IEEE 802.3 NG-ECDC (Next Generation Enterprise / Campus / Data Center) Ethernet Closing Report

Proposed Industry Connection Activity

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Nov 09, 2015

IEEE 802 Plenary, Dallas, TX, USA

IEEE 802.3 NG-ECDC Ad Hoc Project Information

- John D'Ambrosia, IEEE 802.3 NG-ECDC Ad Hoc Chair

- Reflector Information – Currently using DIALOG Reflector. (Reflector will be set up when activity approved)

- Home Page - http://www.ieee802.org/3/ad_hoc/ngrates/index.html

- Draft ICAID – http://www.ieee802.org/3/ad_hoc/ngrates/ICAID_a_15_1110.pdf

Activities This Week

- Held consensus meeting Tuesday evening

- 116 Attendees

- Consensus Presentation - http://www.ieee802.org/3/ad_hoc/ngrates/public/15_11/dambrosia_nge_01_1115.pdf

- Proposed ICAID - http://www.ieee802.org/3/ad_hoc/ngrates/ICAID_a_15_1110.pdf

  - Updated participants list - total 101

➢ **3.1 Motivation & Goal**

The growing diversity of applications within enterprise, campus, and data center networks requires new Ethernet standards to be developed at a rapid pace. This is evident by recent standardization activities related to 2.5Gb/s, 5Gb/s and 25 Gb/s Ethernet, as well as subsequent conversations related on introducing new Ethernet solutions at these rates. Furthermore, with recent decisions in the IEEE P802.3bs 400GbE Task Force on 50Gb/s and 100Gb/s electrical and optical signaling, there is growing discussion of how to leverage these new signaling technologies for new Ethernet projects.

The goal of this activity is to assess emerging requirements for enterprise, campus, and data center networks, identify gaps not currently addressed by IEEE 802.3 standards, and facilitate building industry consensus towards proposals to initiate new standards development efforts.

➢ **3.4 Potential Markets Served**

Ethernet is employed in a number of market applications, such as Enterprise, Campus, and Data Center, which are exhibiting a growing diversity in terms of the Ethernet rates needed. Solutions spanning these different application spaces and rates will be best addressed by leveraging common technology investments. This activity will enable industry consensus building on the market/application requirements and identify gaps not currently addressed by IEEE 802.3 standards of new solutions, which will help to foster industry interest in new Ethernet study groups.

➢ **5. Proposed Deliverables**

There will be multiple types of deliverables. The first type of deliverable will be the records of the meetings, including minutes and supporting presentations. The second type of output may be the creation of one or more consensus presentations that are used as the basis for one or more Call-for-Interests to study new areas. A third possible type of deliverable may be the creation, as appropriate, of white papers documenting the findings of the IC activity.

➢ **8.1 Stakeholder Communities**

Stakeholders identified to date includes but are not limited to: users and producers of systems and components for servers, network storage, networking systems, data centers, high performance computing, and telecommunications carriers.

802.3 WG Motion

- Move that IEEE 802.3 WG endorse the NG-ECDC ICAID (http://www.ieee802.org/3/ad_hoc/ngrates/ICAID_a_15_1110.pdf) and submit to the IEEE 802 EC for its endorsement

- Moved – John D'Ambrosia

- Second – Mark Nowell

- >50%

- Results -

Going Forward

- Friday (802 EC) – if approved by 802.3 WG, request endorsement from 802 EC

  ➢ Final approval (pending) – IEEE-SA Standards Board Meeting (Dec 3 – 5)

  ➢ If approved

     ➢ Reflector will be set up

     ➢ Arrangements will be made for 1st Mtg in Jan 2016 Interim Meeting

Thank you!