## **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 nearly completed
    - ▶ IEEE P802.3bn EPoC PHY well underway
- However, there is broad agreement that it is too early to start a <u>study group</u> 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 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/private/email/msg01315.html
- We currently have 21 individuals from 13 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 the November plenary

### **Activity this week**

- Met for 45 minutes Tuesday afternoon
  - 25 individuals from 20 different entities
- Reviewed the NG-EPON ICAID (Industry Connections Activity Initiation Document)
  - Three small changes from the version posted before the meeting
    - "market potential" added to the set of areas to explore in 3.1
    - ▶ IEEE 1904.1 SIEPON standard status updated in 3.2
    - Simplified the last sentence of 8.1 describing stakeholders.
- The ICAID now lists 25 individuals from 15 different entities as initial participants in the activity

#### Plans for the future

- Would like the opportunity to hold another brief ad hoc meeting in York to finish work on the ICAID
- Will make sure that the finished ICAID is submitted to the IEEE 802.3 WG chair > 35 days before the November plenary session
- Plan to seek approval of the ICAID from 802.3 and the 802 EC at the November plenary session