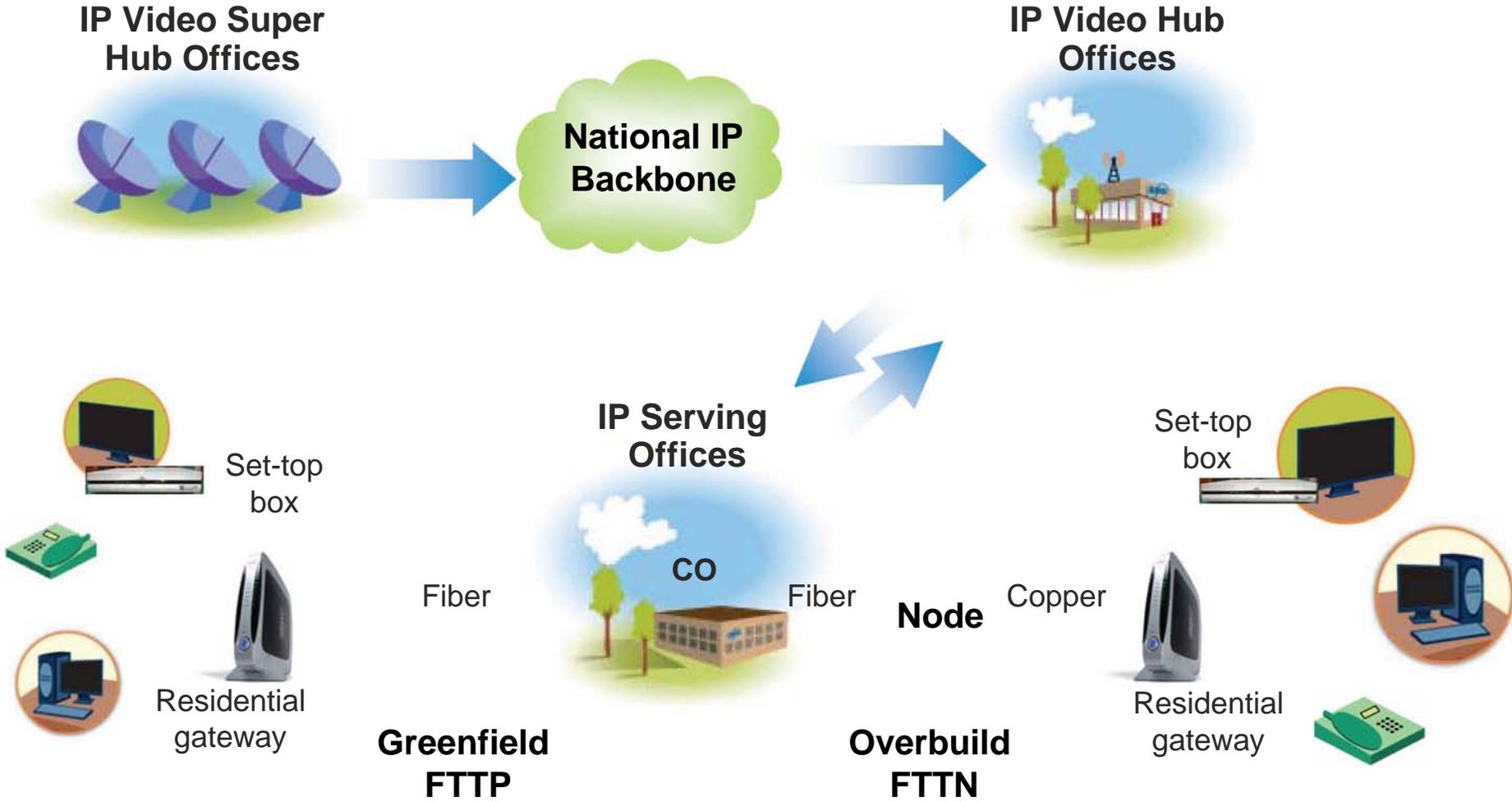
- **High-quality video experience**, more than 200 channels, which include set-top boxes with an internal DVR
- **Video-on-demand** (VOD) library featuring hundreds of hours of a variety of programming
- Extensive use of **picture-in-picture**
- Fast channel changing

Where we are going...

- Enter more markets
- Modify and increase the number of channels and video-on-demand titles
- High-definition channels
- Interactive applications
- More Robust Parental controls

Future options include: remote-access capabilities, consumer VoIP, multiple-camera-angle and picture-in-picture functionality, one-touch access to personalized information, My Photos channel

How is AT&T U-verse TV Delivered?



IP-Switched Video Advantages

Traditional Broadcast RF Video

Video
Service
Provider



TV



TV



TV

Switched Video

AT&T
U-verse
TV



TV

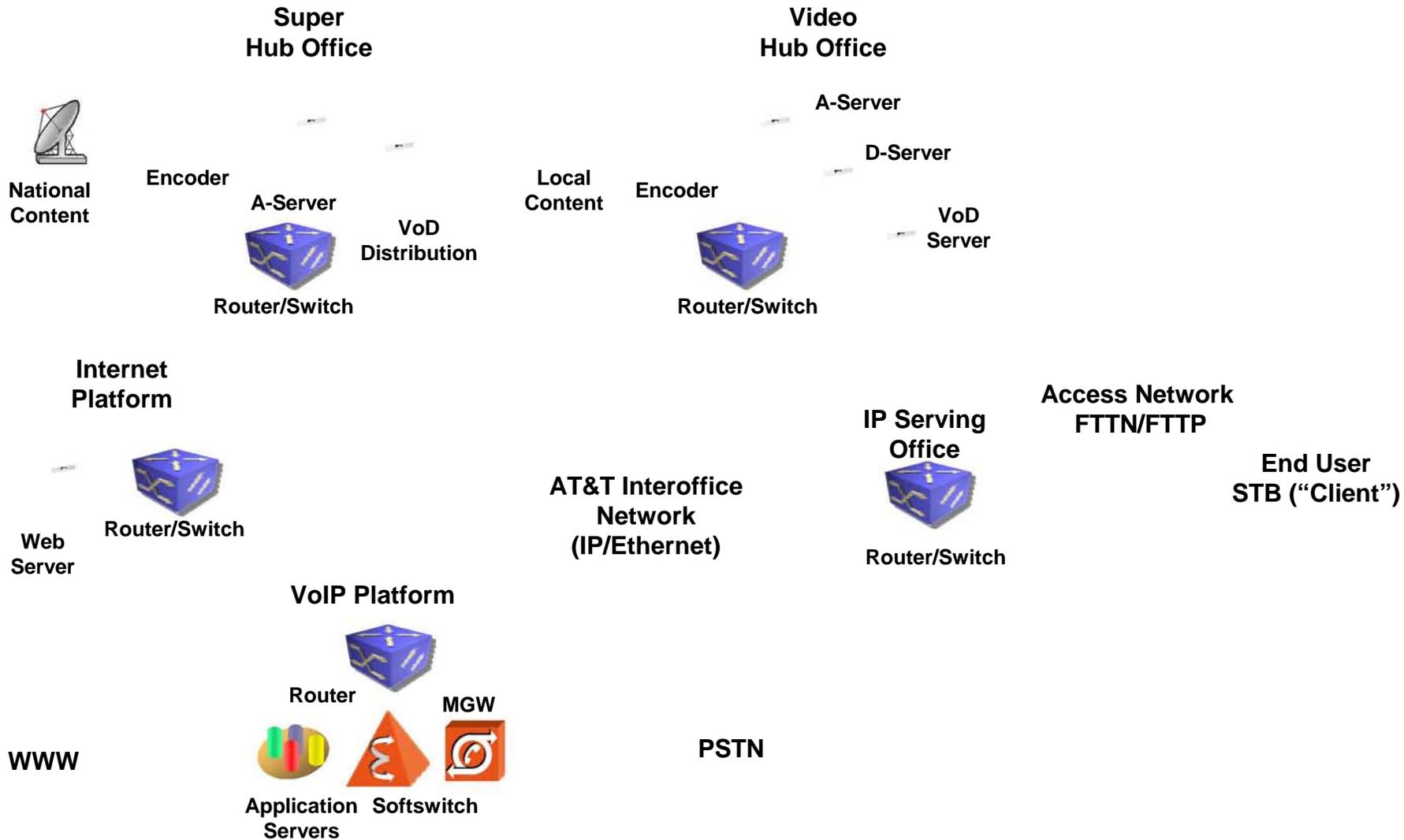


TV

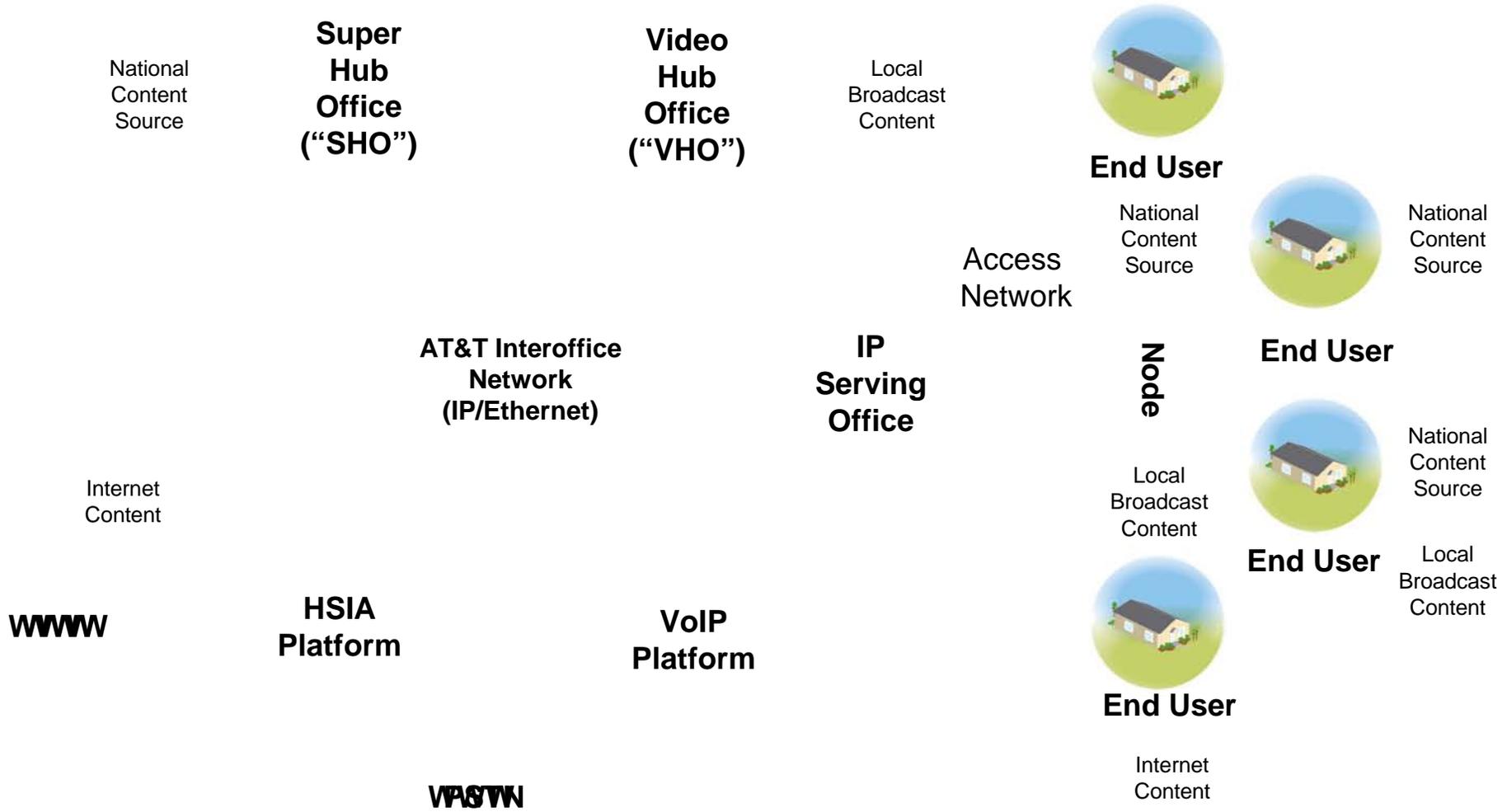


TV

IP Services Interactive Platform



Examples of Interactive Flows Over IP Platform



In Home Environment

CAT-3 (Twisted Pair) (TDM Voice)

Coax (Video)

Coax (All Services)

CAT-5 (Ethernet) (HSIA)

Wi-Fi (802.11x) (HSIA)

Desktop



Analog
Phone



CAT-5

STB

Coax
Splitter

Twisted
Pair
(Twisted Pair)

Balun



Residential
Gateway



Laptop



Analog
Phone

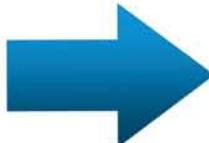


STB

Network
Interface Device

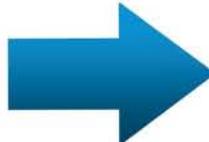
The Result of IP Migration

A Platform for the Future



Anytime, anywhere

access to communications
and entertainment
services on *any device*



Moving mass-market
access to IP

AT&T: A New Era in Entertainment

