IEEE Std 802.3cm was approved by the IEEE-SA Standards Board on 30 JAN 2020.

SuggestedRemedy
Change 802.3cm-20xx to 802.3cm-2020. Also make this change on P13 L13.

Proposed Response Response Status O

IEEE Std 802.3cq was approved by the IEEE-SA Standards Board on 30 JAN 2020.

SuggestedRemedy
Change 802.3cq-20xx to 802.3cq-2020. Also make this change on P13 L8.

Proposed Response Response Status O

This draft meets all editorial requirements.

Proposed Response Response Status O
There seems to be a problem in the EEE transmit state diagram with regards to the transition from SEND_SLEEP to SEND_ALERT. tx_lpi_req is generated by the PCS 64B/65B Transmit state machine at any symbol boundary when it receives the LPI request. In Figure 149-20, tx_lpi_req is further qualified with rs_fec_frame_done in the EEE transmit state machine so that transition from TX_NORMAL to SEND_SLEEP occurs on any RS-FEC frame boundary. During the 8 RS-FEC frames that the EEE transmit state machine stays in the SEND_SLEEP state, tx_lpi_req could go false. While this tx_lpi_req transition is aligned to tx_alert_start_next, the EEE transmit state machine may have only completed four RS-FEC frames of SEND_SLEEP, so the transition to SEND_ALERT will be delayed for an additional four RS-FEC frames. This delay would cause SEND_ALERT to transmit ALERT outside of the specified ALERT window.

To prevent this potential misalignment, the transition to SEND_SLEEP needs to be aligned to the start of ALERT, which according to 149.3.6.1 "shall start at the beginning of any eight PHY frame boundary starting at the beginning of the frame following a refresh PHY frame". Aligning the transition to SEND_SLEEP would ensure that the lpi_sleep_timer completes and the EEE state machine transitions to SEND_ALERT that the ALERT transmission is properly aligned.

**Suggested Remedy**

Add the following variable to 149.3.7.2.2, in alphanumeric order: (page 119 line 54)

```
  tx_sleep_start_next
```

A Boolean value. This variable is set TRUE during the seventh RS-FEC frame in every group of eight RS-FEC frames, where the group of eight RS-FEC frames start with the RS-FEC frame after refresh.

In Figure 149-20 (page 129 line 9)

```
  Change the transition from TX_NORMAL to SEND_SLEEP to the following:
  tx_lpi_req *
  rs_fec_frame_done *
  tx_sleep_start_next
```

**Proposed Response**

Response Status O