Cut-Through Forwarding (CTF) in Bridges and Bridged Network – Continuing Technical Discussions

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Introduction

- The discussions on April 27 2022, based on contribution https://www.ieee802.org/3/ad_hoc/ngrates/public/calls/22_0427/jones_nea_01_220427.pdf provided some insights, including the following:
  - Better understanding of technical concerns on CTF/the proposed project P802.1DU.
  - More discussion appears needed for reaching a common understanding. However, today is the last scheduled NEA/Nendica joint ad hoc meeting on CTF.
- This slide set
  - Focus in near term discussion opportunities
  - Proposal for scheduling additional NEA/Nendica joint ad hoc meetings

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Recap

Discussion:
NEA & Nendica Joint Ad-Hocs – Potential Goals

- Analyze Standards
  Source: https://mentor.ieee.org/802.1/dcn/22/1-22-0010-04-ICne-proposals-for-ctf-ad-hoc-progress.pdf
  - list relevant standards
  - summarize requirements, from standards, for frame error checking by the entities
  - summarize understanding of service interfaces and the meaning and implications of atomicity in primitives
  - summarize any inconsistency of MAC and higher-layer standards with a CTF standard

- Identify reasonable constraints
  - Examples: Forwarding no earlier than after reception of 64 octets, no CTF on slow-to-fast link speed transitions, no CTF from/to end stations …
  - Document for consideration (and potential acceptance) by WGs during Stds development

- Compare options for standardization/allocate remaining issues
  Source: https://mentor.ieee.org/802.1/dcn/22/1-22-0010-04-ICne-proposals-for-ctf-ad-hoc-progress.pdf
  - P802.1DU alone
  - P802.1DU + IEEE WG 802.3 companion project

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Source: https://mentor.ieee.org/802.1/dcn/22/1-22-0017-02-ICne-cut-through-forwarding-ctf-in-bridges-and-bridged-network-status-update.pdf

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Proposal

- Three candidates proposed
  (Days and times selected based on https://doodle.com/meeting/participate/id/6dBx7BJa)

  1. 05-20@15:00-16:00 UTC
     (Friday during week 1 of the 802.3 May Interim, starting one hour earlier than today's meeting)

  2. 05-27@15:00-16:00 UTC
     (Friday during week 2 of the 802.3 May Interim, starting one hour earlier than today's meeting)

  3. 06-01@16:00-17:00 UTC **OR** 06-03@15:00-16:00 UTC
     (Wednesday after the 802.3 May interim, starting at the same time as today's meeting **OR**
     Friday after the 802.3 May interim, starting one hour earlier than today's meeting)

- <u>Note:</u> Meetings can be cancelled (e.g., lack of contributions), so scheduling more meetings right now does not imply that all of these will happen.

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Thank You for Your Attention!

Questions, Comments, Opinions, Ideas?

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