LIST OF FIGURES*

SECTION I
Figure 1.1 Major Drivers of Metro Optical Networks Worldwide ......................................... 6
Figure 1.2 Survey Respondents by Service Provider Type .................................................... 8
Figure 1.3 Survey Respondents by Geographic Region ...................................................... 8
Figure 1.4 Survey Respondents by Job Function ............................................................... 10

SECTION II
Figure 2.1 Operator Choice for IP Video Transport ............................................................. 11
Figure 2.2 Ethernet Transport in IPTV Networks ............................................................... 12
Figure 2.3 Critical Service Trends Driving a Transition to Ethernet ...................................... 12
Figure 2.4 National LambdaRail Equipment Layout .......................................................... 14
Figure 2.5 Major Carrier Announcements of Network Packetization .................................. 15
Figure 2.6 Transport Traffic Made Up of Ethernet Services ................................................. 17
Figure 2.7 Rate of Ethernet Traffic Growth in Transport Networks .................................... 17
Figure 2.8 Most Popular Data Rates for Ethernet Services .................................................. 18
Figure 2.9 Ethernet Transport Options in a Service Provider Network ................................. 19
Figure 2.10 Operator Transport of Ethernet Services .......................................................... 20
Figure 2.11 Sonet/SDH vs. EOTN Today ............................................................................ 21
Figure 2.12 Service Provider Ethernet Standards ............................................................... 22
Figure 2.13 Perceived Impediments to Ethernet Adoption ................................................... 23
Figure 2.14 The Need for Ethernet to Match Sonet/SDH Performance ................................. 23

SECTION III
Figure 3.1 Multiservice Adaptation to Sonet Infrastructure ................................................ 24
Figure 3.2 Sonet-to-Ethernet Migration Infrastructure ....................................................... 25
Figure 3.3 Alcatel's MSPP Positioning for Triple-Play Infrastructure .................................. 27
Figure 3.4 SBC's All-Ethernet Approach to Access Backhaul ............................................. 27

SECTION IV
Figure 4.1 Operator Plans for Sonet/SDH Networks .......................................................... 28
Figure 4.2 Primary Driver for the Transition to Ethernet Over Optical ............................... 28
Figure 4.3 Sonet-to-Ethernet Transition Timing ................................................................. 29
Figure 4.4 Sonet/SDH-to-Ethernet Migration by Network Area .......................................... 29
Figure 4.5 Operator Attitudes Toward Circuit Emulation for Ethernet Transport .................. 30

SECTION V
Figure 5.1 AT&T's Multi-Layered Convergence Ambitions ............................................... 32
Figure 5.2 Bell Canada's Access Bandwidth Distribution Forecast ...................................... 34
Figure 5.3 Bell Canada's Target Network Architecture ....................................................... 35
Figure 5.4 BT's 21CN Network Evolution ............................................................................ 37
Figure 5.5 BT's Migration Plans Illustrated ........................................................................ 38
Figure 5.6 BT's Migration Plans in Detail ............................................................................ 38
Figure 5.7 Colt's Next-Gen SDH and RPR Implementations ............................................... 40
Figure 5.8 T-Systems' Carrier Ethernet Networking Architecture for the Metro .................. 42
Figure 5.9 Level 3's International Network Map ................................................................. 43
Figure 5.10 Telstra's Next-Gen Network Architecture and Elements .................................. 45
Figure 5.11 Telstra's Ethernet Aggregation and Transport Plan .......................................... 46
Figure 5.12 WilTel's Optical Services Roadmap ................................................................. 48

SECTION VI
Figure 6.1 Alcatel's TSS-1850 Positioning ...................................................................... 50
Figure 6.2 Marconi's OMS2400 Optical Ethernet Product Family .................................... 56
Figure 6.3 Marconi's OMS2400 Optical Ethernet Portfolio Highlights ............................... 56

* All charts and figures in this report are original to Heavy Reading, unless otherwise specified.