



















Comparison with ATM/FR			
	ATM/FR	MPLS	
Address Space Separation	Yes	Yes	
Routing Separation	Yes	Yes	
Resistance to Attacks	Yes	Yes	
Resistance to Label Spoofing	Yes	Yes	
Direct CE-CE Authentication (Layer 3)	Yes	With IPsec	
	Slide 11	Copyright © 2006 MFA Forum	



































































































































Threat Model			
Security Threats	Security Vulnerability	Description	
Malicious user behavior	Denial of Service (DoS) attacks	MPLS network resources become unavailable to authorized users	
	Intrusion attacks	MPLS network resources become available to un- authorized users	
Unintended human error, mis- configuration, protocol side effects	Undesired MPLS protocol side effects	MPLS network resources become available to unauthorized users as a result of unintended device mis- configuration or unexpected protocol side effects	
	MPLS device misconfiguration		
	Slide 77	Copyright © 2006 MFA Forum	



































![](_page_47_Figure_0.jpeg)

![](_page_47_Figure_1.jpeg)

![](_page_48_Figure_0.jpeg)

![](_page_48_Figure_1.jpeg)

![](_page_49_Picture_0.jpeg)