

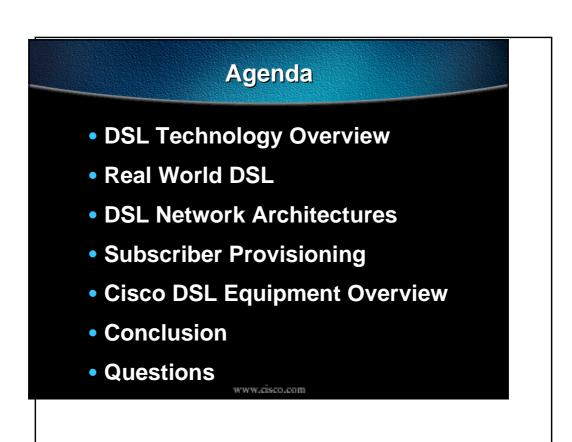


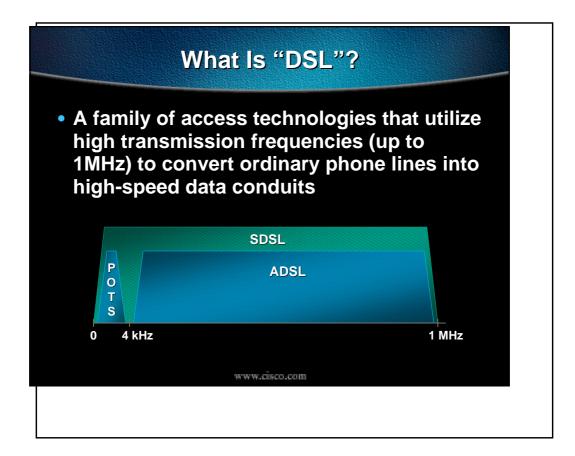
Abstract

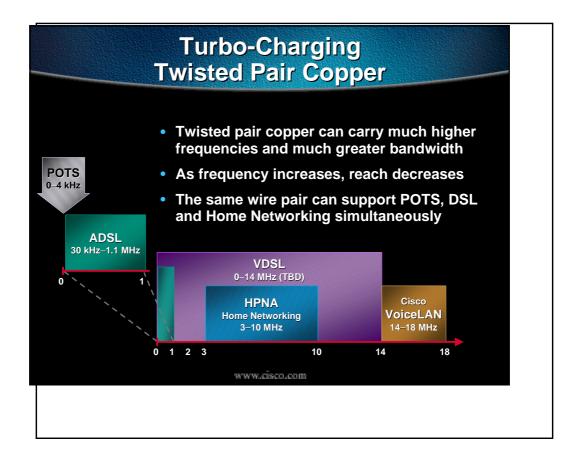
Deploying DSL

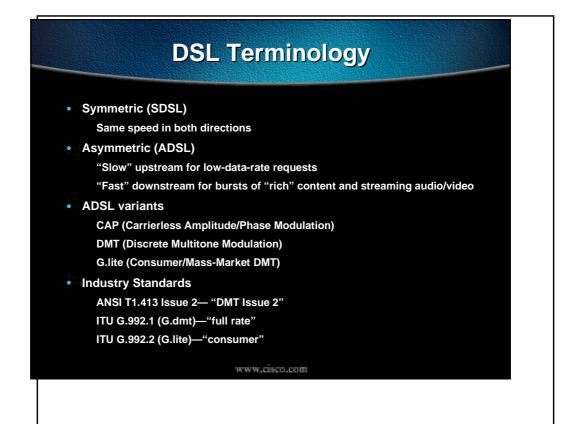
Digital Subscriber Line (DSL) technology unlocks the potential of conventional twisted pair telephone wire to deliver high-data-rate ("broadband") digital services. Over the past two years, Cisco has partnered with several Service Providers to roll-out DSL based services in mass. Learn how the Cisco end-to-end DSL solution can be utilized to meet your DSL deployment needs. This session includes a review of DSL service models and options, DSL transmission choices and subscriber qualification, provisioning methods, and tools for customer care.

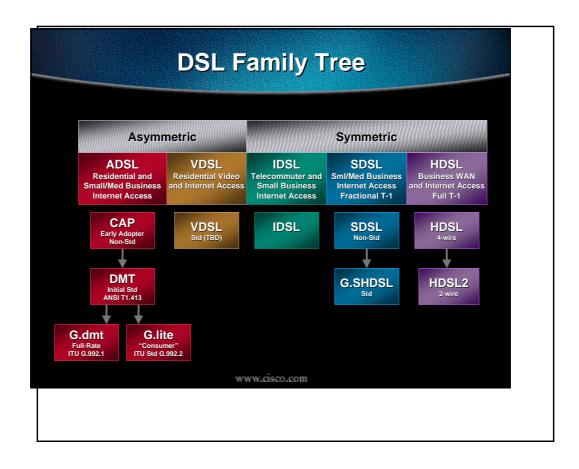
www.cisco.com



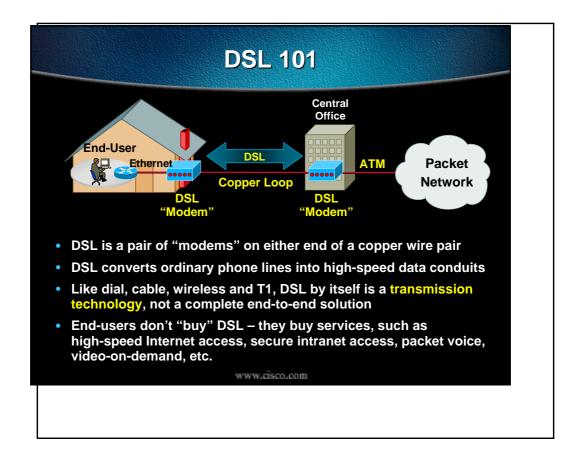




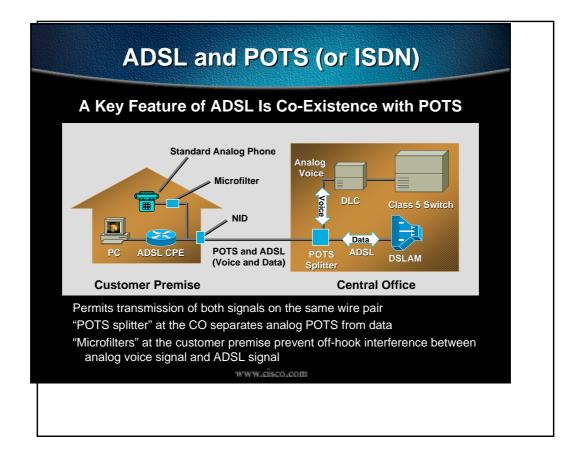




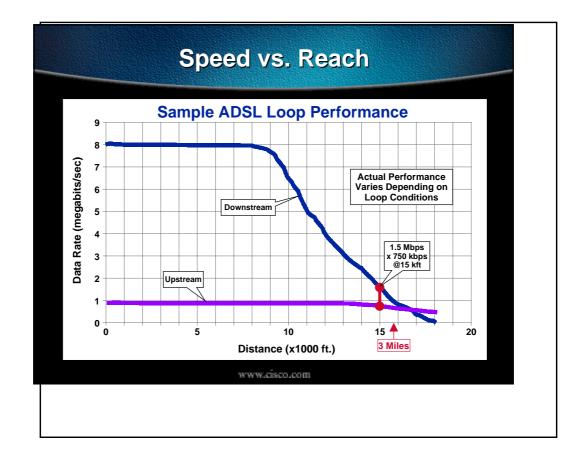
DSL Comparison Chart						
DSL Technology	Max Data Rate Down/Uplink (bps)	Max Reach feet (km)	Key Attributes	Primary Applications		
ADSL Asymmetric DSL	Full Rate: 8M/1M G.Lite: 1.5M/640K	18,000 (5.5)	Coexists with POTS technology of choice for residential/telecommuter	Consumer high-speed Internet access		
IDSL ISDN DSL	144K Symmetric	18,000 (5.5) x2 (with repeaters)	Uses existing ISDN CPE long range, but relatively slow	Telecommuter long reach fast Internet access		
SDSL Symmetric DSL	Up to 1 Mbps Symmetric	22,000 (6.9)	Symmetric non-standard	Small/med business data and voice over IP fractional T1		
HDSL 4-Wire High-Bit-Rate DSL	1.5M-2M (T1-E1) Symmetric	15,000 (4.6)	Current technology for T-1 deployment Requires 2 pair (4 wires)	Business WAN Full T1		
HDSL2 2-Wire High-Bit-Rate DSL	1.5M-2M (T1-E1) Symmetric	15,000 (4.6)	Optimized for full-rate Replaces 4-wire HDSL Std under development	Business WAN Full T1		
G.SHDSL High-Bit-Rate DSL	Up to 2M Symmetric	26,000 (8.2)	Optimized for fractional rates and long reach Std under development	Small/med business long reach fractional T1		
VDSL Very-High-Bit-Rate DSL	55M/1.6-2.3M 13M/1.6-2.3M	1,000 (0.3) 4,500 (1.5)	Very fast, short reach Co-exists with POTS No standard yet	Residential video and Internet access		
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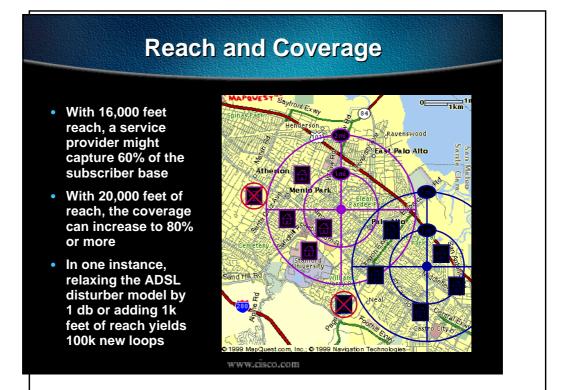




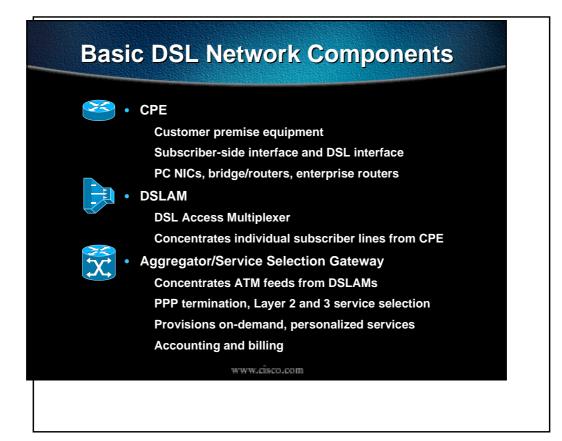


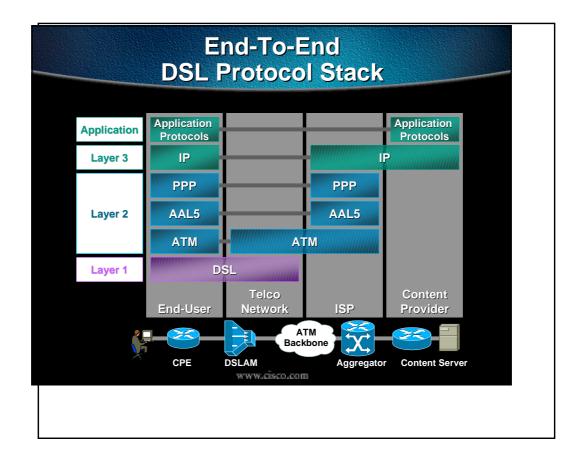


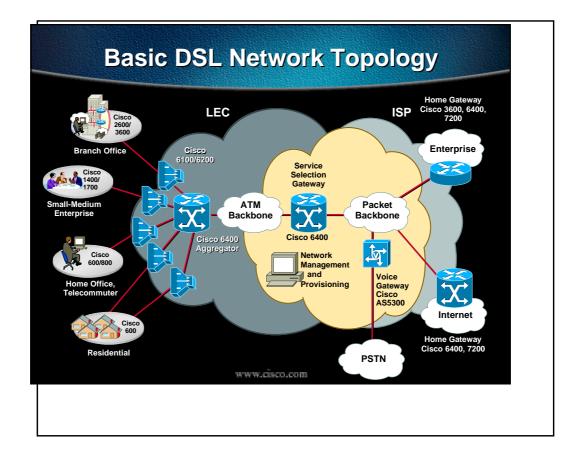


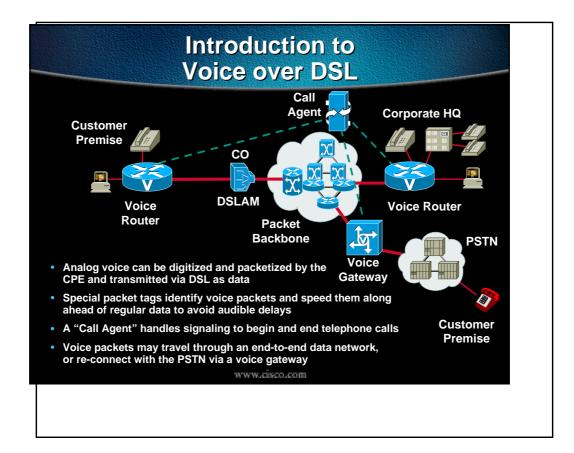


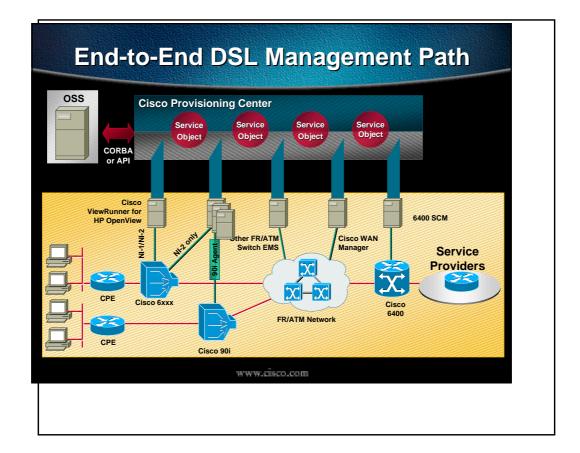


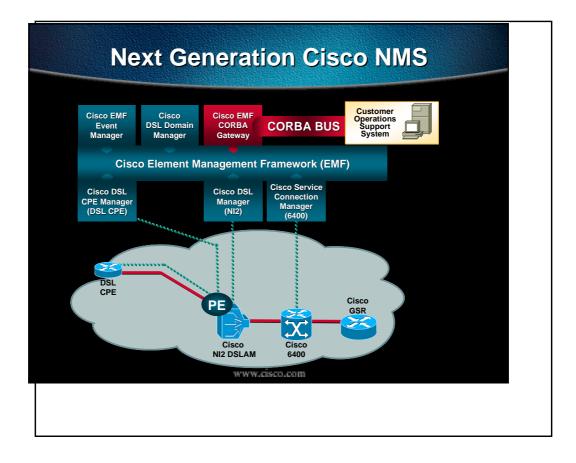


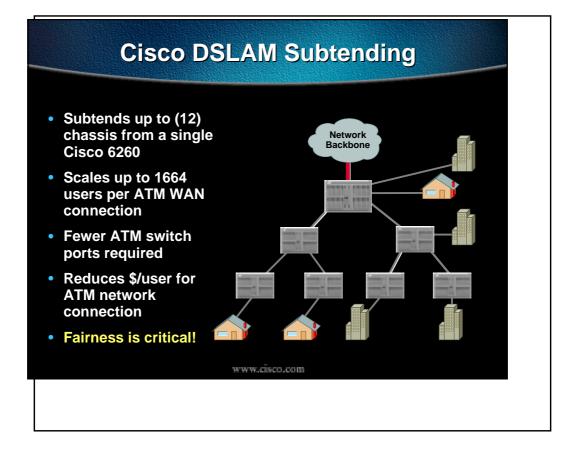


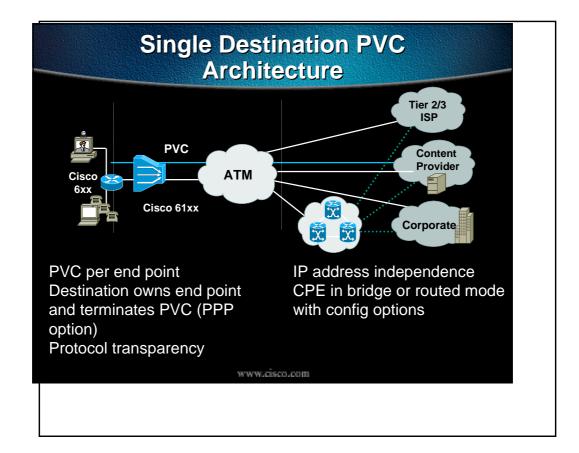


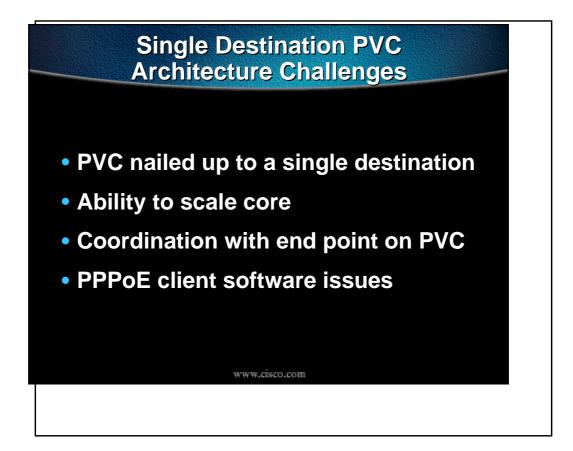


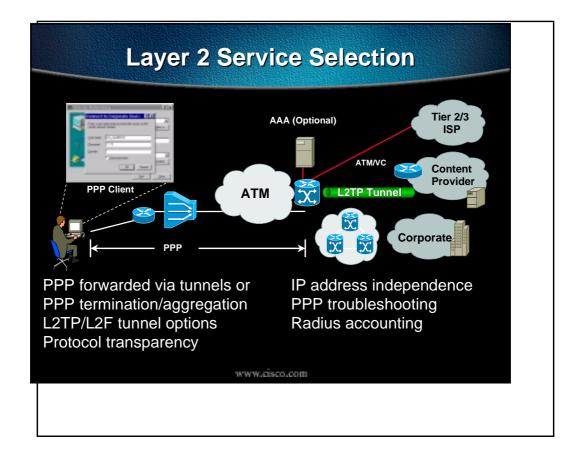










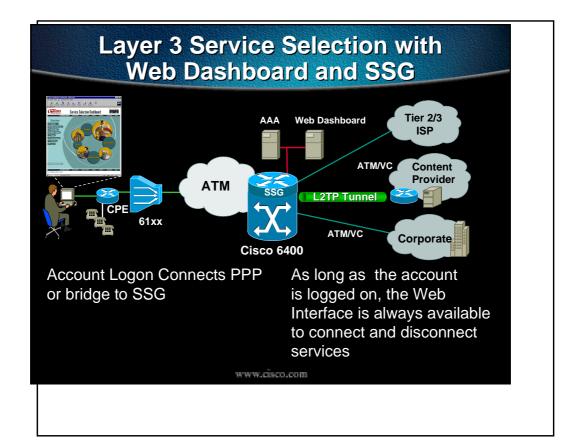


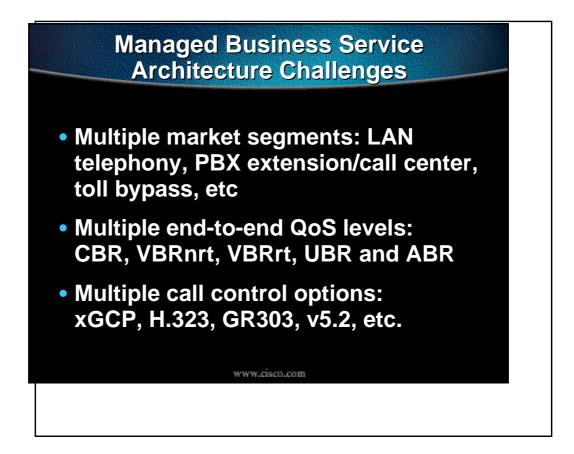
Layer 3 Service Selection via Enhanced Web **Customer Benefits** Travest Research Lines Part Secare Turn services on/off instantly Cisco Cisco Service Selection Dashboard Access multiple services simultaneously Access personalized service portfolio Select varying services security and quality options **Service Provider Benefits**

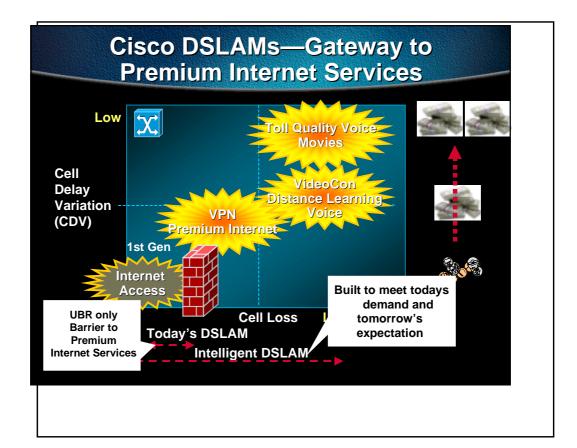
- Advertise services available
- Offer on-demand services
- Keeps users "on-net"
- Accounting and billing on usage

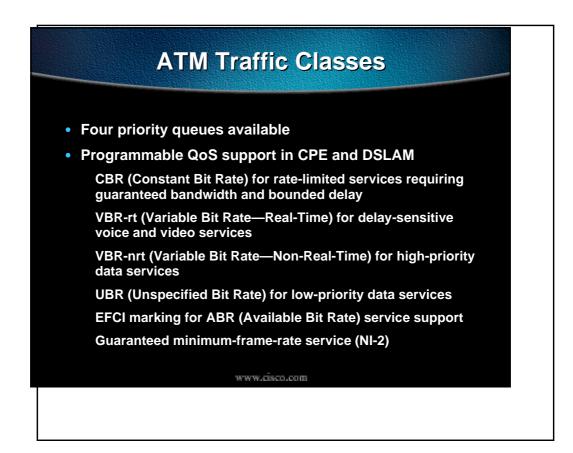


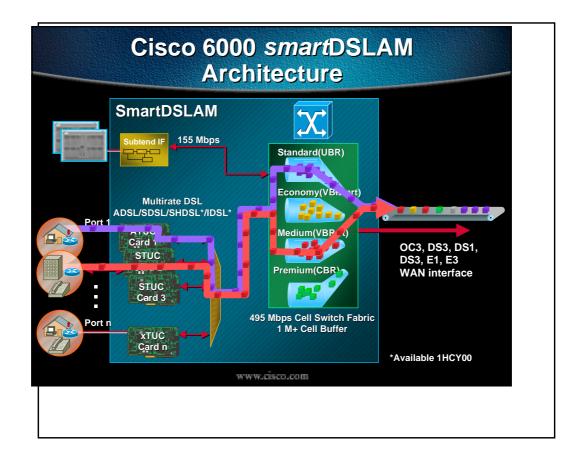
Ishboard	User Profiles	Service Profiles	
Service Selection Dashboard	jdoe Password = letmein Service = Internet Service = cisco.com Service = Games	cisco.com Password = cisco vpdn:tunnel-id=cisco-gw vpdn:ip-addresses=1.1.1.2 vpdn:nas-password=12000 vpdn:gw-password=GSR	
	dsmith Password = wombat Service = Internet Service = coke.com Service = Games	Games Password = cisco vpdn:tunnel-id=games-gw vpdn:ip-addresses=3.1.3.1 vpdn:nas-password=Space vpdn:gw-password=Invader	
	Radius Server	VoIP Password = cisco vpdn:tunnel-id=voip-gw vpdn:ip-addresses=3.3.2.1 vpdn:nas-password=pin vpdn:gw-password=drop	





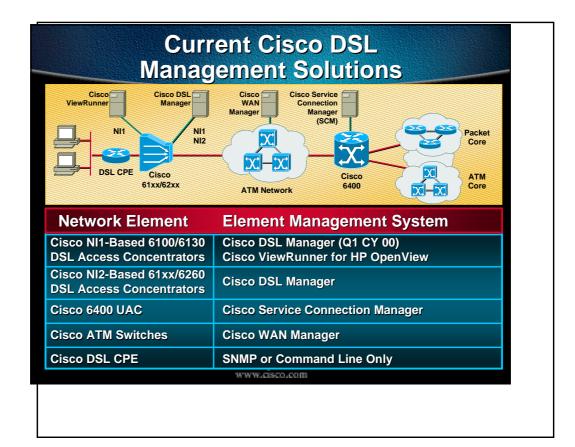


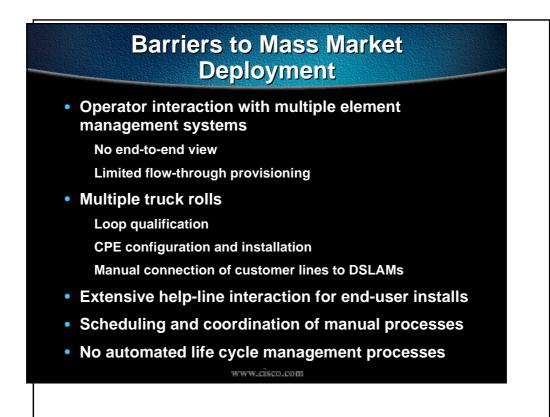


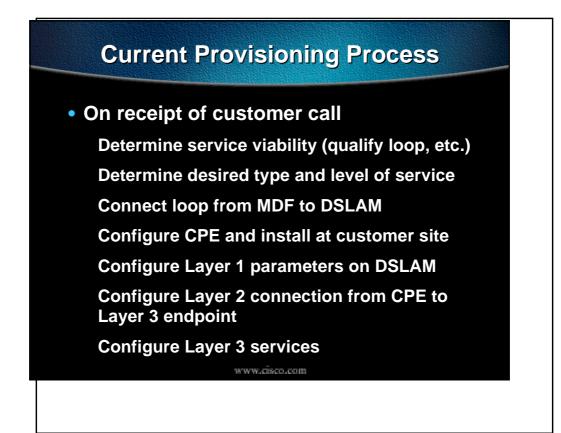


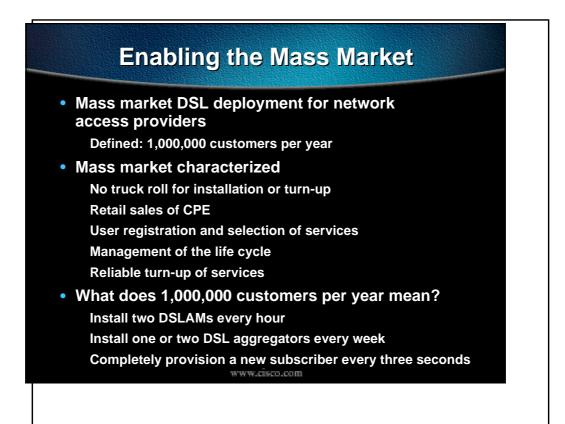


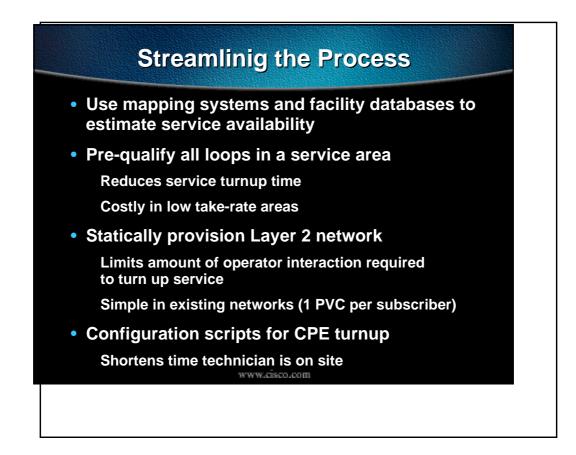


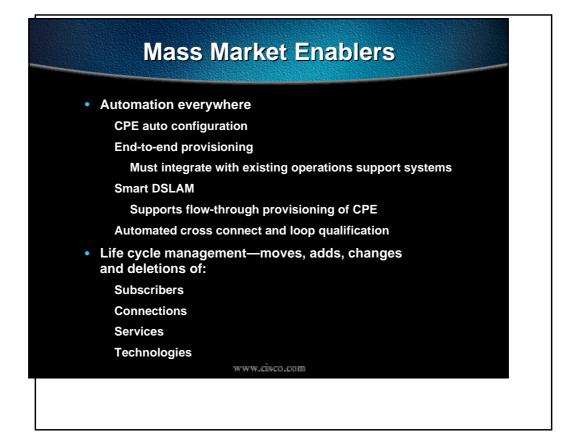


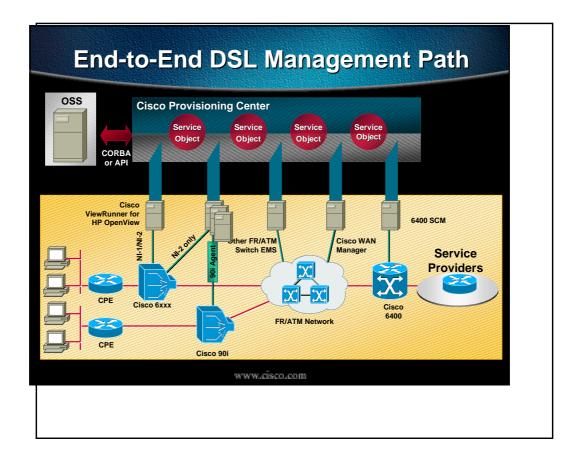


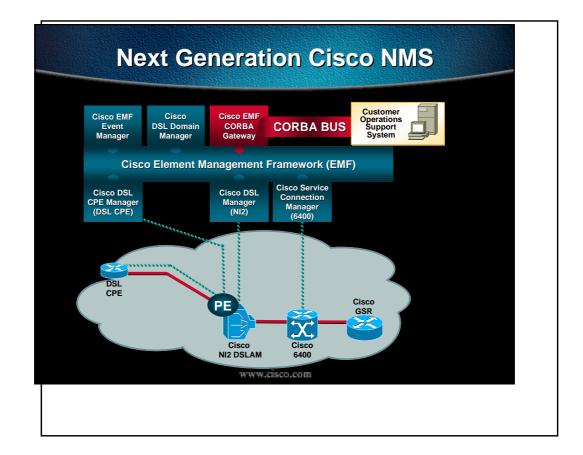


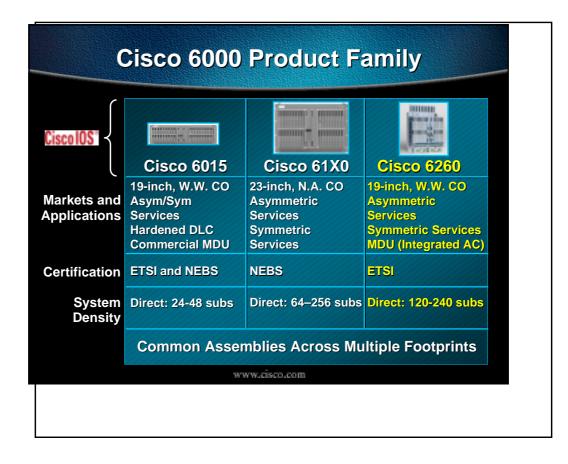


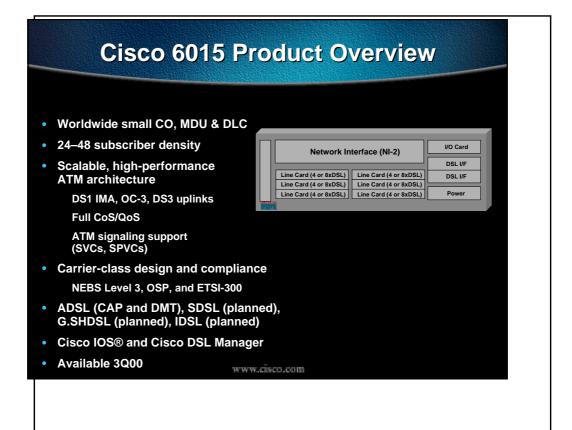




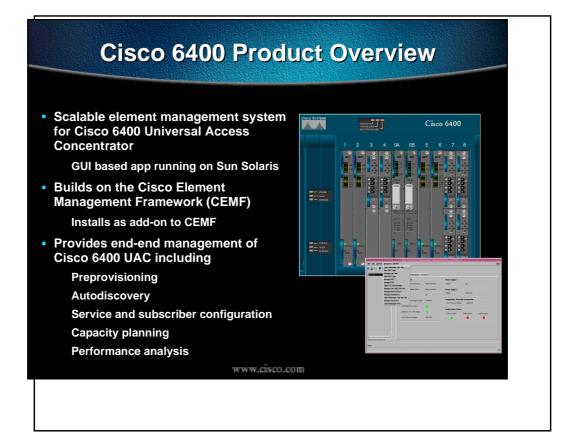


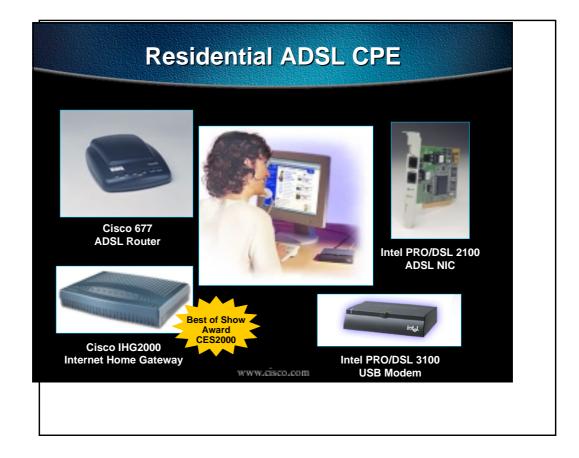


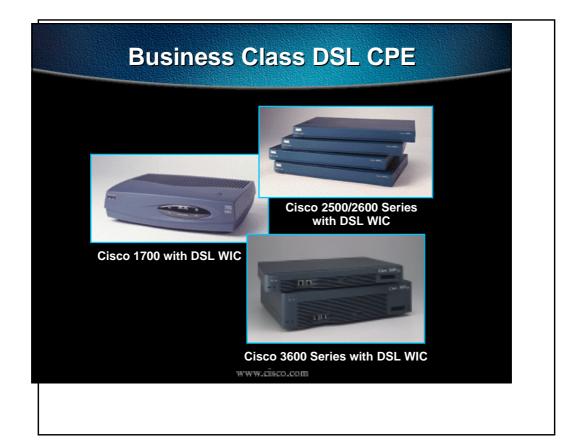














Learn More

Cisco has a fully staffed DSL solutions lab available to support your network architecture and services development. We welcome the opportunity to partner with you in making DSL a key component of your business success









