

NG-EPON

Proposed Industry Connections Activity
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Why an ICCOM project?

- ▶ 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

Current status

- ▶ 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
 - ▶ 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.