



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

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www.interop.com





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





- 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

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BACKBONE DELAY AND LOSS	Metric	Target	Observed Value	
NETWORK STATUS	Backbone Delay	< 60 ms	36.0 ms	
GLOSSARY	Backbone Loss	< 0.7%	0.01%	
	Backbone Availability Modem Connect Success Rate	<u>> 99.9%</u> > 95%	99.9%	
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Global Reports

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

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Peering & Connectivity







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



- 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