



Global Service Provider Survey

2018 10G PON Deployment Strategies & Vendor Leadership

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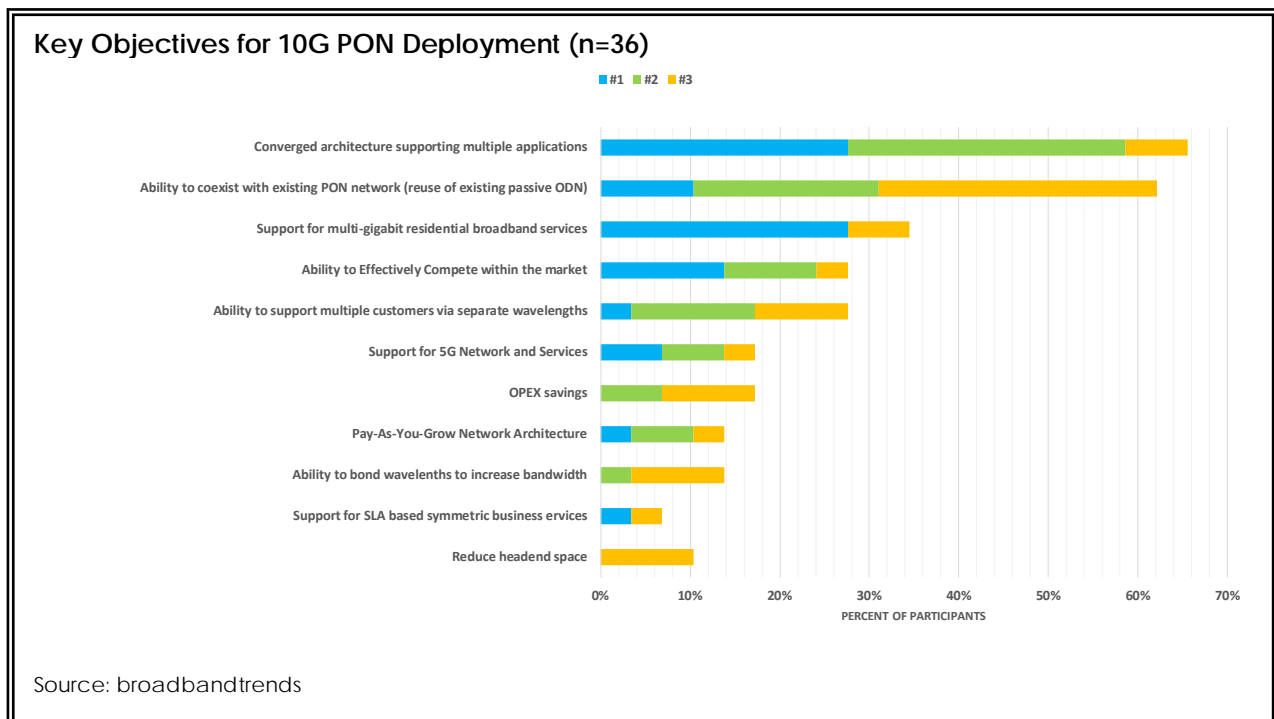
Report Overview

The demand for bandwidth continues to exceed all expectations, as the number of devices and the applications they support, continue to multiple. As such, the ability to predict future bandwidth consumption requirements remains one of the greatest challenges facing broadband operators. To overcome this challenge, operators are looking towards network migration strategies that will ensure their customers have sufficient bandwidth to support both current and future applications. Although a variety of ultra-broadband solutions are available across both copper and fiber-based networks; operators are rapidly transitioning towards an all fiber network.

While the deployment of Fiber-to-the-Home has been the choice of forward-thinking operators for nearly 20 years – the growth in streaming video and smart applications (car, home, health, city, etc.) are causing more operators than ever before, to embrace these technologies for their networks. In addition, the bandwidth, latency and the densification requirements of the 5G network, are sending a clear message to operators that the time is now for FTTH.

Key characteristics that are attracting operators to these next-generation PON solutions include the ability to offer a converged network for both residential and business services, along with the ability to re-use many portion of their existing optical distribution network (ODN). However, the cost associated with 10G and the ROI timeframes remain key concerns.

However, unlike previous PON networks – which primarily served residential customers; the variety of applications that can be supported with 10G PON along with new market segments could help ease cost concerns for operators. As such, many operators are initially targeting the high-value business/enterprise segments for their early deployments to achieve a faster ROI. Finally, a number of vendors are offering flexible optics that allows a 10G PON OLT to utilize multiple types of optical transceivers to achieve best cost alignment and ease cost concerns. Finally, vendors are also introducing innovative solutions to over-come the “interoperability” concern, helping to accelerate time to market for new product introduction.



Broadbandtrends' Global Service Provider 10G PON Deployment Strategies survey analyzes the results from interviews with 36 incumbent and competitive operators in all major regions, about their plans and deployment strategies for 10G PON. The report provides a global overview of the results as well as commentary on any notable regional differences found in the results.

Key Questions Answered in this study includes the following:

- *What are operator timelines for the deployment of 10G PON?*
- *Which 10G PON technology will be deployed and which market segments will it serve?*
- *What are the key drivers for deployment of 10G PON technology?*
- *What are the top challenges/concerns related to the deployment of 10G PON technology?*
- *Which services will be deployed via 10G PON?*
- *What is the timeframe for residential 10G PON deployment?*
- *What multi-gigabit speeds will operators offer in the residential market?*
- *Which 10G PON migration path will operators take?*
- *What is their timeframe to migrate to NG-PON2?*
- *How important is Nx10G Wavelengths for NG-PON2*
- *When do operators expect to need 25G PON solutions?*
- *Which vendors are operators most familiar with for 10G PON Solutions?*
- *Which vendors are perceived as leaders for 10G PON Product Performance, 10G PON Deployment Experience, 10G PON Product Roadmap, 10G PON Pricing, and 10G PON Service & Support?*

Vendors evaluated included: ADTRAN, Calix, DASAN/Zhone Technologies, Fiberhome, Huawei, Iskratel, KEYMILE, Nokia, ZTE, and ZyXEL.

This Report is 25-pages in length with (19) Figures and (1) Tables is available for purchase for **\$2495(USD)**. To order this report, please contact us at 540.725.9774 or via email at <mailto:sales@broadbandtrends.com>. Additionally this report may be purchased online at www.broadbandtrends.com/reports

Table of Contents

- ▶ Executive Summary
- ▶ Key Findings
- ▶ Introduction
 - 10G PON Overview
- ▶ Methodology and Demographics Overview
 - Regional Distribution
 - Level of Influence
 - Operator Type
- ▶ Survey Results- Deployment Strategies
 - Timing of Deployment
 - Technology Choice & Market Segment
 - Key Drivers for 10G PON Deployment
 - Converged Architecture
 - Reuse of Existing ODN
 - Key Challenges/Concerns to 10G PON Deployment
 - Services Deployed via 10G PON Networks
 - Residential 10G PON Deployment Timeframe
 - Multi-Gigabit Speed Offering to Residential Market
 - 10G PON Migration Path
 - Timeframe for NG-PON migration
 - Importance of Nx10G Wavelengths for NG-PON2
 - 25G PON Timeframe
- ▶ Survey Results – Vendor Leadership
 - 10G PON Vendor Familiarity
 - Top 10G PON Vendors for Selected Criteria
- ▶ Conclusions

List of Figures & Tables

- Figure 1: PON Evolution Path
- Figure 2: Regional Distribution of Survey Participants
- Figure 3: Level of Influence of Survey Participants
- Figure 4: Operator Type
- Figure 5: Timing of 10G PON Deployment
- Figure 6: 10G PON Technology Choice by Market Segment
- Figure 7: Key Drivers for 10G PON Deployment
- Figure 8: 10G PON Converge Network Architecture Example
- Figure 9: Migration to 10G PON Example
- Figure 10: Key Challenges/Concerns for 10G PON Deployment
- Figure 11: Services Deployed via 10G PON
- Figure 12: Residential 10G PON Deployment Timeframe
- Figure 13: Multi-Gigabit Speed Offerings to Residential Market
- Figure 14: 10G PON Planned Migration Path
- Figure 15: NG-PON2 Migration Timeframe
- Figure 16: Importance of Nx10G Wavelengths
- Figure 17: 25G PON Timeframe
- Figure 18: 10G PON Vendor Familiarity
- Figure 19: Top 10G PON Vendors for All Criteria

Table 1: PON Technology Evolution

About Broadbandtrends LLC

Broadbandtrends LLC is an independent market analysis and consulting firm specializing in the coverage of service provider transformation activity across the network, business and services segments. In addition, Broadbandtrends offers unparalleled coverage on the growing impact of broadband on the digital economy.

Broadband specific coverage is focused on the ubiquitous connectivity of ultra-broadband (both fixed and mobile) infrastructure, services and regulation; Connected Home, Multiscreen/OTT video, Smart Cities and IoT. Our goal is to provide unbiased, accurate and dependable research that will help drive tangible results for our clients.

For more information about our services and experience, please visit www.broadbandtrends.com.

About the Author

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Teresa Mastrangelo, Founder, brings 31 years of telecommunications experience to Broadbandtrends LLC. She is regarded as one of the leading analysts covering fixed and mobile broadband infrastructure and services along with network transformation strategies.

In her role, Teresa works in an advisory position to equipment manufacturers, service providers, financial analysts and venture capital firms to identify emerging trends, new market opportunities and advise on product positioning, market development, and business plans. Her custom work includes Competitive Assessments and Market Entry Strategies, Product Portfolio Assessments, Market Validation Studies, Webinars and White Papers.

She has been able to successfully leverage her extensive product management, product marketing and strategic planning background to bring an unmatched level of expertise to her market research and analysis.

She is an invited speaker at industry events around the world, including the Broadband World Forum in Europe and Asia, and is frequently quoted in trade and business publications such as Washington Post, San Jose Mercury, BusinessWeek, Smart Money, New York Times, Wall Street Journal, Network World, and Lightwave. In addition, she contributes blogs and articles for many publications and sites.

Prior to founding Broadbandtrends LLC, Teresa worked for RHK as the Program Director for RHK's Broadband Network Strategies program, where she had responsibility for the development of global market research and analysis of broadband infrastructure and services; as well as circuit to packet migration and VoIP. Prior to RHK, Teresa held senior level product marketing and product management with Cisco Systems, Advanced Fibre Communications (now part of Tellabs) and NEC America, and Appalachian Power as a communications engineer.

Teresa was awarded her BS in Electrical Engineering from Virginia Polytechnic Institute in 1987. Post graduate work includes The Management Institute at Roanoke College as well as executive programs at Penn State University.