

1 `mr_training_enable`
2 Boolean variable used by system management to enable or disable the 10GBASE-KR start-up
3 protocol. It is set to TRUE when the start-up protocol is enabled and set to FALSE when the
4 start-up protocol is disabled.
5
6 `new_coeff`
7 Integer variable containing the result of increment/decrement operations on the coefficient value
8
9 `new_marker`
10 Boolean variable set to TRUE when a new candidate frame marker is available for testing and
11 FALSE when the TEST_MARKER state is entered. [A new frame marker is available for testing](#)
12 [when the training frame lock process has accumulated one frame marker \(4 octets\) from a candi-](#)
13 [date frame start position.](#)
14
15 `frame_offset`
16 Boolean variable set to TRUE after receiving one full training frame (548 octets) from the current
17 frame start position. . The boolean variable is set to FALSE when the GET_NEW_MARKER
18 state is entered. The current frame start position is indicated by a transition into the
19 GET_NEW_MARKER state when the boolean variable is set to FALSE.
20
21 `remote_rx_ready`
22 Boolean variable set to FALSE upon entry into the SEND_TRAINING state. The value of
23 `remote_rx_ready` shall not be set to TRUE until no fewer than three consecutive training frames
24 have been received with the receiver ready bit asserted.
25
26 `reset`
27 Boolean variable that controls the resetting of the PMA/PMD. It is set to TRUE whenever a reset
28 is necessary including when reset is initiated from the MDIO, during power on, and when the
29 MDIO has put the PMA/PMD into low-power mode.
30
31 `rx_trained`
32 Boolean variable set to TRUE when the remote transmit and local receive equalizers have been
33 optimized and normal data transmission may commence and set to FALSE otherwise.
34
35 `signal_detect`
36 Boolean variable set to TRUE when the training process is complete and set to FALSE otherwise.
37 The value of `signal_detect` is reported to the PMA sublayer via the PMD_SIGNAL.indication
38 primitive.
39
40 `slip_done`
41 Boolean variable set to TRUE when the SLIP requested by the Frame Lock State Diagram has
42 been completed indicating that the next candidate frame sync position can be tested.
43
44 `training`
45 Boolean variable set to TRUE to indicate that the 10GBASE-KR start-up protocol is in progress
46 and set to FALSE when training has completed.
47
48 `training_failure`
49 Boolean variable set to TRUE when the training state machine has timed out due to expiration of
50 the `max_wait_timer` while in the SEND_TRAINING, TRAIN_LOCAL, TRAIN_REMOTE states
51 and set to FALSE otherwise.
52
53
54

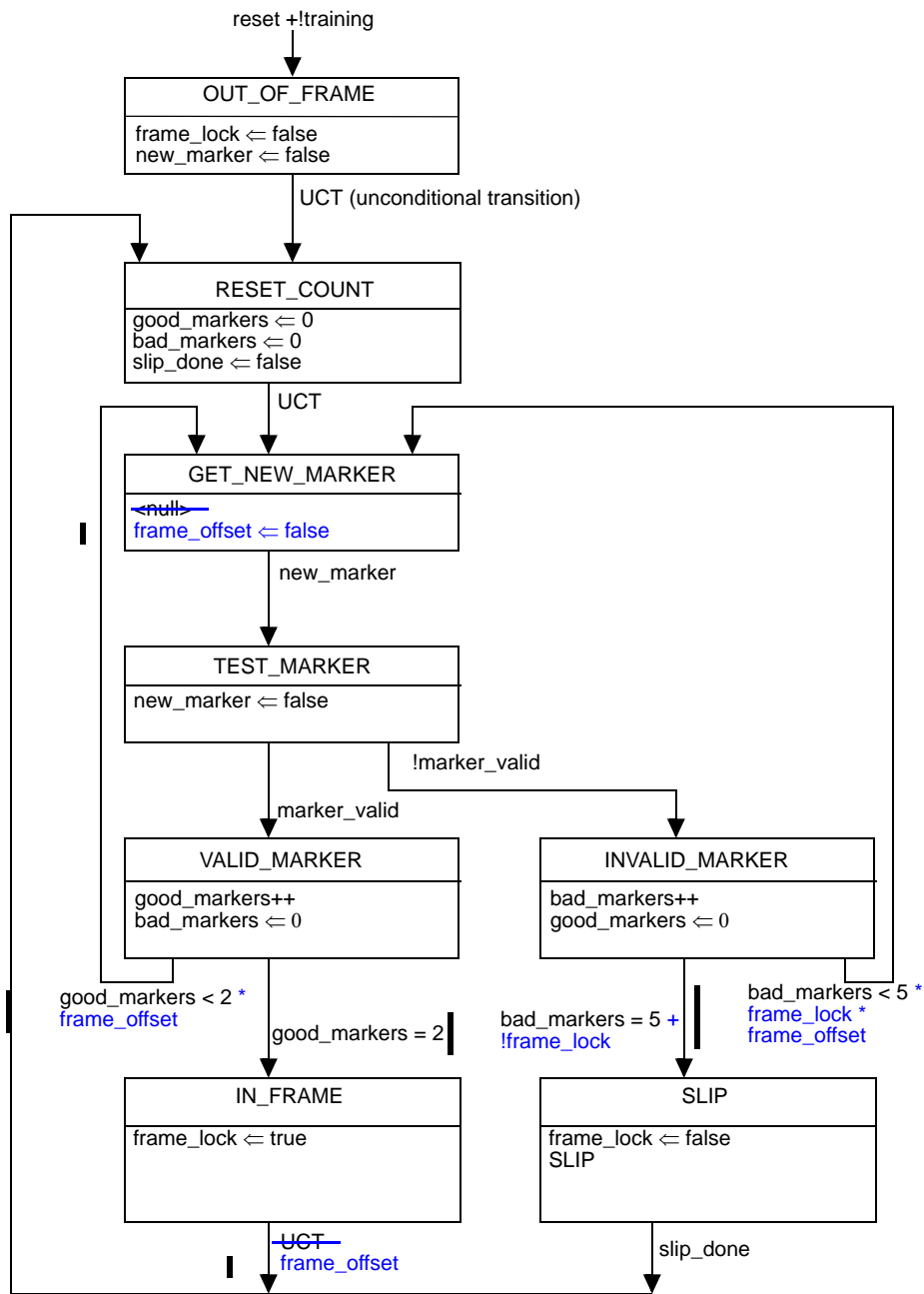


Figure 72-4—Frame lock state diagram