

Proposed editor responses to
clause 72 comments # 177,
97, 115, 130, 52, 64, 65, 114, 129

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Editor Clause 72
Jan 12 2006

Editors proposed response to comments: 97_115_130

Table 72-8—Transmitter output waveform requirements related to coefficient status

Coefficient status			Requirements		
$c(1)$	$c(0)$	$c(-1)$	R_{pre}	R_{pst}	V_{ss} (mV)
maximum	minimum	maximum	0.90 to 1.10	0.90 to 1.10	220 to 330
maximum	maximum	maximum	0.95 to 1.05	0.95 to 1.05	400 to 600
minimum	minimum	maximum	–	4.00 (min)	–
maximum	minimum	minimum	1.54 (min)	–	–

In addition:

- a) For all transmit equalizer configurations, V_{ss} shall be greater than or equal to 40 mV.
- b) Any coefficient update equal to “decrement” applied to any tap that results in V_{ss} less than 40 mV shall return a coefficient status value “minimum”.
- c) For all transmit equalizer configurations, V_{pk} , which is defined as the sum $V_{pst} - V_{pre} - V_{ss}$, shall be less than or equal to 600 mV.
- d) Any coefficient update equal to “decrement” applied to $c(-1)$ or $c(1)$ that results in V_{pk} greater than 600 mV shall return a coefficient status value “minimum”.
- e) Any coefficient update equal to “decrement” applied to $c(0)$ that results in V_{pk} greater than 600 mV shall return a coefficient status value “maximum”.

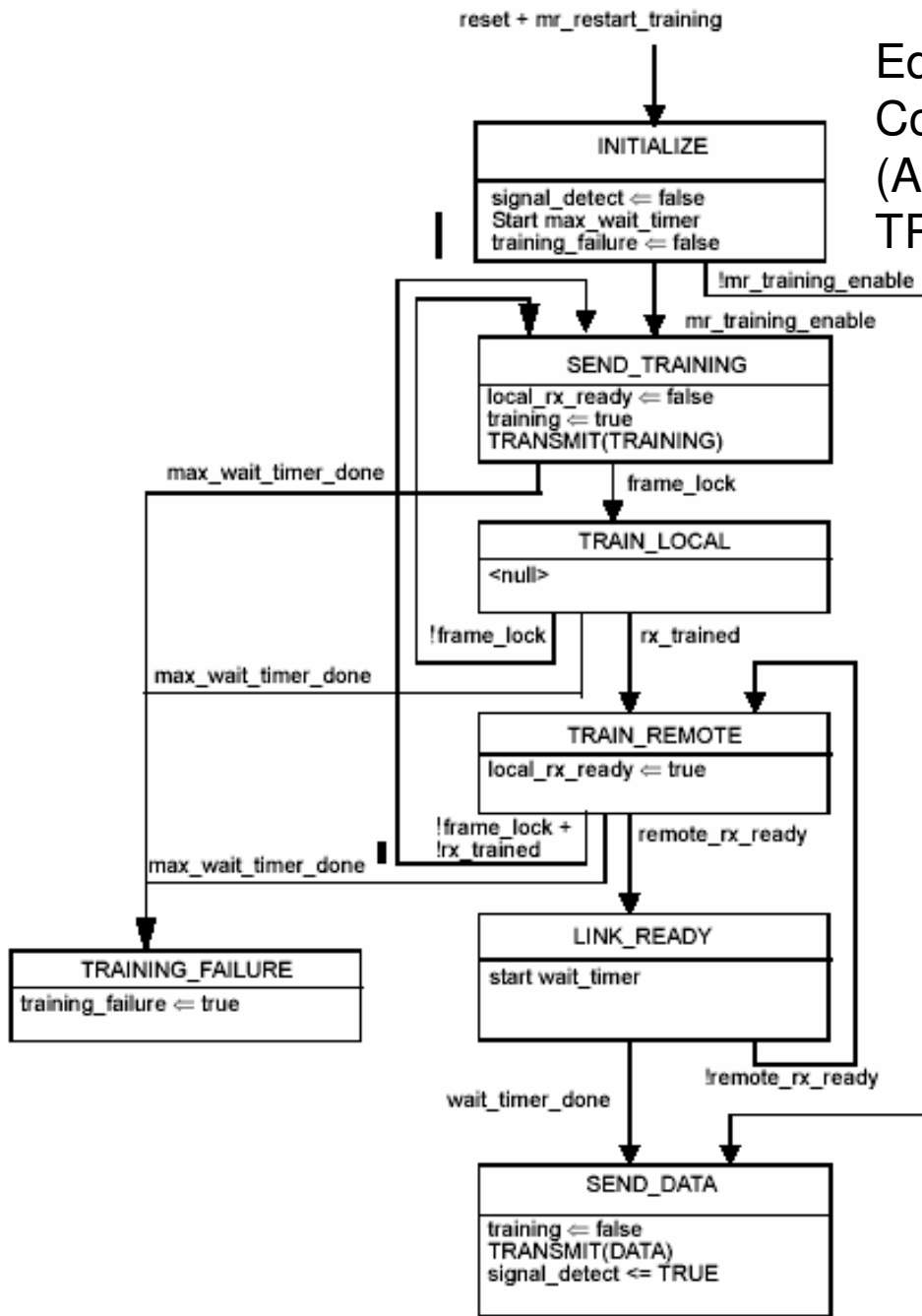
Editors response to comments # 52,64,65,114,129

Table 72–7—Transmitter output waveform requirements related to coefficient update

Coefficient update			Requirements		
$c(1)$	$c(0)$	$c(-1)$	$V_{pre}(k) - V_{pre}(k-1)$ (mV)	$V_{post}(k) - V_{post}(k-1)$ (mV)	$V_{ss}(k) - V_{ss}(k-1)$ (mV)
increment	hold ¹	hold	-20 to -5	-20 to -5 ²	5 to 20
decrement	hold	hold	5 to 20	5 to 20	-20 to -5
hold	increment	hold	-20 to -5	5 to 20	5 to 20
hold	decrement	hold	5 to 20	-20 to -5	-20 to -5
hold	hold	increment	5 to 20	5 to 20	5 to 20
hold	hold	decrement	-20 to -5	-20 to -5	-20 to -5

¹Step size requirements for the tap under test apply regardless of the current value of the other taps.

²This difference is measured relative to the value of the coefficient prior to the assertion coefficient update k equal to hold.



Editors response to
 Comment # 177
 (Added
 TRAINING FAILURE STATE)

Figure 72-5—Training state diagram