

DCBX – Fixing bug

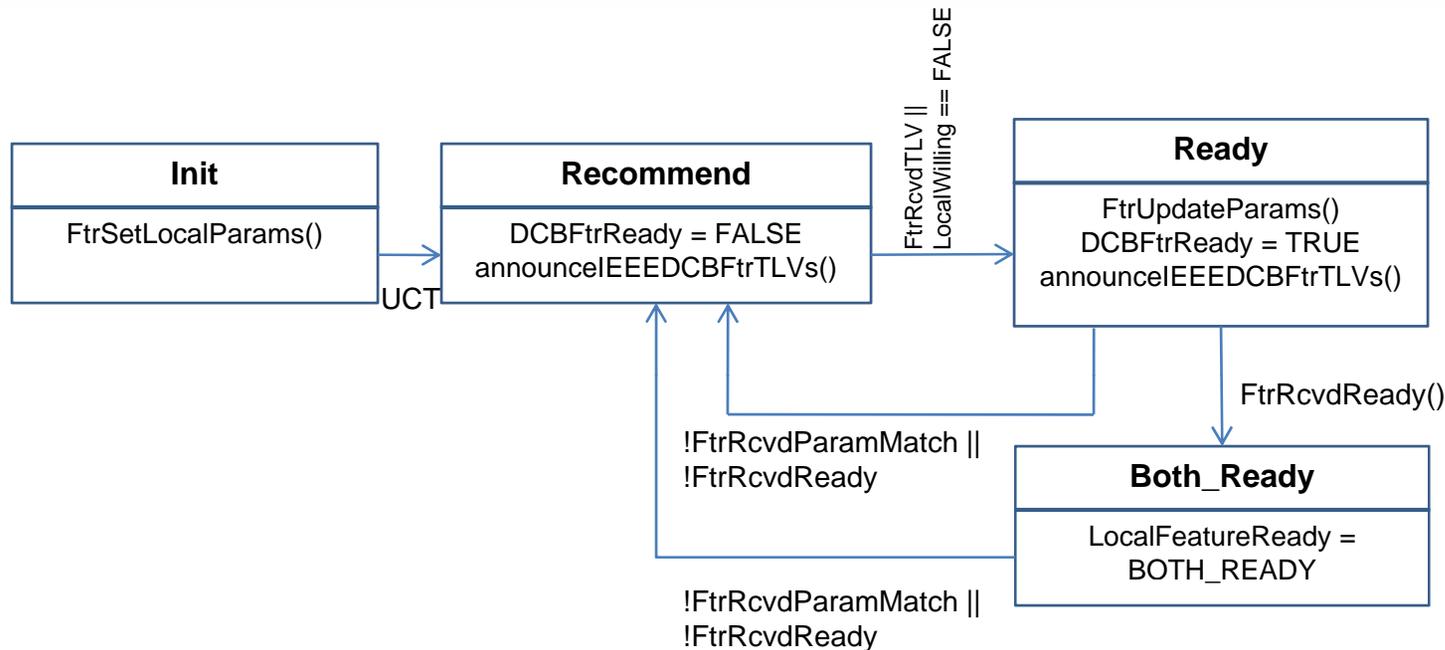
Manoj Wadekar

Update to last presentation



- **Bug in state machine published last time**
- **WIP: still reviewing to find bugs**

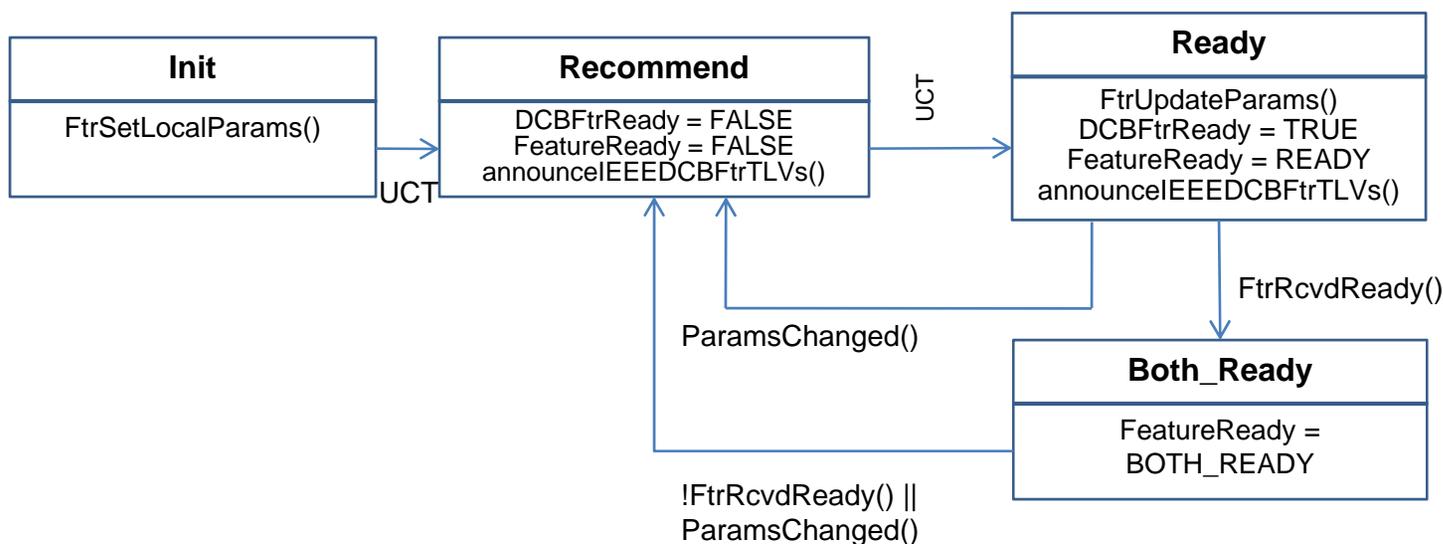
Bug in previous state machine



- **Major: Infinite loop if !Willing node receives TLV with Ready set and parameters mismatching**
- **Minor: LocalFeatureReady not initialized**

SM for “Willing” Node

- **Functions:**
 - FtrUpdateParams(): do_nothing()
 - FtrRcvdReady(): RemoteReady == TRUE
 - ParamsChanged (): Event generated when local parameters administratively changed
 - announceIEEEEDCBFtrTLVs(): Update local LLDP MIB to send update to peer
- **Variables:**
 - FeatureReady: Indication to local entity whether feature is ready;
 - values: FALSE/READY/BOTH_READY
- **LLDP variable:**
 - DCBFtrReady



SM for “Willing” Node

▪ Functions:

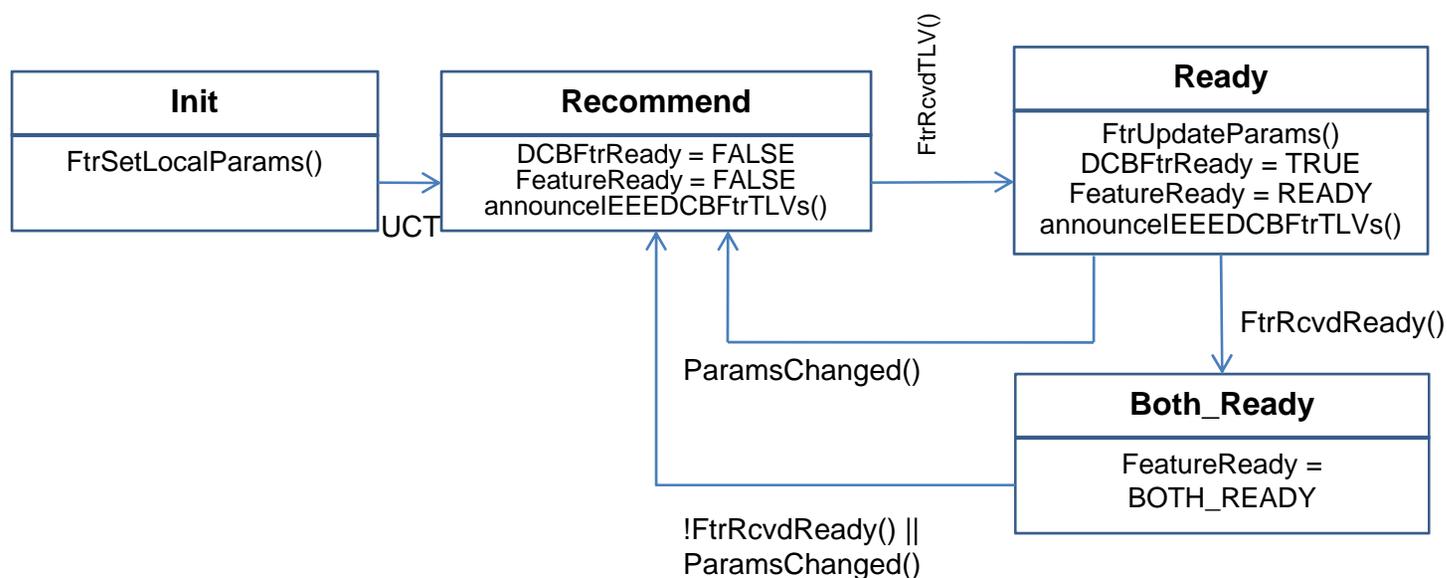
- FtrUpdateParams(): FtrCopyRemoteParams ()
- FtrRcvdReady(): RemoteReady == TRUE
- ParamsChanged (): Event generated when local parameters administratively changed
- announceIEEEEDCBFtrTLVs(): Update local LLDP MIB to send update to peer

▪ Variables:

- FeatureReady: Indication to local entity whether feature is ready;
 - values: FALSE/READY/BOTH_READY

▪ LLDP variable:

- DCBFtrReady



Joint SM

Functions:

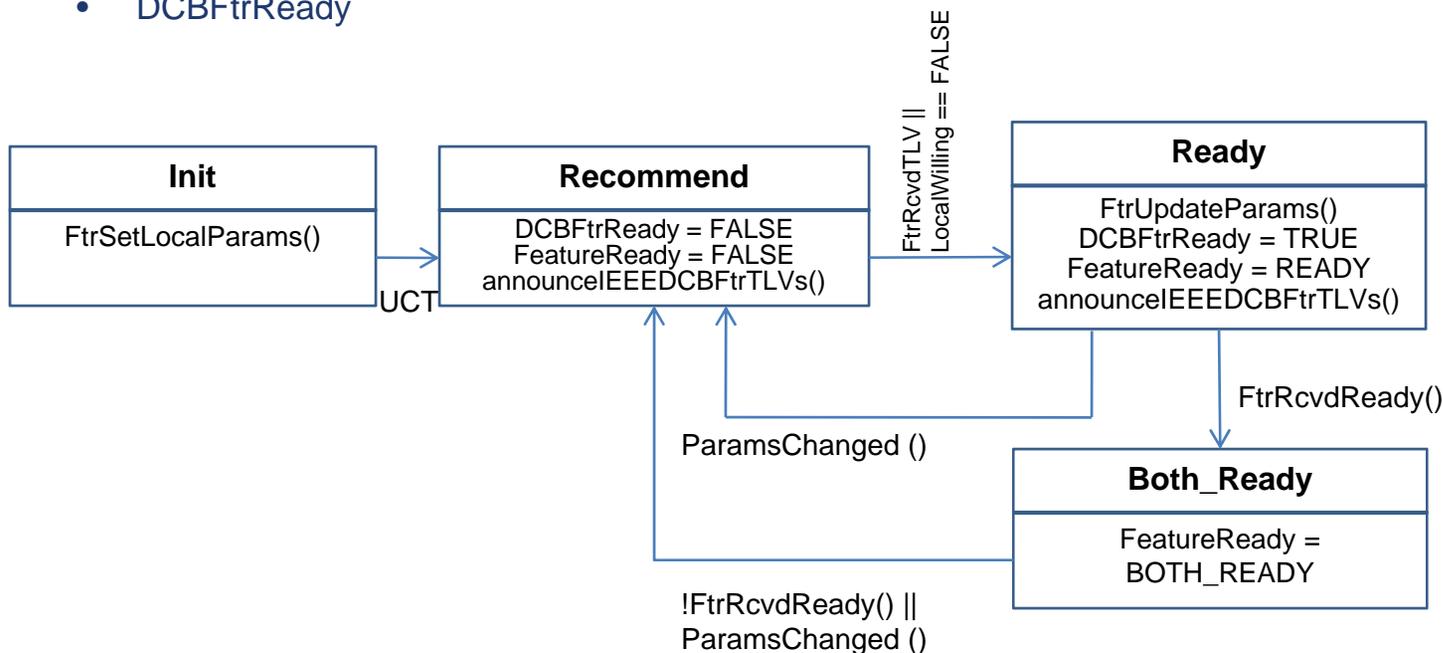
- FtrUpdateParams(): if (LocalWilling == TRUE) FtrCopyRemoteParams(); else {}
- FtrRcvdReady(): RemoteReady == TRUE
- ParamsChanged (): Event generated when local parameters administratively changed
- announceIEEEEDCBFtrTLVs(): Update local LLDP MIB to send update to peer

Variables:

- FeatureReady: Indication to local entity whether feature is ready;
 - values: FALSE/READY/BOTH_READY

LLDP variable:

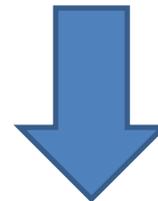
- DCBFtrReady



Proposed TLV Change

- Add “Ready” bit in Configuration TLV

TLV Type =127	TLV Info String Len=17	802.1 OUI 00-80-C2	802.1 Subtype = 9	Reserved	Willing	Priority Assignment Table	Priority Group Configured Bandwidth Table
7 bits	9 bits	3 octets	1 octet	7 bits	1 bit	4 Octets	8 Octets



TLV Type =127	TLV Info String Len=17	802.1 OUI 00-80-C2	802.1 Subtype = 9	Rsvd	Ready	Willing	Priority Assignment Table	Priority Group Configured Bandwidth Table
7 bits	9 bits	3 octets	1 octet	6 bits	1 bit	1 bit	4 Octets	8 Octets



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