

- -> Its a set of node connected in a ring
- -> Data always flow in a particular direction abound the upstreo
- * when a mode sees the token,
 - . If it has a frame to transmit, it takes the token off the ring and inverts the frame into the ring.
 - . Each node along the way samply forwards the frame
 - · pertination node saving the copy of the frame ento the adaptor and forwards the newage to the next node.
 - · when the frame reacher the sunder, it strips the frame off the ring and reinserts. the token.
 - · Each made in-the ning gets a chance to transmit
 - . Noder ove

physical proporties:

- -> uses ring -topology
- -> It any node or link failure leads entire, retwork failure, then it connects each station into the ring using electro - mechanical relay.

characters to of token rings

- -> supports 4 Mbps or 16 Mbps data rate.
- Differential Manchyter encoding scheme is used.
- -> Number of stations in the ring is limited to 250-for IEFE 902.5
- station that has token can send data.
- Each transmitted packet contains the destination add ver of the intended receiver
- tach node in the ring looks inside the packet to see if it the intended receiver.
- then renderg station remove the frame from the ring and remeents the token to the ring.

Issure of token my

- the Token Holding Time (THT) Is the time period given to nodes to hold the token.
 - · But unfair to station to other than the station holding the token.
 - TRT & Active nodu * THT Ring Catency.

Ring latency

Thow long of take the token to drawlate around the Ma

when no one has data to send.

- Active moder of noder that have dated to send.

Priority Bita

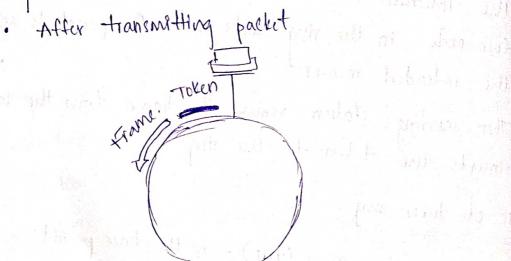
-> The token contains 3 bit priority field.

-> -fach device that want to transmit. The packet, aerigns a priority to the packet of the device can hold the token if the priority is alwast as great are token priority

-> lower priority packets circulate for long in ring.

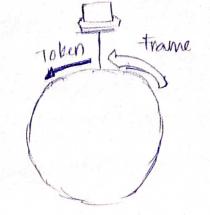
Token Release to the set mistage forting between the most

- Early release



- Delayed Reliane

. After removing the packet when of returns to the sender.



Token Ring Main-terance:

- Token rings have a designated monitors
- -> The monitor's job is enume the health of the token
- - Any station in the ring can become the monitor.
 - · monthor is first elected when the ring is first connected or failure of the when I monitor
- -> Healthy monttor periodically announce its presence with a special control nurrage.
- -> When a station decides that a new monitor is needed, of transm - lts a " claim token" frame, announcing lite intent to become new monitor.
 - . It the token gets back to the sender, it can assume. that it is ob for it to become a monitor
 - · It some other is trying to become monitor at the same instant, the sender might see "claim token" menouge from - What other station first.