RETURN-LOSS-RELATED TBDS AND WAYS TO ADDRESS THEM

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Introduction

- Goals
  - Summarize TBDs and missing specs
  - Propose short term remedies for technical completeness
- Principle: Values and equations, even if not final, are better than TBDs
  - Products in design can be tested
  - Alternatives can be suggested
- Missing?
  - In some places we don't even TBDs but they can cause problems if not specified

Summary table

Where	What	ERL/DERL (DD)		RLCC		RLCD (differential to common)	
		Reference	Value/equation	Reference	Value/equation	Reference	Value/Equation
162	Tx	162.9.3.5	7.3	162.9.3.6	2	92.8.3.3	TBD
	Rx	162.9.4.5	7.3			92.8.4.3	TBD
	CA	162.11.3	TBD	162.11.6	(162-11)	162.11.4	(162-9)
163	Tx	163.9.2.2	-3	162.9.3.6	2	?	
	Rx	163.9.3.2	-3			93.8.1.4	TBD
	Channel	163.10.3	9.7	?	?	missing	
120F	Tx	120F.3.1.1	-3	162.9.3.6	2		
	Rx	120F.3.2.1	-3			120F.3.2.2	(120F–1)
	Channel	120F.4.3	TBD	?	?	missing	
120G	Host output	120G.3.1.2	7.3			120G.3.1.1	(120G–1)
	Module output	120G.3.2.3	TBD			120G.3.1.2 (incorrect)	(120G–1)
	Host input	120G.3.3.1	7.3	?	?	120G.3.1.2 (incorrect)	(120G–1)
	Module input	120G.3.4.2	TBD	?	?	120G.3.1.2 (incorrect)	(120G–1)

Possible directions for TBDs

Reasoning: same connectors used in all cases; conversion should be similar

Where	What	ERL/DERL (DD)		RLCC		RLCD (differential to common)	
		Reference	Value/equation	Reference	Value/equation	Reference	Value/Equation
162	Tx	162.9.3.5	7.3	162.9.3.6	2	92.8.3.3	TBD
	Rx	162.9.4.5	7.3			92.8.4.3	TBD
	CA	162.11.3	TBD (Table 162–16)	162.11.6	(162-11)	162.11.4	(162-9)
163	Tx	163.9.2.2	-3	162.9.3.6	2	?	
	Rx	163.9.3.2	-3				
	Channel	163.10.3	9.7	?	?	missing	
120F	Tx	120F.3.1.1	-3	162.9.3.6	2		
	Rx	120F.3.2.1	-3			120F.3.2.2	(120F–1)
	Channel	120F.4.3		?	?	missing	
120G	Host output	120G.3.1.2	7.3			120G.3.1.1	(120G–1)
	Module output	120G.3.2.3	TBD			120G.3.1.2 (incorrect)	(120G–1)
	Host input	120G.3.3.1	7.3	?	?	120G.3.1.2 (incorrect)	(120G–1)
	Module input	120G.3.4.2	TBD	?	?	120G.3.1.2 (incorrect)	(120G–1)

Use same as CA

Use OIF-CEI equation

Use C163 Spec

Handle these 3 together (slide 6)

Possible direction for missing

Where	What	ERL/DERL (DD) Reference	ERL/DERL (DD) Value/equation	RLCC Reference	RLCC Value/equation	RLCD (differential to common) Reference	RLCD (differential to common) Value/Equation
162	Tx	162.9.3.5	7.3	162.9.3.6	2	92.8.3.3	TBD
162	Rx	162.9.4.5	7.3			92.8.4.3	TBD
162	CA	162.11.3	TBD	162.11.6	(162-11)	162.11.4	(162-9)
163	Tx	163.9.2.2	-3	162.9.3.6	2	?	
163	Rx	163.9.3.2	-3			93.8.1.4	TBD
163	Channel	163.10.3	9.7	?	?	Use C162 spec (comment #139) missing	
120F	Tx	120F.3.1.1	-3	162.9.3.6	2		
120F	Rx	120F.3.2.1	-3			120F.3.2.2	(120F–1)
120F	Channel	120F.4.3	TBD	?	?	Use C162 spec (comment #139) missing	
120G	Host output	120G.3.1.2	7.3			120G.3.1.1	(120G–1)
120G	Module output	120G.3.2.3	TBD			120G.3.1.2 (incorrect)	(120G–1)
120G	Host input	120G.3.3.1	7.3	?	?	120G.3.1.2 (incorrect)	(120G–1)
120G	Module input	120G.3.4.2	TBD	?	?	120G.3.1.2 (incorrect)	(120G–1)

ERL for CA, module input, module output

- (elaborate on rationale of comments 120, 125)

QUESTIONS? DISCUSSION?

Thank you