

### 5.1.1 MII Transmit Error Code Forwarding

According to IEEE 802.3:

"If TX\_EN is de-asserted on an odd nibble boundary, PHY should extend TX\_EN by one TX\_CLK cycle and behave as if TX\_ER were asserted during that cycle".

The TLK111 supports Error Forwarding in MII transmission from the MAC to the PHY. Error forwarding allows adding information to the frame to be used as an error code between the 2 MACs. The error code informs the receiving MAC on the link partner side of the reason for the error from the transmitting side. If the MAC transmits an odd number of nibbles, an additional error nibble is added to the transmitted frame just before the end of the transmission.