

Tutorial 9 Quality of Service Concepts

1. A network is experiencing voice call dropouts during peak hours. Explain which QoS techniques you would apply to improve voice quality and why.
2. Evaluate the effectiveness of the Best-Effort, Integrated Services (IntServ), and Differentiated Services (DiffServ) QoS models for large enterprise networks.
3. Compare the characteristics of voice, video, and data traffic for QoS using the following table.

Voice	Video	Data

4. List three tools for implementing QoS and give TWO (2) explanations for each of the tools.

Tools	Explanation

5. Compare the following queueing algorithms:
 - (i) First-In, First-Out (FIFO)
 - (ii) Weighted Fair Queuing (WFQ)
 - (iii) Class-Based Weighted Fair Queuing (CBWFQ)
 - (iv) Low Latency Queuing (LLQ)