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Architecture; 2.2.2 FTTN Access Architecture; 2.3 ITU-T PON Standards; 2.3.1 ITU-T G.983 B-PON Standards Series 2.3.2 ITU-T G.984 G-PON for Higher Speeds 2.3.3 The Role of Standards in Interoperability; 2.4 PON Technology Background; 2.4.1 Upstream Bandwidth Assignment; 2.4.2 Ranging; 2.4.3 Splitters; 2.5 The SBC FTTH Network; 2.5.1 The Optical Fiber/Distribution Network; 2.5.2 FTTH ONTs; 2.5.3 SBC's Mission Bay Trial; 2.6 SBC Fiber to the Node (FTTN) NETWORK; 2.7 The Home Network; 2.8 Motivating the New Network - IPTV; Summary; General References; 3 FTTH: The Swedish Perspective; 3.1 Introduction; 3.2 Contents; 3.3 Definitions; 3.3.1 Broadband Definition; 3.3.2 FTTH Definition 3.3.3 Muni Net Definition 3.3.4 Residential Area Network, Definition; 3.4 Background for the Swedish FTTH Boom; 3.5 The Swedish Broadband Market Today; 3.5.1 Broadband Penetration Compared to the OECD; 3.5.2 The Broadband Market and Access Technologies in Sweden; 3.5.3 Equipment Suppliers; 3.5.4 The Swedish Broadband Industry; 3.5.5 Collaboration Between Industry and Academia; 3.6 Open Networks Versus Vertical Integration; 3.6.1 The Open Network; 3.6.2 Functions When Operating Muni Nets; 3.6.3 Relationships and Monetary Flows in Muni Nets; 3.6.4 Open Networks Versus Vertical Integration 3.7 Access Network Technologies 3.7.1 PON Versus Point-to-Point Ethernet; 3.7.2 L2 Versus L3 Access Architectures; 3.8 Drivers, Services and Trends for the Future Broadband Networks; 3.8.1 Operators and Network Owners; 3.8.2 Authorities; 3.9 Description of Key Swedish FTTH Players; 3.9.1 PacketFront; 3.9.2 Ericsson; 3.9.3 TeliaSonera; 3.9.4 Svenska Bostäder in Vällingby: A Greenfield Deployment; 3.9.5 Stockholm and the Vällingby Model: A Brownfield Deployment; 3.10 Summary; Acknowledgements; References; 4 Broadband Access Networks and Services in Korea 4.1 Changing Environments and FITL Plan

Sommario/riassunto

Broadband Optical Access and Fiber-to-the-Home (FTTH) will provide the ultimate broadband service capabilities. Compared with the currently well-deployed broadband access technologies of ADSL (Asymmetric Digital Subscriber Line) and Cable Modems, optical broadband access with Fiber-to-the-User's home will cater for much higher speed access for new services. Broadband Optical Access Networks and Fiber-to-the-Home presents a comprehensive technical overview of key technologies and deployment strategies for optical broadband access networks and emerging new broadband services.
