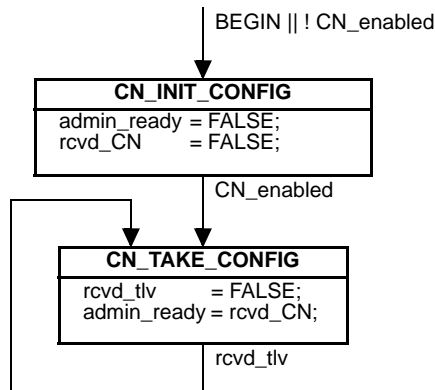
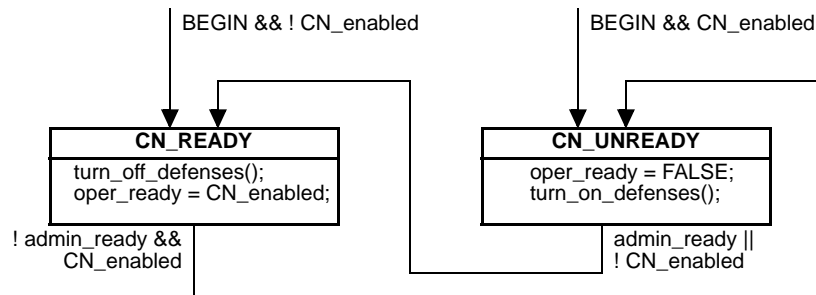


## Per-port per-priority state machines for LLDP TLVs for CN

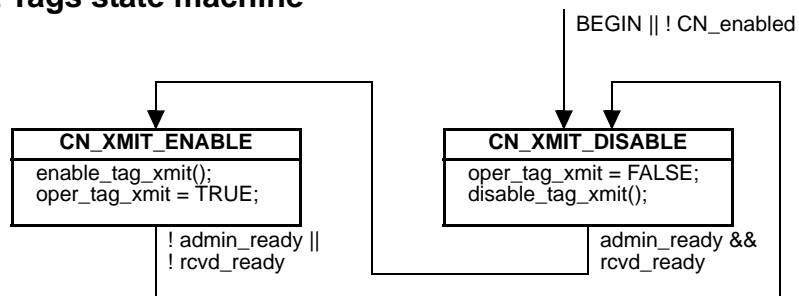
### Configuration state machine



### Receive Ready state machine



### Transmit Tags state machine



**Notes:**

- 1) There is one set of state machines per port per CN Priority.
- 2) BEGIN is the usual initialization signal. It is asserted when the port is not operational.
- 3) CN\_enabled drives the CN bit for this priority in the LLDP CN TLV.
- 4) The Configuration state machine runs whenever the CN TLV is received on the port or the local configuration changes. It sets its output, admin\_ready, according to whether CN is enabled on the neighbor. That variable drives the Receive Ready and Transmit Tags state machines.
- 5) The Receive Ready state machine is driven by admin\_ready. Its purpose is to turn on or off the defense of its Port and priority. That defense remaps all frame received on the CN Priority to a best-effort priority.
- 6) The Transmit Tags state machine is driven by both admin\_ready and the receipt of the Ready flag in the neighbor's LLDP CN TLV. It enables the output of CN-tagged frames. This state machine provides oper\_tag\_xmit as an output that is not transmitted in the CN LLDP TLV, but may be useful in an end station for enabling CN applications.
- 7) The rcvd\_xxx variables are set by each received LLDP TLV for my priority. rcvd\_tlv indicates that the received TLV value has changed, appeared or disappeared. For example, if the neighbor is lost to LLDP, rcvd\_tlv = TRUE, rcvd\_ready = FALSE, and rcvd\_willing = FALSE.
- 8) oper\_config and oper\_ready are transmitted in the LLDP TLV. Whenever either one changes, LLDP switches to fast mode and transmits three PDUs at one per second.