



Agenda

- Scope of this Session
- Intro and History of VPNs
- VPN Technology Building Blocks
- Basic VPN Architectures
- Next Generation VPN Solutions

www.cisco.com

Scope of this Session

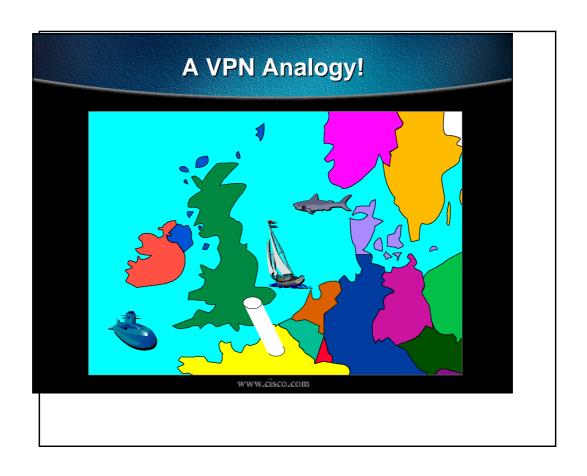
- Provide a basic understanding of the component technologies relevant to VPNs
- Show how these technologies fit together to provide today's VPN solutions
- Speculate on some of the VPN advances that may come along in the near future
- For further info attend Phil Harris' Level 2 Deploying VPN Solutions (Session 313)

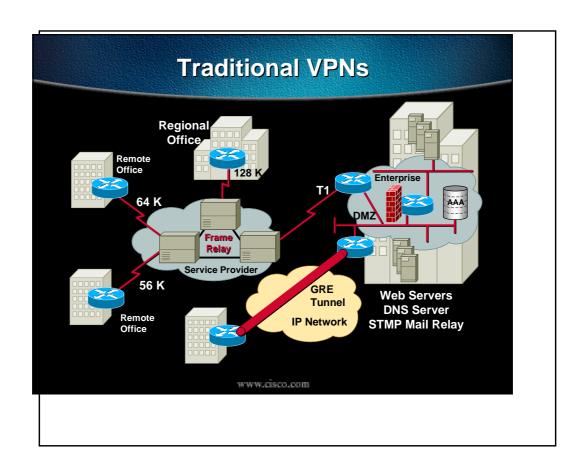
www.cisco.com

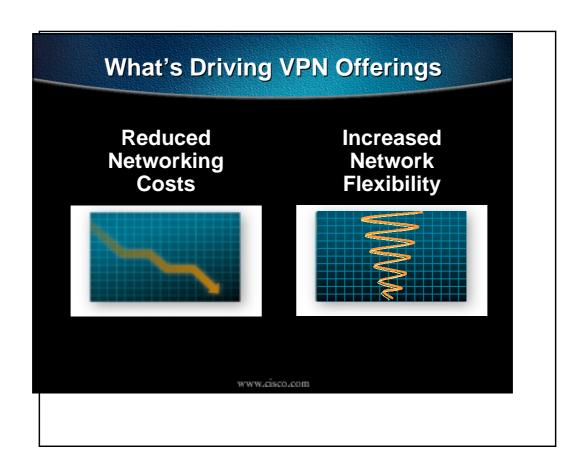
What Is a VPN Service?

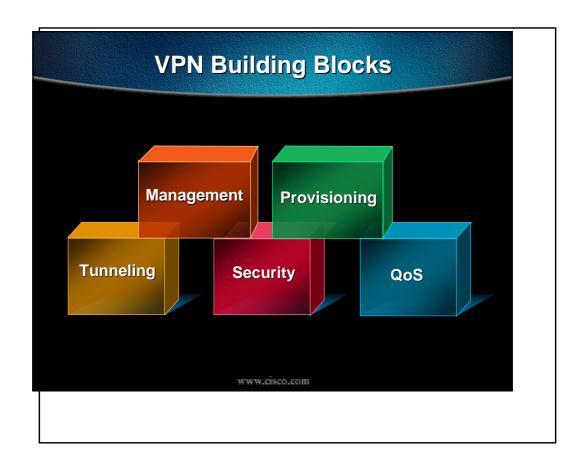
A "VPN service" is a service which offers secure, reliable connectivity over a shared public network infrastructure such as the Internet. Because the infrastructure is "shared", connectivity can be provided at lower cost than existing dedicated private networks

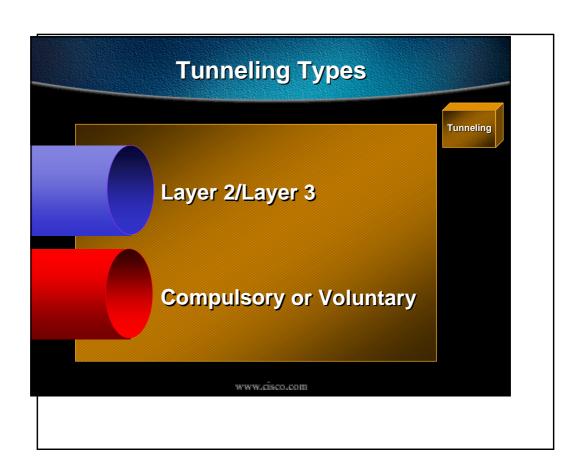
www.cisco.com

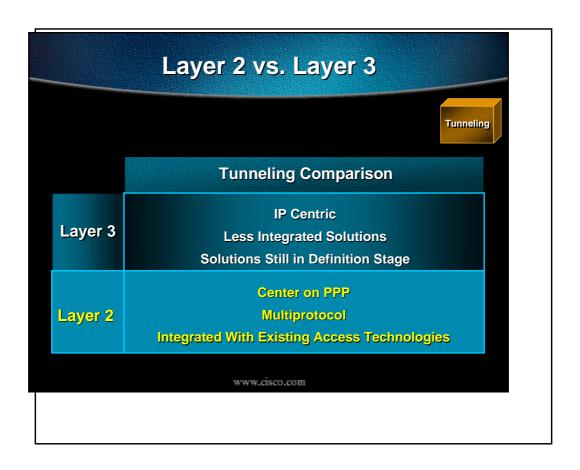


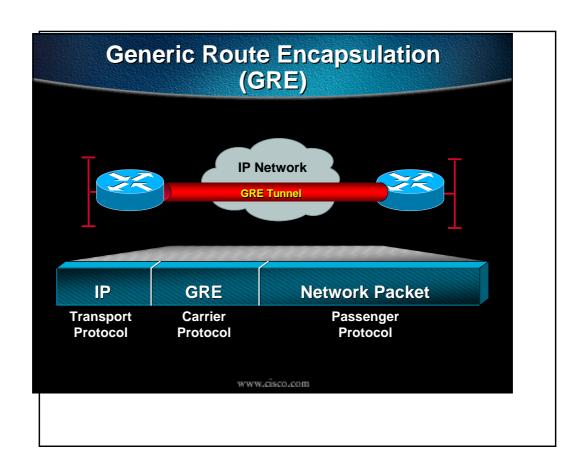


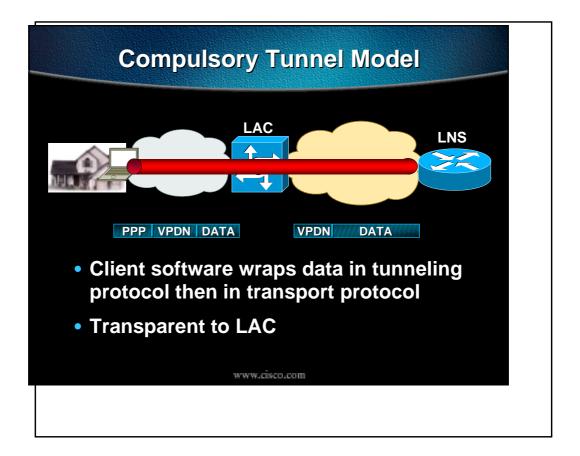


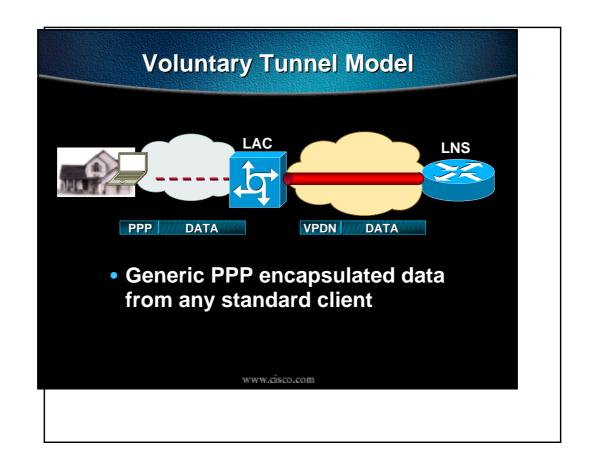


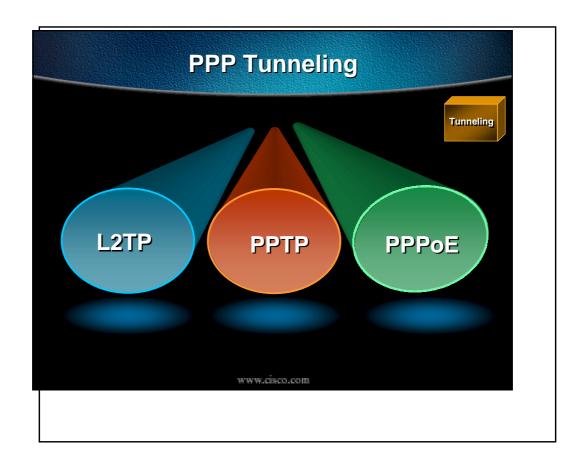


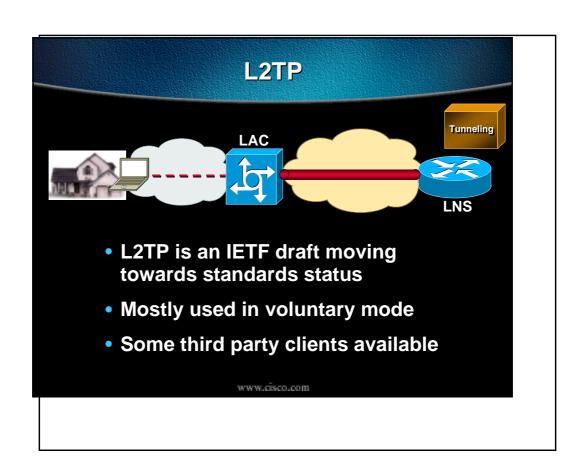


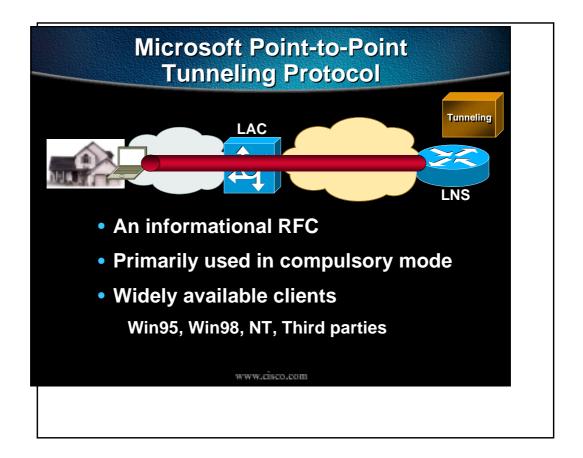


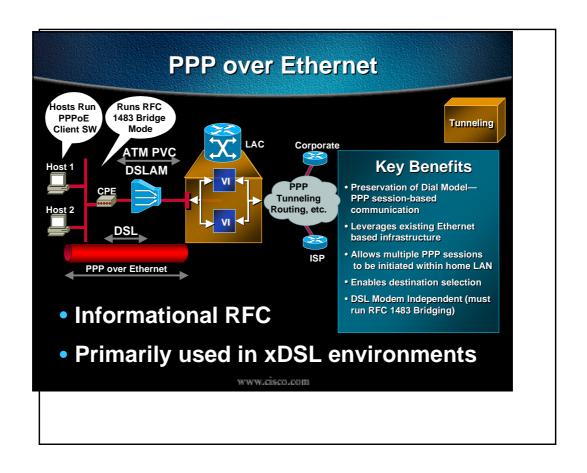


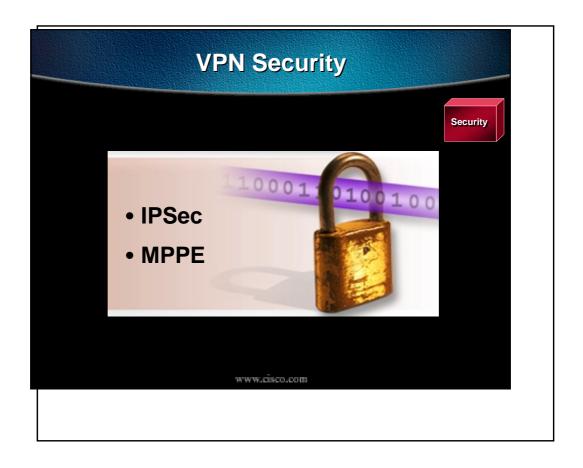


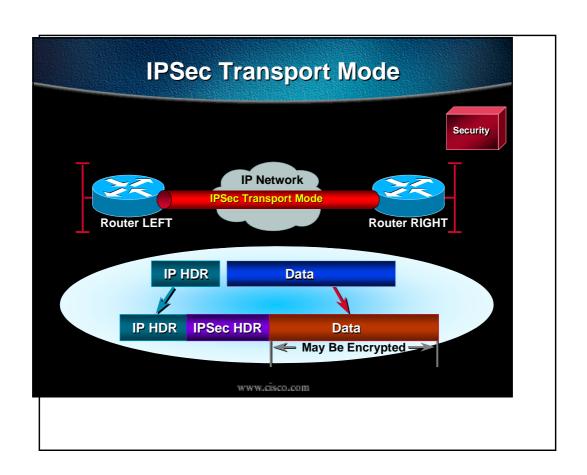


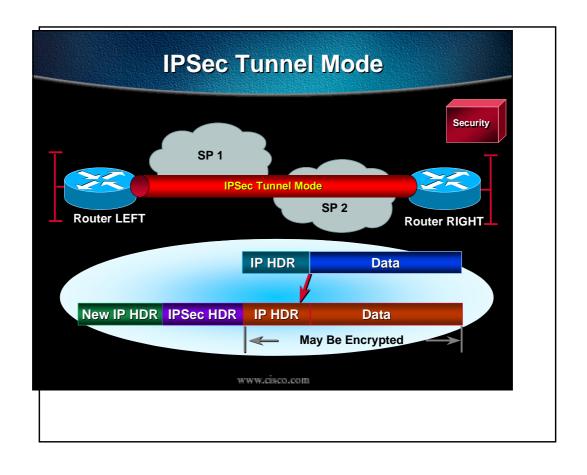


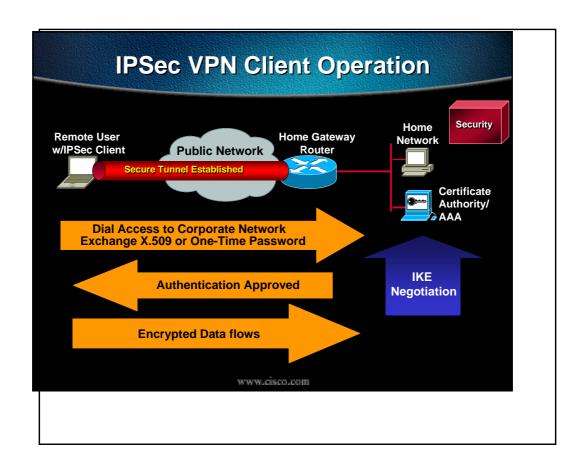




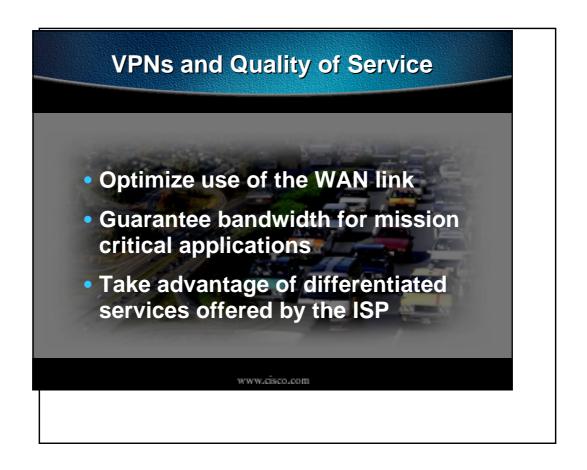


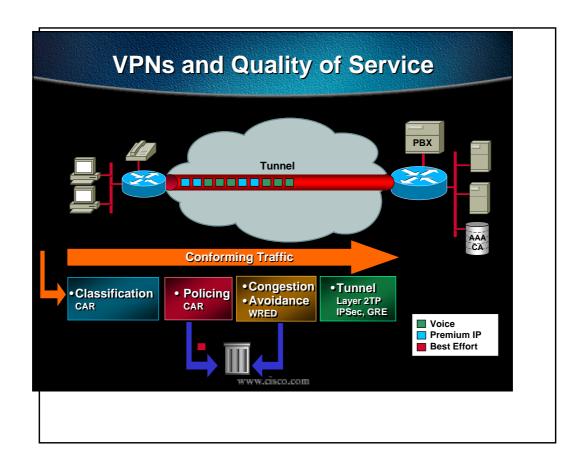


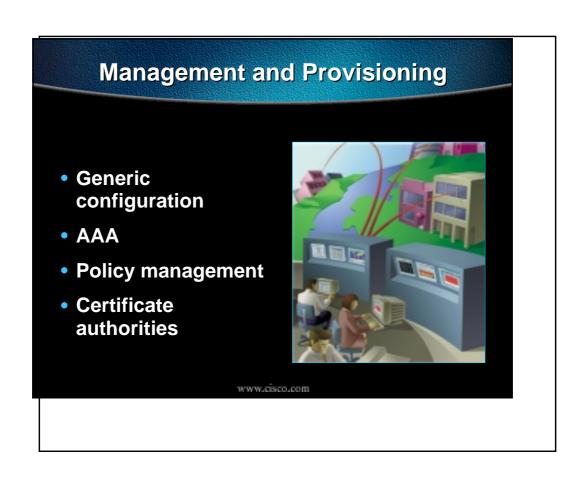




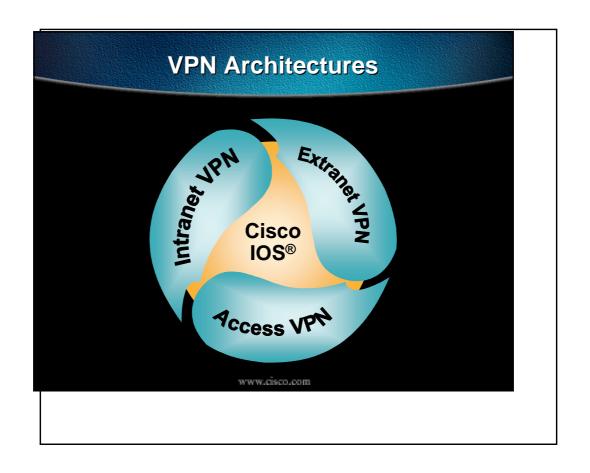
Microsoft Point-to-Point Encryption PPTP Tunnel RC4 encryption of PPP packets Used almost exclusively with PPTP Informational RFC 2118



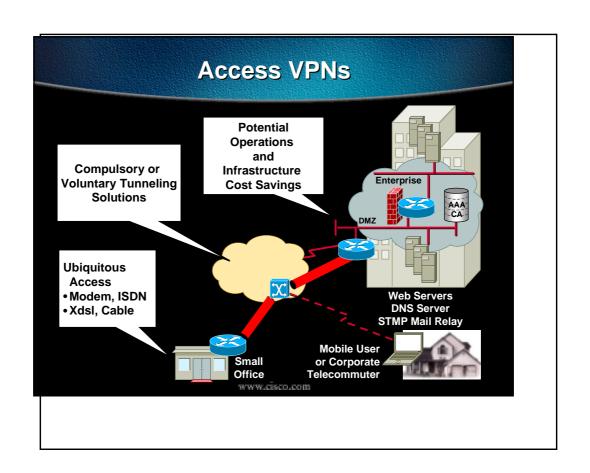


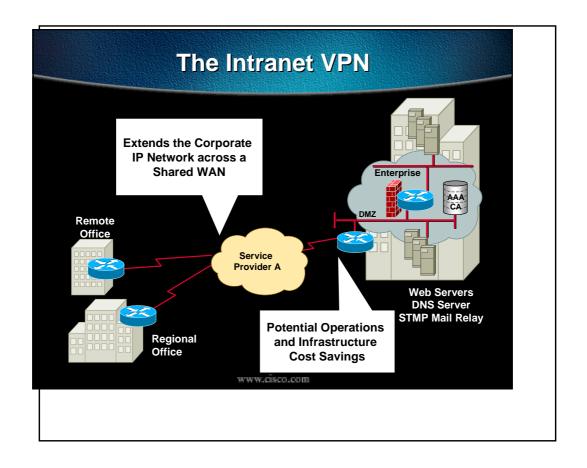


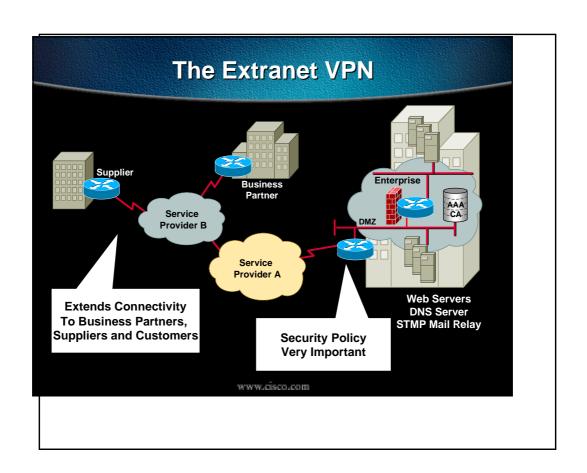


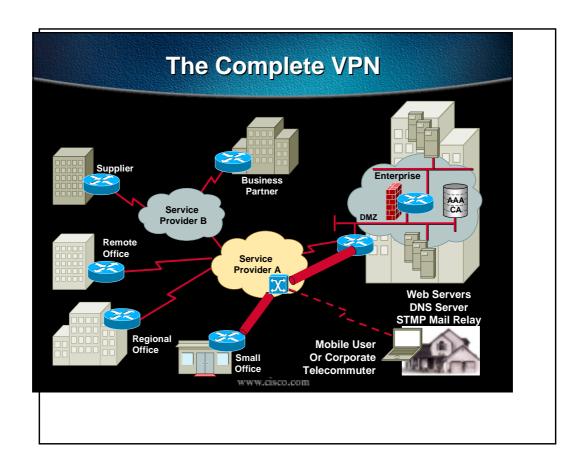


Secretary with the second	and App	lications	
Туре	Application	Alternative To	Benefits
Access VPN	Remote Connectivity	Dedicated Dial ISDN	Ubiquitous Access Lower Cost
Intranet VPN	Internal Corporate Connectivity	Leased Lines	Extend Connectivity Lower Cost
Extranet VPN	Business-to Business External Connectivity	Fax, Mail, EDI	Facilitates E-Commerce
	www.c	isco.com	

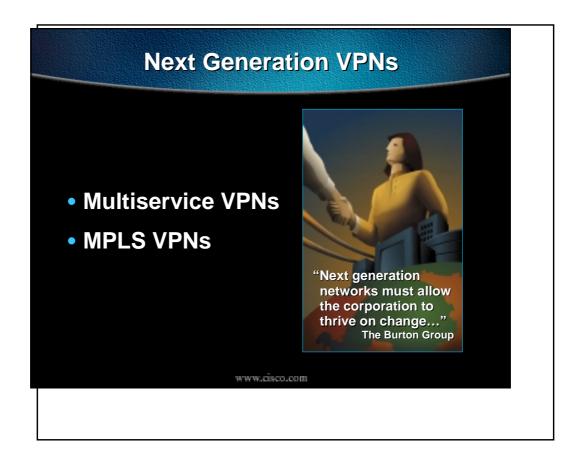


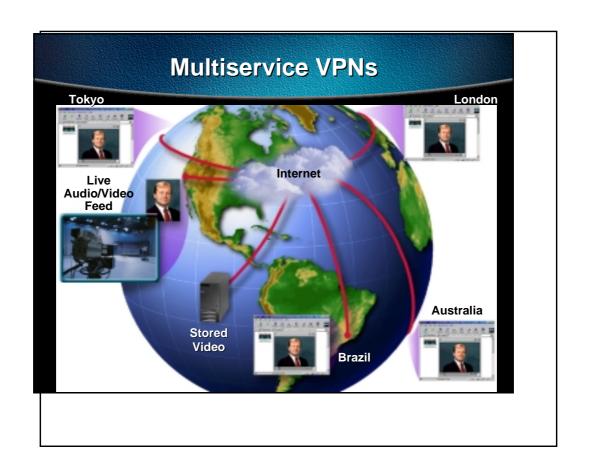


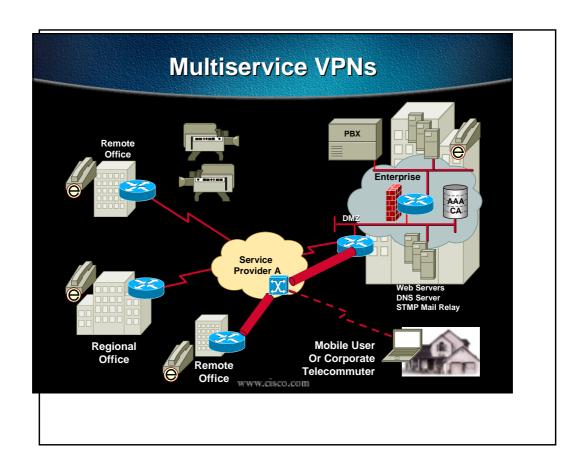


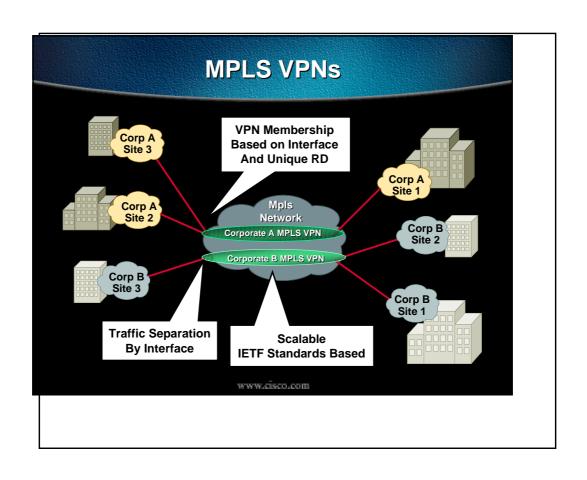


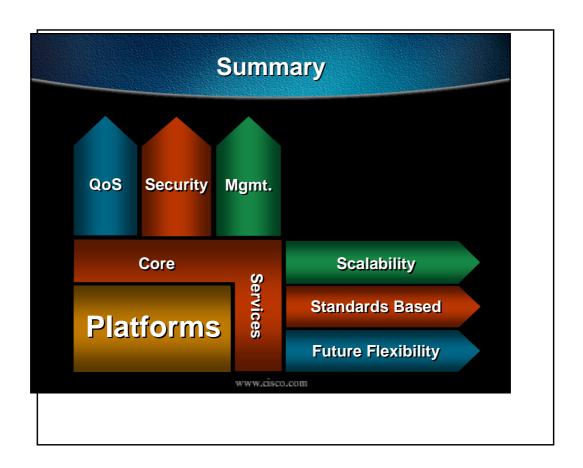
Deployment Alternatives				
Service Provider Focused	Collaborative	Enterprise Focused		
Service Provider Supplies Majority of VPN Solution Equipment Service Training Help Desk	Service Provider Supplies Hardware Qos to Bandwidth Offering	Service Provider Supplies Basic Network Access		
Enterprise Manages Security Services	Enterprise Application and Configuration Management Help Desk Support	Enterprise Supplies VPN Equipment Manages Network		
	www.cisco.com			











lutions http://www.cisco.com/warp/public/779/servpro/solutions/vpn/ TP http://search.ietf.org/internet-drafts/draft-ietf-pppext-l2tp-15.txt	Other Useful Information			
http://www.cisco.com/warp/public/779/servpro/solutions/vpn/ TP http://search.ietf.org/internet-drafts/draft-ietf-pppext-l2tp-15.txt		Location		
	Cisco VPN Solutions			
http://www.cisco.com/warp/public/cc/cisco/mkt/security/encryp/tech/ipsec_wp.htm	L2TP	http://search.ietf.org/internet-drafts/draft-ietf-pppext-l2tp-15.txt		
	IPSec	http://www.cisco.com/warp/public/cc/cisco/mkt/security/encryp/tech/ipsec_wp.htm		
http://search.ietf.org/internet-drafts/draft-ietf-pppext-pptp-10.txt	PPTP	http://search.ietf.org/internet-drafts/draft-ietf-pppext-pptp-10.txt		
PPE http://search.ietf.org/internet-drafts/draft-ietf-pppext-mppe-03.txt	MPPE	http://search.ietf.org/internet-drafts/draft-ietf-pppext-mppe-03.txt		
		www.risco.com		
		www.cisco.com		
www.cisco.com				

