NG-EPON

Proposed Industry Connections Activity
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There is growing interest in the question: What’s next for Ethernet Passive Optical Networks?

Several important events have recently occurred:

- IEEE Std 802.3-2012 1G/10G and 10G/10G EPON (nee IEEE Std 802.3av-2009) mass deployments are beginning
- IEEE Std 1904.1 Service Interoperability for EPON approved as an IEEE Standard on 14-June-2013
- IEEE P802.3bk Extended EPON completed
- IEEE P802.3bn EPoC PHY well underway

However, there is broad agreement that it is too early to start a study group for an NG-EPON standards project.

- There are too many important areas to be investigated first

An ICCom project will allow us to perform these investigations under the auspices of the IEEE.
NG-EPON ICCOM project goals

- Create a venue for interested individuals to discuss the requirements and technical options for the next generation of Ethernet Passive Optical Networks
- Operate under and report to the IEEE 802.3 Ethernet Working Group
- Explore operators’ requirements
- Explore market potential
- Explore technological and economic tradeoffs.
- Explore the state of the art of optical technology for subscriber access networks
- Produce a report of the group’s findings
Several of us have begun work on an “Industry Connections Activity Initiation Document” for NG-EPON

- The IEEE 802.3 Ethernet WG chair posted a draft to the WG reflector some weeks ago
  - [http://www.ieee802.org/3/cfi/request_1113_1.html](http://www.ieee802.org/3/cfi/request_1113_1.html)
- We currently have 29 individuals from 18 entities who have asked to be named as “initial participants”

We would like to hold a brief ad hoc meeting this week to review the contents of the ICAID with any interested parties

We plan to seek approval of the ICAID from the IEEE 802.3 Ethernet WG and the IEEE 802 EC at this plenary
Activity in York

- Met for 1 hour
  - 25 individuals from 20 different entities
- Reviewed the NG-EPON ICAID (Industry Connections Activity Initiation Document)
- Heard two presentations, one on the type of information we are seeking from operators, and one on technical areas for study.