LIST OF FIGURES*

SECTION I

Figure 1.1: EPC at the Heart of Mobile Broadband ............................................................... 4

SECTION II

Figure 2.1: Mobile Packet Core Equipment Forecast .......................................................... 8
Figure 2.2: Mobile Packet Core Revenues by Technology ..................................................... 10
Figure 2.3: Mobile Packet Core Market Share by Revenue (2013 = $3 Billion) ...................... 10
Figure 2.4: Mobile Packet Core Market Evolution ............................................................... 17

SECTION III

Figure 3.1: From Appliance to Virtualized Function ........................................................... 18
Figure 3.2: Platform- vs. Application-Driven NFV ............................................................... 19
Figure 3.3: Categories of Mobile Packet Core Functions ...................................................... 20
Figure 3.4: Telecom Software Designed for the Cloud vs. Hardware Appliances ................. 23
Figure 3.5: Replacing ASICs & NPUs With Multicore CPUs ............................................... 24
Figure 3.6: NFV Hypervisor Bypass .................................................................................... 25
Figure 3.7: NFV Hypervisor Domain .................................................................................. 26
Figure 3.8: Stages of NFV & SDN Over Time ..................................................................... 27

SECTION IV

Figure 4.1: Virtual EPC for Industry Verticals ................................................................. 29
Figure 4.2: Mobile Core Network Scale-Out Using NFV ..................................................... 30
Figure 4.3: Reallocation of Capacity to IMS ...................................................................... 30
Figure 4.4: Hard-Wired SGi-LAN .................................................................................... 31
Figure 4.5: Service Changing on the SGi Using Virtualized Appliances ......................... 32
Figure 4.6: Software-Configured Workflows ................................................................... 33

SECTION V

Figure 5.1: Affirmed Services Open Workflow ................................................................. 35
Figure 5.2: Components of Alcatel-Lucent's Virtual EPC Offer .......................................... 36
Figure 5.3: Cisco's Evolved Services Platform .................................................................. 37
Figure 5.4: Cisco's SGi-LAN Service Chaining ................................................................. 39
Figure 5.5: A Modular Service Architecture for Mobile Core ........................................... 40
Figure 5.6: Migration to NFV & SDN ................................................................................ 42
Figure 5.7: Ericsson's View on SGi Service Chaining ......................................................... 42
Figure 5.8: Huawei's View on NFV Cloud ..................................................................... 43
Figure 5.9: Huawei's View on Virtual EPC for Telemetry Services ................................. 44
Figure 5.10: Mavenir's Virtual Mobile Core ..................................................................... 45
Figure 5.11: NEC's Virtual EPC Architecture .................................................................. 47
Figure 5.12: NSN's Virtual EPC Trial With SK Telecom ................................................... 49
Figure 5.13: SGi-LAN Service Chaining ......................................................................... 51
Figure 5.14: Virtual EPC + SDN + SGi ............................................................................ 51

* All charts and figures in this report are original to Heavy Reading.