



PRESENTS

NETWORLD | INTEROP



The AT&T Global IP Backbone: Expanding Your Network Globally

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AT&T Business

Innovative Networks. Innovative Thinking.

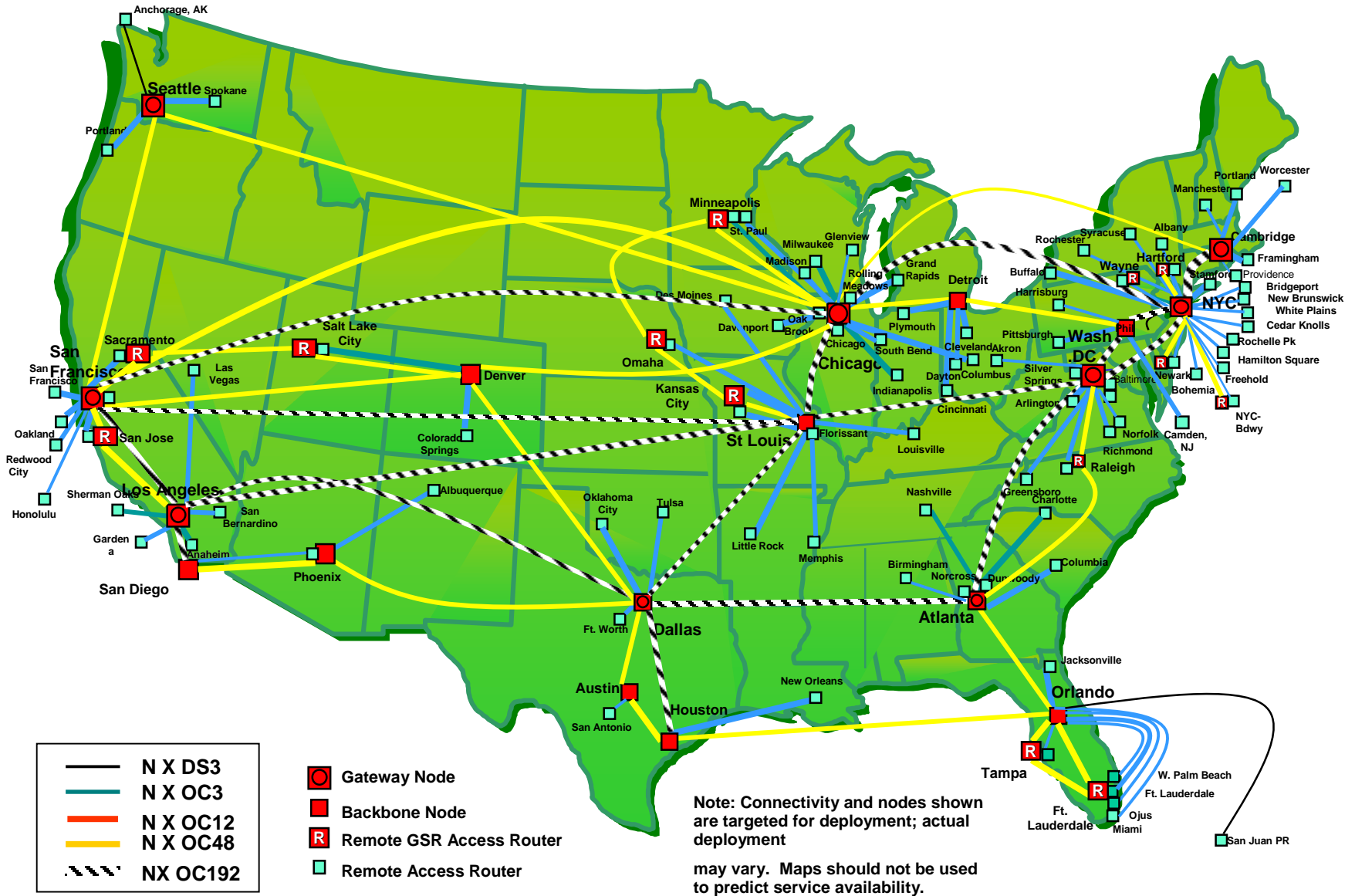


Key Elements of a Consistent Global IP Service

- IP Infrastructure
 - Substantial Bandwidth and Capacity
 - Global Architecture Consistency
 - Facilities based approach
- Global Reach
 - Globally deployed - Breadth of Country Coverage
 - Access PoP Program - In-Country Depth of Coverage
 - Strong partnerships/working relationships with local access providers and/or PTTs
- Backbone Performance Measures and Reports
 - Common Measures and Reporting within AND between different geographies
 - Global Service Level Guarantees (SLGs)
- Peering & Connectivity
 - Substantial Private and Public Peering – Globally
- Quality of Service
 - End-to-End, Globally supported (On Net) QoS

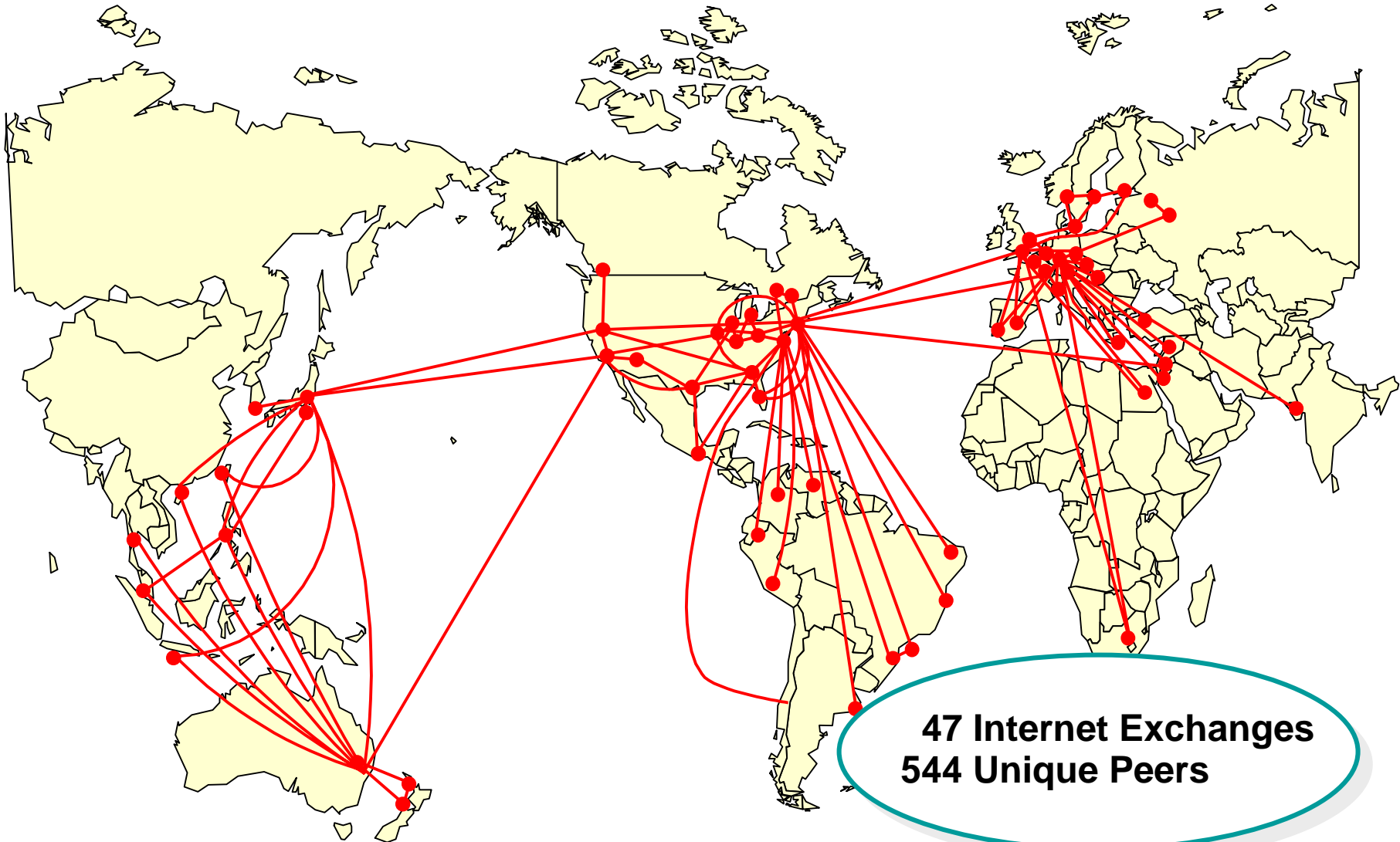


AT&T US Internet Backbone





AT&T Global Internet Backbone



47 Internet Exchanges
544 Unique Peers



Global Reach: A Unified Global IP Backbone

- **Unified** - a single architecture delivering *all* Network services
- **Global** - 800+ Points of Presence (POPs) covering 60 countries
- **Backbone** - for wholesale as well as retail services: a carrier's carrier



US Backbone Performance

Welcome to AT&T IP Network Status - Netscape

File Edit View Go Communicator Help

AT&T DATA & IP SERVICES
Networking the New Economy

Monthly Averages

Metric	Target	Observed Value
Backbone Delay	< 60 ms	36.0 ms
Backbone Loss	< 0.7%	0.01%
Backbone Availability	≥ 99.9%	99.9%
Modem Connect Success Rate	> 95%	99.00%

[Home](#) | [Current Performance](#) | [Backbone Delay and Loss](#) | [February Averages](#)
[Network Status Information](#) | [Methodology](#) | [Glossary](#)

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Global Reports

<http://www.att.com/globalnetwork/support>

Internet VPN Availability Report
AT&T GLOBAL NETWORK SERVICES - IP NETWORK AVAILABILITY
Monthly average IP backbone network availability
Measured around the clock excluding scheduled network maintenance (last 12 months)

	Transatlantic Western Europe to US East Coast	Transatlantic Western Europe to US West Coast	Within Western Europe	Within EMEA	Transpacific Asia to US West Coast	Within Asia Pacific	Between Asia Pacific and Western Europe
SLA	99.90	99.90	99.90	99.90	99.90		
Apr 2001	100.00	100.00	100.00	100.00	100.00		
Mar 2001	100.00	100.00	100.00	100.00	100.00		
Feb 2001	100.00	100.00	100.00	100.00	100.00		

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Internet VPN Performance Report
AT&T GLOBAL NETWORK SERVICES - IP NETWORK PERFORMANCE
Monthly average IP backbone network performance (round trip latency)
Measured around the clock excluding scheduled network maintenance (last 12 months)

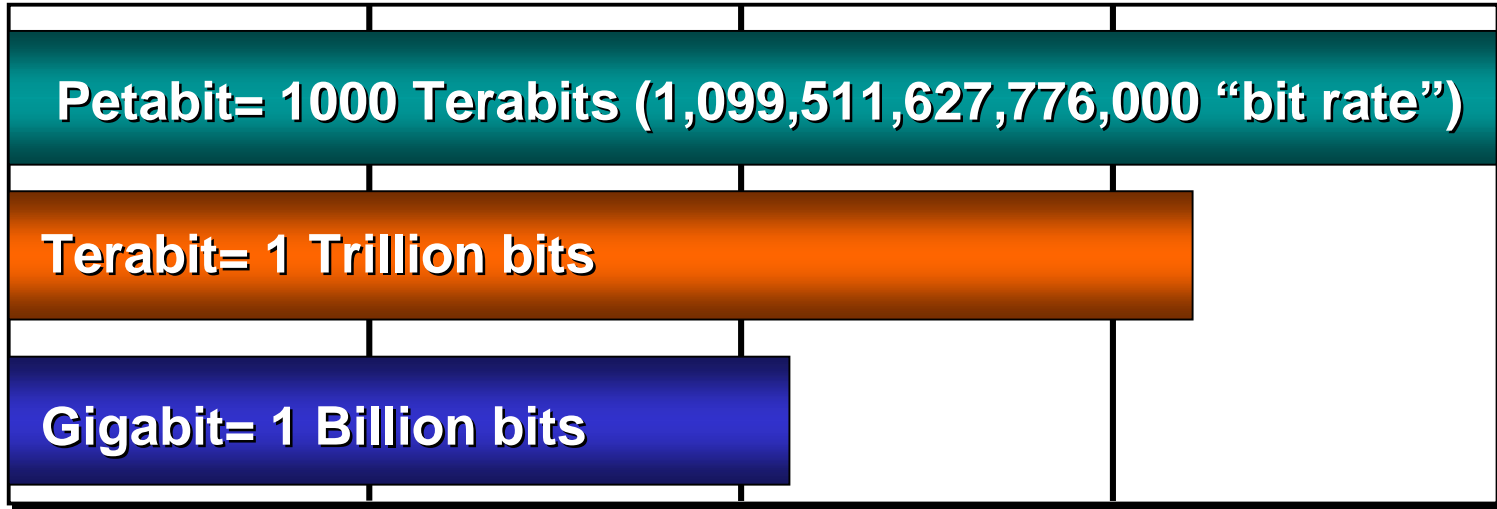
	Transatlantic Western Europe to US East Coast	Transatlantic Western Europe to US West Coast	Within Western Europe	Within EMEA	Transpacific Asia to US West Coast	Within Asia Pacific	Between Asia Pacific and Western Europe
SLA	120	200	65	80	250	250	450
Apr 2001	116	134	42	55	194	171	355
Mar 2001	117	169	42	56	197	169	354
Feb 2001	117	169	45	59	198	174	361

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How Much Peering Is This?

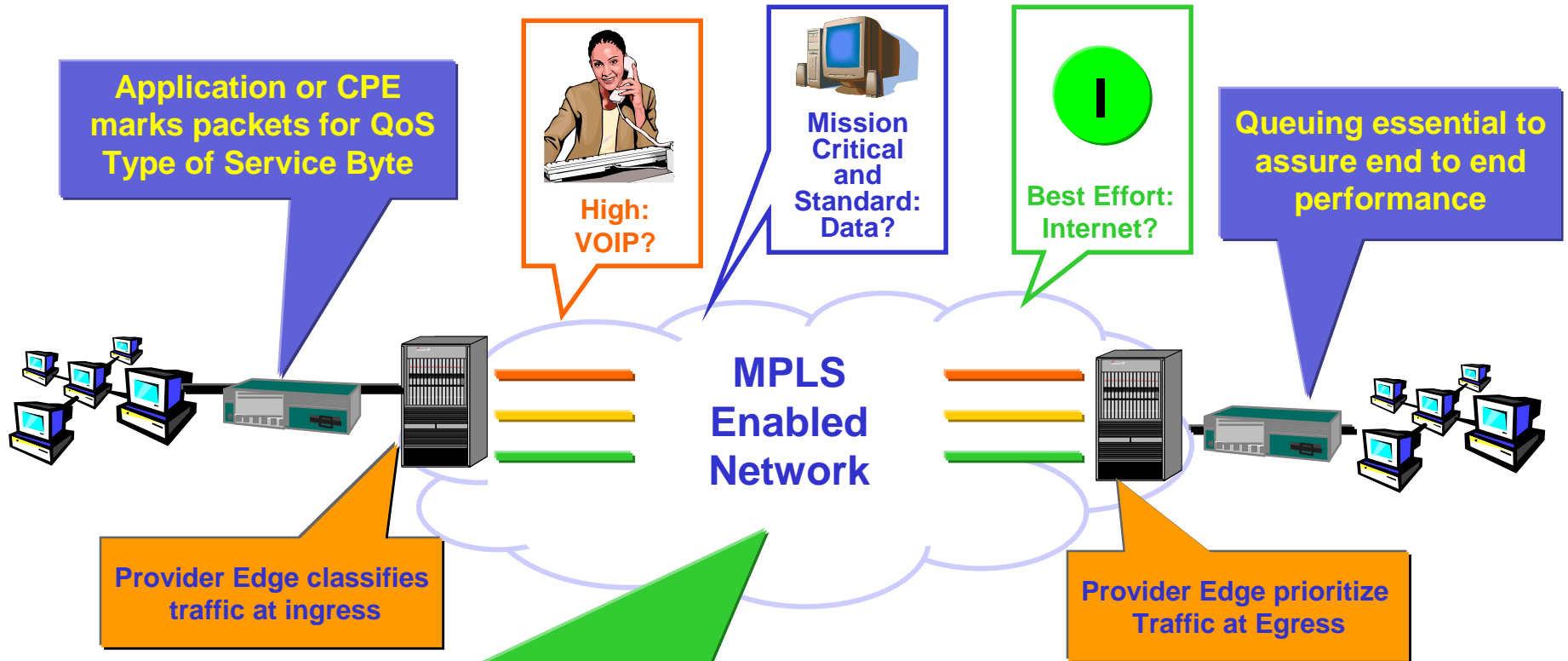


Why are these numbers important?

Because across the AT&T peering points the capacity exists for over 2.61 Petabits of information exchange every day (*that's the texts of 16+ Library of Congress every day!*)



Target: End-to-End QoS Enabled IP-MPLS Network



MPLS Enabled Backbone maps Type of Service /DiffServ markings to MPLS Label
MPLS DiffServ Aware Label Switch Path incorporates QoS requirements
And applies QoS mechanisms to deliver End-to-End QoS



AT&T's Commitment to IP

- Global IP backbone
- Range of dedicated and dial-up access options
- 800+ Points of Presence (POPs) covering more than 90% of the world's leading markets
- Built on a proven, secure and robust network infrastructure
- Ownership in 300,000+ miles of undersea cables
- Continuing to deliver world class quality for mission critical applications
- \$5 billion investment in IP network expansion over next 3 years