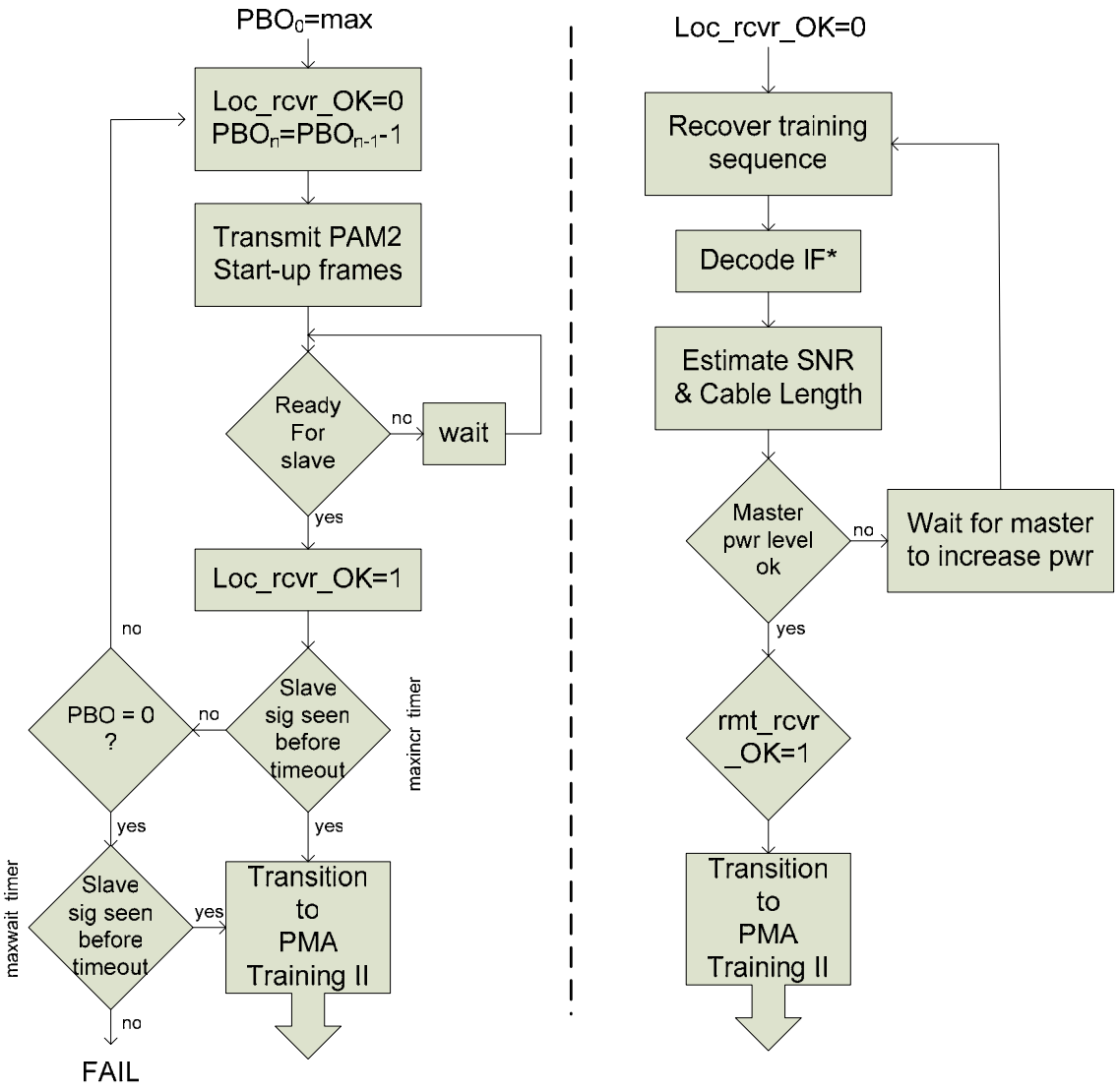
Master
PMA Training I

- Converge Echo/NEXT
- Adjust master pwr level

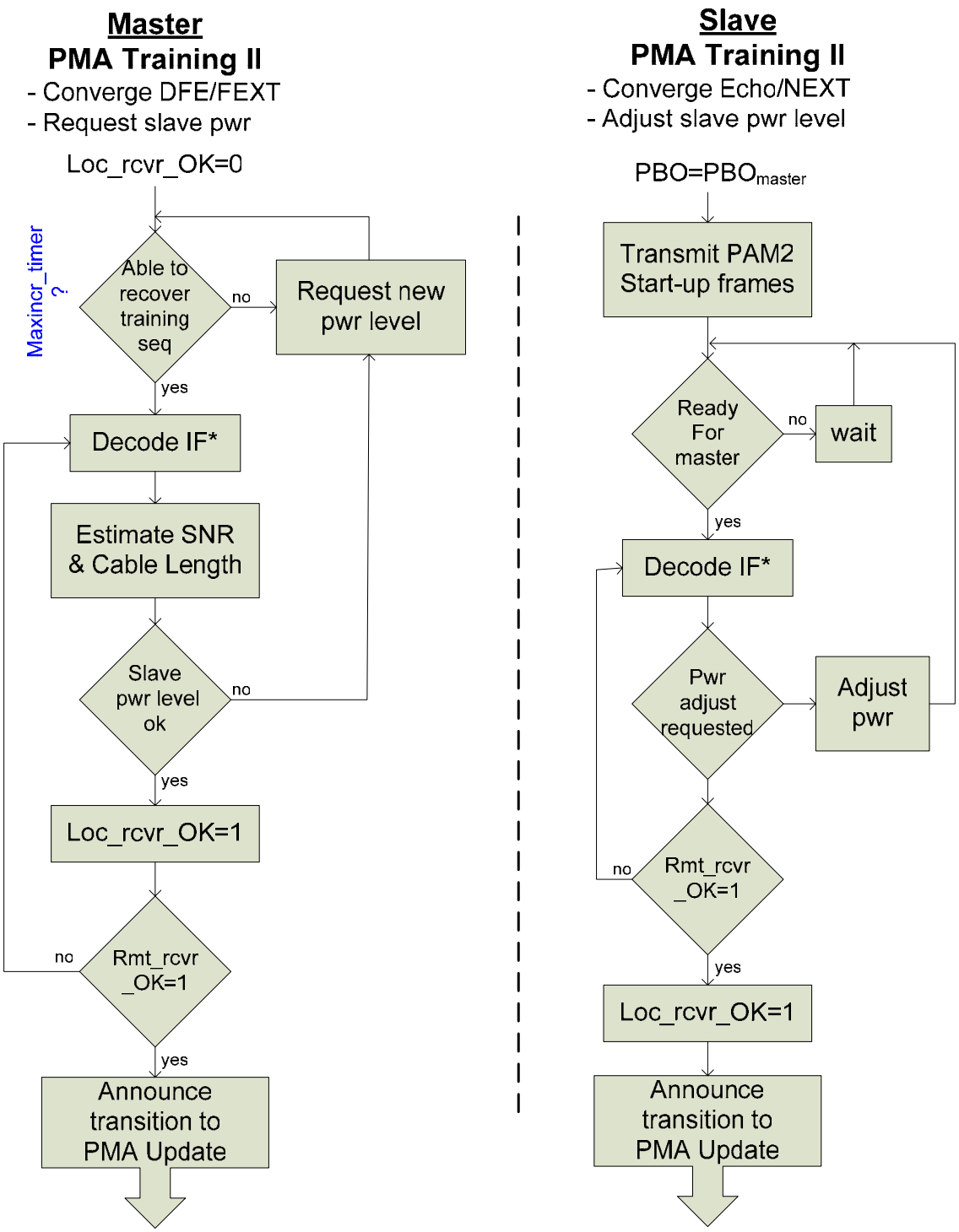
Slave
PMA Training I

- Transmitter silent
- Request master pwr level via timout
- Recover timing
- Recover training sequence
- Converge DFE /FEXT



*If IF CRC is bad for *n* consecutive fields, restart

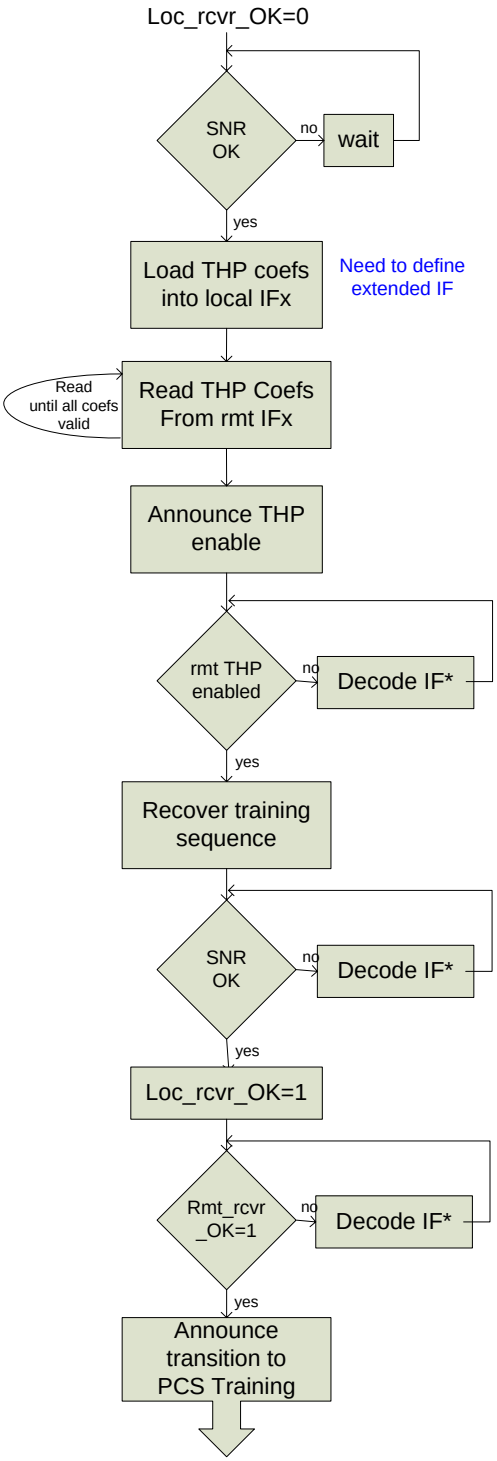
Need to define *n*


Master
PMA Training II
- Converge DFE/FEXT
- Request slave pwr
Loc_rcvr_OK=0
Maxincr_timer ?
Able to recover training seq
no
Request new pwr level
yes
Decode IF*
Estimate SNR & Cable Length
Slave pwr level ok
no
yes
Loc_rcvr_OK=1
Rmt_rcvr _OK=1
no
yes
Announce transition to PMA Update
Slave
PMA Training II
- Converge Echo/NEXT
- Adjust slave pwr level
PBO=PBOmaster
Transmit PAM2 Start-up frames
Ready For master
no
wait
yes
Decode IF*
Pwr adjust requested
Adjust pwr
Rmt_rcvr _OK=1
no
yes
Loc_rcvr_OK=1
Announce transition to PMA Update

Master

PMA Update

- Exchange THP coefficients
- Enable THP
- Reconverge



Slave

PMA Update

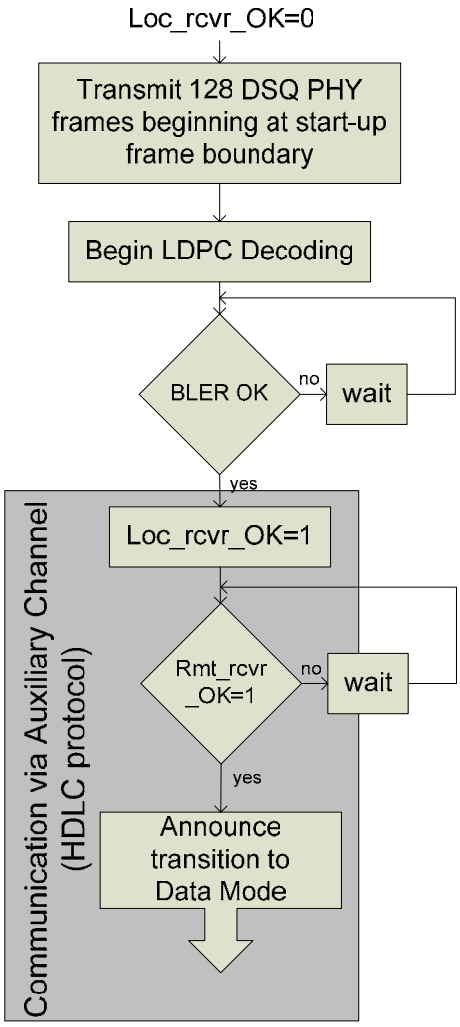
- Exchange THP coefficients
- Enable THP
- Reconverge

Identical to Master

Master

PCS Checking

- Transmit 128DSQ PCS frames
- Enable LDPC decoding
- Establish communication via aux channel



Slave

PCS Checking

- Transmit 128DSQ PCS frames
- Enable LDPC decoding
- Establish communication via aux channel

Identical to Master

Still need to resolve:

1. Info Field (IF) contents for start-up frames
2. Extended Info Field (IFx) for precoder coefficients
3. Timer for master PMA training II
4. Info Field contents for PCS frames during PCS Training
5. Communication protocol for auxiliary channel during PCS Training
6. Number of consecutive “bad” IF CRC’s before a failure is declared
7. …