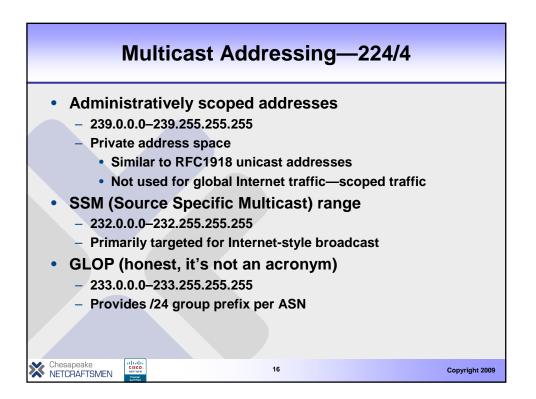


Multicast Addressing						
IPv4 Header						
Version		Type of Service Address C Multicast C Protocol	an Nev Group A	ddress		
Source		0 - 223.255.255.255 (Clas				
Destination 224.0.0.0 - 239.255.255.255 (Class D) Multicast Group Address Range						
	Options			Padding		
		14		Copyright 2009		



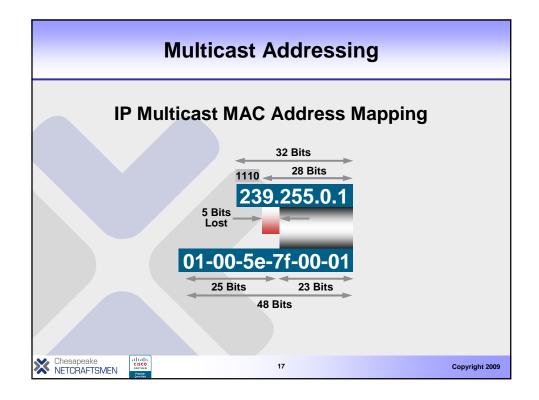


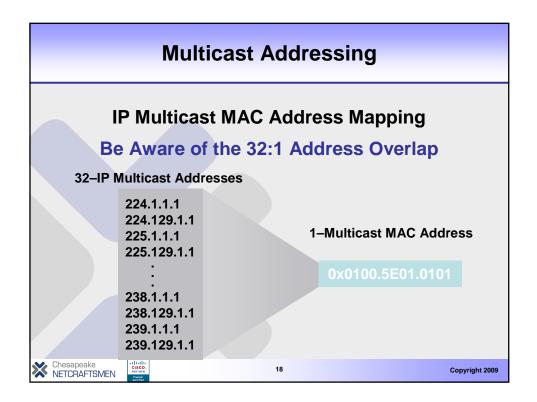
Multicast Addressing—224/4					
Reserved link-local addresses					
- 224.0.0.0-224.0.0.255					
 Transmitted with TTL = 1 					
– Examples					
• 224.0.0.1	All systems on this subnet				
• 224.0.0.2	All routers on this subnet				
• 224.0.0.5	OSPF routers				
• 224.0.0.13	PIMv2 routers				
• 224.0.0.22	IGMPv3				
Other reserved addresses					
- 224.0.1.0-224.0.1.255					
 Not local in scope (transmitted with TTL > 1) 					
– Examples					
• 224.0.1.1	NTP (Network Time Protocol)				
• 224.0.1.32	Mtrace routers				
• 224.0.1.78	Tibco Multicast1				
Chesapeake NETCRAFTSMEN	15	Copyright 2009			





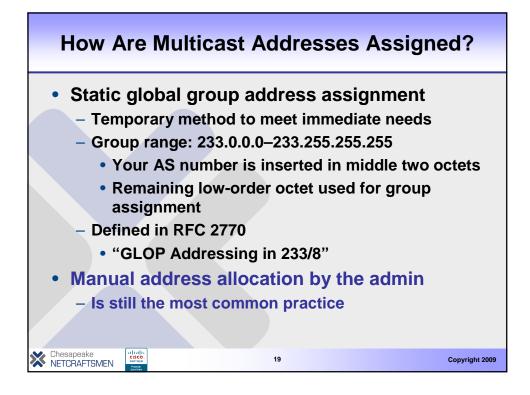


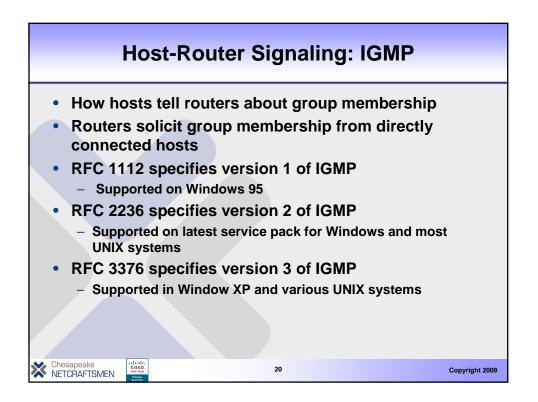






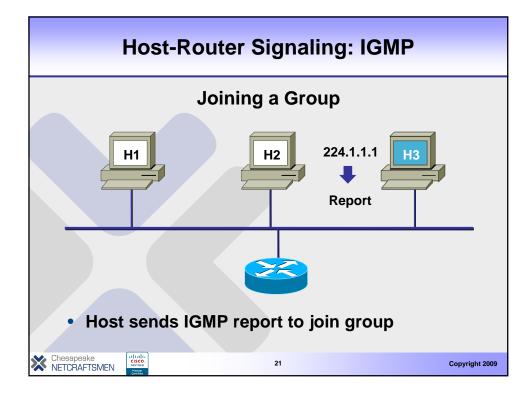


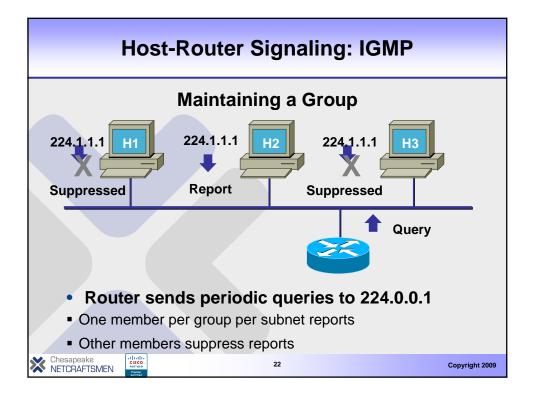






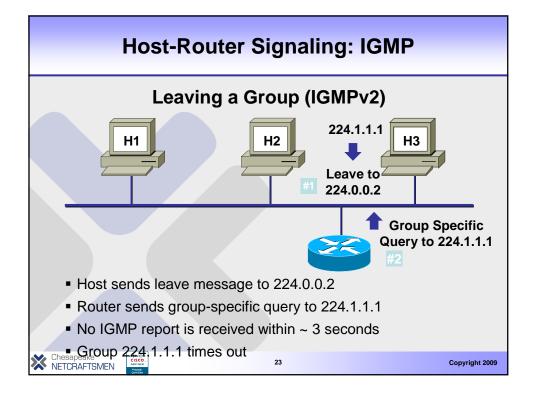


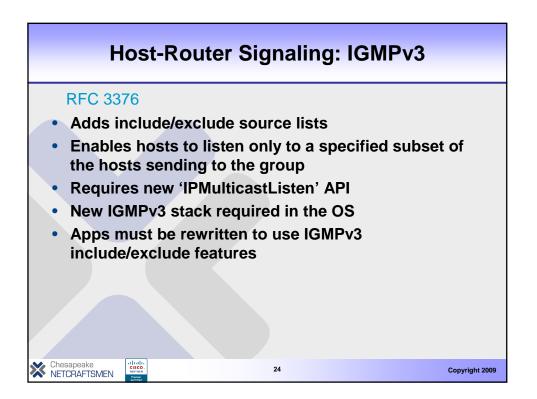






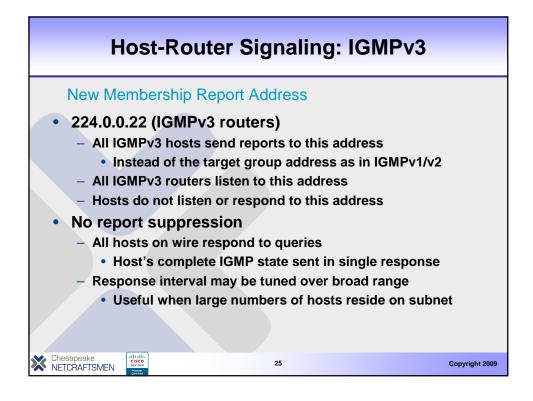


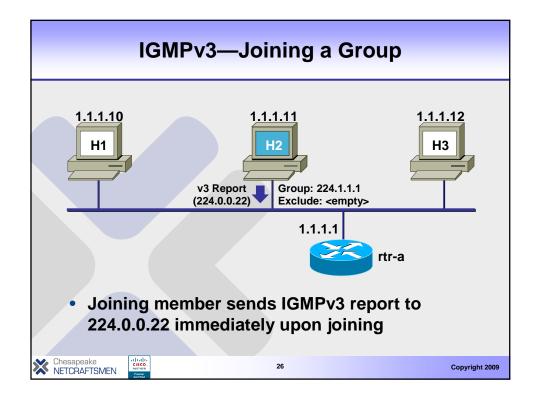






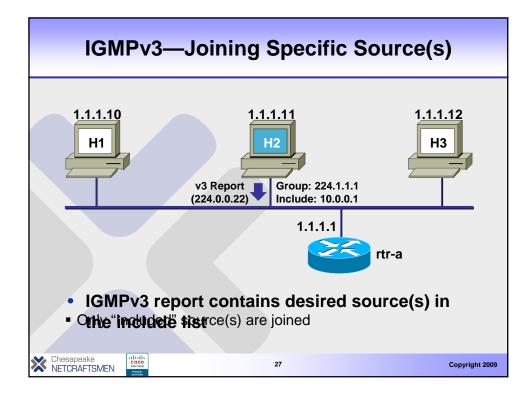


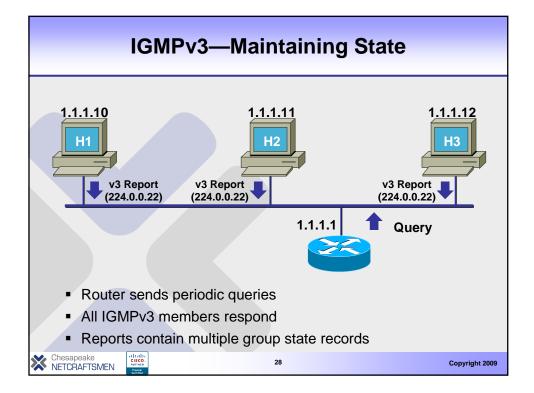






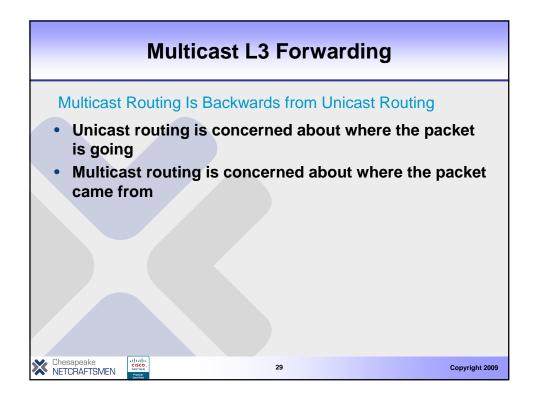


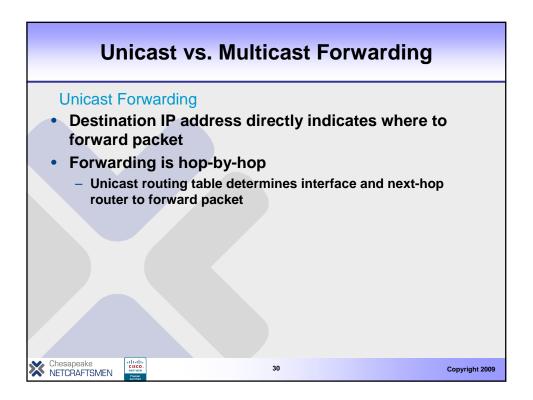






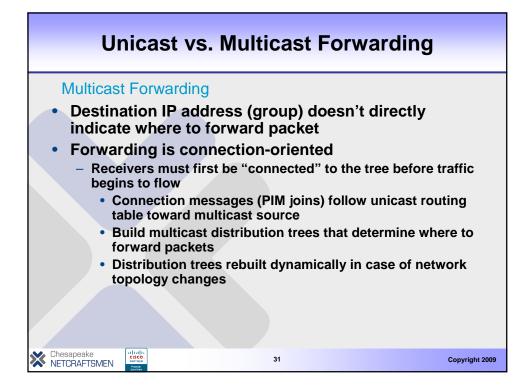


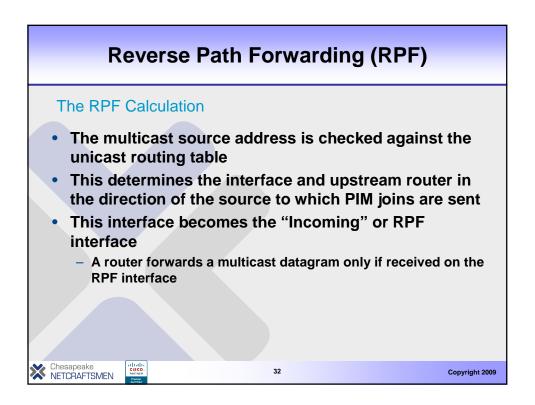






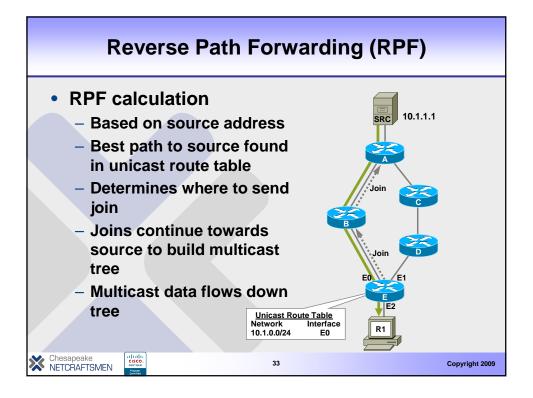


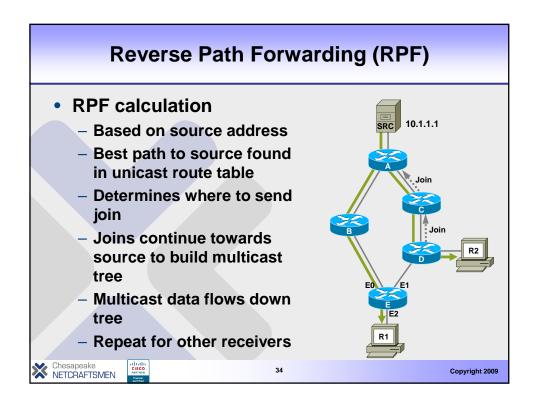






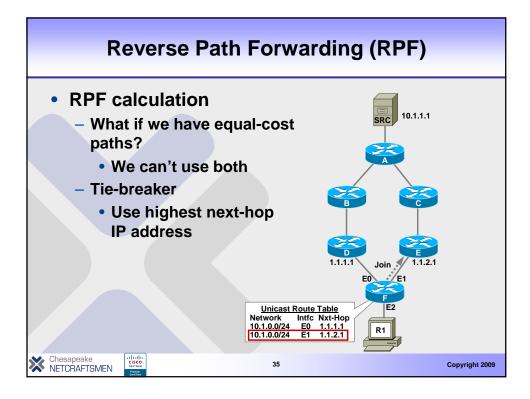


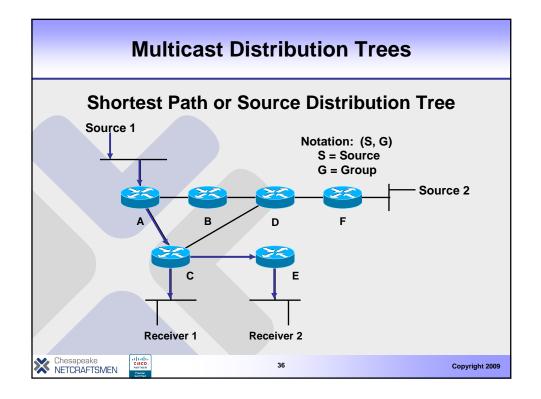






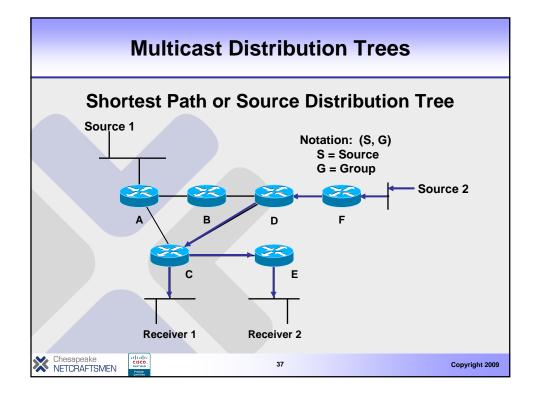


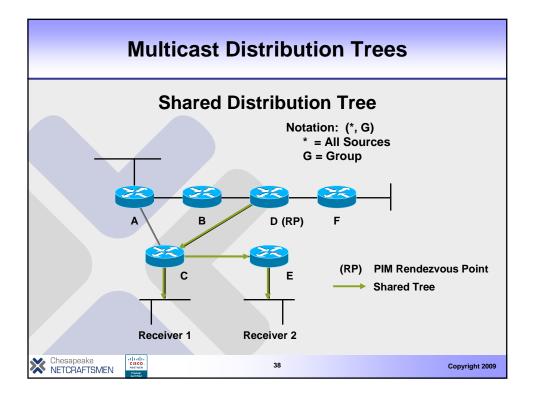






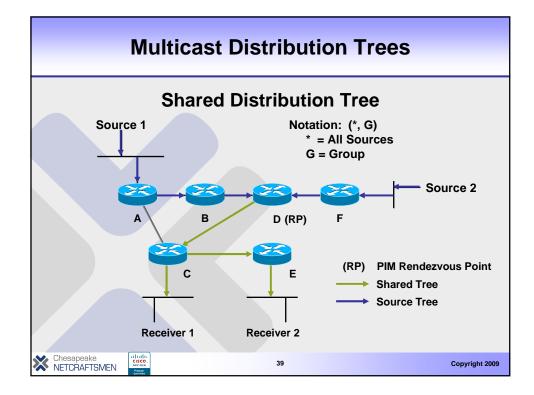


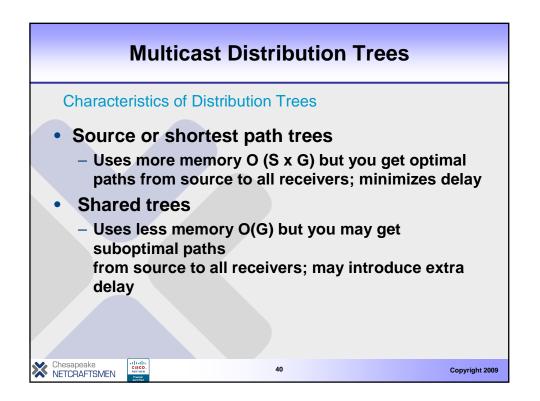






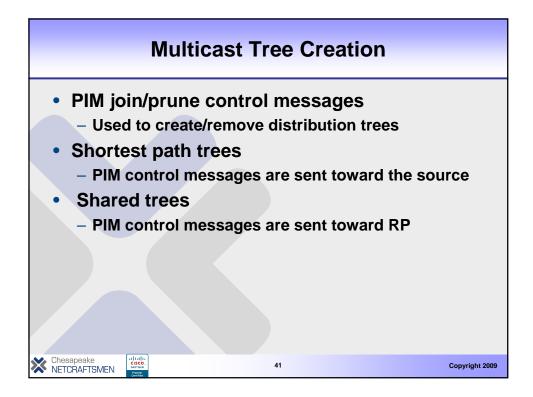


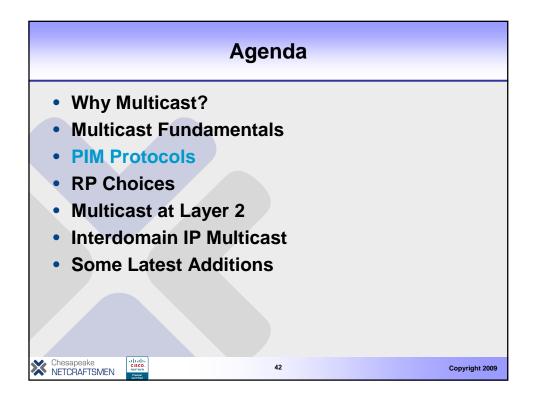






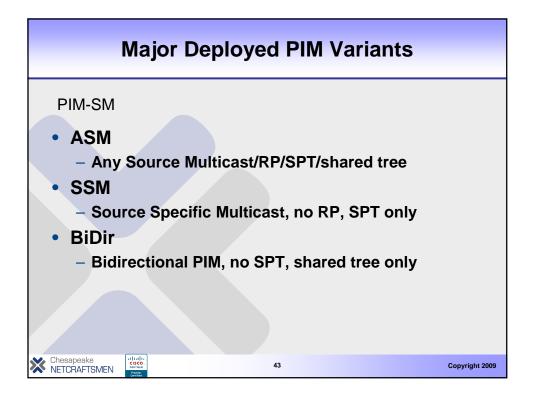


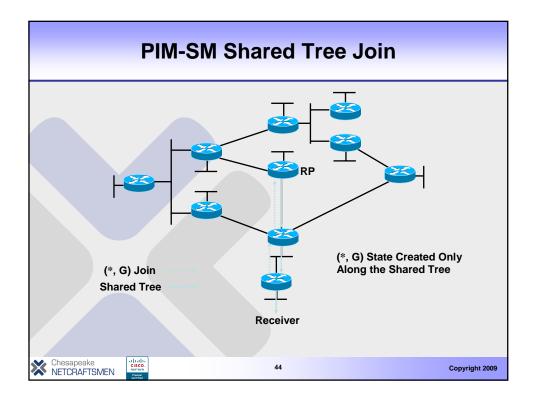






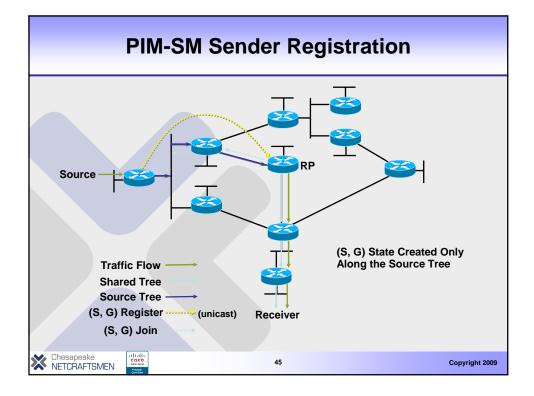


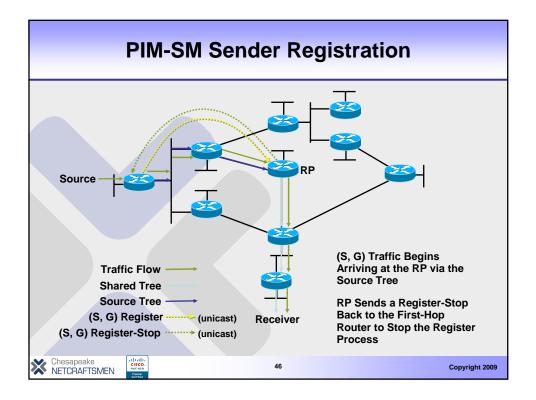






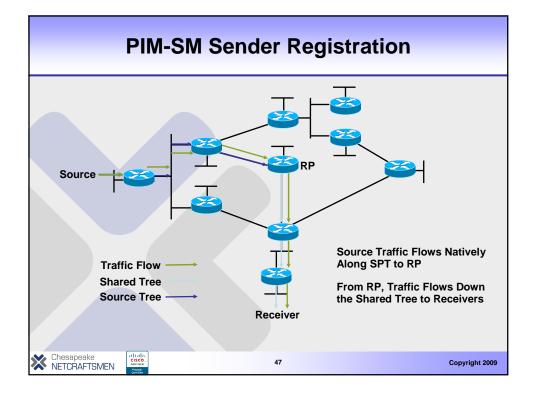


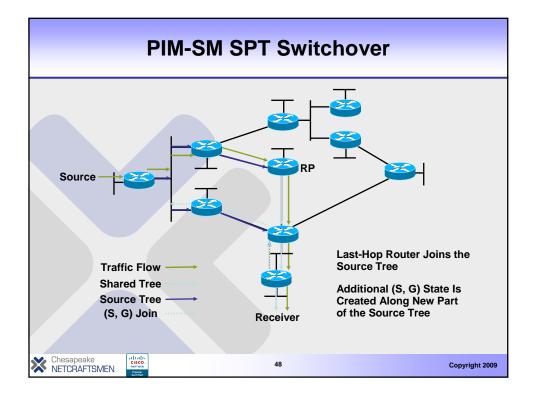






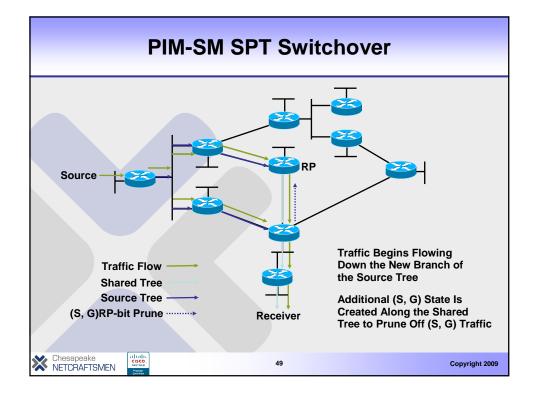


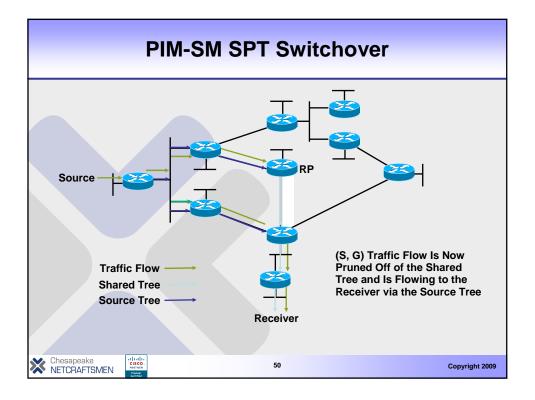






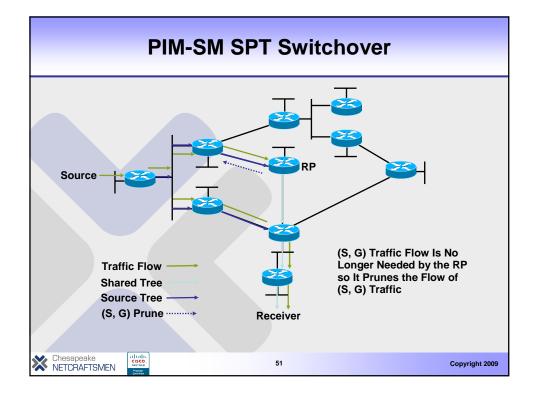


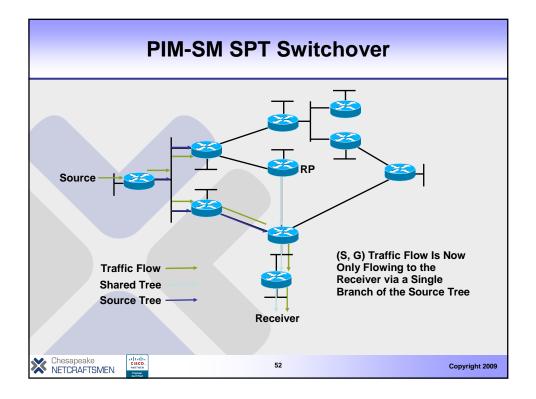






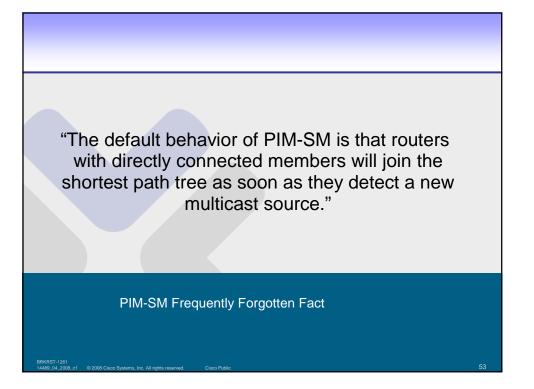


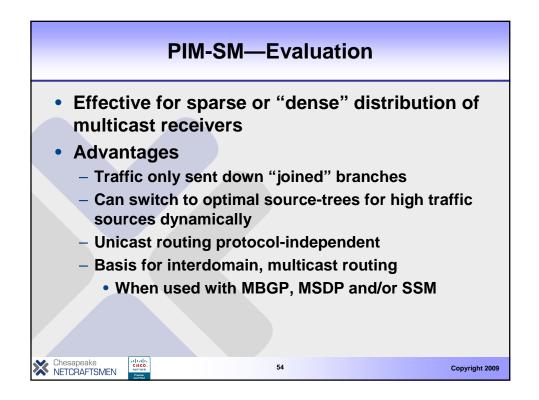






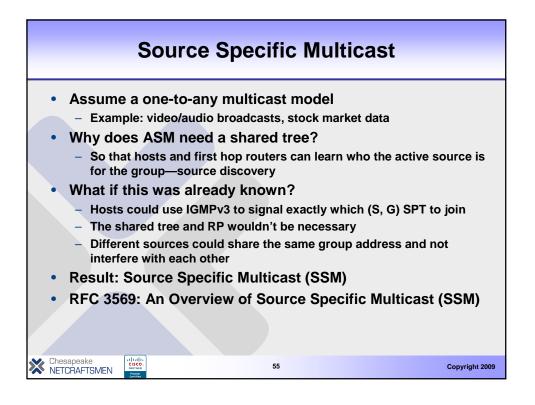


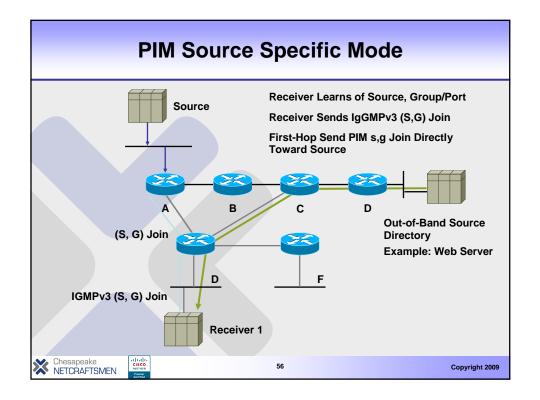






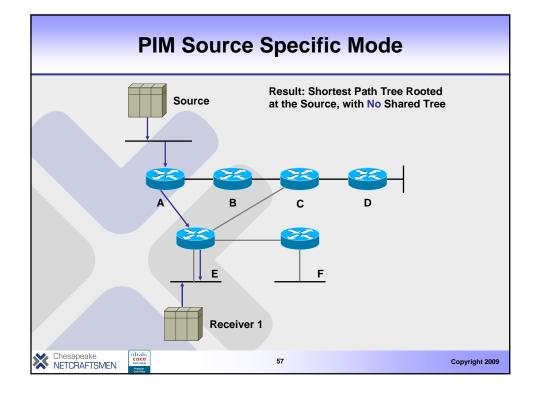


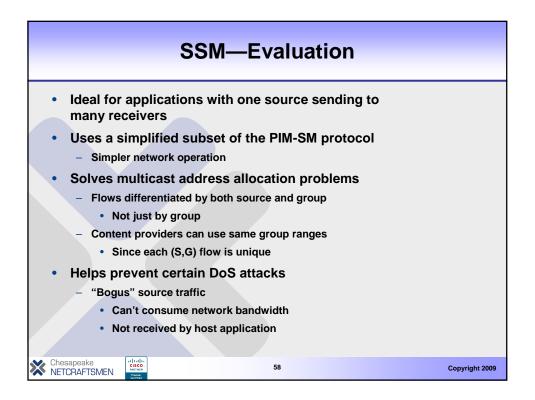






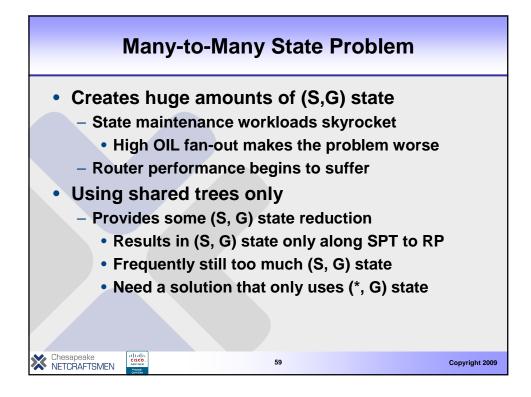


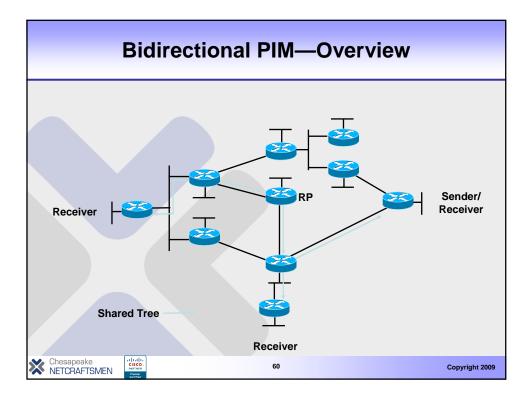






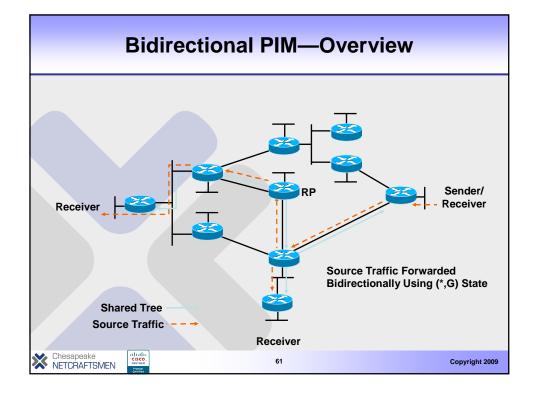


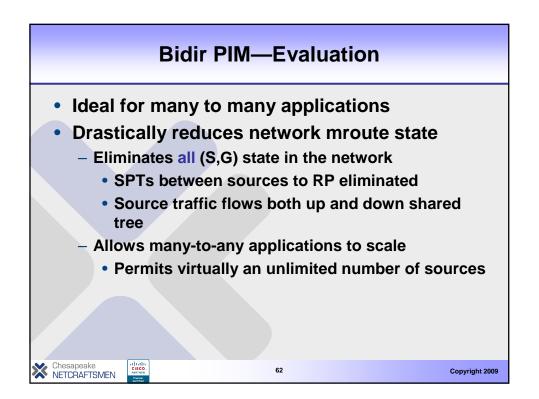








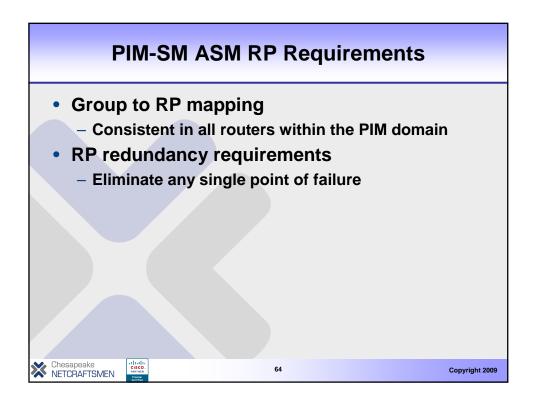






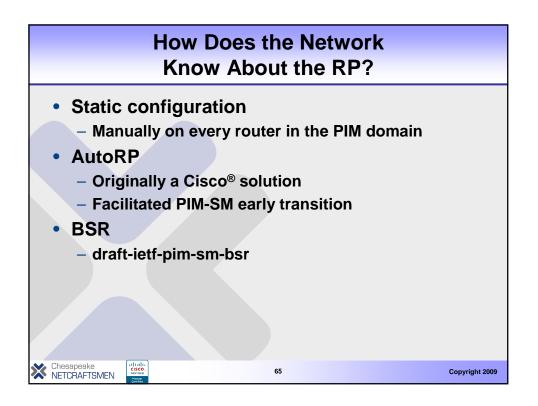


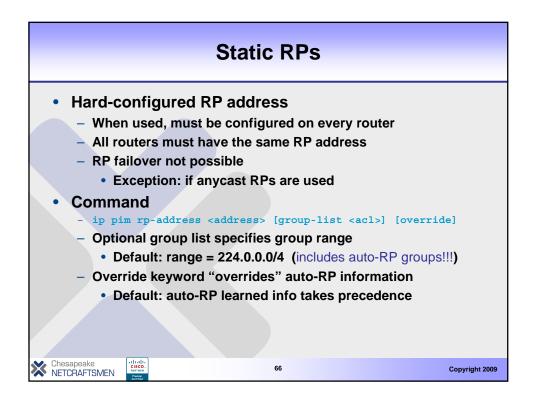






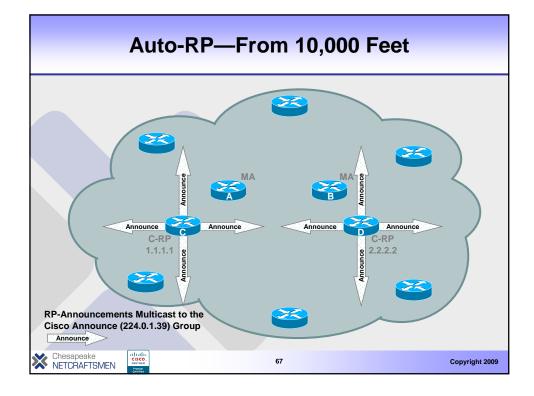


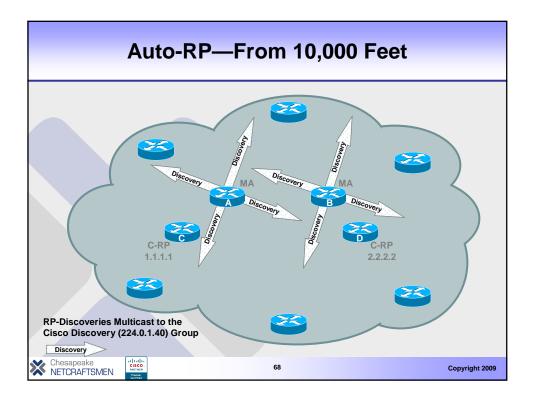






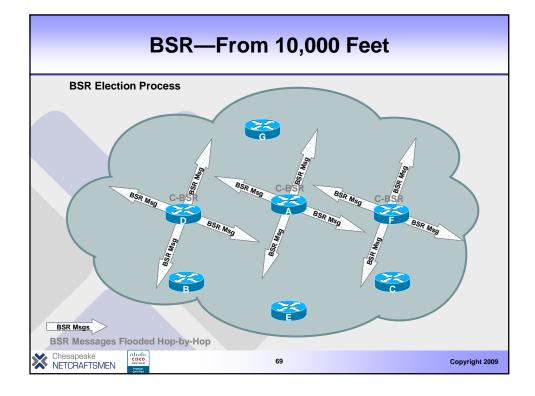


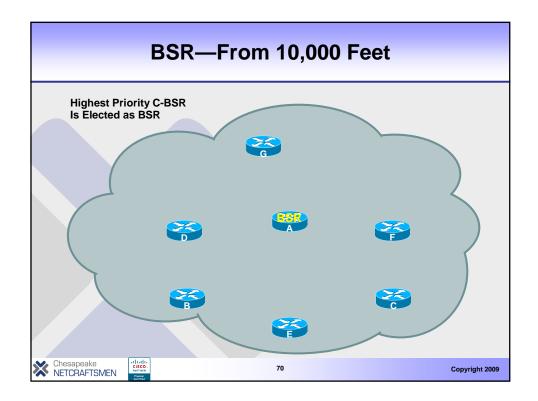






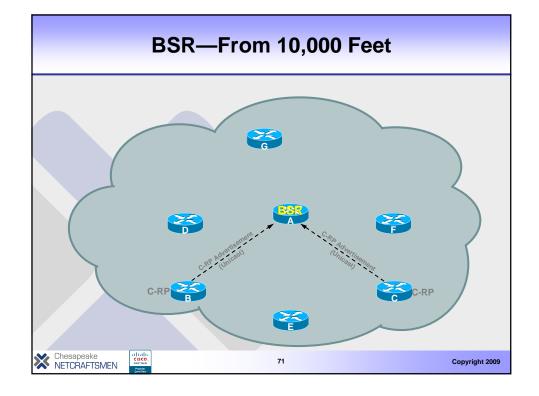


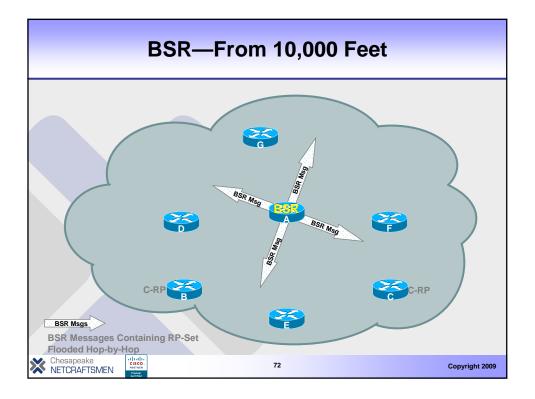








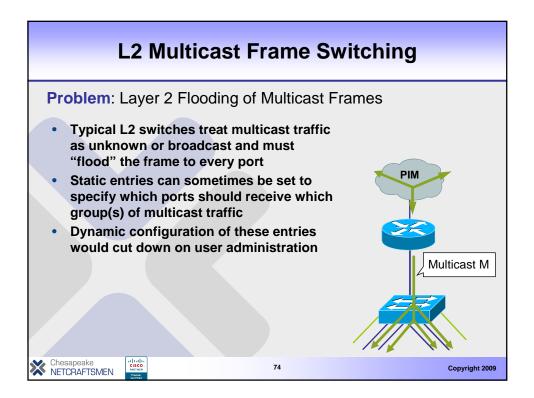






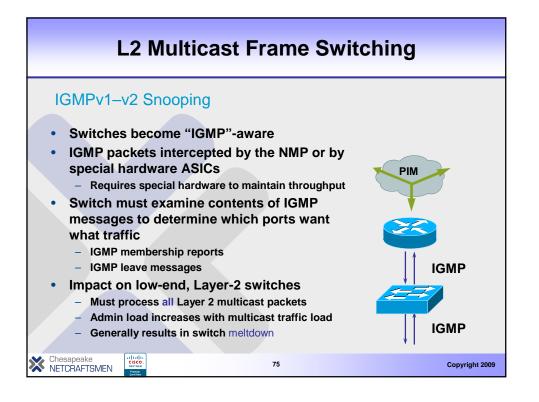


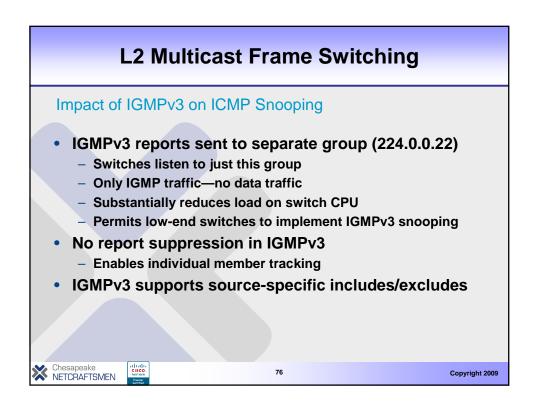






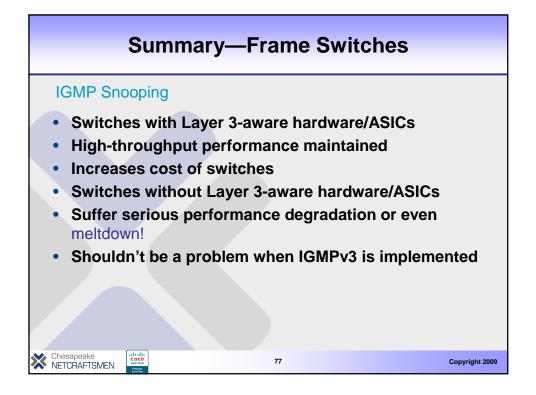
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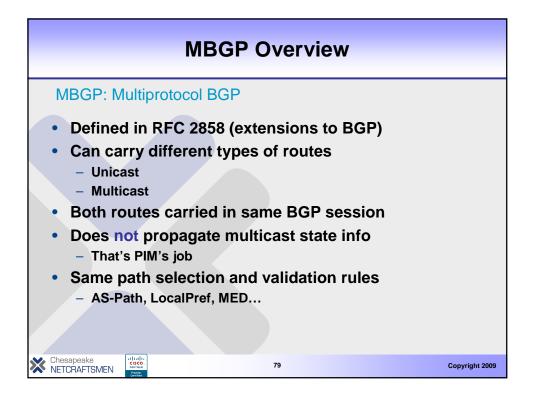


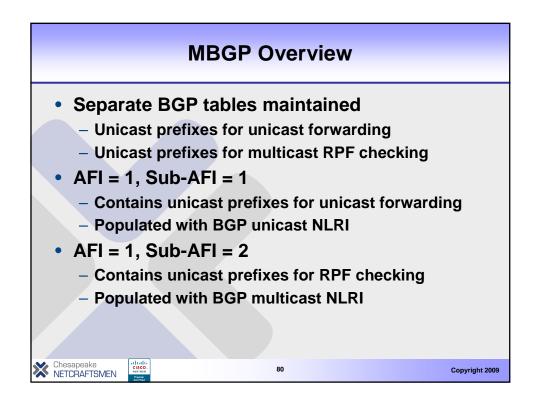






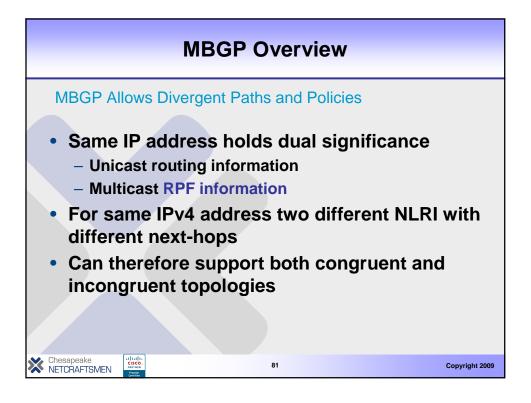


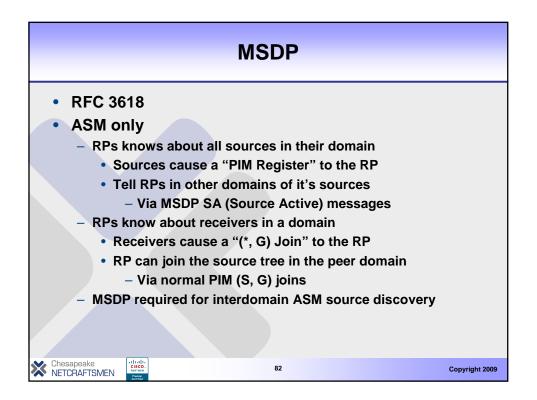






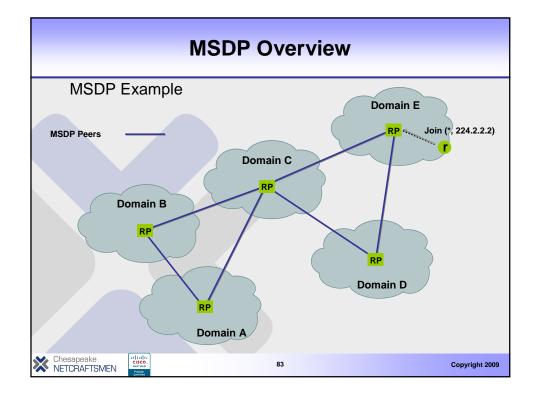


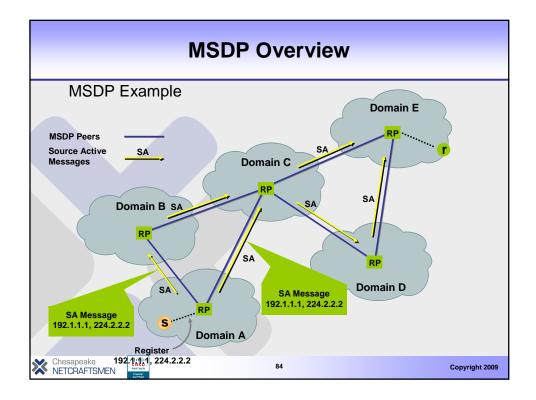






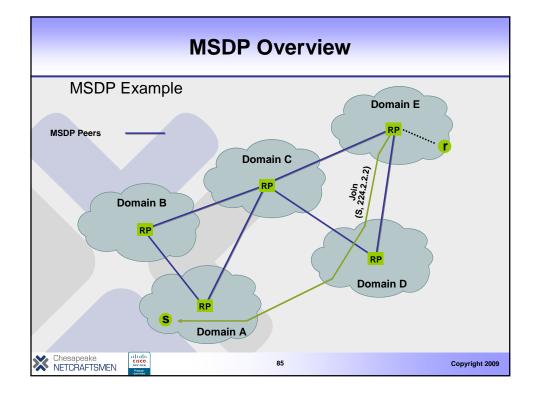


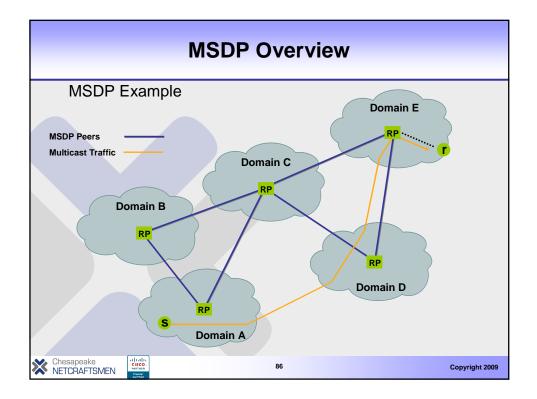






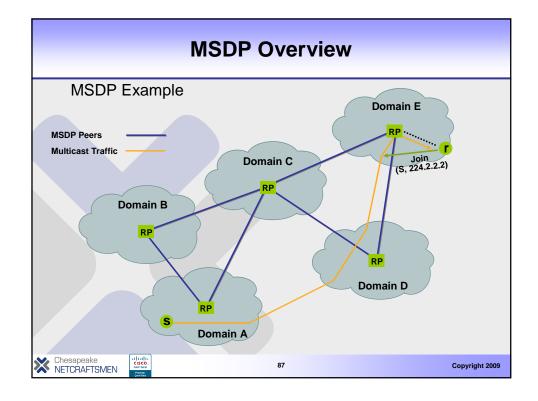


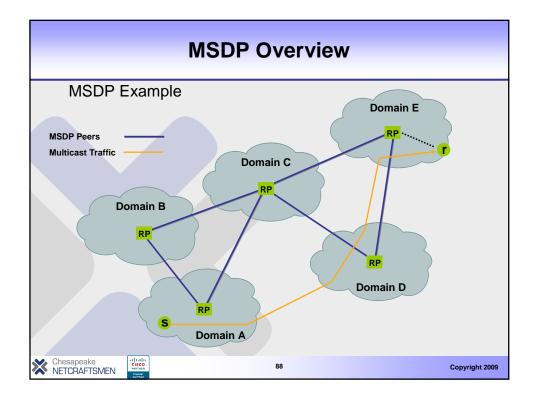






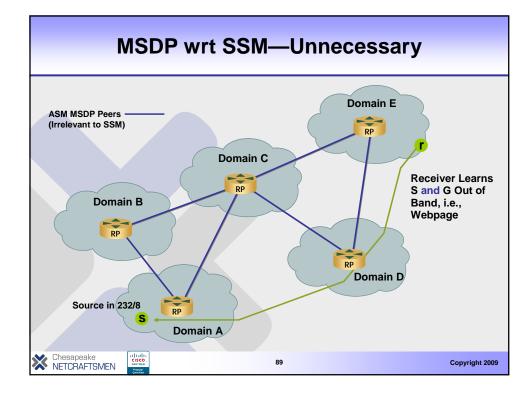


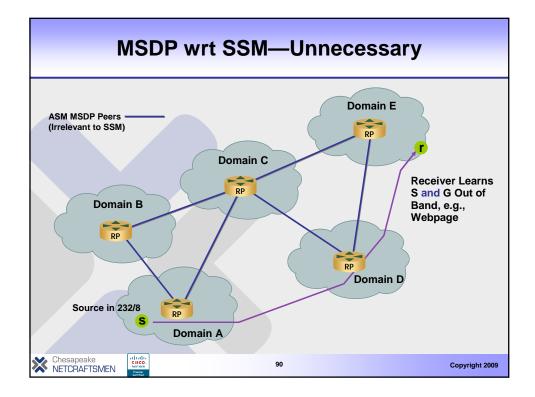






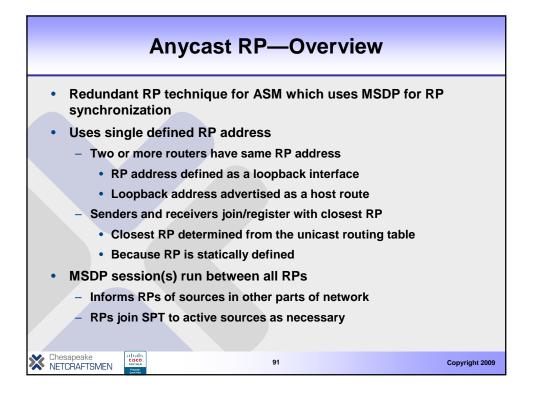


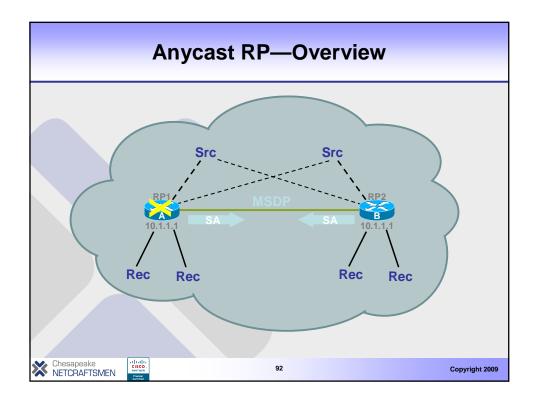






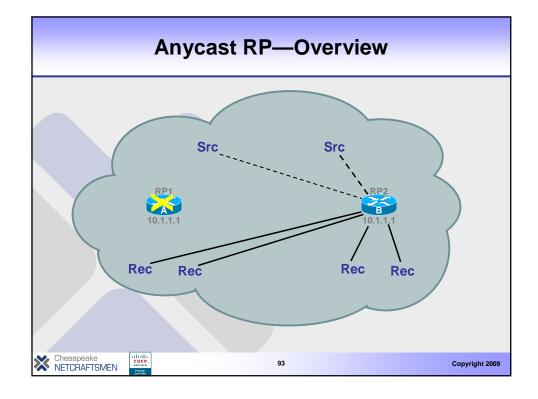


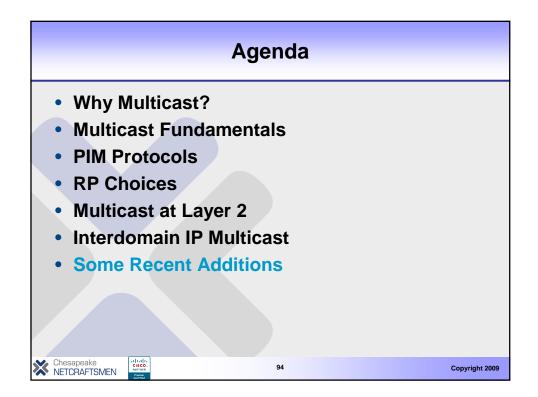






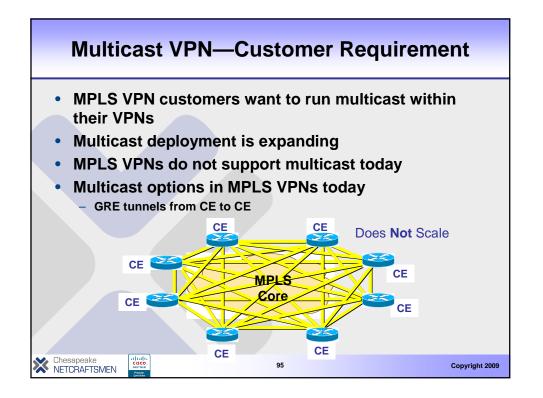


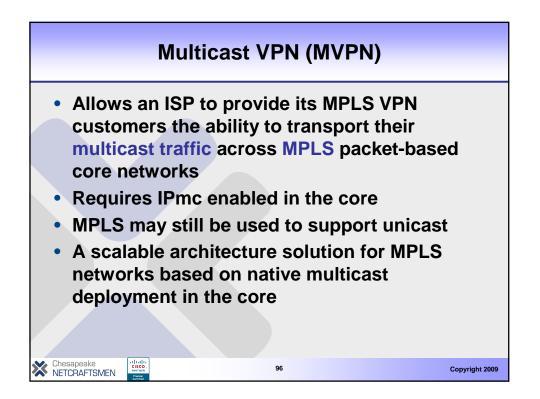






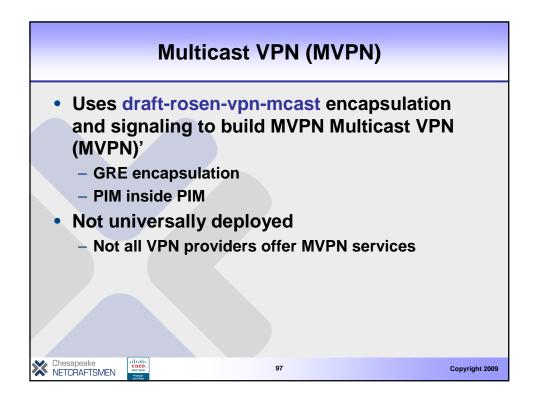








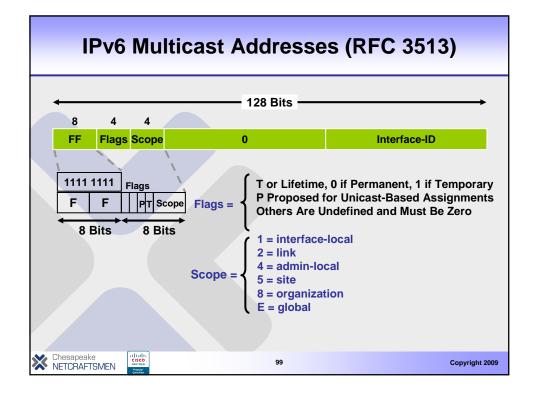


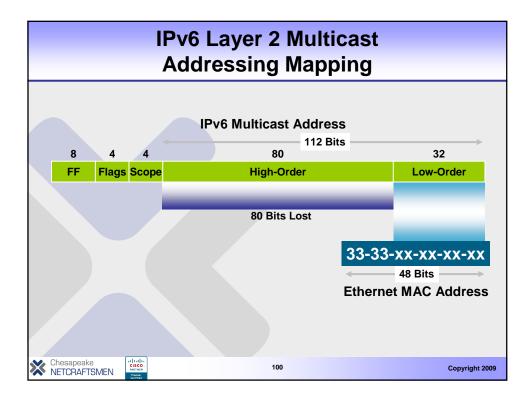


IPv4 Versus IPv6 Multicast					
	IP Service	IPv4 Solution	IPv6 Solution		
	Address Range	32-Bit, Class D	128-Bit (112-Bit Group)		
	Routing	Protocol-Independent All IGPs and GBP4+	Protocol-Independent All IGPs and BGP4+ with v6 Mcast SAFI		
	Forwarding	PIM-DM, PIM-SM: ASM, SSM, BiDir	PIM-SM: ASM, SSM, BiDir		
	Group Management	IBMPv1, v2, v3	MLDv1, v2		
	Domain Control	Boundary/Border	Scope Identifier		
	Interdomain Source Discovery	MSDP Across Independent PIM Domains	Single RP Within Globally Shared Domains		
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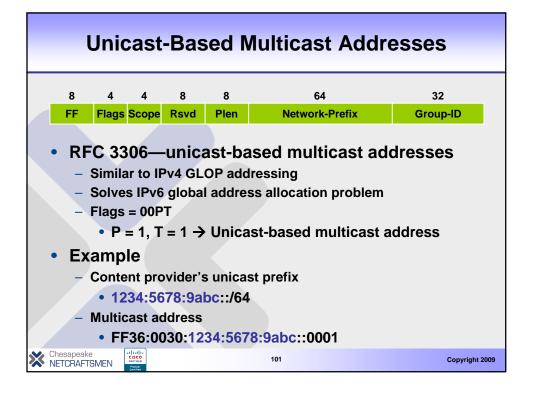


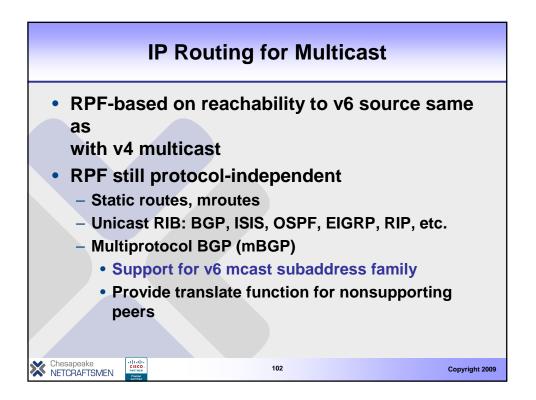






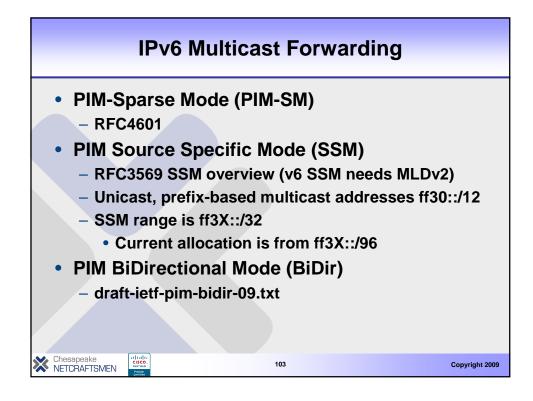


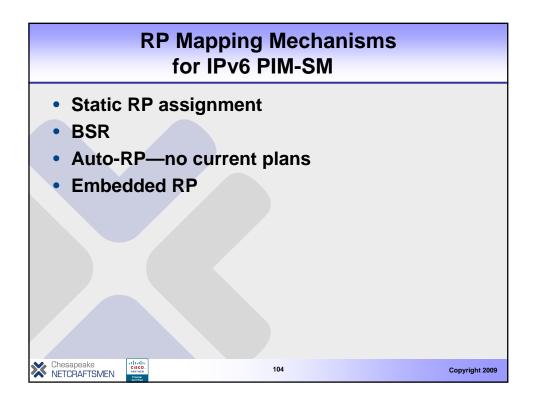






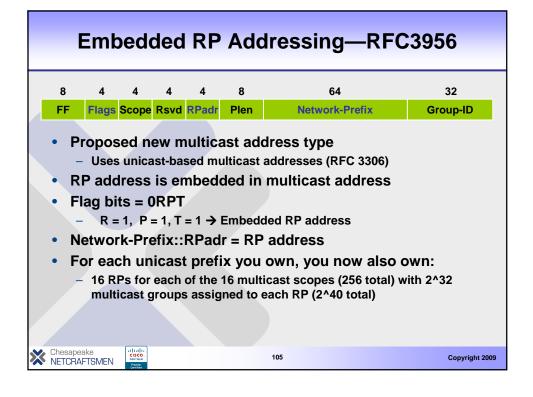


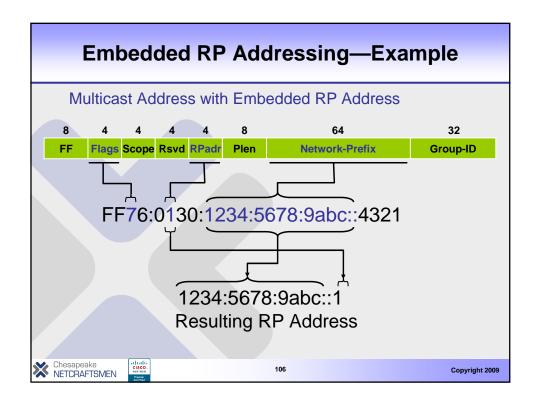






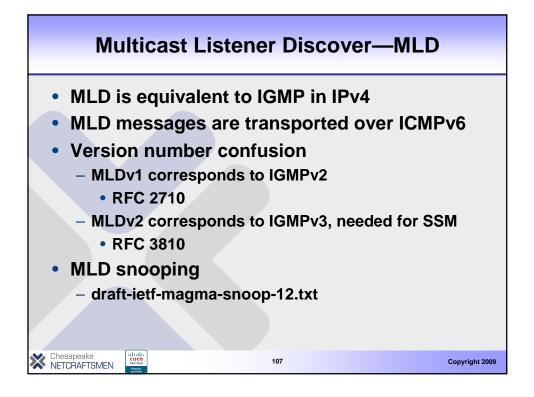
















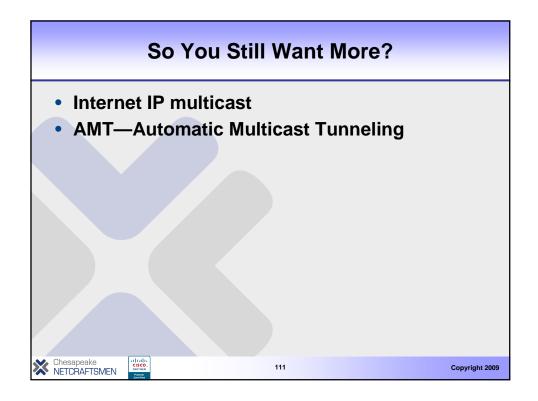


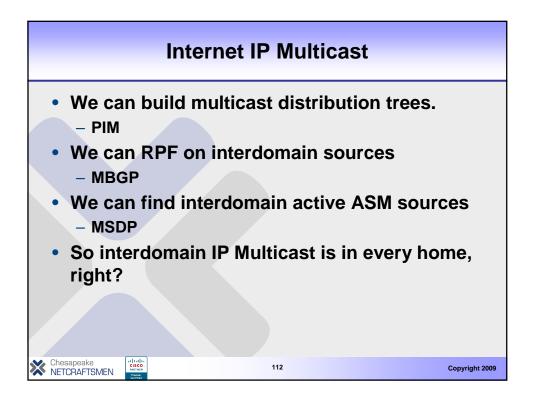
Δ	ny Questions?	
 References: see web artii http://www.netcraftsmen.net About Chesapeake Netcr Cisco Premier Partner Cisco Customer Satisfa We wrote the original ve Partner status (and tool Cisco Advanced Specia Advanced Unified O Advanced Wireless Advanced Routing Advanced Data Cee We have deep expertise two double CCIE's) We do network / security 	et/welcher/papers/index.htm aftsmen: ction Excellence rating ersion of the Express Foundations courses reque a and passed the tests), and the recent major CC lizations: Communications (and IP Telephony) & Switching hter Networking Infrastructure in Routing and Switching (several R&S and y / net mgmt / unified communications	ired for VAR Premier
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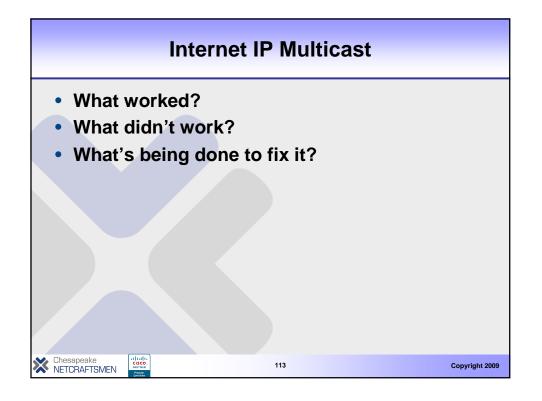


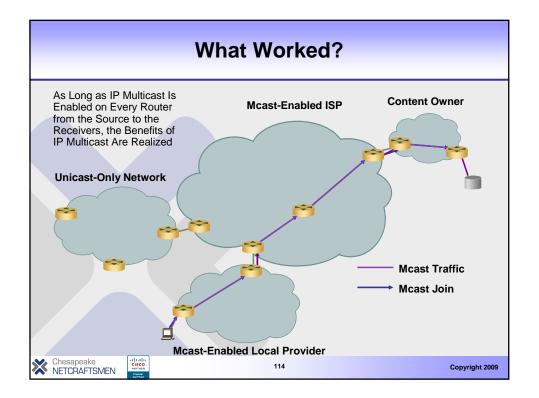






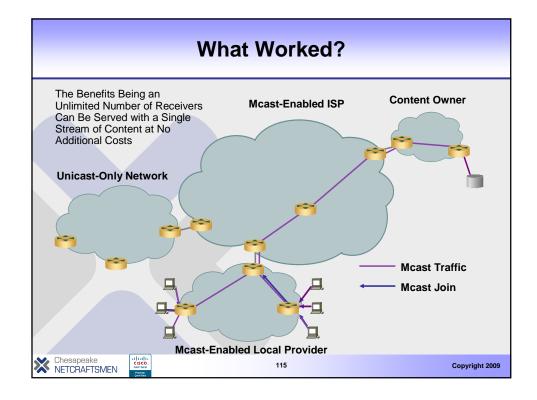


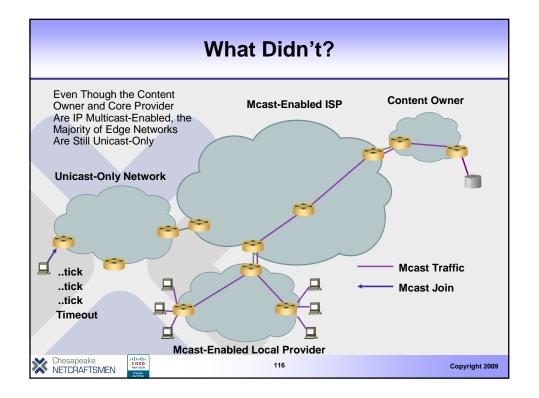






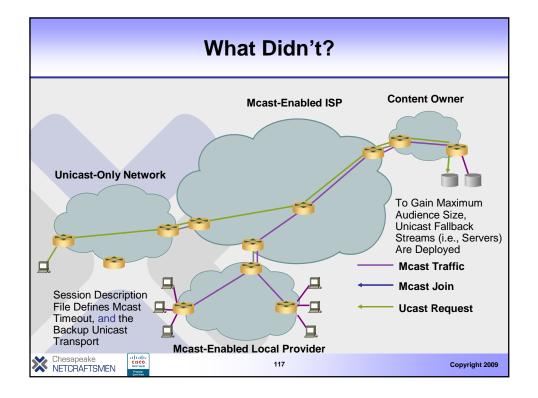
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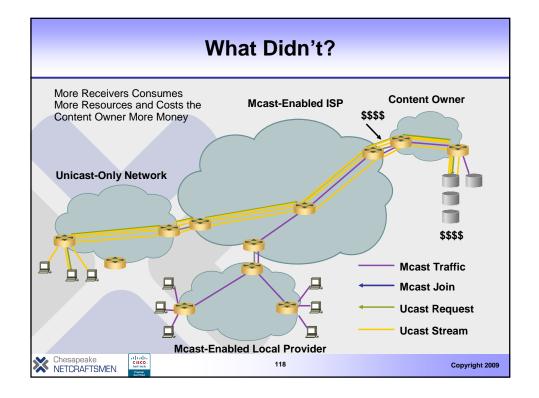






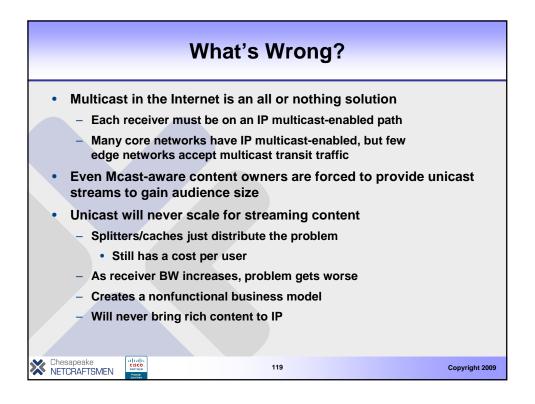
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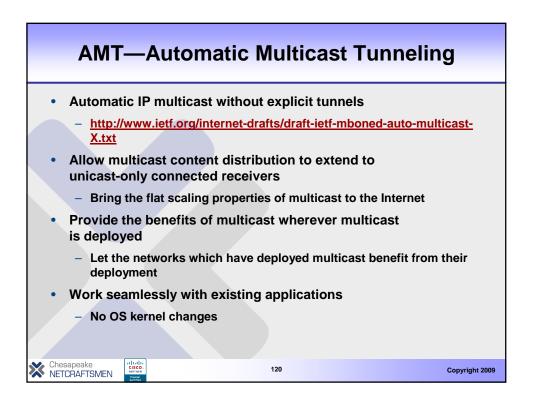






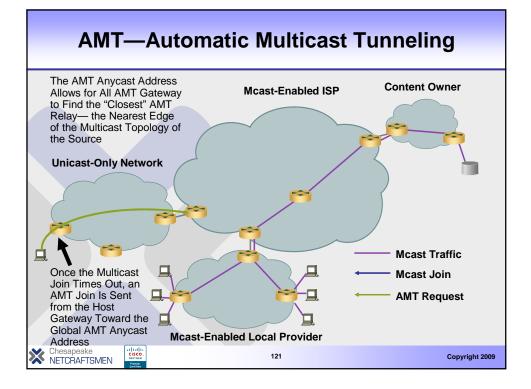


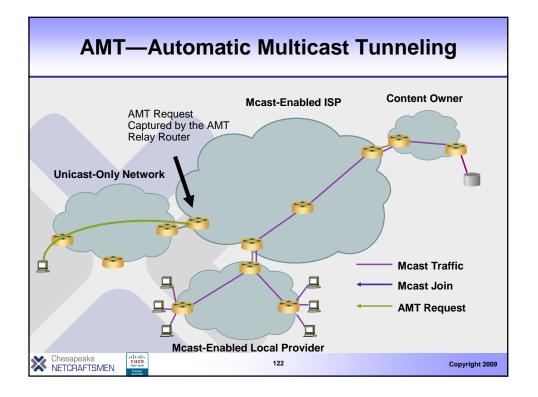






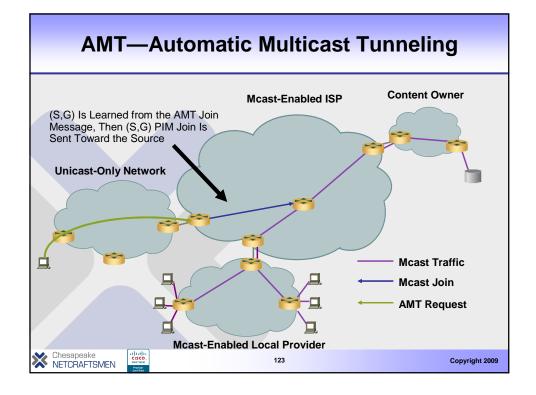


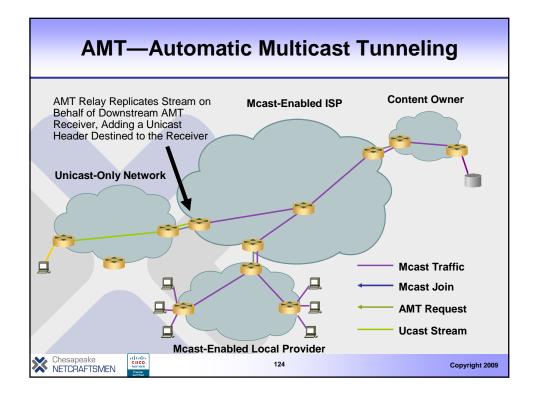






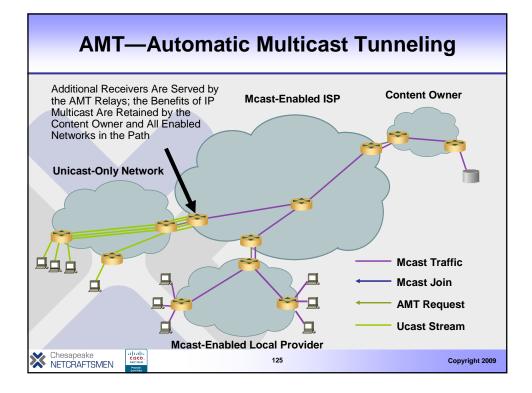
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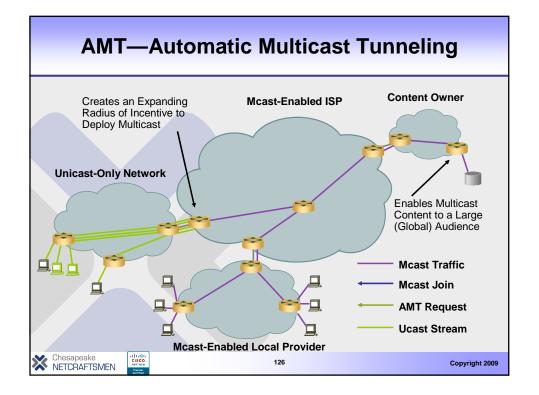














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