

Gigabit Passive Optical Network

Rika Susanti

Gigabit-capable Passive Optical Networks D. Hood, 2012-03-13 Gigabit-capable passive optical networks (G-PON) have a large and increasing base of support among telecommunications operators around the world. Written by two of the experts in the field, this book explains G-PON in detail, both the original 2.5 Gb/s version and XG-PON, the 10 Gb/s second generation. The foundation established by this book is also invaluable in understanding NG2 (next-generation 2) G-PON, which is built upon a number of XG-PON systems on parallel wavelengths. As well as a history that clarifies the reasons for many of the existing features, the book looks at current and evolving technology and discusses some of the alternatives for future access networks.

GPON Gigabit Passive Optical Network - Poster ,2012

SNL Evaluation of Gigabit Passive Optical Networks (GPON). ,2009 Gigabit Passive Optical Networks (GPON) is a networking technology which offers the potential to provide significant cost savings to Sandia National Laboratories in the area of network operations. However, a large scale GPON deployment requires a significant investment in equipment and infrastructure. Before a large scale GPON system was acquired and built, a small GPON system manufactured by Motorola was acquired and tested. The testing performed was to determine the suitability of GPON for use at SNL. This report documents that testing. This report presents test results of GPON system consisting of Motorola and Juniper equipment. The GPON system was tested in areas of data throughput, video conferencing, VOIP, security, and operations and management. The GPON system performed well in almost all areas. GPON will not meet the needs of the low percentage of users requiring a true 1-10 Gbps network connection. GPON will also most likely not meet the need of some servers requiring dedicated throughput of 1-10 Gbps. Because of that, there will be some legacy network connections that must remain. If these legacy network connections can not be reduced to a bare minimum and possibly consolidated to a few locations, any cost savings gained by switching to GPON will be negated by maintaining two networks. A contract has been recently awarded for new GPON equipment with larger buffers. This equipment should improve performance and further reduce the need for legacy network connections. Because GPON has fewer components than a typical hierarchical network, it should be easier to manage. For the system tested, the management was performed by using the AXSVison client. Access to the client must be tightly controlled, because if client/server communications are compromised, security will be an issue. As with any network,

the reliability of individual components will determine overall system reliability. There were no failures with the routers, OLT, or Sun Workstation Management platform. There were however four ONTs that failed. Because of the small sample size of 64, and the fact that some of the ONTs were used units, no conclusions can be made. However, ONT reliability is an area of concern. Access to the fiber plant that GPON requires must be tightly controlled and all changes documented. The undocumented changes that were performed in the GPON test lab demonstrated the need for tight control and documentation. In summary, GPON should be able to meet the needs of most network users at Sandia National Laboratories. Because it supports voice, video, and data, it positions Sandia National Laboratories to deploy these services to the desktop. For the majority of corporate network users at Sandia National Laboratories GPON should be a suitable replacement for the legacy network.

Passive Optical Networks Cedric F. Lam, 2011-10-10 Passive optical network (PON) technologies have become an important broadband access technology as a result of the growing demand for bandwidth-hungry video-on-demand applications. Written by the leading researchers and industry experts in the field, Passive Optical Networks provides coherent coverage of networking technologies, fiber optic transmission technologies, as well as the electronics involved in PON system development. Features: - An in-depth overview of PON technologies and the potential applications that they enable - Comprehensive review of all major PON standards and architecture evolutions, as well as their pros and cons - Balanced coverage of recent research findings with economic and engineering considerations - Presents system issues of protocols, performance, management and protection - Extensive references to standards and research materials for further studies This book provides an authoritative overview of PON technologies and system requirements and is ideal for engineers and managers in industry, university researchers, and graduate students. - Balances treatment of the optical technologies with systems issues such as protocols, performance, management and protection - Covers latest developments in WDM-PONS, protection switching, dynamic bandwidth allocation - Practical coverage with a chapter on PON applications and deployment - Case studies on implementing PONs

Gigabit Passive Optical Network Design Implementation Performance and Lessons Learned, 2014

Next-Generation FTTH Passive Optical Networks Josep Prat, 2008-07-16 Fibre-to-the-Home networks constitute a fundamental telecom segment with the required potential to match the huge capacity of transport networks with the new user communication demands. Huge investments in access network infrastructure are expected for the next decade, with many initiatives already launched around the globe recently, driven by the new broadband service demands and the necessity by operators to deploy a future-proof infrastructure in the field. Dense FTTH Passive Optical Networks (PONs) is a cost-efficient way to build fibre access, and international standards (G/E-PON) have been already launched, leading to new set of telecom products for mass deployment. However, these systems only make use of less than 1% of the optical bandwidth;

thus, relevant research is taking place to maximize the capacity of these systems, with the latest opto-electronic technologies, demonstrating that the huge bandwidth available through the fibre access can be exploited in a cost-efficient and reliable manner. Next-Generation FTTH Passive Optical Networks gathers and analyzes the most relevant techniques developed recently on technologies for the next generation FTTH networks, trying to answer the question: what's after G/E-PONs?

Triple Play Using Gigabit Passive Optical Network (GPON) at Sandia Natinal Laboratories ,2015

Radio Over Fiber on Gigabit Passive Optical Network Architecture Rika Susanti,2010

Ethernet passive optical networks performance optimization. An extensive comparative study for DBA algorithms

Mohamed Maher,2021-09-01 Master's Thesis from the year 2021 in the subject Engineering - Communication Technology, grade: 3.3, , course: Optical Fibers, language: English, abstract: This thesis provides a detailed comparison and a classification study for a large number of DBA algorithms with respect to time delay and throughput as performance indicators. The study shows that IPACT WITH CBR, UDBA, IPACT with two stages and CPBA are the optimum DBA algorithms regarding both time delay and throughput at highly loaded scenarios. Dynamic bandwidth allocation in Ethernet passive optical networks (EPON) presents a key issue for providing efficient and fair utilization of the EPON upstream bandwidth while supporting the quality of service QoS requirements of different traffic classes. Rare literatures have addressed a qualitative and quantitative comparison of large numbers of DBA algorithms based on their performance indicators. These algorithms are enrolled in a parametric optimization process targeting performance enhancement at highly loaded scenarios this increasing upstream line rates, changing distance between the OLT (Optical Line Terminal) and ONU (Optical Network Unit), increasing size of an Ethernet packet and changing maximum cycle time to 1 ms and altering guard time value). This process reduces time delay around 3.5% for IPACT WITH CBR, 1.725% for UDBA, 1.167% for IPACT with two stages and (1.167% for CPBA. Also, the optimization increases the throughput by 1.3% for IPACT WITH CBR, 1.795% in UDBA, 2.5% for IPACT with two stages and 1.684% for CPBA.

Towards Digital Optical Networks Ioannis Tomkos,Maria Spyropoulou,Karin Ennser,Martin Köhn,Branko

Mikac,2009-05-05 COST - the acronym for European COoperation in Science and Technology - is the oldest and widest European intergovernmental network for cooperation in - search. Established by the Ministerial Conference in November 1971, COST is presently used by the scientific communities of 35 European countries to coop- ate in common research projects supported by national funds. The funds provided by COST - less than 1% of the total value of the projects - support the COST cooperation networks (COST Actions) through which, with € 30 million per year, more than 30,000 European scientists are involved in - search having a total value which exceeds € 2 billion per year. This is the financial worth of the European added value which COST achieves. A "bottom up approach" (the initiative of launching a COST Action comes from

the European scientists themselves), “à la carte participation” (only countries interested in the Action participate), “equality of access” (participation is open also to the scientific communities of countries not belonging to the European - ion) and “flexible structure” (easy implementation and light management of the research initiatives) are the main characteristics of COST.

Annual Review of Communications: Volume 59 International Engineering Consortium, 2007 An indispensable reference publication for telecommunication and information-industry professionals. Each year, the IEC brings together into one unique resource the most current thinking and practical experience of industry leaders around the world on a variety of topics facing their areas of specialization. This 700+ page reference tool is a must for executives, managers, engineers, analysts, and educators in all sectors of today's changing information industry.

Media Access Control and Resource Allocation Nirwan Ansari, Jingjing Zhang, 2013-01-17 This book focuses on various Passive optical networks (PONs) types, including currently deployed Ethernet PON (EPON) and Gigabit PON (GPON) as well as next generation WDM PON and OFDM PON. Also this book examines the integrated optical and wireless access networks. Concentrating on two issues in these networks: media access control (MAC) and resource allocation. These two problems can greatly affect performances of PONs such as network resource utilization and QoS of end users. Finally this book will discuss various solutions to address the MAC and resource allocation issues in various PON networks.

Fiber in the Loop ,

Digital Transmission Systems: From PCM to OTN Ayman Elmassarawy, Digital transmission systems are the backbone of modern communication networks, enabling the exchange of information across various media, such as copper wires, optical fibers, radio waves, and satellites. These systems use digital signals to encode, transmit, and decode data, such as voice, video, text, and images. Digital transmission systems have many advantages over analog systems, such as higher capacity, better quality, lower cost, and more flexibility. However, designing and implementing digital transmission systems is not a trivial task. It requires a solid understanding of the fundamental principles, techniques, and standards that govern the operation and performance of these systems. It also requires a familiarity with the various technologies and components that are used to realize these systems, such as modulation, multiplexing, coding, switching, amplification, and synchronization. This book aims to provide a comprehensive and up-to-date introduction to the fundamentals of digital transmission systems, covering both theoretical and practical aspects. It is intended for students, engineers, and researchers who want to learn the basics of digital transmission systems, as well as for professionals who want to refresh or update their knowledge in this field. The book is also important for communication engineers and operators who are involved in the planning, design, installation, operation, maintenance, and troubleshooting of digital transmission systems and networks. The book covers the most common and widely used standards and technologies in digital transmission, such as PCM, PDH, SDH, OTN, WDM,

ADSL, GPON, and radio waves. The book also provides the latest information on the evolution and trends of digital transmission, such as liquid OTN, fiber-optic transmission systems, and digital transmission networks. The book helps communication engineers and operators to understand the principles, advantages, limitations, and challenges of digital transmission systems and to apply them to their specific needs and scenarios. The book is organized into eight chapters, each covering a major topic in digital transmission systems. The chapters are as follows: Chapter 1 introduces the importance, motivations, and overview of digital transmission systems, and provides a conclusion and some questions for review. Chapter 2 explains the fundamentals of pulse code modulation (PCM), which is the most common technique for converting analog signals into digital signals. It also describes the structure and signaling of the 2 Mbit/s (E1) frame, which is the basic unit of transmission in many digital systems. Chapter 3 discusses the plesiochronous digital hierarchy (PDH), which is a legacy standard for multiplexing and transporting digital signals over copper wires or optical fibers. It also covers the frame structure, synchronization, signaling, error detection and correction, network architecture, and limitations of PDH. Chapter 4 introduces the synchronous digital hierarchy (SDH), which is a more advanced and widely adopted standard for multiplexing and transporting digital signals over optical fibers. It also covers the general and specific frame structures, multiplexing hierarchy, network and management, network protections, and synchronization of SDH. Chapter 5 presents optical fiber technology, which is the main medium for transmitting digital signals over long distances and at high speeds. It also covers the technical overview, physics of light, and design and protection of fiber optic cables. Chapter 6 explores the wavelength division multiplexing (WDM) technology, which is a technique for increasing the capacity and efficiency of optical fiber networks by using multiple wavelengths of light. It also covers the WDM and optical fiber structure, active and passive optical components, optical amplification, noise calculation, fiber-optic transmission systems, and fiber-optic networks. Chapter 7 describes the optical transport network (OTN), which is a standard for multiplexing and transporting various types of digital signals over optical fibers using a common format. It also covers the OTN fundamentals, multiplexing overview, frame structure, evolution to liquid OTN, and important topics in OTN. Chapter 8 reviews the ADSL modems, GPON fundamentals, and radio waves propagations, which are some of the technologies and phenomena that are related to digital transmission systems. The book also includes two appendices that provide some supplementary information on BIP, SDH Synchronization, OTN protection and more. The book assumes that the reader has some basic knowledge of mathematics, physics, and electronics, as well as some familiarity with communication systems and networks. The book provides clear explanations, examples, figures, tables, and equations to illustrate the concepts and methods of digital transmission systems. The book also provides questions at the end of each chapter to test the reader's understanding and to stimulate further exploration. The book is written by who is a Doctor of Electrical Engineering, Egypt. Ayman Elmassarawy has a PhD in communication systems and has over 20 years of research and practical experience in the field of digital transmission

systems in the field of digital transmission systems. The book is a valuable resource for anyone who wants to learn the fundamentals of digital transmission systems and to gain a deeper insight into the current and emerging technologies and standards in this field. The book is also a useful reference for anyone who is involved in the design, implementation, operation, or maintenance of digital transmission systems and networks.

Broadband Optical Access Networks and Fiber-to-the-Home Chinlon Lin, 2006-07-28 Timely and much-needed, Broadband Optical Access Networks and Fiber-to-the-Home provides a thorough overview of the topic by experts from a variety of institutions. The book provides an up-to-date comprehensive overview of the topic of FTTH and Broadband Optical Access technologies, network applications, services, and deployment trends.

Proceedings of 2nd International Conference on Artificial Intelligence: Advances and Applications Garima Mathur, Mahesh Bunde, Mahendra Lalwani, Marcin Paprzycki, 2022-02-14 This book gathers outstanding research papers presented in the 2nd International Conference on Artificial Intelligence: Advances and Application (ICAIAA 2021), held in Poornima College of Engineering, Jaipur, India during 27-28 March 2021. This book covers research works carried out by various students such as bachelor, master and doctoral scholars, faculty and industry persons in the area of artificial intelligence, machine learning, deep learning applications in healthcare, agriculture, business, security, etc. It will also cover research in core concepts of computer networks, intelligent system design and deployment, real time systems, WSN, sensors and sensor nodes, SDN, NFV, etc.

Performance of Wimax in Radio Over Fiber Gigabit Passive Optical Network Architecture Nor Affida M. Zin, 2013
The Essential Guide to Telecommunications Annabel Z. Dodd, 2005 Leading consultant Annabel Dodd presents easy-to-understand, insightful explanations of today's key trends and technologies: Industry Players and Trends, Broadband, VoIP, Wi-Fi and WiMax, 3G Mobile Networks, and Multimedia Networks. Previous editions have helped professionals worldwide understand the major changes transforming the telecommunications industry. In the past four years, the telecommunications industry has undergone major changes. This is the complete guide to the new realities of telecommunications. The new edition reflects all of today's most critical issues, trends, and technologies. In addition to providing crucial insights into the fast-changing competitive landscape, Dodd provides important information about the structure of, and key players in, the industry.

First Fiber Optics Network Operator Using Electricity Utilities' Infrastructure in Palestine Yousef Massis, 2016-03-09 Master's Thesis from the year 2015 in the subject Engineering - Communication Technology, grade: 90, Birzeit University (Faculty of Commerce & Economics), language: English, abstract: This study introduces a "Full Separation" as a new telecommunication business model in Palestine with a new telecommunication company in the active network layer of the business model. It motivates and engages the electricity utilities in the new model through the use of

their infrastructure, which in turn would help in reducing the highly required investment; it introduces new technologies and services; it supports and induces the government to open doors for competition through alternative infrastructures; and it highlights the importance of the existence of a strong legal and regulatory party. The evolution in the telecom industry with the highly increasing demand for higher capacity networks with the upcoming new applications; significant revolutions lead the global telecommunication industry to radical changes to the market structure, and to intensive challenges with the old business models and the existing regulations of the industry. In Palestine, with the global trends toward the liberalization and opening up the competition in the telecommunication market that have been raised in the last decades, unfortunately, the fixed broadband market is still monopolistic with high entry and exit barriers; there are still lack of policies and regulations; the absence of a regulatory party; in addition to the critical situation of Palestine which increase the fears and risk for investors to enter the market. Qualitative and quantitative methods, in addition to strategic management tools with a chosen business model concept based on the global fixed broadband business models are used to come up with reliable results and a valid model.

Millimeter-wave and Terahertz Photonics Dieter Jäger, Andreas Stöhr, 2006 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high-quality conferences in the broad-ranging fields of optics and photonics. These books provide prompt access to the latest innovations in research and technology in their respective fields. Proceedings of SPIE are among the most cited references in patent literature.

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