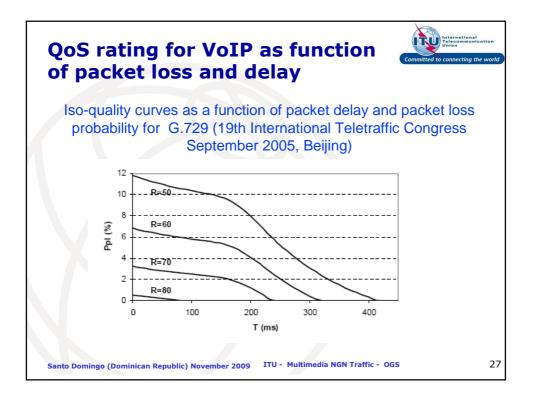
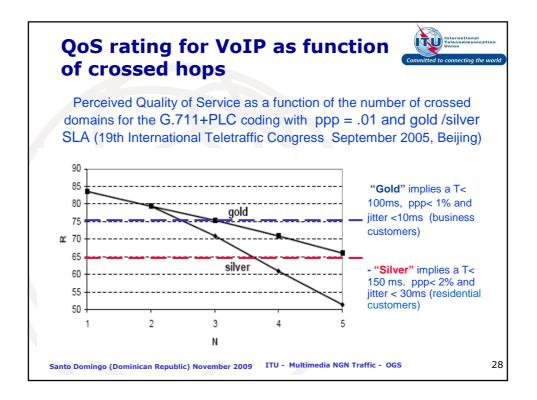


R-value range	Speech transmission quality category	User satisfaction Very satisfied		
$90 \le R \le 100$	Best			
$30 \le R \le 90$	High	Satisfied		
$0 \le R \le 80$	Medium	Some users dissatisfied		
$0 \le R < 70$	Low	Many users dissatisfied		
$0 \le R \le 60$	Poor	Nearly all users dissatisfied		
high	medium	low Area not		
	quality inear quality scale	quality recommended		





QoS	Priority	Bit loss Probability	Packet loss probability	Packet delay	Jitter	Availability
Stream constant	High	<10e-9	<10e-3	<150 ms	<10 ms	>99.999%
Stream Variable	High and medium	<10e-9 <10e-5	<10e-2 <5x10e-2	<150 ms < 400ms	<10 ms <30 ms	>99.999% >99.99%
Elastic	Low	<10e-3	Without guarantee	Without guarantee	Without guarantee	Without guarantee

	Table 2/Y.1541 –	Guidance for IP QoS classes	
QoS class	Applications (examples)	Node mechanisms	Network techniques
0	Real-time, jitter sensitive, high interaction (VoIP, VTC)	Separate queue with preferential servicing, traffic	Constrained routing and distance
1	Real-time, jitter sensitive, interactive (VoIP, VTC).	grooming	Less constrained routing and distances
2	Transaction data, highly interactive (Signalling)		Constrained routing and distance
3	Transaction data, interactive	Separate queue, drop priority	Less constrained routing and distances
4	Low loss only (short transactions, bulk data, video streaming)	Long queue, drop priority	Any route/path
5	Traditional applications of default IP networks	Separate queue (lowest priority)	Any route/path

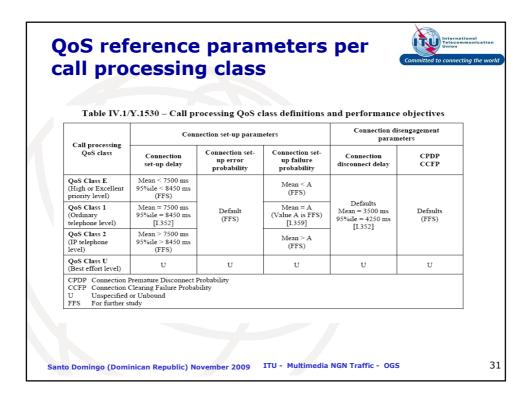


Table 1/Y.1541 – IP network QoS class definitions and							
network performance objectives							
Network	Nature of network performance objective	QoS Classes					
performance parameter		Class 0	Class 1	Class 2	Class 3	Class 4	Class 5 Unspecified
IPTD	Upper bound on the mean IPTD (Note 1)	100 ms	400 ms	100 ms	400 ms	1 s	U
IPDV	Upper bound on the $1 - 10^{-3}$ quantile of IPTD minus the minimum IPTD (Note 2)	50 ms (Note 3)	50 ms (Note 3)	U	U	U	U
IPLR	Upper bound on the packet loss probability	1 × 10 ⁻³ (Note 4)	1 × 10 ⁻³ (Note 4)	1×10^{-3}	1×10^{-3}	1×10^{-3}	U
IPER	Upper bound	1×10^{-4} (Note 5)					U

