























































| 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 | Constrained routing and distance | | | |
| 1 | Real-time, jitter sensitive, interactive (VoIP, VTC). | grooming | Less constrained routing and distances | | | |
| 2 | Transaction data, highly interactive (Signalling) | Constant and a similar | Constrained routing and distance | | | |
| 3 | Transaction data, interactive | separate queue, arop 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 parameter | n Nature of | etwork performance objectives QoS Classes | | | | | | | |
| | network performance objective | 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 | | | | | | | |





