FDDI Rings

Outer ring used for data

Inner ring unused
except during failure

Workstation

A

Failed Station

Inner ring unused
except during failure

Workstation

B
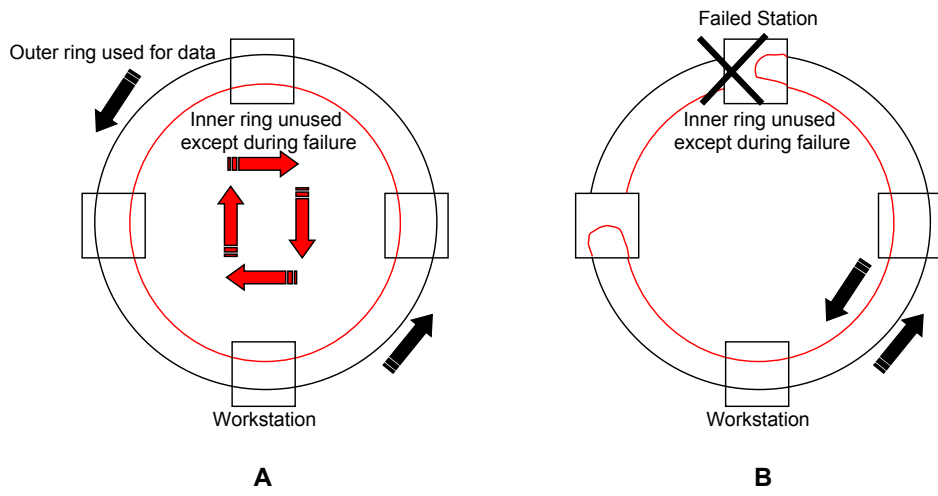
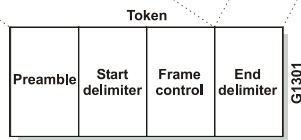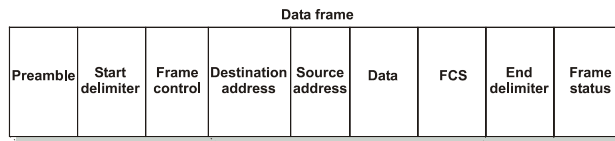# Station Types

❏Dual attached station (DAS), which is connected to both rings

❏Single attached station (SAS), which is attached only to the primary ring

❏Dual attached concentrator (DAC), which is connected to both rings and provides connection for additional stations and concentrators. It is actually the root of a tree

❏Single attached concentrator (SAC), which is connected only to the primary ring (through a tree)

Main Steps in a Normal Frame Transmission

1. Sending station waits for token.

2. Sending station captures and strips token, and then transmits frames.

3. Sending station issues token at the end of transmission.

4. Destination station copies the transmitted frame and sets the A and C bits (address recognised and frame copied indicators).

5. Sending station removes the data from the ring by stripping the sent (and acknowledged) frame.

6. The first bytes of the frame are not stripped, and continue to circulate on the ring (as a fragment). Each repeating station strips one byte from the fragment, and a transmitting station completely strips it

Frame Formats

Data frame

Preamble	Start delimiter	Frame control	Destination address	Source address	Data	FCS	End delimiter	Frame status

Token

Preamble	Start delimiter	Frame control	End delimiter

G1301

Wireless LAN

Peer-to-Peer

Frequency Reuse