8.14. ATM QUALITY OF SERVICE (QOS)

As a matter of fact, ATM provides the transmission technologies, transmission rates, and gradients of fact, ATM provides the transmission technologies, transmission rates, and gradients of fact, ATM provides the transmission technologies, transmission rates, and gradients of fact, ATM provides the transmission technologies, transmission rates, and gradients of fact, ATM provides the transmission technologies, transmission rates, and gradients of fact, ATM provides the transmission technologies, transmission rates, and gradients of fact, ATM provides the transmission technologies, transmission rates, and gradients of fact, ATM provides the transmission technologies and functions. The ATM state of fact, and gradients of fact, a As a matter of fact, ATM provides the transmission actions and functions. The ATM supply service (QoS) required of all present-day network applications and functions. The ATM supply service (QoS) required (QoS) which includes, guaranteed quality of service (QoS) which includes, (i) Traffic contract; (ii) Traffic shaping; (iii) Traffic policing

Traffic contract

A traffic contract specifies an envelope which describes the intended data flow. It also specifies A traffic contract specifies an envelope which burst size etc. When one ATM system gets completely the values of peak and sustained bandwidth, burst size etc. When one ATM system gets completely the values of peak and sustained bandwidth, burst size etc. When one ATM system gets completely the values of peak and sustained bandwidth, burst size etc. When one ATM system gets completely the values of peak and sustained bandwidth, burst size etc. When one ATM system gets completely the values of peak and sustained bandwidth, burst size etc. When one ATM system gets completely the values of peak and sustained bandwidth, burst size etc. When one ATM system gets completely the values of peak and sustained bandwidth, burst size etc. to an ATM network, it automatically enters into a contract based on QoS parameters.

Traffic shaping and traffic policing

Traffic shaping is done in order to fit the traffic within the promised envelope. It uses the queries to constrain the data bursts, limit the peak data rate and reduce jitters. The ATM switches can be used to measure the actual traffic flow, and compare it with the agree upon traffic to enforce the contract. If the actual traffic is higher than the agreed upon traffic, then the switch will set the cell. loss priority (CLP) bit. When this bit is set, the cell discard becomes eligible and any switch handling the cell is allowed to discard that cell in the event of congestion.

ATM signaling and connection establishment

When an ATM device wishes to establish a connection with another ATM device, it sends request via a signaling packet to its ATM switch. The request envelope contains the following:

- (i) Address of desired ATM endpoint
- (ii) QoS parameters.