



## ■ ITU G-PON Pavilion @ NXTcomm 2007

**Final Report – July 9, 2007 (ITU-T/SG15/Q2/WD-GR05)**



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## ■ ■ ■ Outline

- Event Summary
- Participants, Supporters, Special Thanks
- Interoperability Demonstration
- Lessons Learned
- What's next? – ITU G-PON Pavilion @ NXTcomm



# NXTcomm G-PON Pavilion

## *Introduction*

- Public G-PON (G.984) Interoperability Demonstration @ NXTcomm 2006
  - June 18-21, 2007
  - McCormick Place, Chicago USA
  - [www.nxtcommshow.com](http://www.nxtcommshow.com)
- 12 Participating G-PON vendors, one ODN vendor
- 5 Supporting Operators
- 1 Supporting (demo) Partner

# NXTcomm G-PON Pavilion *Companies*

- Pavilion Members
  1. Alphion
  2. Cambridge Industries Group
  3. Corning
  4. Hitachi, Ltd.
  5. Huawei
  6. Iamba
  7. LS Cable Ltd.
  8. PMC-Sierra
  9. TXP Corporation
  10. Tellabs
  11. Terawave Communications
  12. XAVi Technologies
  13. ZTE Corporation
- Supporting Partners
  - IP Video: Motorola



# NXTcomm G-PON Pavilion

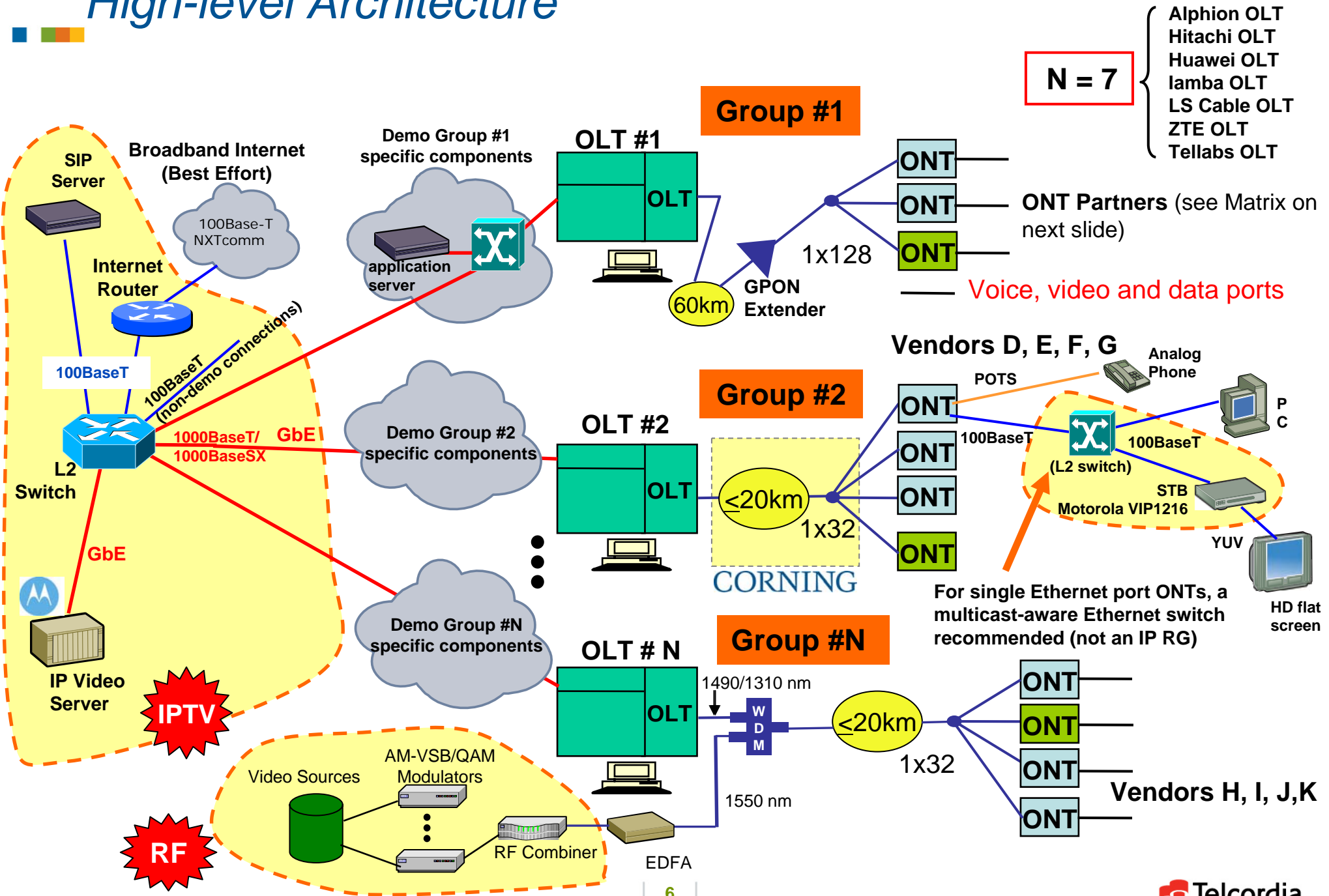
## *Special Thanks to ...*

- ITU (Pavilion sponsor)
  - Greg Jones, Paolo Rosa, Toby Johnson Telecommunication Standardization Bureau (TSB)
- A.J. Janosko, *Executive Director NXTcomm Show*
- Reuven Segev, *lambda Networks*
  - Supporting the VoIP (SIP Server) needs of the Pavilion
- Marty Stein, *Motorola*
  - IP Multicast and Video Overlay Demo support
- Operator Display Area Supporters
  - Julie Lorentzen, *AT&T*
  - Dave Faulkner, *British Telecom*
  - Bruno Capele, Fabrice Bourgart, *France Telecom*
  - Michael Brusca, *Verizon*

# G-PON Interoperability Showcase Demo

the elements of success

## High-level Architecture



# Interoperability Demonstration Matrix

	OLT	ONT							
		CIG	Huawei	Iambda	PMC-Sierra	Terawave	TXP	XAVi	ZTE
1	Alphion	X						X	
2	Hitachi			X	X		X		
3	Huawei		X	X	X				
4	Iambda		X	X	X			X	X
5	LS Cable	X			X			X	
6	Tellabs			X			X	X	
7	ZTE	X		X		X	X		X

Lack of a "X" means pairing not demonstrated, not lack of interoperability

# ■ ■ ■ Lessons Learned – *Highlights*

- **Planning** – Need to re-emphasis with OLT Leads the importance of following through on their commitments to fully participate in the Interoperability Demonstration (i.e., adequate pre-event testing with demo partners, adequate at-show support).
- **Pre-Event Testing:**
  - Critical to an effective G-PON Interoperability demonstration. Coordinated by each OLT Lead, high-level monitoring by Telcordia (Pavilion Coordinator).
  - 4-day period leading up to event was adequate for staging and demo equipment integration testing, although delays in receiving video demo equipment was problematic
  - Need to improve early access to IP video equipment and support
- **IP/Ethernet Layer Design and Planning**
  - Fell short of goal of including a carrier-class datacom infrastructure (“behind OLTs”) in demo
    - No commercial datacom partner obtained to provide this infrastructure
    - No tangible impact , however, on the success of Pavilion
  - For future events, this element of the demo infrastructure should be assumed to be the responsibility of the Pavilion Coordinator (i.e., can’t count on a 3<sup>rd</sup> party or a Pavilion member providing this necessary infrastructure)

- ■ ■ Public G-PON Showcases – *What's Next?*
  - **ITU is considering possible G-PON Pavilion events for 2008**
    - Information on 2008 event expected in early September timeframe
    - More information will be provided on future audio conferences and by e-mail exploder (tsg15q2@itu.int)

# Business Entities and Typical Relationships

