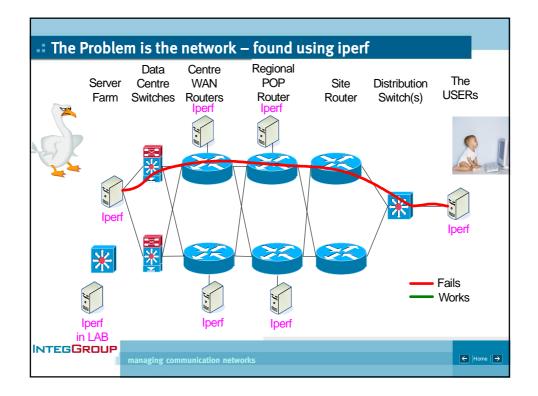
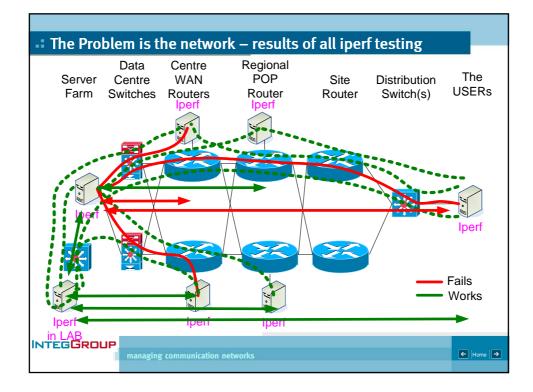
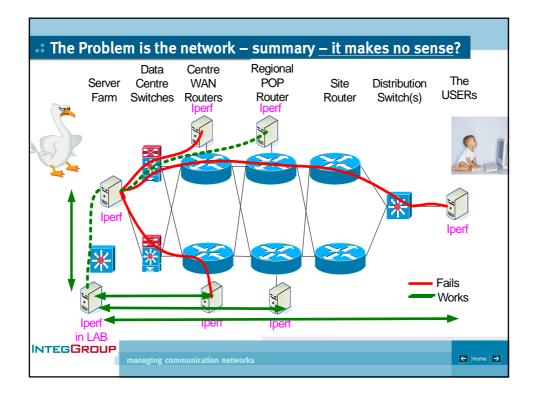
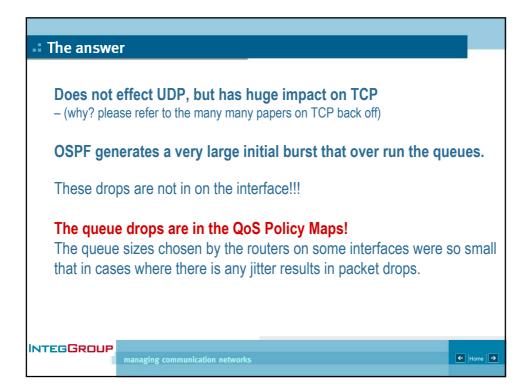


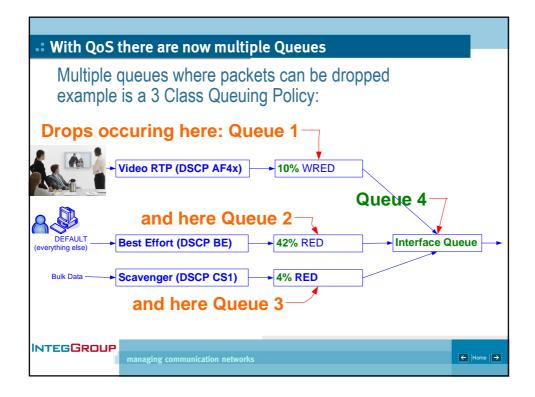
Tool used to te	st network: ipe <mark>r</mark> f
DSCP	example iperf command to use at sender
CS6 (OSPF)	iperf -c 10.32.130.24 -m -t 10 -S 0xc0 -P 1
EF (VoIP)	iperf -c 10.32.130.24 -m -t 10 -u -b 80k -l 100 -S 0xb8 -P 1
	udp 80kbps, packet size of 100 Bytes
AF41 (Video)	iperf -c 10.32.130.24 -m -t 10 -u -b 1m -l 721 -S 0x88 -P 1
	udp 1Mbps, packet size 721 Bytes
CS4 (Streaming)	iperf -c 10.32.130.24 -m -t 10 -u -b 500k -l 721 -S 0x80 -P 1
	udp 500kbps, packet size 721 Bytes
Best Effort	iperf -c 10.32.130.24 -m -t 10 -S 0x00 -P 1
CS1 (Scavenger)	iperf -c 10.32.130.24 -m -t 10 -S 0x20 -P 1
TEGGROUP	ing communication networks

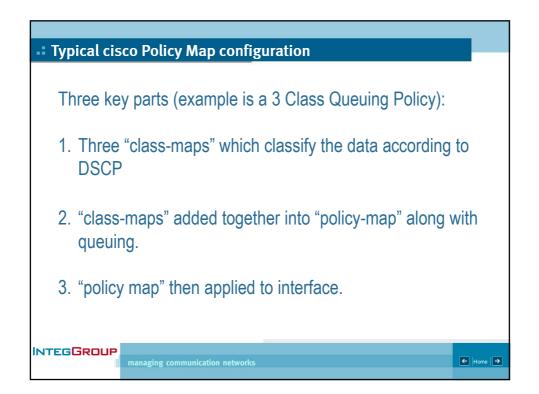


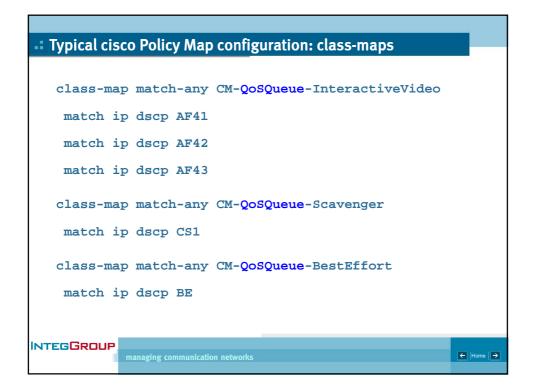


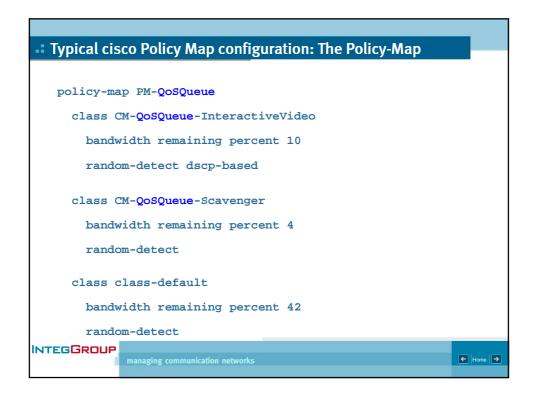


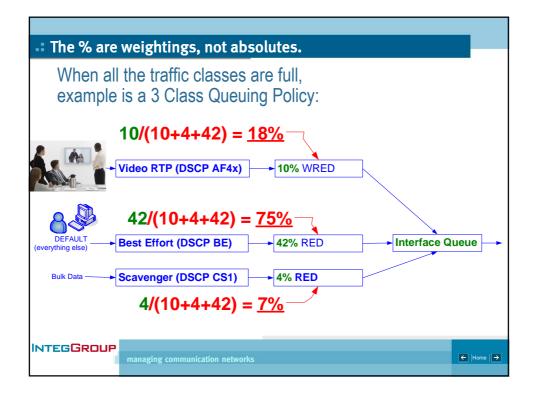


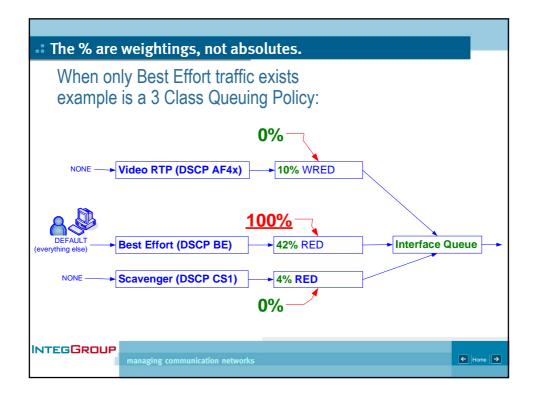


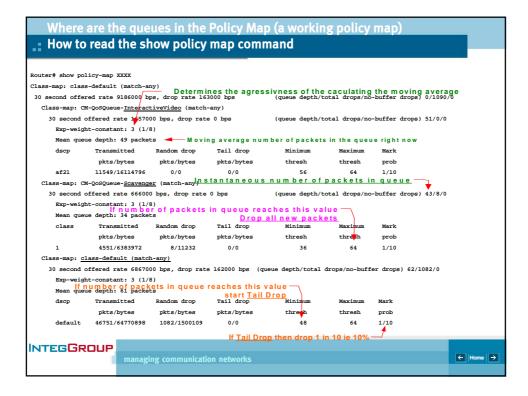


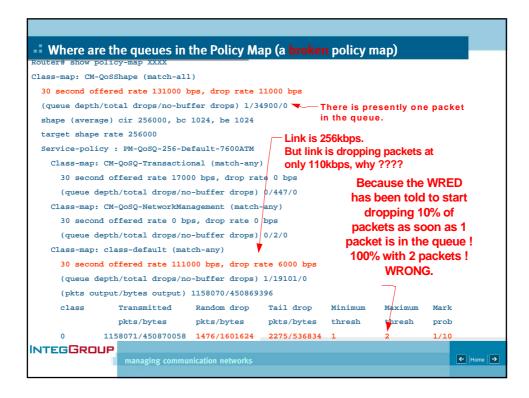


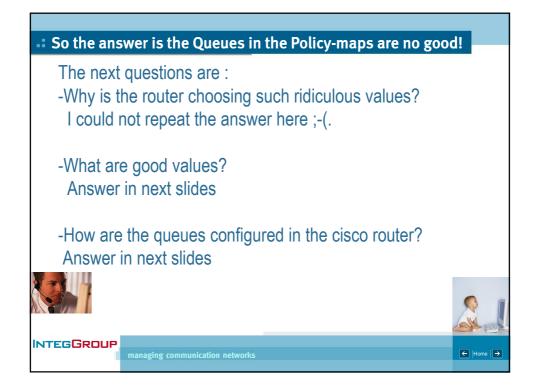


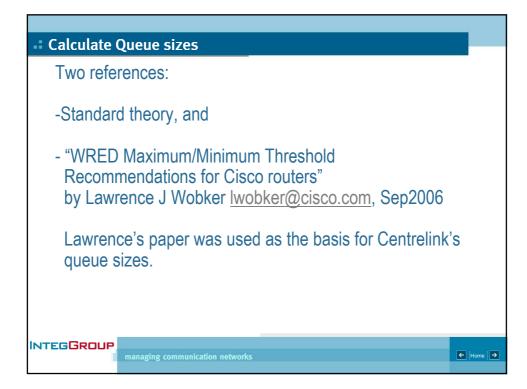


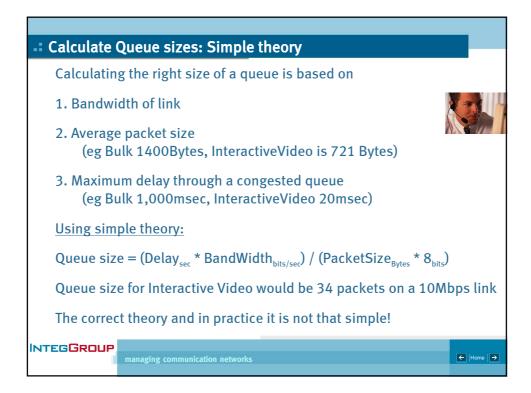




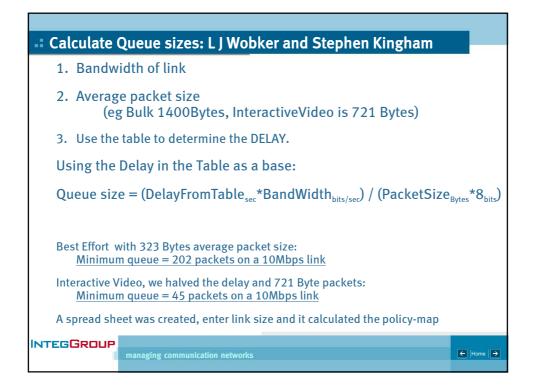


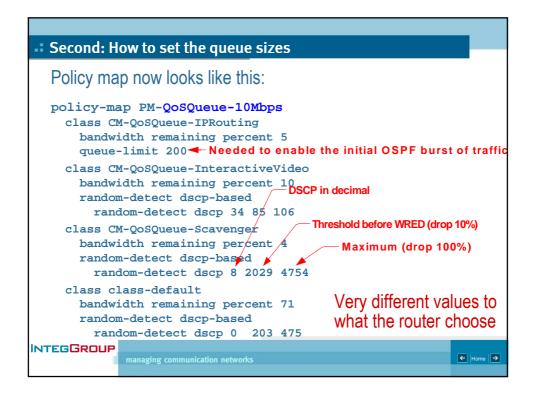


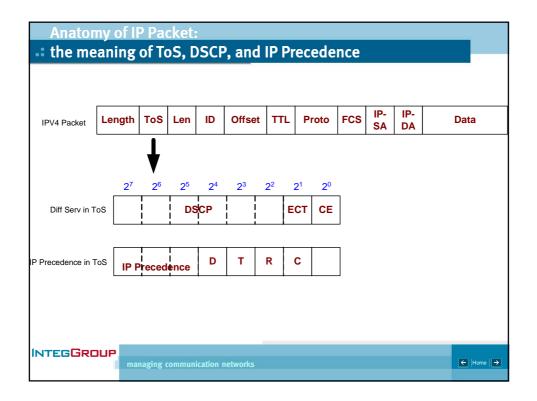




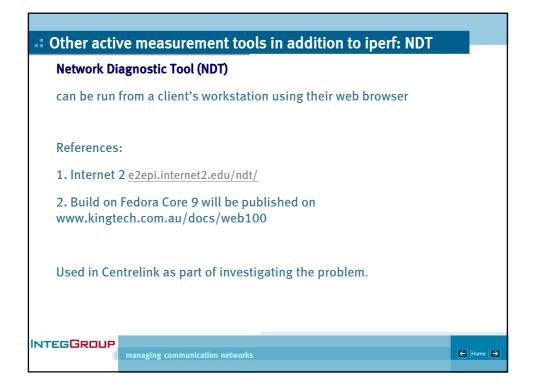
Calculate Queue sizes: L J Wobker and Stephen Kingham						
	Link Speed (bps)	Min Delay	Max Delay			
		(seconds)	(seconds)			
	256,000	0.064	0.160			
	384,000	0.053	0.160			
	512,000	0.060	0.160			
	1,024,000	0.048	0.128			
	10,000,000	0.052	0.123	TIME		
	34,000,000	0.018	0.054			
	44,700,000	0.014	0.041			
	100,000,000	0.010	0.031			
	1,000,000,000	0.010	0.041			
If the delay in the queue reaches the minimum then drop 1 in 10 packets before they leave the router. Do not accept more outgoing packets when delay reaches the maximum, ie drop them all.						
The table is derived from a paper "WRED Maximum/Minimum Threshold Recommendations" by Lawrence J Wobker <u>lwobker@cisco.com</u> , Sep2006						
INTEGGROUP	managing communication netw	orks		← Home →		







Anaton	ny of IP Packet:						
- the meaning of ToS, DSCP, and IP Precedence							
DCCD			TOC (in				
DSCP CS6	<u>DSCP (Decimal)</u> 48	<u>DSCP (Hex)</u> 0x30	0xc0 o		<u>s all 8 bits)</u>		
EF	48	0x30 0x2e	0xc0 0 0xb8	184			
AF41	46 34	0x2e 0x22	0x88	136			
AF42	36	0x24	0x90	144			
AF43	38	0x26	0x98	152			
CS4	32	0x20	0x80	128			
AF31	26	0x1a	0x68	104			
AF32	28	0x1c	0x70	112			
AF33	30	0x1e	0x78	120			
CS3	24	0x18	0x60	96			
AF21	18	0x12	0x48	72			
AF22	20	0x14	0x50	80			
AF23	22	0x16	0x58	88			
CS2	16	0x10	0x40	64			
AF11	10	0x0a	0x28	40			
AF12	12	0x0c	0x30	48	IP Precedence 2		
AF13	14	0x0d	0x38	56			
BE	0	0x00	0x00	0			
CS1	8	0x08	0x20	32	Semal 2		
INTEGGRC	UP managing communicat	ion networks			← Home →		



	🥹NSI4 NDT server - Mozilla Firefox						-DX	
	Elle Edit View Higtory Bookmarks Iools	Help					0	
-: 0	🤃 - 🔅 - 🎯 🏠 🗋 http://	9.32.54.24:7123/			• •	Google	Q.	
	🐢 Getting Started 🔯 Latest Headlines							
	ndt-cookbook.pdf (application/pdf Obj 🧾	NSI4 NDT server						
	NSI4 Web100 based Network	Diagnostic Tool (ND	T)				-	
	Located at NSI4; 100 Mbps (Fast Eth This java applet was developed to test the relial remote NDT server. These tests will determine:			and network connection.	It does this by sending dat	a between your computer a	nd this	
	 The slowest link in the end-to-end path 	The slowest link in the end-to-end path (Disl-up modem to 10 Gbps Ethernet/OC-192)						
	 The Ethemet duplex setting (full or half) 	1						
	 If congestion is limiting end-to-end thro 	ughput.						
	It can also identify 2 serious error conditions:							
	-							
	 Duplex Mismatch Excessive packet loss due to faulty cabl 	— For a	100Mbr	s link th	is is an u	nevnecte	d rocult	
	 Excessive packet loss due to faulty caoi 							
			re is a p	robiem	from the (lient to 1	ine Serv	er
	A test takes about 20 seconds. Click on "							
TCPMVeb100 Network Diagnostic Tool v5.4.12 click STAFT to begin Connected to 32.3.2.5 p2.4 — Using IP44 address Checking for Middlebres Checking for Middlebres Checking for firewalter Done checking for firewalter Did outbourd test (server-bc-lient (320)					Options			
INTE	Report Problems Use "ctrl-C" to copy de	ata onto the clipboard and then	paste it into the email r	1essage.				
							← Home	→
	Tcpbw100 done							
L							10000	

