

# **NG-EPON**

## **IEEE 802.3 WG opening report**

Industry Connections Activity

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# Reflector and Web

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- ▶ To subscribe to the NG-EPON ad hoc committee reflector, send an email to:  
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- ▶ NG-EPON ad hoc committee web page URL:  
[http://www.ieee802.org/3/ad\\_hoc/ngepon/index.html](http://www.ieee802.org/3/ad_hoc/ngepon/index.html)

# 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

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- ▶ First meeting held January 21<sup>st</sup> in Indian Wells, CA
  - ▶ 24 attendees
  - ▶ 8 presentations
- ▶ Agreed to solicit contributions on the following topics
  - ▶ Operator requirements
  - ▶ Optical tunable transceiver technology
  - ▶ Outline of Report
  - ▶ FSAN & ITU-T activities
  - ▶ Fiber characteristics in the ODN
  - ▶ Energy Efficiency
  - ▶ OFDM in optical domain

# Goals for this meeting

- ▶ Meet all day on Tuesday
- ▶ Traders Hotel Room 5, Basement West
- ▶ Hear ten presentations

## Architecture and requirements

1. Requirements & Architecture Considerations – Eugene Dai – Cox Communications
2. Considerations of ODN, Coexistence and Transmission Speed - Yukihiro Fujimoto – NTT
3. Coexistence scenarios and wavelength plan - Liquan Yuan – ZTE
4. FSAN and ITU-T activities on NG-PON2 – Duane Remein - Huawei

## Optics and modulation

5. Tunable Lasers: Technologies, Cost, and Applications – Wei Li - Finisar
6. Tunable optics technology and relative cost trends - Jinglei – Huawei
7. OFDM Technology in Optical Access Network - Minghui Tao - Huawei

## Outline and contents of the report

8. Proposed skeleton of NG-EPON whitepaper - Liquan Yuan – ZTE
9. Proposed Outline of the report from the activity - Wei Lin – Huawei
10. Draft of the report – Marek Hajduczenia & Kevin Noll