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# **IEEE P802 Link Security Executive Committee Study Group**

March Meeting Summary

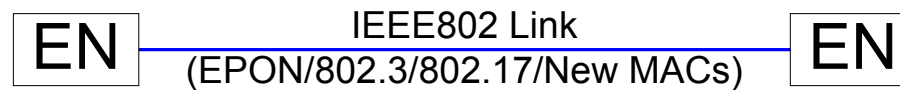
Dallas, March 10-12, 2003

# Business Scenarios

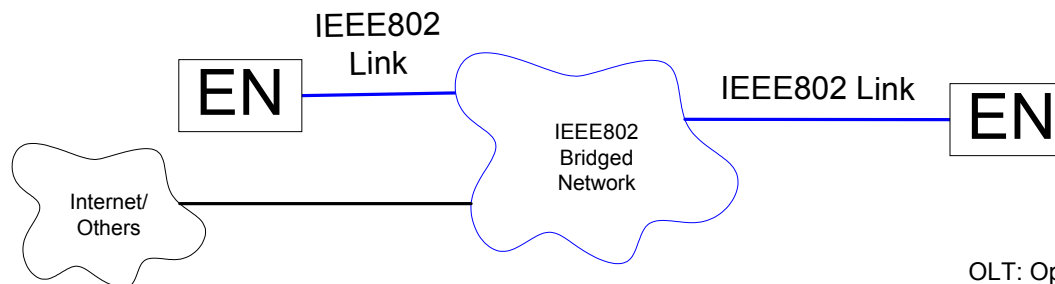
B1) EPON link scenario - Required (imminent need)



B2) Extension to other IEEE802 links/MACs - Required



B3) Layer 2 Network - Required



OLT: Optical Line Terminal (CO side)  
ONU: Optical Network Unit (Client side)  
EN: End Network Point  
In blue: Scope of secure communication

# Objectives

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Select and/or specify:

- **A unified security architecture (high priority)**
- **A bridge-transparent secure data exchange mechanism (high priority)**
- **An authentication protocol (high priority)**
- **A key management protocol (high priority)**
- **A link security mechanism for 802.3 (including ptp, shared media, and PON) networks if additional MAC-specific functionality is needed (high priority)**
- **A discovery protocol (low priority)**

# **Business Level Requirements**

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- 1. Prevent theft of service**
- 2. Separate customers from each other**
- 3. Keep billing records**
- 4. Maintain consistency between media (unified security across media, ability to securely bridge across media, ability to handoff security associations)**
- 5. Specify a complete solution (by either selecting existing standards or defining new specifications)**

# Study Group Charter

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- **Evaluate link security architecture issues with the objective of identifying the broader scope that can be common to all MAC solutions**
- **Develop PAR(s) and 5 Criteria for a new standard for a security architecture and link security mechanisms that can be applied to IEEE 802 networks, with early emphasis on 802.3 networks**
- **Make a recommendation on the placement of the approved PAR(s) within a new or existing IEEE 802 working groups**

**SG Vote: Favor 32    Against 0    Abstain 4**

# Next Interim Meeting

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- **Ottawa, Canada, June 2-6, 2003**
- **Co-located with 802.1, 802.3 10GBASE-CX4 SG, 802.3 10GBASE-T SG**