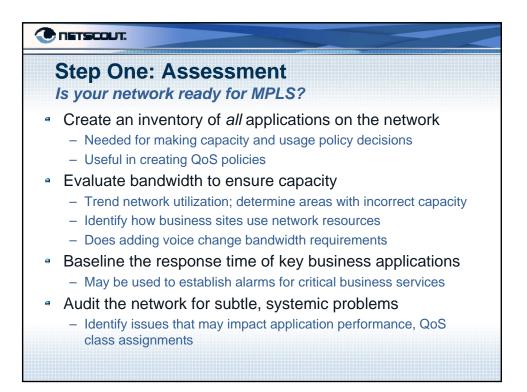


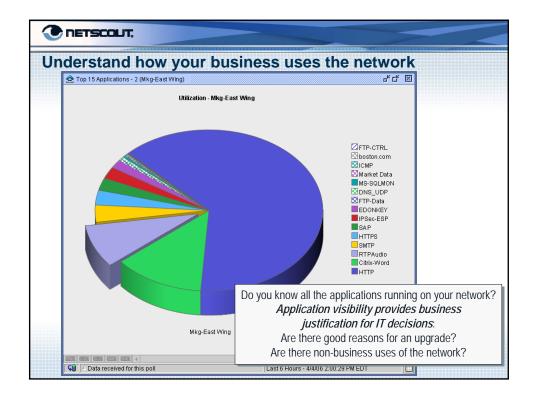


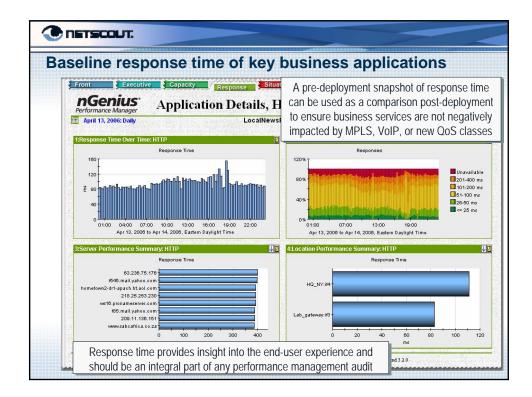
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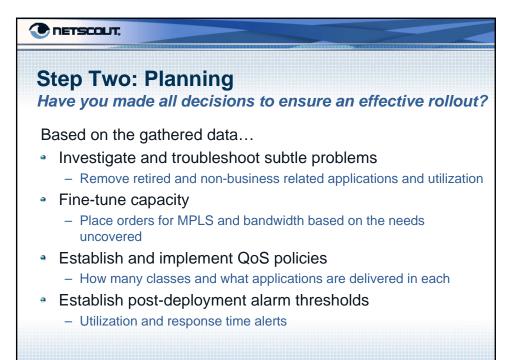
MPLS Performance Management Lifecycle Best Practices

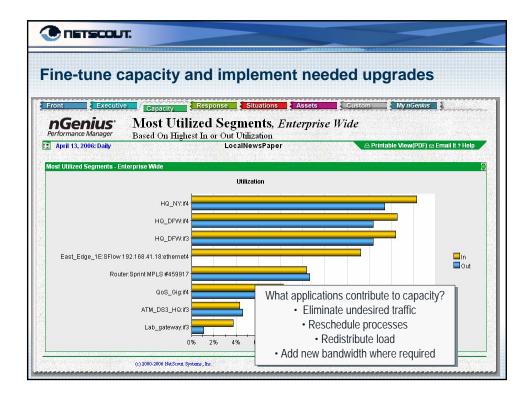
- Assessment
 - What is your bandwidth requirements?
 - What applications are already on the network?
 - Is your network ready for other services, e.g. Voice?
- Planning
 - Have you made all necessary decisions to ensure an effective rollout?
 - Are you establishing a QoS policy? What applications get what QoS class?
- Impact analysis pilot to rollout
 - Is everything running as smoothly as planned?
 - Are the QoS classes appropriate designed and configured?
- Ongoing management
 - How is your network changing and growing over time?

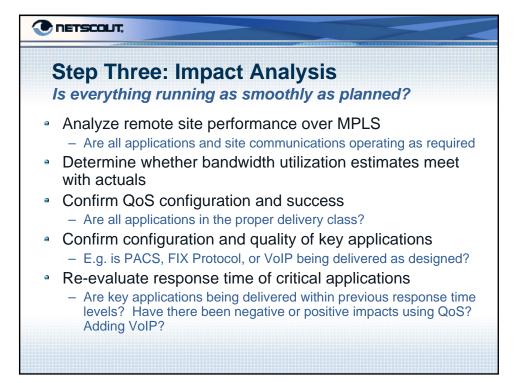


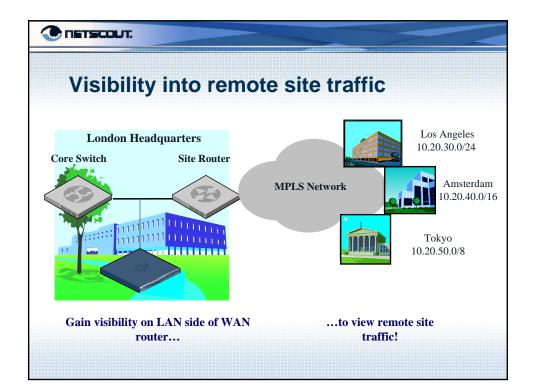


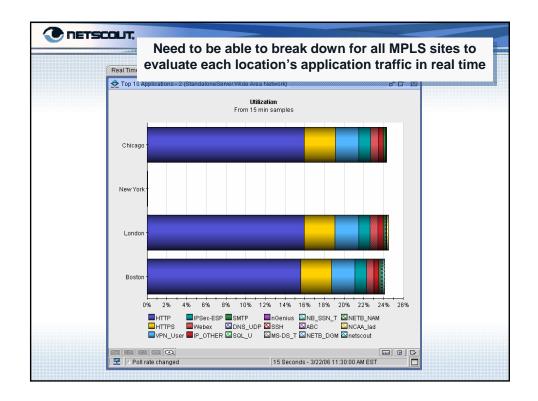




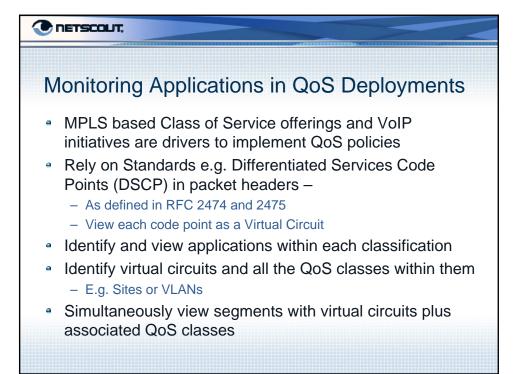


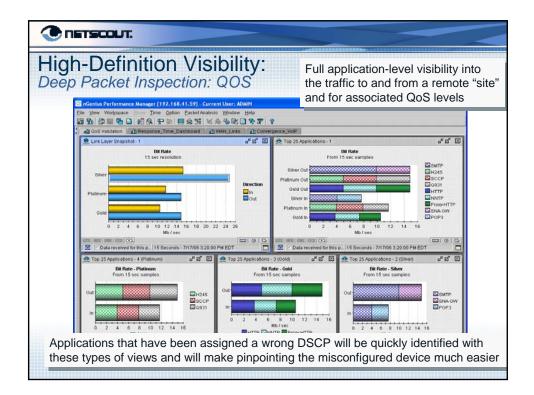


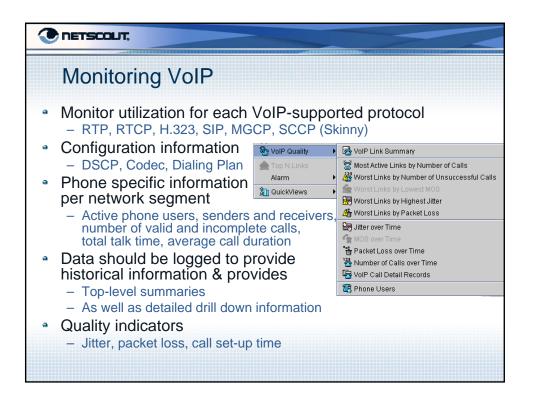


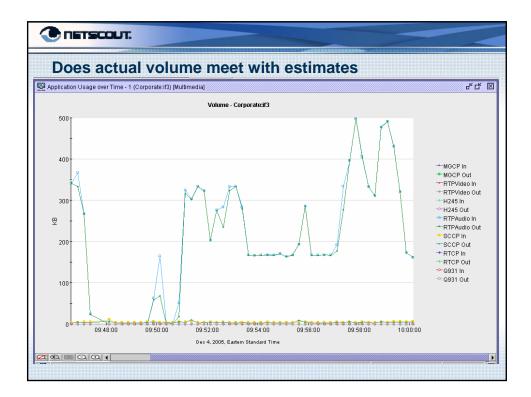


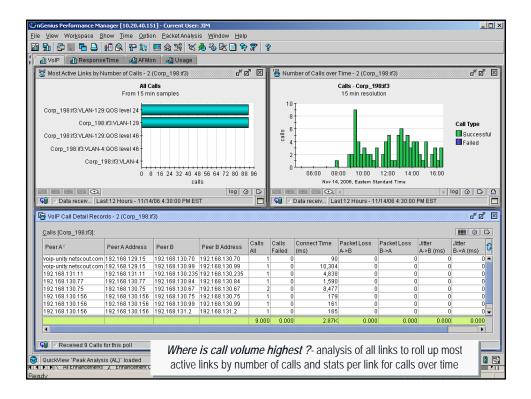




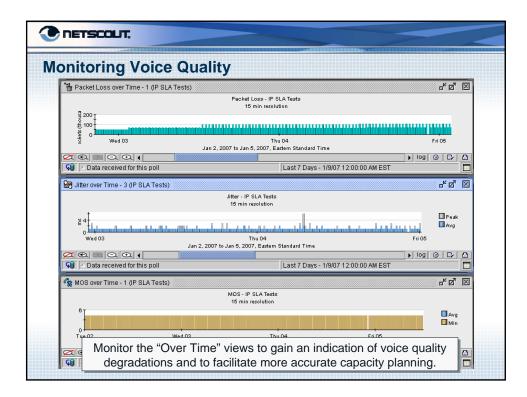






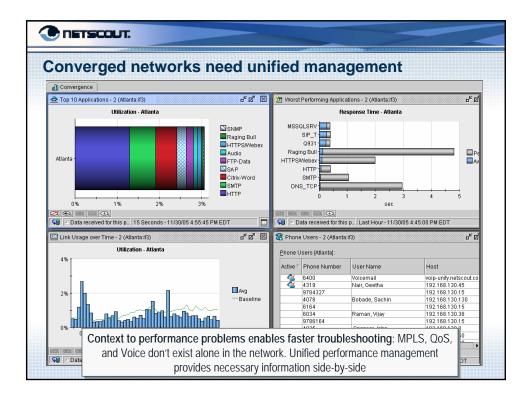


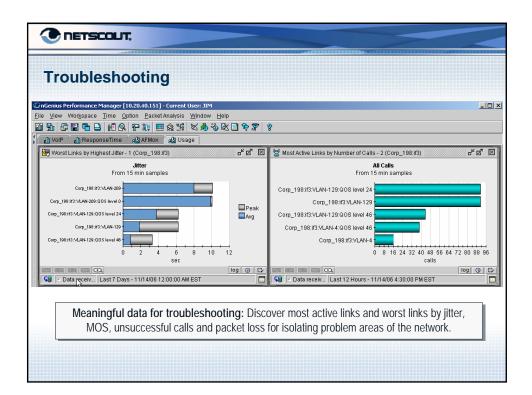
In Cisco Net	tworks Use IP SLA Tests	
IP/SLA ICMP echo	A round trip time measuring how long it takes the target	
	device to respond to an ICMP echo.	
IP/SLA DNS	Difference in time between when the client sends a DNS request and when it receives a reply.	
IP/SLA TCP Socket Connect	Difference in time between when the client sends the initial SYN and when the client sends the final ACK in the connect sequence.	
IP/SLA UDP jitter (VOIP)	Measures round trip delay, average jitter, MOS and packet loss.	
IP/SLA DHCP	Measures the round trip time taken to discover a DHCP Server and obtain a lease from it.	
IP/SLA Web Page Retrieval	Measures the amount of time it takes to retrieve the specified Web page.	

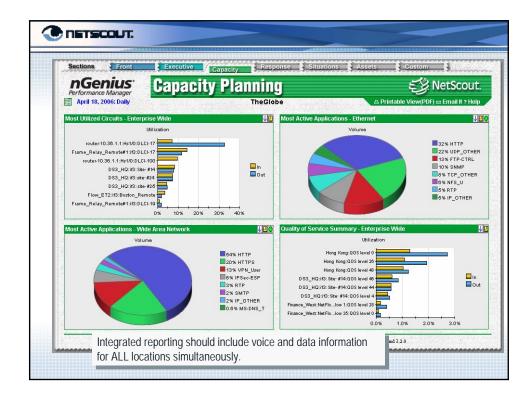


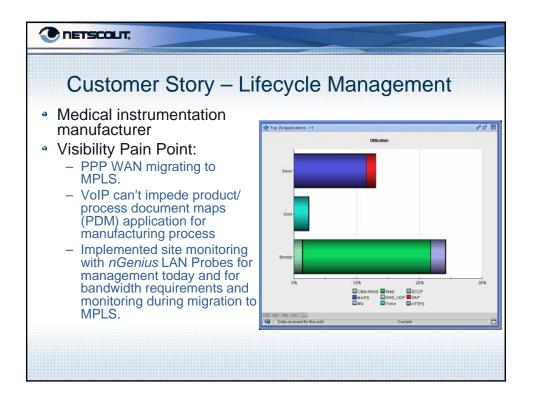
Case Study Mis-configured QoS causes problems at hospital			
a	 500 bed hospital in the Western U.S. VoIP pain point: Deployed Avaya VoIP solution hospital wide. Whole wings of the hospital would intermittently deregister and lose telephone service. They were unable to identify to problem using the vendor-supplied management 	The nGenius Solution was brought into the situation and they were immediately able to the problem a mis- configured QoS setting. Simply changing the QoS levels so they were the same on inbound and outbound eliminated all problems.	
	Console. Details Setup Details Quality Data Volume Conversations: [192.168.99.21:3] Active Thone Number Roben Number Pack Sender Out (4224 6400 4224 4371 192.168.130.3 4224	e ket Loss Packet Loss Jitter Jitter DSCP DSCP IP Adv	

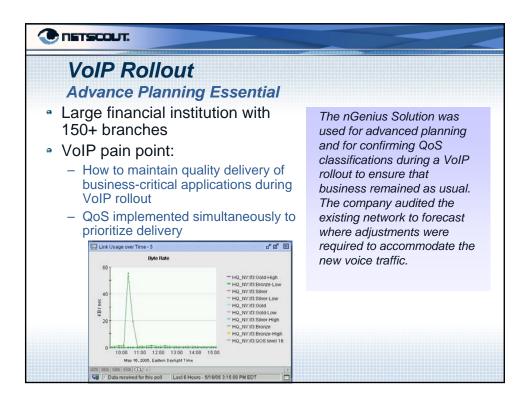


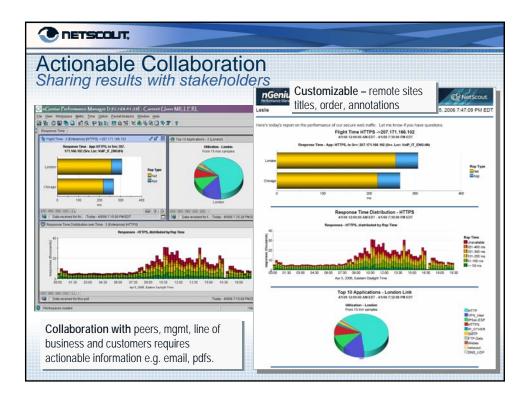


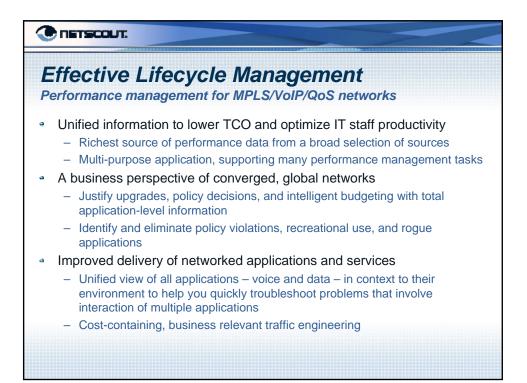












Superior Company

- Technology leader with a clear vision
- The most experienced team in the industry
 - Founded in 1984
 - Over 360 employees
- · Growing, profitable
 - \$100M revenue run rate
 - \$95M in cash, no debt
- World-wide distribution and support



