INTERNATIONAL TELECOMMUNICATION UNION

TELECOMMUNICATION STANDARDIZATION SECTOR

STUDY PERIOD 2017-2020

SG15-LS188

STUDY GROUP 15

Original: English

Question(s): 14/15 Geneva, 1-12 July 2019

LS

Source: ITU-T Study Group 15

Title: LS on coordination on information and data modelling

LIAISON STATEMENT

For action to: IEEE 802.1 Working Group

For comment to:

For information to: IEEE 802.3 Working Group, ONF, MEF, IETF, BBF

Approval: ITU-T SG15 (12 July 2019)

Deadline: 10 September 2019

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ITU-T Q14/15 has been working on modelling of Ethernet OAM to augment the IEEE 802.1Qcx CFM with the ITU-T G.8013 OAM. The CFM functions between the IEEE 802.1Qcx YANG modules and ITU-T G.8051 and G.8052 managed MI signals have been analysed. The followings are a summary of the analysis. It would benefit from setting default values for the following attributes in the CFM YANG modules.

(1) Continuity Check

Some IEEE specific operations are not supported in ITU.

- *rmep-failed-ok-time, mac-address in remote mep-db*: These are read-only parameters, so it is possible to omit them.
- *Port Status TLV, Interface Status TLV, Sender ID TLV:* G.8052.1 can exclude them because they are optional TLVs.

One ITU specific operation is not supported in IEEE.

- *Proactive LM: It* needs to be augmented in G.8052.1 as the part of performance monitoring functions.

The definition of defect detection is different between IEEE and ITU.

- *cDEG, cUNPr*: Not supported in 802.1Q

- *xconCCMdefect*: Composition of cUNL and cMMG
- *errorCCMdefect*: Composition of cUNP and cUNM
- *FNG(Fault Notification Generator)*: Not specified in G.8051

(2) Loopback

Some ITU specific operations are not covered in P802.1Qcx.

- *Series*: Configuration of the LBM Tx period and collection of total number of LBM frames.

They should be supported with the augmentation approach suggested in P802.1Qcx.

- *Two-way Test*: Support of Test TLV (including the number of CRC/BER/OO frames) and running infinite number of times. It needs to be augmented in G.8052.1 as the part of performance monitoring functions.

Some IEEE specific parameters are not supported in ITU.

- *lbm-dest-mep-id:* G.8052.1 has only to exclude this operation because it is optional in 802.1Q.
- *Lbm-request-id:* Since they are read-only parameters, there is no impact if they would be pruned in G.8052.1.

(3) Linktrace

Some IEEE specific operations are not supported in ITU.

- *ltm-target-mep-id*: G.8052.1 has only to exclude this operation because it is optional in 802.1Q.
- *ltm-flags, ltm-transaction-id, ltm-egress-identifier, ltr-receive-order, ltr-forwarded, lter-terminal-mep, ltr-relay:* Since they are read-only parameters, there is no impact if they would be pruned in G.8052.1.

The result of the detailed comparison is shown in the Excel file:

CFM YANG vs MI.xlsx

ITU-T Q14/15 has been hosting regular virtual meetings since November 2018 on coordination of information/data modelling on topics such as Ethernet OAM. Experts of SDOs, including IEEE 802.1Qcx, have been invited to participate in these meetings.

ITU-T Q14/15 will continue to host coordination virtual meetings on the following dates. Modelling experts of the receiving SDOs of this liaison statement are invited to join.

Logistics details:

- Dates: 2019 September 9; November 11; 2020 January 13
- Time: 3:00 PM - 4:00 PM CET (Geneva Switzerland)
- URL: Series of virtual meetings at https://global.gotomeeting.com/join/897704405
- Access Code: 897-704-405
- Dial in: United States: +1 (312) 757-3117