

10Gbps PHY for EPON

CFI Summary & Motion

CFI Overview

We heard the following presenters:

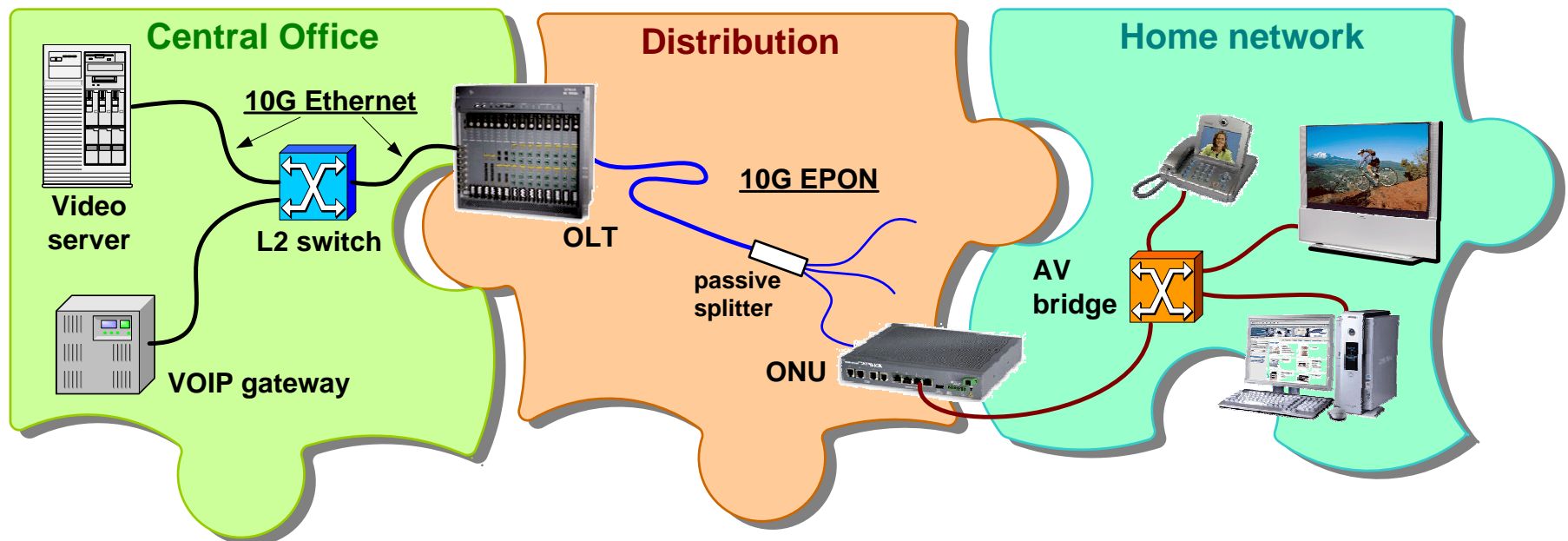
- Glen Kramer/Teknovus – Introduction
- Keiji Tanaka/KDDI – Market Potential: Carrier's perspective
- Ketan Gadkari/Alloptic – Market Potential: Services, Applications, Markets
- Howard Frazier/Broadcom – 10G EPON Technical Feasibility
- Bin Yeong Yoon/ETRI – Summary of a lab demo for 10G down/1G up
- Keiji Tanaka/KDDI – Summary of a lab demo for 10G down/10G up
- Eric Lynskey/UNH IOL – Interoperability and Compliance Issues and Solutions for 10G EPON
- Guy Trotter/Agilent – 10G EPON Testing Issues and Solutions

Summary

- Access bandwidth of ~10 Gbps is necessary for ...
 - Advanced video services
 - Gigabit-capable home networks
 - 4th generation mobile communication with bandwidth per access point of ~1Gbps
 - MDU market

Complements Other IEEE 802 Task Forces

- 10G EPON complements activities of other IEEE 802 Task Forces
 - **802.3ae, 802.3ak, 802.3an:** 10G EPON provides line rate matching 10G Ethernet interconnects in a central office;
 - **802.1 AV Bridges TG (Residential Ethernet):** 10G EPON will deliver all video in digital format, consistent with the main premise of the 802.1 AV Bridges TG.



Goal: "10x" EPON

- Proposed scope of study:

10 Gbps PHY for EPON

- 10 Gbps downstream / 10 Gbps upstream
 - 10 Gbps downstream / 1 Gbps upstream
 - one or both
- A very focused project
 - No changes to other EPON sublayers
 - MPCP, OAM ...

Straw Polls

163 Number of people in the room

58 Individuals would attend and contribute to the **10 Gbps PHY for EPON Study Group**

31 Companies Support the Formation of the **10 Gbps PHY for EPON Study Group**

Ad Hoc Vote

- Request that IEEE 802.3 WG form a study group to develop a PAR & 5 Criteria for 10 Gbps PHY for EPON

– Y: 84

– N: 10

– A: 23

Motion

- Form an IEEE 802.3 Study Group to develop a Project Authorization Request (PAR) and 5 Criteria for 10 Gbps PHY for EPON.
 - M: Wael Diab
 - S: Tom Mathey

– Y: 51

– N: 2

– A: 9