

2.3bu D3.1 Power over Datalines (PoDL) of Single Balanced Pair Ethernet 1st Sponsor recirculation ballot

Cl FM SC FM P 13 L 34 # r01-1
 Anslow, Peter Ciena Corporation
Comment Type E Comment Status D ezbucket
 The em-dash between the amendment number and "This" should not be preceded or followed by a space.
 "Amendment 3--This" is shown correctly. Amendments 4 through 8 are not.
SuggestedRemedy
 Remove the spaces around the em-dashes in Amendments 4 through 8.
Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 1 SC 1.4.415 P 20 L 36 # r01-3
 Anslow, Peter Ciena Corporation
Comment Type E Comment Status D ezbucket
 Comment i-3 was ACCEPT but the part:
 In 1.4.415, change "IEEE 802.3" to IEEE Std 802.3" has not been implemented.
SuggestedRemedy
 In 1.4.415, change "IEEE 802.3" to IEEE Std 802.3"
Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl FM SC FM P 19 L 8 # r01-8
 Dove, Daniel Linear Technology
Comment Type E Comment Status D ezbucket
 In the title "Single Balanced Twisted Pair Ethernet" does not hyphenate Twisted-Pair despite the fact its descriptive of the type of wire.
SuggestedRemedy
 Search/Replace "Twisted Pair" with "Twisted-Pair" where appropriate.
 P12L9,P19L8,P27L48, P37L51, P38L5, P41L1, P73L2, P73L8, P73L37, P74L27
Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.

Cl 30 SC 30.2.5 P 25 L 13 # r01-4
 Anslow, Peter Ciena Corporation
Comment Type E Comment Status D ezbucket
 the cross-reference to "Table 30-10" should be underlined and the "." at the end of the sentence is missing.
SuggestedRemedy
 Underline "Table 30-10" and add the "."
Proposed Response Response Status W
 PROPOSED ACCEPT.

Editor given editorial license to implement suggested remedy.

Cl 1 SC 1.4.338 P 20 L 29 # r01-2
 Anslow, Peter Ciena Corporation
Comment Type E Comment Status D ezbucket
 the cross-reference to "Clause 104" should be underlined.
SuggestedRemedy
 Underline "Clause 104"
Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 30 SC 30.15.1.1.9 P 29 L 54 # r01-5
 Anslow, Peter Ciena Corporation
Comment Type E Comment Status D ezbucket
 A ";" has been added after "(see 104.4.3.3)." but this is not the end of the BEHAVIOUR DEFINED AS: section (which is on the next page).
SuggestedRemedy
 Change "(see 104.4.3.3).;" to "(see 104.4.3.3)."
Proposed Response Response Status W
 PROPOSED ACCEPT.

2.3bu D3.1 Power over Datalines (PoDL) of Single Balanced Pair Ethernet 1st Sponsor recirculation ballot

Cl 30 SC 30.15.1.2.1 P 31 L 14 # r01-38
 Gardner, Andrew Linear Technology

Comment Type ER Comment Status D ezbucket

The symbol 'aPoDLPSEAdminControl' is associated with an action, so the proper symbol prefix is 'ac' instead of 'a'.

SuggestedRemedy

Change 'aPoDLPSEAdminControl' to 'acPoDLPSEAdminControl' in 30.15.1.2.1 and globally.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Editor given editorial license to implement suggested remedy.

Cl 45 SC 45.2.7b.2.1 P 35 L 49 # r01-9
 Dove, Daniel Linear Technology

Comment Type E Comment Status D notezbucket

While possibly out of scope, it occurs to me that the first sentence is not as explicit as it should be and perhaps even technically incorrect.

SuggestedRemedy

Replace "voltage" with "application of full operating voltage"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 45 SC 45.2.7b.3 P 37 L 20 # r01-10
 Dove, Daniel Linear Technology

Comment Type E Comment Status D ezbucket

The table is not technically correct in the fact that "1xx" is reserved, but "111" (which falls into the set of 1xx) is not reserved. I think it would be accurate to replace "1xx = Reserved" with two lines that explicitly show reserved values.

SuggestedRemedy

Replace "1xx = Reserved" with 110 = Reserved, 10x = Reserved" in the table and include that information in the explanatory text by adding "Values of '10x' and '110' are reserved." to the end of the paragraph in 45.2.7b.3.2

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 104 SC 104.3 P 44 L 18 # r01-16
 Gardner, Andrew Linear Technology

Comment Type E Comment Status D nonezbucket

Usage of min and max in Table 104-1 is inconsistent with regards to VPSE, PClass, and PPD.

SuggestedRemedy

Make PClass into PClass(min), PPD into PPD(max). Change foot note for VPSE(max) to read as follows:

"VPSE(max) is the maximum allowed voltage at the PSE PI over the full range of operating conditions."

Add new footnote for PClass to read as follows:

"PClass(min) is the minimum average available output power at the PSE PI."

Change PPD footnote to read as follows:

"PPD(max) is the maximum average available power at the PD PI."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Editor given editorial license to implement suggested remedy.

Cl 104 SC 104.3 P 44 L 18 # r01-18
 Gardner, Andrew Linear Technology

Comment Type TR Comment Status D ezbucket

Pclass for Class 4 is incorrect (must've been a typo by the editor).

SuggestedRemedy

Change Pclass value for Class 4 from 11.4W to 1.14W.

Proposed Response Response Status W

PROPOSED ACCEPT.

2.3bu D3.1 Power over Datalines (PoDL) of Single Balanced Pair Ethernet 1st Sponsor recirculation ballo

CI 104 SC 104.4.3.1 P 45 L 21 # r01-19
 Gardner, Andrew Linear Technology

Comment Type T Comment Status D ezbucket

The text "Additionally, while full operating voltage is applied, the PSE monitors the current drawn and removes power if it detects an overload, short-circuit or other fault." implies that the PSE may not monitor current drawn when applying a voltage other than the full operating voltage which is not the case.

SuggestedRemedy

Change text to read "Additionally, while voltage is applied, the PSE monitors the current drawn and removes power if it detects an overload, short-circuit or other fault."

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 104 SC 104.4.3.3 P 45 L 28 # r01-11
 Dove, Daniel Linear Technology

Comment Type E Comment Status D ezbucket

typo

SuggestedRemedy

replace "a" with "an" in both sentences in this definition.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Comment refers to overload_detected on page 46, line 28. Change to:

"overload_detected

TRUE: The PSE has detected an overload condition (see 104.4.6.2.1).

FALSE: The PSE has not detected an overload condition."

CI 104 SC 104.4.3.3 P 45 L 33 # r01-20
 Gardner, Andrew Linear Technology

Comment Type T Comment Status D nonezbucket

The definition of detection_done TRUE or FALSE states that:

"TRUE: the detection sequence has terminated since the last entry to the IDLE state either as a result of a valid signature being detected, an invalid signature being detected, or the tdet_timer timing out.

FALSE: the detection sequence has not terminated since the last entry to the IDLE state either as a result of a valid signature being detected, an invalid signature being detected, or the tdet_timer timing out.

But the detection state diagram in Figure 104-5 shows that detection_done is TRUE when a valid signature has been detected or an invalid signature has been detected which is the result of the tdet_timer timing out.

SuggestedRemedy

Change the text for detection_done from:

"TRUE: the detection sequence has terminated since the last entry to the IDLE state either as a result of a valid signature being detected, an invalid signature being detected, or the tdet_timer timing out.

FALSE: the detection sequence has not terminated since the last entry to the IDLE state either as a result of a valid signature being detected, an invalid signature being detected, or the tdet_timer timing out."

to:

"TRUE: the detection sequence has terminated since the last entry to the IDLE state either as a result of a valid or invalid signature being detected.

FALSE: the detection sequence has not terminated since the last entry to the IDLE state either as a result of a valid or invalid signature being detected."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Editor given editorial license to implement suggested remedy.

2.3bu D3.1 Power over Datalines (PoDL) of Single Balanced Pair Ethernet 1st Sponsor recirculation ballo

Cl 104 SC 104.4.3.3 P 45 L 39 # r01-21
 Gardner, Andrew Linear Technology

Comment Type TR Comment Status D nonezbucket

The definition do_classification_done TRUE or FALSE states that:

TRUE: following a valid detection sequence, the PSE has concluded serial communication after performing a read of the PD information and any additional implementation dependent read or write commands.

FALSE: following a valid detection sequence, the PSE has not concluded serial communication after performing a read of the PD information and any additional implementation dependent read or write commands.

But the PSE state diagram in Figure 104-4 indicates that detection of a valid PD signature is not required in order to proceed to classification.

SuggestedRemedy

Change the definition of do_classification_done from:

"...following a valid detection sequence..."

to:

"...following a detection sequence..."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Editor given editorial license to implement suggested remedy.

Cl 104 SC 104.4.3.3 P 46 L 6 # r01-22
 Gardner, Andrew Linear Technology

Comment Type E Comment Status D ezbucket

The cross reference in the definition of MFVS_valid is incorrect.

SuggestedRemedy

Change 104.4.7 to 104.4.7.1.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 104 SC 104.4.3.3 P 47 L 19 # r01-23
 Gardner, Andrew Linear Technology

Comment Type TR Comment Status D nonezbucket

The definition of power_available TRUE or FALSE states:

"TRUE: A compatible PSE class to PD class pairing exists as defined in Table 104-2 and the PSE is able to source the required voltage and power.

FALSE: A valid PSE class to PD class pairing does not exist as defined in Table 104-2 or the PSE is not able to source the required voltage and power."

but footnote a of Table 104-2 states "An 'x' denotes a PSE to PD class pairing where power_available is TRUE." which is inconsistent with the definition of power_available.

SuggestedRemedy

Change footnote a of Table 104-2 to read "An 'x' denotes a valid PSE to PD class pairing."

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 104 SC 104.4.3.3 P 48 L 12 # r01-24
 Gardner, Andrew Linear Technology

Comment Type ER Comment Status D ezbucket

The text "12V unreg" in the row header for PD Classes 2 and 3 should be "12V reg"

SuggestedRemedy

See comment

Proposed Response Response Status W

PROPOSED ACCEPT.

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Cl 104 SC 104.4.4.1 P 52 L 20 # r01-41
 Gardner, Andrew Linear Technology

Comment Type TR Comment Status X nonezbucket

Meeting the new VOC limits and requiring a voltage between Vbad_hi_PSE min and VOC be detected as invalid is potentially onerous for a PSE because of:

- 1) the potential for relatively high slew rates at the PI when a PD with little or no input capacitance.
- 2) the 50mV minimum 'must reject' voltage range requirement between VOC and Vbad_hi_PSE min, this competes with other constraints in the existing 4.75V to 5.15V range for VOC.
- 3) re-using VOC to delimit the upper end of the 'must reject' range. A separate parameter to specify the maximum voltage that may be applied during detection while a valid PD is present may be needed in order to unconstrain VOC.

SuggestedRemedy

A complete remedy will be proposed in presentation gardner_3bu_01_0916.pdf at the meeting in Fort Worth.

Proposed Response Response Status W

TFTD after presentation of gardner_3bu_01_0916.pdf.

Cl 104 SC 104.4.4.3 P 52 L 47 # r01-42
 Gardner, Andrew Linear Technology

Comment Type TR Comment Status X nonezbucket

Baseline text in 104.4.4.3 requires that a PSE reject a signature voltage greater than or equal to Vbad_hi_PSE min and by implication less than VOC, but the reduction in VOC max for D3.1 and the absence of a minimum PD input capacitance may make this onerous for a PSE implementer.

SuggestedRemedy

A complete remedy will be proposed in presentation gardner_3bu_01_0916.pdf at the meeting in Fort Worth.

Proposed Response Response Status W

TFTD after presentation of gardner_3bu_01_0916.pdf.

Cl 104 SC 104.4.5 P 53 L 6 # r01-12
 Dove, Daniel Linear Technology

Comment Type T Comment Status D ezbucket

Duplication of information. It would be better to point to the correct text in 104.7

SuggestedRemedy

Delete "Implementation of SCCP by a PSE is also optional." and replace with "See 104.7."

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 104 SC 104.4.5 P 53 L 9 # r01-25
 Gardner, Andrew Linear Technology

Comment Type E Comment Status D ezbucket

Cross reference to Table 104-3 for Tclass is incorrect.

SuggestedRemedy

Change cross reference to Table 104-4.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 104 SC 104.4.6 P 53 L 37 # r01-27
 Gardner, Andrew Linear Technology

Comment Type E Comment Status D ezbucket

Cross references for items 3 and 4 in Table 104-4 are to Equation 104-1, but should be to subclause 104.4.6.3.

SuggestedRemedy

Change the cross references for items 3 and 4 in Table 104-4 from Equation 104-1 to 104.4.6.3.

Proposed Response Response Status W

PROPOSED ACCEPT.

2.3bu D3.1 Power over Datalines (PoDL) of Single Balanced Pair Ethernet 1st Sponsor recirculation ballo

Cl 104 **SC 104.4.6** **P 53** **L 38** # r01-26

Gardner, Andrew Linear Technology

Comment Type **T** **Comment Status** **D** *nonezbucket*

Item 3, Output slew rate of Table 104-4 has a requirement for Type A PSEs. Shouldn't this also apply to Type C PSEs as well?

SuggestedRemedy
Change the Type values for item 3 to from 'A' to 'A and C'.

Proposed Response **Response Status** **W**
PROPOSED ACCEPT.

Cl 104 **SC 104.4.6** **P 54** **L 14** # r01-40

Gardner, Andrew Linear Technology

Comment Type **E** **Comment Status** **D** *ezbucket*

Font size for 'Overload delay timing' may be one point too big relative to other text in Table 104-4.

SuggestedRemedy
Correct font size to be consistent with rest of Table 104-4.

Proposed Response **Response Status** **W**
PROPOSED ACCEPT IN PRINCIPLE.

Editor given editorial license to implement suggested remedy.

Cl 104 **SC 104.4.6** **P 54** **L 33** # r01-28

Gardner, Andrew Linear Technology

Comment Type **T** **Comment Status** **D** *nonezbucket*

The specification for item 20, Idischarge does not specify the conditions over which the current is to be measured. The min requirement also appears to be redundant with the Toff requirement as described in 104.4.6.5 and as such is unnecessarily limiting. Also there is no max limit on Idischarge during SETTLE_SLEEP.

SuggestedRemedy
Delete min requirement and add max of 24mA (Isc) for item 20 (Idischarge) in Table 104-4 and change the sentence in 104.4.6.2 from

"A PSE operating in the SETTLE_SLEEP state shall discharge the PI to the range of VSleep with a current greater than Idischarge."

to

"A PSE operating in the SETTLE_SLEEP state shall discharge the PI to a voltage within the range of VSleep with a current in the range of Idischarge".

Proposed Response **Response Status** **W**
PROPOSED ACCEPT IN PRINCIPLE.

Editor given editorial license to implement suggested remedy.

Cl 104 **SC 104.4.6** **P 54** **L 37** # r01-29

Gardner, Andrew Linear Technology

Comment Type **TR** **Comment Status** **D** *nonezbucket*

The cross reference to 104.4.6.1 for item 21, VDisable, does not contain any text that describes VDisable.

SuggestedRemedy
Add the following text to 104.4.6.1:

"A PSE operating in the DISABLED state shall discharge the PSE PI to a voltage within the range of VDisable within a time less than TDisable max."

Proposed Response **Response Status** **W**
PROPOSED ACCEPT IN PRINCIPLE.

Editor given editorial license to implement suggested remedy.

2.3bu D3.1 Power over Datalines (PoDL) of Single Balanced Pair Ethernet 1st Sponsor recirculation ballo

Cl 104 SC 104.4.6 P 54 L 43 # r01-30
 Gardner, Andrew Linear Technology
 Comment Type E Comment Status D ezbucket
 The cross reference to 104.4.6.7 for item 22, Disable time, is incorrect.
 SuggestedRemedy
 Change the cross reference for item 22 from 104.4.6.7 to 104.4.6.6.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 104 SC 104.4.6.2.3 P 55 L 44 # r01-31
 Gardner, Andrew Linear Technology
 Comment Type E Comment Status D ezbucket
 The cross reference to Table 104-3 for TWakeup min is incorrect.
 SuggestedRemedy
 Change the cross reference from Table 104-3 to Table 104-4.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 104 SC 104.5.6 P 62 L 6 # r01-34
 Gardner, Andrew Linear Technology
 Comment Type T Comment Status D nonezbucket
 Items 1 and 2 , Input current and voltage slew rate, of Table 104-7 have a requirement for Type A PDs. Shouldn't these requirements also apply to Type C PDs as well?
 SuggestedRemedy
 Change the values in the Type fields for items 1 and 2 from 'A' to 'A and C'.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 104 SC 104.5.6 P 62 L 17 # r01-33
 Gardner, Andrew Linear Technology
 Comment Type E Comment Status D ezbucket
 Min values entries for items 4a-4e in Table 104-7 are not specified and should an em-dash.
 SuggestedRemedy
 Add em-dash to min value fields for items 4a-4e in Table 104-7.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 104 SC 104.5.6 P 62 L 41 # r01-39
 Gardner, Andrew Linear Technology
 Comment Type T Comment Status D nonezbucket
 The requirement for CIN in Table 104-7 should also apply during the DISCONNECT and PD_SLEEP states in order for the PSE inrush timing to be satisfied.
 SuggestedRemedy
 Replace " Input Capacitance during DO_DETECTION, MDI_POWER1, and MDI_POWER_DELAY states" with "Input capacitance when MDI_power_enabled = FALSE" for item 6a in Table 104-7.

Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 104 SC 104.5.6 P 62 L 41 # r01-43
 Gardner, Andrew Linear Technology
 Comment Type TR Comment Status D ezbucket
 Given the new PSE detection criteria in Table 104-3 and the definition of a valid PD with a bad high signature, the absence of a minimum PD input capacitance value during detection in Table 104-5 or 104-7 may be problematic for PSE implementers.

SuggestedRemedy
 A complete remedy will be proposed in presentation gardner_3bu_01_0916.pdf at the meeting in Fort Worth.

Proposed Response Response Status W
 TFTD after presentation of gardner_3bu_01_0916.pdf

Cl 104 SC 104.5.6 P 63 L 6 # r01-35
 Gardner, Andrew Linear Technology
 Comment Type TR Comment Status D nonezbucket
 The max value of VSleep_PD is 3.45V which is less than the VSleep max value of 3.575V for a PSE in Table 104-4. Shouldn't the max values be the same?

SuggestedRemedy
 Change the max value for VSleep_PD in Table 104-7 from 3.45V to 3.575V.

Proposed Response Response Status W
 PROPOSED ACCEPT.

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Cl 104 SC 104.5.6.1 P 61 L 50 # r01-32
 Gardner, Andrew Linear Technology

Comment Type E Comment Status D ezbucket

Clause 104.5.6.1 text is split before and after Table 104-7, but Table 104-7 is part of 104.5.6.

SuggestedRemedy

Move the start of 104.5.6.1 after Table 104-7.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Editor given editorial license to implement suggested remedy.

Cl 104 SC 104.5.6.5 P 44 L 18 # r01-17
 Gardner, Andrew Linear Technology

Comment Type TR Comment Status D nonezbucket

PPD is used inconsistently. PPD is maximum power in most places. "over the range of PPD" specifies it as the actual value, as does equation 104-4

SuggestedRemedy

Replace PPD with PPD(max) in most places, except where it says "over the range of PPD", and in 104.5.6.5 including equation 104-4.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Editor given editorial license to implement suggested remedy.

Cl 104 SC 104.7.1.3 P 68 L 4 # r01-13
 Dove, Daniel Linear Technology

Comment Type E Comment Status D ezbucket

Typo

SuggestedRemedy

Replace "PI-as" with "PI- as"; ie; insert a space between "PI-" and the word "as".

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 104 SC 104.8.1 P 71 L 6 # r01-36
 Gardner, Andrew Linear Technology

Comment Type TR Comment Status D nonezbucket

ISO 26262 is intended to be applied to electrical or electronic systems in "series production cars" with a maximum gross weight of 3500 kg, but the text in 104.8.1 states "All equipment subject to this clause and intended for motor vehicle applications shall conform to ISO 26262."

SuggestedRemedy

Change the text in 104.8.1 from:

"All equipment subject to this clause and intended for motor vehicle applications shall conform to ISO 26262."

to:

"All equipment subject to this clause and intended for motor vehicle applications shall conform to ISO 26262 if required by the given application."

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 104 SC 104.8.5 P 72 L 15 # r01-6
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D ezbucket

"a 100 source resistance" should be "a 100 omega source resistance" and 56 Vdc should not split across lines.

SuggestedRemedy

change "a 100 source resistance" to "a 100 omega source resistance" [where "omega" is a capital omega] and make the space in 56 Vdc non-breaking (Ctrl-space).

Proposed Response Response Status W

PROPOSED ACCEPT.

2.3bu D3.1 Power over Datalines (PoDL) of Single Balanced Pair Ethernet 1st Sponsor recirculation ballot

Cl 104 SC 104.8.5 P 72 L 20 # r01-7
 Anslow, Peter Ciena Corporation
 Comment Type E Comment Status D ezbucket
 "shall not result preclude conformance" doesn't make sense.
 104.8.1 and 104.8.2 should be cross-references.
 SuggestedRemedy
 Change "shall not result preclude conformance" to "shall not result in non-conformance"
 Make 104.8.1 and 104.8.2 cross-references.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 104 SC 104.9.8 P 81 L 27 # r01-15
 Dove, Daniel Linear Technology
 Comment Type E Comment Status D ezbucket
 Typo
 SuggestedRemedy
 Replace "s" with "a", as in "classified as a Limited Power Source".
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Comment refers to item ENV3 in sub-clause 104.9.4.8. Change Value/Comment field to:
 "To be classified as Limited Power Source in accordance with IEC 60950-1"

Cl 104 SC 104.8.5 P 72 L 20 # r01-37
 Gardner, Andrew Linear Technology
 Comment Type E Comment Status D ezbucket
 Typo in last paragraph of 104.8.5.
 SuggestedRemedy
 Change text in 104.8.5 from:
 "...shall not result preclude ..."
 to:
 "...shall not preclude..."
 Proposed Response Response Status Z
 PROPOSED REJECT.
 This comment was WITHDRAWN by the commenter.

Cl 104 SC 104.9.3 P 74 L 16 # r01-14
 Dove, Daniel Linear Technology
 Comment Type TR Comment Status X nonezbucket
 A number of issues are found in the PICs section
 SuggestedRemedy
 Incorporate changes recommended in dove_3bu_01_0916.pdf (to be submitted to
 P802.3bu Task Force)
 Proposed Response Response Status W
 TFTD after presnetation of dove_3bu_01_0916.pdf