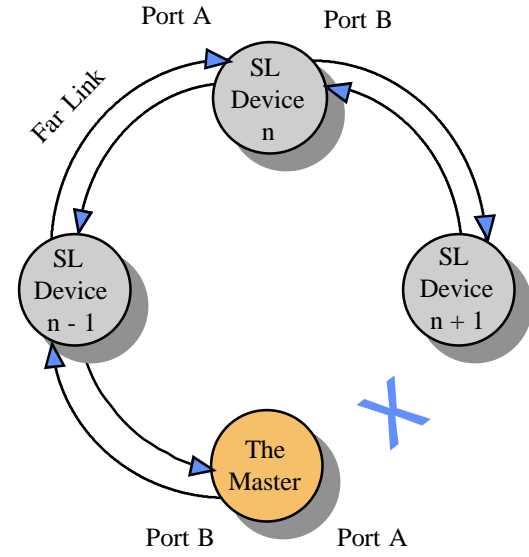
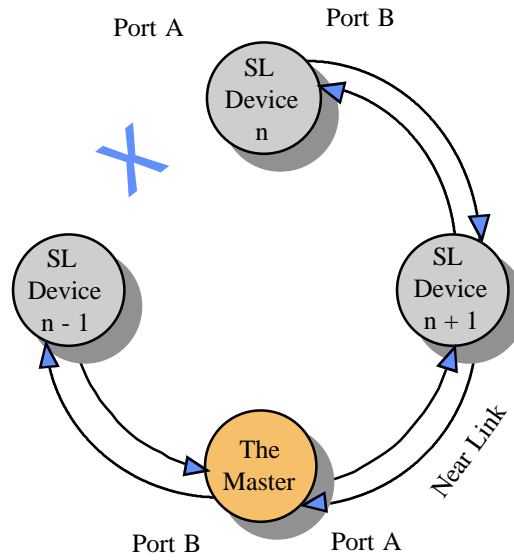
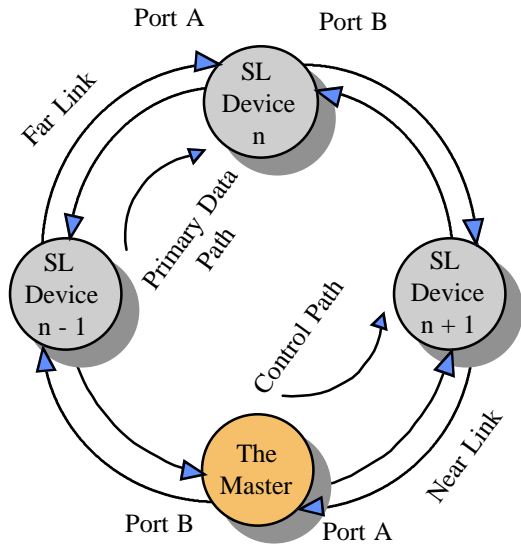
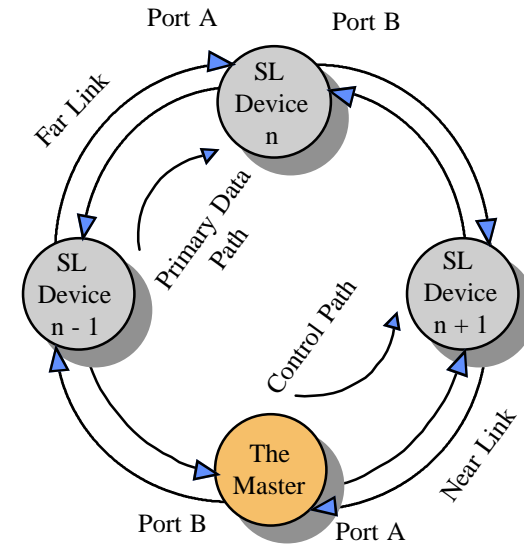


Counter-Rotational Models



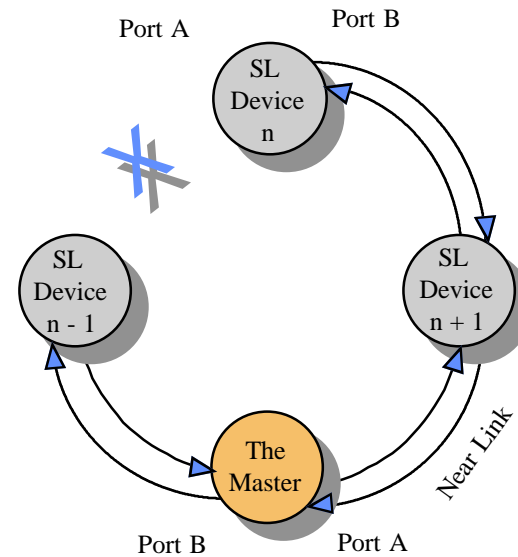
Normal Counter-Rotational Model

- Primary Data Path in One Direction
 - Control Path in Opposite Direction
- Master Transmits on Port B and Scrubs on Port A
 - Master is only Device that Scrubs
- Slaves Receive on Port A and Retransmit on Port B
 - Slaves on Insert and Extract
- In General Master Scrubs Frames Received on Port B
 - Some Exceptions



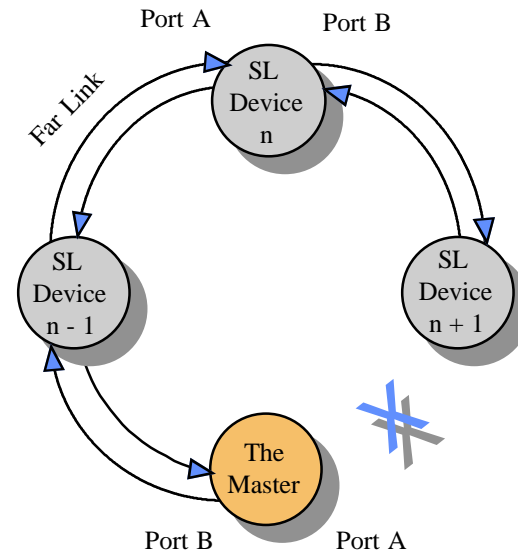
Far Link Failure Model

- Far Device Detects Failure
 - n and /or n - 1
- Far Device has Option to Notify the Master with a Port Fail Message
- Devices n and n-1 Immediately Go into Bypass Mode
- Master Can Detect Far Failure Through Init or Port Fail Reception
 - Once Detected Master Goes into Passthrough
 - Master Still Eats on Port B Until it Detects Failure



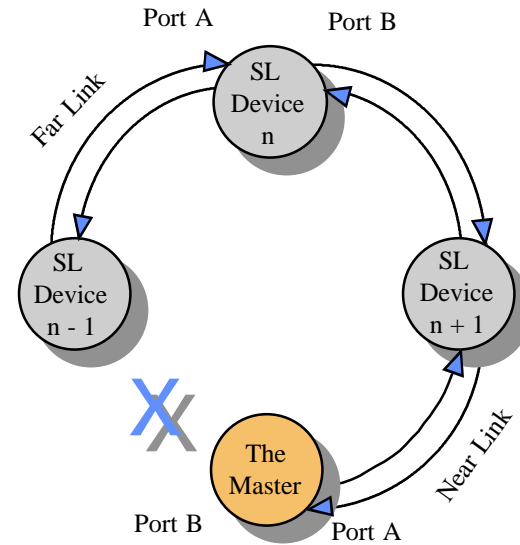
Near (A) Link Failure Model

- Master Detects Failure of Local/Near Port A Immediately
 - Master Goes to Bypass Mode
 - Master Transmits and Receives on Port B
 - Scrub Port is Changed to Port B
- Device $n + 1$ has Option of Transmitting Port Fail Message
 - Device $n + 1$ Goes to Bypass Mode
 - Retransmits on Port A
- Slave Devices Enter Passthrough on Port B



Near (B) Link Failure Model

- Master Detects Failure of Local/Near Port B Immediately
 - Master Goes to Bypass Mode
 - Master Transmits and Receives on Port A
 - Master's Primary Transmit Port Changed to A
 - Master Scrubs on Port A
- Device n - 1 has Option of Transmitting Port Fail Message
 - Device n - 1 Goes to Bypass Mode
 - Retransmits on Port A
- Slave Devices Enter Passthrough on Port A



FC-SL Status

- Completed Counter-Rotation Models
 - Some Corner Cases are Still in Simulation
- State Transition Tables are Nearly Complete
 - Partially Documented in rev 5.3
- Currently Working on Rev 5.4
 - Hope to Complete Technical Content
 - Hope to Complete Conversion to Frame Maker

