This email thread relates to a comment that will be discussed in San Francisco during Qbf sponsor ballot comment resolution.

From: tonyjeffree@googlemail.com [mailto:tonyjeffree@googlemail.com] **On Behalf Of** Tony Jeffree
Sent: Wednesday, May 25, 2011 5:35 AM
To: Stephen Haddock
Cc: Robert sultan; Panagiotis Saltsidis; ao.ting@zte.com.cn
Subject: Re: RE: One issue about 802.1Qbf

Well, that is why we have ballots of course…

The pragmatic fix is to add these to one of the amendments we are currently processing (Qbf for example).

Regards,
Tony

From: Panagiotis Saltsidis
Sent: Wednesday, May 25, 2011 18:36
To: 'Stephen Haddock'; 'Robert sultan'
Cc: 'ao.ting@zte.com.cn'; 'tony@jeffree.co.uk'
Subject: RE: RE: One issue about 802.1Qbf

Hi all,

Just a small correction in my previous email: for i) and j)
i) "mfngAllowed" in IEEE802.1Qay-2009 is occasionally being replaced by "fngPriority" in P802.1Q-REV-D1.5
j) "mmdefectIndication" in IEEE802.1Qay-2009 is occasionally being replaced by "fngDefect" in P802.1Q-REV-D1.5

Best regards
Panos

From: Panagiotis Saltsidis
Sent: Wednesday, May 25, 2011 16:22
To: 'Stephen Haddock'; 'Robert sultan'
Cc: 'ao.ting@zte.com.cn'; 'tony@jeffree.co.uk'
Subject: RE: RE: One issue about 802.1Qbf

Hi,

Doing a more thorough check I have found the following broken terms:

a) "MEP Mismatch variables" in IEEE802.1Qay-2009 is occasionally being replaced by "MEP Cross Connect" in P802.1Q-REV-D1.5
b) "MEP Traffic Field Mismatch state machine" in IEEE802.1Qay-2009 is occasionally being replaced by "MEP Cross Connect state machine" in P802.1Q-REV-D1.5
c) "MEP Mismatch Fault Notification Generator" in IEEE802.1Qay-2009 is occasionally being replaced by "MEP Fault Notification Generator" in P802.1Q-REV-D1.5

d) "Read TE protection group list" in IEEE802.1Qay-2009 is occasionally being replaced by "Read Maintenance Domain list" in P802.1Q-REV-D1.5
e) "Create TE protection group managed object" in IEEE802.1Qay-2009 is occasionally being replaced by "Create Maintenance Domain managed object" in P802.1Q-REV-D1.5
f) "Delete TE protection group managed object" in IEEE802.1Qay-2009 is occasionally being replaced by "Delete Maintenance Association managed object" in P802.1Q-REV-D1.5
g) "Read TE protection group managed object" in IEEE802.1Qay-2009 is occasionally being replaced by "Read Maintenance Association managed object" in P802.1Q-REV-D1.5
h) "Write TE protection group managed object" in IEEE802.1Qay-2009 is occasionally being replaced by "Write Maintenance Association managed object" in P802.1Q-REV-D1.5
i) "mfngAllowed" in IEEE802.1Qay-2009 is occasionally being replaced by "MEP Cross Connect" in P802.1Q-REV-D1.5
j) "mmdefectIndication" in IEEE802.1Qay-2009 is occasionally being replaced by "MEP Cross Connect" in P802.1Q-REV-D1.5

No other defined parameter in IEEE802.1Qay seems to be affected.

The previous sent comments with the addition of the one below, fully resolve cases a) to c):

In 20.38 MEP Mismatch Fault Notification Generator variables In the first sentence replace "MEP Fault Notification Generator state machine" with "MEP Mismatch Fault Notification Generator state machine"

To resolve all the other the following changed need to be done:

In 12.18.1:
a) Read Maintenance Domain list (12.14.1.1)
b) Create Maintenance Domain managed object (12.14.1.2)
c) Delete Maintenance Association managed object (12.14.5.4) must be replaced with
"a) Read TE protection group list (12.18.1.1)
b) Create TE protection group managed object (12.18.1.2)
c) Delete TE protection group managed object (12.18.1.3)"

In 12.18.1.1.3
Second sentence "Read Maintenance Domain list" must be replaced with "ead TE protection group list"

In 12.18.2 TE protection group managed object
Items
a) Read Maintenance Association managed object (12.14.6.1);
b) Write Maintenance Association managed object (12.14.6.2); and
must be replaced with
"a) Read TE protection group managed object (12.18.2.1);
b) Write TE protection group managed object (12.18.2.2); and"

In 20.1.2
Last sentence "fngDefect (20.35.2)" must be replaced with "mmdefectIndication (20.38.2)"

In 20.4 Figure 20-1
state MEP CONTINUITY CHECK RECEIVER in Figure 20-1 must include the variabel rcvTrafficBit
The variables fngPriority, fngDefect in the MEP MISMATCH FAULT NOTIFICATION GENERATOR should be replaced with "mfngAllowed, mmdefectIndication"

In 20.38 MEP Mismatch Fault Notification Generator variables
Items
a) fngPriority (20.35.1)
b) fngDefect (20.35.2)
must be replaced with
"a) mfngAllowed (20.38.1)
b) mmdefectIndication (20.38.2)"

In 20.38.2 mmdefectIndication
"fngPriority (20.35.1)" must be replaced with "mfngAllowed (20.38.1)"

In A.14 the contents of items MGT-179, MGT-180, MGT-181, MGT-182, MGT-183 must be replaced with the contents of MGT-200, MGT-201, MGT-202, MGT-203 and MGT-204 in IEEE802.1Qay-2009 respectively.

Hopefully these resolve all the issues with broken references in IEEE802.1Qay.

Best regards
Panos

2011/5/24 Stephen Haddock <shaddock@stanfordalumni.org>

It looks like there were other similar errors in merging Qay into Q-REV (actually I think it happened in generating the 2009 edition):

20.25.2: also has "Cross Connect" instead of "Mismatch"

20.39: The first sentence is missing the word "Mismatch" in "....MEP Mismatch Fault Notification Generator state machine..."

20.40: The first three sentences are missing the word "Mismatch" in "....MEP Mismatch Fault Notification Generator state machine..."

Figure 20-13: Missing the word "Mismatch" in the figure title.

26.9.6.1 c) 3): also has "Cross Connect" instead of "Mismatch"

PICS MGT-125 and MGT-126: missing the word "Mismatch" in "....MEP Mismatch Fault Notification Generator state machine..."

PICS CFM-95: Has "MEP Cross Connect state machine" instead of "MEP Traffic Field Mismatch state machine" and is missing the word "Mismatch" in "....MEP Mismatch Fault Notification Generator state machine..."

12.14.7.1.3 aj) and ak): missing the word "Mismatch" in "....MEP Mismatch Fault Notification Generator state machine..."

12.14.7.7.1: missing the word "Mismatch" in "....MEP Mismatch Fault Notification Generator state machine..."

20.1.2: Fourth sentence of the first paragraph and last sentence of the last paragraph are missing the word "Mismatch" in "....MEP Mismatch Fault Notification Generator state machine..." and have the reference wrong (20.37 instead of 20.40)

20.5.9: missing the word "Mismatch" in "....MEP Mismatch Fault Notification Generator state machine..."

20.16: The sentence after item l) has "MEP Cross Connect state machine (20.24)" instead of "MEP Mismatch state machines (20.26)"

I found these by just searching for "mismatch" in each document and comparing the results. I suspect this happened as some weird side effect of automated cross-links in FrameMaker. It would be worth a very close check of anything else that might have had similar cross references in Qay.

Regards,

Steve

------ Original Message ------
Received: 07:35 AM PDT, 05/24/2011
From: Robert sultan <robert.sultan@huawei.com>
To: Panagiotis Saltsidis <panagiotis.saltsidis@ericsson.com>
Cc: "shaddock@STANFORDALUMNI.ORG" <shaddock@STANFORDALUMNI.ORG>, "ao.ting@zte.com.cn" <ao.ting@zte.com.cn>, "tony@jeffree.co.uk" <tony@jeffree.co.uk>
Subject: RE: RE: One issue about 802.1Qbf

Thanks Panos, will fix as you suggest in Qbf... Bob

From: Panagiotis Saltsidis [mailto:panagiotis.saltsidis@ericsson.com]
Sent: Tuesday, May 24, 2011 5:11 AM
To: Robert sultan; tony@jeffree.co.uk
Cc: shaddock@STANFORDALUMNI.ORG; ao.ting@zte.com.cn
Subject: RE: RE: One issue about 802.1Qbf

Hi Bob,

It seems that there has been an error when IEEE Std 802.1Qay-2009 was incorporated in IEEE802.1Q-2011. The 802.1Qay used “clever” references for defined terms and the “MEP Mismatch state machines” reference in IEEE802.1Qay has somehow been broken in IEEE802.1Q-2011. I guess that at this stage it would be better to use 802.1Qbf to change back the broken IEEE802.1Q-2011 text to the original 802.1Qay-2009 text. In particular (with respect to

the broken references) the following changes need to be made (erased text in **red,** inserted text in **green**

20.25 MEP Mismatch variables

The following variables are local to the **MEP Cross Connect state machine MEP Mismatch state machines** for a PBB-TE MEP implementing the Traffic field (21.6.1.4):

20.26 MEP Mismatch state machine**s**

The **MEP Cross Connect state machine MEP Mismatch state machines** implement the functions specified by the state diagrams in

Figure 20-7, Figure 20-9, and the variable declarations in 20.23. There is one **MEP Cross Connect state machine MEP Traffic Field Mismatch state machine** and one MEP Local Mismatch state machine per PBB-TE MEP implementing the Traffic field (21.6.1.4).

Best regards

Panos

From: Robert sultan [mailto:robert.sultan@huawei.com]
Sent: Monday, May 23, 2011 18:04
To: Panagiotis Saltsidis
Cc: shaddock@STANFORDALUMNI.ORG; ao.ting@zte.com.cn; tony@jeffree.co.uk
Subject: RE: RE: One issue about 802.1Qbf

Hi Panos,

While researching the comment that Ting sent on Qbf (below) I found some wording in Qay (now Q-2011) that wasn't clear to me. Maybe you can clarify. The following are headings of some subclauses, and the first sentence in each of the subclauses:

20.21 Remote MEP Error variables

The following variables are local to the Remote MEP Error state machine:

20.22 Remote MEP Error state machine The following variables are local to the MEP Cross Connect state machine:

The Remote MEP Error state machine implements the function specified by the state diagram in Figure 20-6 and the variable declarations in 20.21.

20.23 MEP Cross Connect variables

The following variables are local to the MEP Cross Connect state machine:

20.24 MEP Cross Connect state machine

The MEP Cross Connect state machine implements the function specified by the state diagram in Figure 20-7 and the variable declarations in 20.23.

20.25 MEP Mismatch variables

The following variables are local to the MEP Cross Connect state machine for a PBB-TE MEP implementing the Traffic field (21.6.1.4):

20.26 MEP Mismatch state machines

The MEP Cross Connect state machine implement the functions specified by the state diagrams in Figure 20-7, Figure 20-9, and the variable declarations in 20.23. There is one MEP Cross Connect state

machine and one MEP Local Mismatch state machine per PBB-TE MEP implementing the Traffic field (21.6.1.4).

Is it intentional that the text of 20.25 and 20.26 references the Cross Connect state machine rather than the Mismatch state machine? In all of the other subclauses, the text references the state machine named in the heading. It's a bit confusing. Is the 'MEP Local Mismatch state machine' (red highlight) the same as the 'MEP Mismatch state machine'? Is it intentional that the heading 20.26 is plural (red highlight)? It seems strange that the first sentences of 20.25 and 20.26 describe the Cross Connect state machines rather than the Mismatch state machines.

I wanted to make sure I understand this text before try to fix the problem that Ting described.

Thanks,

Bob

From: Robert sultan
Sent: Monday, May 23, 2011 10:12 AM
To: 'ao.ting@zte.com.cn'
Cc: panagiotis.saltsidis@ERICSSON.COM; shaddock@STANFORDALUMNI.ORG
Subject: RE: RE: One issue about 802.1Qbf

Hi Ting,

Yes, it's very clear to me now. You're saying that 20.25.2 was not modified to accommodate the possibility that the MEP associated with the MEP Mismatch state machine is an Infrastructure Segment MEP. This modification has been made in other sections such as 20.25.1 and 20.25.5.

You suggest that the fix should be

20.25.2 **mmCCMdefect**

A Boolean flag set and cleared by the PBB-TE MEP Mismatch state machines to indicate that one or more CCMs with Traffic fields not matching the presentTraffic (20.9.8) has been received, or by infrastructure segment MEP mismatch state machines to indicate that one or more CCMs with Traffic fields not matching ISpresentTraffic (20.9.10) has been received ,over a period that is 3.5 times the configured CCM transmission rate.

I would suggest a different fix, as follows:

20.25.2 mmCCMdefect

A Boolean flag set and cleared by the MEP Mismatch state machines to indicate that one or more CCMs with Traffic fields not matching the presentTraffic (20.9.8) has been received in the case of a state machine associated with a PBB-TE MEP or that one or more CCMs with ISpresentTraffic (20.9.10) has been received in the case of a state machine associated with an Infrastructure Segment MEP, over a period that is greater than 3.5 times the configured CCM transmission rate and given by the mmCCMTime (20.25.3). This variable is readable as a managed object [item ah) in 12.14.7.1.3].

The text I added to the subclause is in red.

The reason for the different fix is that I don't believe that there are distinct 'PBB-TE MEP Mismatch state machines' and 'Infrastructure Segment MEP Mismatch state machines' as are described in your fix. There are only 'MEP Mismatch state machines'. The MEP Mismatch state machine, however, can operate on a PBB-TE MEP (in which case presentTraffic is referenced) or an Infrastructure Segment MEP (in which case ISpresentTraffic is referenced).

If you agree that the fix should be made in this way, I will submit a comment. If not, we can discuss further.

Let me know,

Thanks,

Bob

From: ao.ting@zte.com.cn [mailto:ao.ting@zte.com.cn]
Sent: Thursday, May 19, 2011 10:25 PM
To: Robert sultan
Cc: panagiotis.saltsidis@ERICSSON.COM; shaddock@STANFORDALUMNI.ORG
Subject: Re: RE: One issue about 802.1Qbf

Hi Bob,

Thanks for replying. And I'm sorry I didn't make the issue clearly.

In 802.1Qbf we define a variable ISpresentTraffic in infrastructure segment MEP.

And in 802.1Qbf, we re-use the mismatch mistake state machine Figure 20-8. In the figure, there is a variable mmCCMdefect which is set to TRUE when the mmCCMwhile=0 and mmCCMreceived=1. So in this figure, we know that the **mmCCMdefect** is the variable in infrastructure segment MEP.

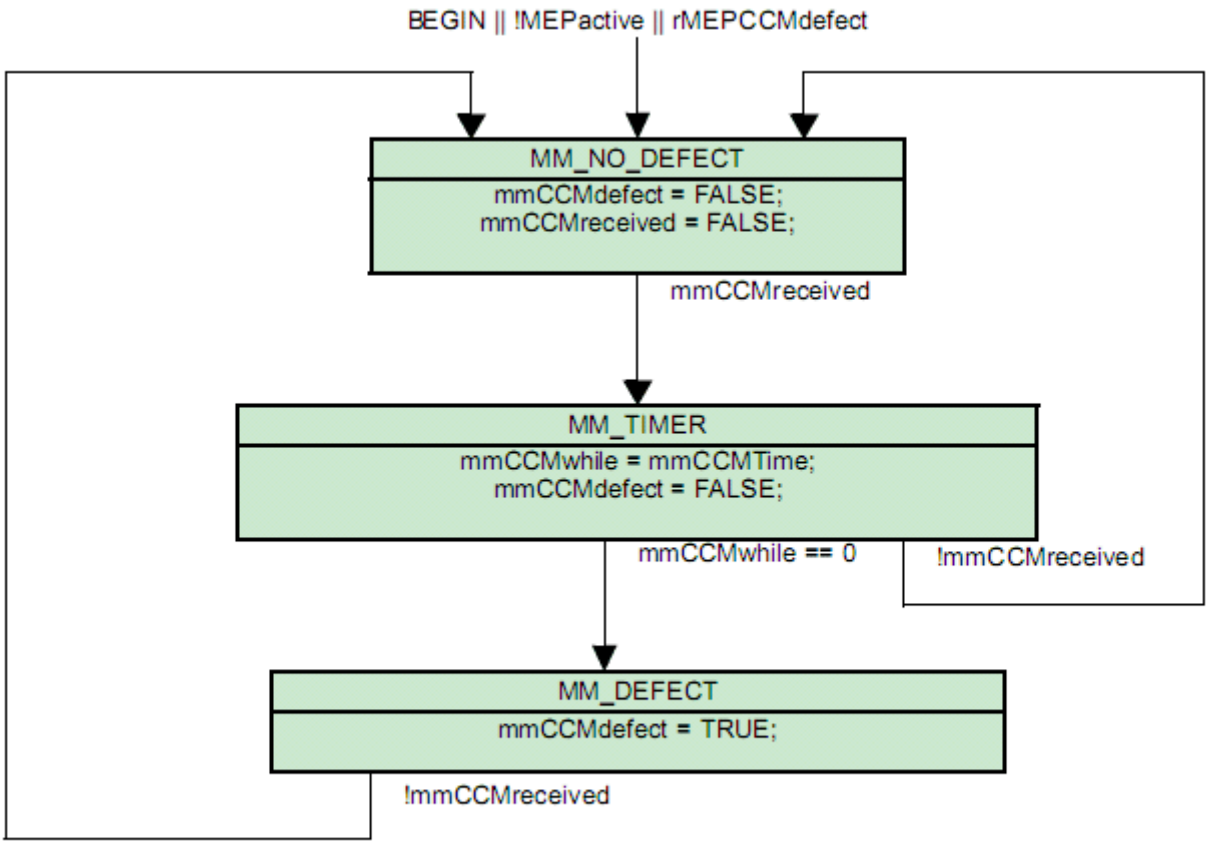

Figure 20-8—MEP Traffic Field Mismatch state machine

But we only define the **mmCCMdefect** in 802.1Qay:

20.25.2 mmCCMdefect

A Boolean flag set and cleared by the MEP Mismatch state machines to indicate that one or more CCMs with Traffic fields not matching the **presentTraffic** (20.9.8) has been received, over a period that is 3.5 times the configured CCM transmission rate.

Here **presentTraffic** is variable in PBB-TE MEP.

So I think the issue is in 802.1Qbf, we hope the **mmCCMdefect** is applicable to

infrastructure segment MEP. But we missed defining mmCCMdefect in 802.1Qbf.

My sugguestion is to add the sub-clause 20.25.2 in 802.1Qbf as following:

20.25.2 **mmCCMdefect**
A Boolean flag set and cleared by the PBB-TE MEP Mismatch state machines to indicate that one or more CCMs with Traffic fields not matching the presentTraffic (20.9.8) has been received, or by infrastructure segment MEP mismatch state machines to indicate that one or more CCMs with Traffic fields not matching ISpresentTraffic (20.9.10) has been received ,over a period that is 3.5 times the configured CCM transmission rate.

The green part is the modification for 802.1Qbf. I hope I state the issue clearly this time.:)

If you think it's a issue as well and we need to modify 802.1Qbf, please help me to submit a comment on it. Thank you so much.
By the way, what's the 'rogue' comment?:)

Best Regards.
Ting

Hi Ting,

We can and should fix all problems *now* in Qbf. Qbf just finished its initial sponsor ballot but I don't see a problem in addressing any additional problems found before the comments are reviewed in July. If you aren't a member of the IEEE Standards Association, I believe I can submit a 'rogue' comment on your behalf.

Can you be more specific about the comment and the fix?

presentTraffic from 1Q-2011 says:

20.9.8 presentTraffic
A Boolean value indicating if at least one Backbone Service instance is configured to use the TESI's ESP upon which this PBB-TE MEP is transmitting CCMs. presentTraffic is TRUE if and only if the backbone service instance table, of the CBP associated with this MEP, contains an entry that has in its B-VID and Default Backbone Destination fields the values of ESP-VID and ESP-DA of the monitored TESI's ESP which originates at the MEP.

The new ISpresentTraffic from 1Qbf says:

20.9.10 ISpresentTraffic
A Boolean value indicating if at least one TESI protected by the IPG is configured to use the segment monitored by the Infrastructure Segment MEP. ISpresentTraffic is TRUE if and only if the port upon which this MEP is configured is the outbound port of the entry in the FDB corresponding to the TESI protected by the IPG.

So, it's clear that presentTraffic applies to a PBB-TE MEP while ISpresentTraffic applies to an IS MEP. I'm not sure where the inconsistency is. If you could suggest a fix, I'm sure the problem

would become clearer to me.

As a result of looking at this, I did find an error in the following:

20.25.1 mmCCMreceived
Boolean flag set to TRUE when rcvdTrafficBit (20.16.13) does not match the presentTraffic (20.9.8) in the case of a PBB-TE MEP or rcvdTrafficBit (20.16.13) does not match the ISpresentTraffic (20.9.10) in the case of an Infrastructure segment MEP.

In the above text, "ISpresentTraffic (20.9.10)" should be highlighted in blue as inserted text. I will make sure this gets fixed.

Thanks,
Bob

From: ao.ting@zte.com.cn [mailto:ao.ting@zte.com.cn]
Sent: Tuesday, May 17, 2011 10:44 PM
To: Robert sultan; panagiotis.saltsidis@ERICSSON.COM
Cc: shaddock@STANFORDALUMNI.ORG
Subject: One issue about 802.1Qbf

Hi all,

Recently when I review the 802.1Qbf, I notice there is an issue in the draft. For the mismatch mistake, mmCCMreceived is used in PBB-TE MEP and infrastructure segment MEP. And from the mismatch mistake state machine, once the mmCCMreceived=1, and after the period of mmCCMWhile, then the mmCCMdefect=1. mmCCMdefect is also used in infrastructure segment MEP. But in 802.1Qay, mmCCMdefect indicate that one or more CCMs with Traffic fields not matching the **presentTraffic** (20.9.8) has been received, over a period that is 3.5 times the configured CCM transmission rate. The variable presentTraffic is only used in PBB-TE MEP, and we didn't amend it in 802.1Qbf. So I think there is unconsistency issue in 802.1Qbf.

What do you think of the issue? Can we modify the issue right now in the 802.1Qbf, or wait until Qbf is merged into .1Q to modify it?

Best Regards
Ting.