

The 2G, 3G and 4G Wireless Network Infrastructure Market: 2014 – 2020 – with an Evaluation of WiFi and WiMAX

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Abstracts

The wireless network infrastructure market is currently in a phase of transition as mobile network operators seek to address increasing mobile traffic demands amidst global economic uncertainties. This paradigm shift is bringing new challenges and opportunities to infrastructure vendors.

In 2013, global 2G, 3G and 4G wireless infrastructure revenues stood at \$52 Billion. SNS Research estimates that these revenues, from macrocell RAN (Radio Access Network) and core network investments have largely remained flat in 2014. However, the market is expected to decline at a CAGR of 2% over the next 6 years, eventually shrinking to \$47 Billion by the end of 2020.

Although, the new wave of 4G LTE macrocell RAN and core network investments will not be able to compensate the overall declines in 2G, 3G and WiMAX equipment sales, operators are expected to significantly increase their spending in the evolving HetNet market, which encompasses small cell, carrier WiFi, DAS (Distributed Antenna Systems) and C-RAN (Cloud RAN) equipment. Small cell and carrier WiFi equipment alone will represent a market worth \$4 Billion in 2015. Supplemented further by DAS and C-RAN investments, the HetNet sector is attracting considerable attention from both established vendors as well as startups which solely focus on the market.

Spanning over 900 pages, 'The 2G, 3G and 4G Wireless Network Infrastructure Market: 2014 – 2020 – with an Evaluation of WiFi and WiMAX' report package encompasses two comprehensive reports from covering both the conventional 2G, 3G and 4G wireless network infrastructure market as well as the emerging HetNet market:

[The Wireless Network Infrastructure Bible: 2014 – 2020 - Macrocell RAN, Small Cells, RRH, DAS, Cloud RAN, Carrier WiFi, Mobile Core & Backhaul](#)

[The HetNet Bible \(Small Cells, Carrier WiFi, DAS & C-RAN\): 2014 - 2020 - Opportunities, Challenges, Strategies, & Forecasts](#)

This report package provides an in-depth assessment of the 2G, 3G and 4G wireless network infrastructure market and also explores the HetNet and the mobile backhaul markets. Besides analyzing the key market drivers, challenges, regional CapEx commitments and vendor strategies, the report package also presents revenue and unit shipment forecasts for the wireless network infrastructure, small cell, WiFi offload, DAS, C-RAN and the mobile backhaul markets from 2014 to 2020 at a regional as well as a global scale. Historical figures and vendor shares are also provided for 2010 till 2013.

The report package comes with an associated Excel datasheet suite covering quantitative data from all numeric forecasts presented in the two reports.

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 - 3.1.1.1 Iuh based Integration: Residential/Enterprise Femtocells
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 - 3.1.2 S1: Integration into LTE Networks

- 3.1.2.1 eNB Small Cell Architecture
- 3.1.2.2 HeNB Small Cell Architecture
- 3.2 Integrating C-RAN into the Mobile Network
 - 3.2.1 CPRI (Common Public Radio Interface)
 - 3.2.2 OBSAI (Open Base Station Architecture Initiative)
 - 3.2.3 ORI (Open Radio Interface)
- 3.3 WiFi: The Evolution from an Ethernet Extension to Wireless Carrier Integration
- 3.4 Enabling Technologies for WiFi and Cellular RAN Interoperability
 - 3.4.1 ANDSF (Access Network Discovery and Selection Function)
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 - 3.4.1.2 Commercial Availability of ANDSF Solutions
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 - 3.4.2.2 Encryption - 802.11i (WPA2)
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 - 3.4.5 WISPr (Wireless Internet Service Provider Roaming)
 - 3.4.6 MSAP (Mobility Services Advertisement Protocol)
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 - 3.5.1 LIPA (Local IP Access)
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 - 3.5.1.2 Use Case Example: Local Network Multimedia Access
 - 3.5.2 SIPTO (Selected IP Traffic Offload)
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4.4.3 Macrocell RAN OEMs

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4.4.5 C-RAN Solution Providers

4.4.6 Other Technology & Network Component Providers/Enablers

4.5 Mobile Backhaul Ecosystem

4.5.1 Backhaul & Fronthaul Solution Providers

4.6 Mobile Core Ecosystem

4.6.1 Core Network Solution Providers

4.7 Connectivity Ecosystem

4.7.1 2G, 3G & 4G Wireless Carriers

4.7.2 WiFi Connectivity Providers

4.7.3 SCaaS Providers

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4.9.1 SDN & NFV Providers

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4.10.2 Radisys Acquires Continuous Computing – Q4'2010

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4.10.4 Mindspeed Technologies Acquires picoChip – Q1'2012

4.10.5 Ericsson Acquires BelAir Networks – Q2'2012

4.10.6 Crown Castle Acquires NextG Networks – Q2'2012

4.10.7 Qualcomm Acquires DesignArt Networks – Q3'2012

- 4.10.8 Oracle Acquires Acme Packet – Q1'2013
- 4.10.9 Oracle Acquires Tekelec – Q1'2013
- 4.10.10 Cisco Acquires Ubiquisys – Q2'2013
- 4.10.11 Cobham Acquires Axell Wireless– Q2'2013
- 4.10.12 Bird Technologies Acquires DeltaNode – Q3'2013
- 4.10.13 Intel Acquires Mindspeed's Wireless Assets – Q4'2013
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5.1.3 SCaaS (Small Cells as a Service)

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7.1.5 PTP (Point to Point) Microwave – 6-60 GHz

7.1.6 PTMP (Point to Multipoint) Microwave – 6-60 GHz

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7.1.8 Satellite Based Backhaul

7.2 Requirements for Small Cell Backhaul

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8.1.2 Scope of Work

8.1.3 Working Groups

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8.1.3.2 Radio & Physical Layer Group

8.1.3.3 Network Group

8.1.3.4 Regulatory Group

8.1.3.5 Services Group

8.1.3.6 Interoperability Group

8.1.3.7 Special Interest Focus Groups: Backhaul, Deployment, LTE, Rural & 3GPP2

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8.2 WBA (Wireless Broadband Alliance)

8.2.1 Mission

8.2.2 Scope of Work

8.2.3 Working Groups

8.2.3.1 Business Workgroup

8.2.3.2 Industry Engagement Workgroup

8.2.3.3 Roaming Workgroup

8.3 WiFi Alliance

8.3.1 Mission

8.3.2 Certification Programs

8.3.2.1 Core Certification

8.3.2.2 Miracast

8.3.2.3 TDLS (Tunneled Direct Link Setup)

8.3.2.4 Passpoint

8.3.2.5 WiFi Direct

8.3.2.6 WiFi Protected Setup

8.3.2.7 WMM (WiFi Multimedia)

8.3.2.8 WMM-Power Save

8.3.2.9 Voice-Personal: Voice over WiFi

8.3.2.10 Voice-Enterprise: Voice over WiFi

8.3.2.11 CWG-RF

8.3.2.12 WMM-Admission Control

8.3.2.13 IBSS with WiFi Protected Setup

8.4 HetNet Forum

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8.4.2 Scope of Work

8.4.3 Governance & Membership

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8.5.1 Mission

8.5.2 Small Cell Standardization Activities

8.6 3GPP2

8.6.1 Mission

8.6.2 Small Cell Standardization Activities

8.7 Broadband Forum

8.7.1 Mission

8.7.2 Small Cell Standardization Activities

8.8 WiMAX Forum

8.8.1 Mission

8.8.2 Small Cell Standardization Activities

8.9 Prominent Collaborations

8.9.1 WBA and WiFi Alliance

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9.1.3 Colt Telecom

9.1.4 Cloudberry Mobile

9.1.5 ClearSky

9.1.6 Virgin Media

9.1.7 Ericsson & Phillips

9.1.8 Alcatel-Lucent & Towerstream

9.2 Carrier WiFi

9.2.1 AT&T Mobility

9.2.2 Comcast

9.2.3 Cox Communications

9.2.4 MetroPCS

9.2.5 Sprint

9.2.6 T-Mobile USA

9.2.7 Verizon Wireless

9.2.8 Free Mobile

9.2.9 BT

9.2.10 MegaFon

9.2.11 Orange (France Telecom)

9.2.12 Portugal Telecom

9.2.13 Telefónica Mviles (Spain)

9.2.14 T-Mobile Austria

9.2.15 Zain Saudi Arabia

9.2.16 China Mobile

9.2.17 KDDI

9.2.18 LG Uplus

9.2.19 NTT Broadband Platform

9.2.20 TIM Brasil

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 - 9.3.1 AT&T Mobility
 - 9.3.2 Beeline
 - 9.3.3 Bouygues Telecom
 - 9.3.4 China Mobile
 - 9.3.5 China Unicom
 - 9.3.6 Cosmote
 - 9.3.7 EE (Everything Everywhere)
 - 9.3.8 Free Mobile
 - 9.3.9 KDDI
 - 9.3.10 MegaFon
 - 9.3.11 Moldtelecom
 - 9.3.12 Mosaic Telecom
 - 9.3.13 MTC
 - 9.3.14 Movistar
 - 9.3.15 Network Norway
 - 9.3.16 NTT DoCoMo
 - 9.3.17 O2 (Telefonica UK)
 - 9.3.18 Optimus Portugal
 - 9.3.19 Optus
 - 9.3.20 Orange (Formerly France Telecom)
 - 9.3.21 Orange Romania
 - 9.3.22 SFR
 - 9.3.23 SingTel
 - 9.3.24 SK Telecom
 - 9.3.25 SoftBank
 - 9.3.26 Sprint
 - 9.3.27 StarHub
 - 9.3.28 TOT Thailand
 - 9.3.29 Three UK
 - 9.3.30 Verizon Wireless
 - 9.3.31 Vodafone Australia
 - 9.3.32 Vodafone Czech Republic
 - 9.3.33 Vodafone Germany
 - 9.3.34 Vodafone Greece
 - 9.3.35 Vodafone Hungary
 - 9.3.36 Vodafone Ireland
 - 9.3.37 Vodafone Italy

- 9.3.38 Vodafone Netherlands
- 9.3.39 Vodafone New Zealand
- 9.3.40 Vodafone Portugal
- 9.3.41 Vodafone Qatar
- 9.3.42 Vodafone Romania
- 9.3.43 Vodafone Spain
- 9.3.44 Vodafone UK
- 9.3.45 Zain Bahrain
- 9.3.46 Other Commitments

9.4 Case Studies

- 9.4.1 Sprint/Softbank Acquisition: Assessing the Impact on the Small Cells Ecosystem
- 9.4.2 The Impact of LTE & Small Cells on Tier 2/3 CDMA Carriers
- 9.4.3 What is the TCO Impact of HetNet Deployments?

10 CHAPTER 2.10: PURE-PLAY SMALL CELL VENDORS

- 10.1 Accelleran
- 10.2 ADB
- 10.3 Airspan Networks
- 10.4 Alpha Networks
- 10.5 Arcadyan Technology Corporation
- 10.6 Artemis Networks
- 10.7 Anvaya Networks
- 10.8 Argela
- 10.9 ARItel
- 10.10 Askey Computer Corporation
- 10.11 Contela
- 10.12 CS Corporation
- 10.13 Dongwon T&I
- 10.14 Femtel (Suzhou Femtel Communications)
- 10.15 Free
- 10.16 GWT (Global Wireless Technologies)
- 10.17 HSL (Hay Systems Limited)
- 10.18 ip.access
- 10.19 Juni Global
- 10.20 Lemko
- 10.21 Minieum Networks
- 10.22 Nutaq/ NuRAN Wireless
- 10.23 Oceus Networks

- 10.24 Pace
- 10.25 PureWave Networks
- 10.26 Quanta Computer
- 10.27 Sagemcom
- 10.28 SK Telesys
- 10.29 SpiderCloud Wireless
- 10.30 Star Solutions
- 10.31 Technicolor
- 10.32 Tecom
- 10.33 TEKTELIC Communications
- 10.34 Telum
- 10.35 Qucell
- 10.36 Ubee Interactive
- 10.37 WNC (Wistron NeWeb Corporation)
- 10.38 Z-com (ZDC Wireless)

11 CHAPTER 2.11: DAS, RRH & REPEATER SOLUTION PROVIDERS

- 11.1 AceAxis
- 11.2 ADRF (Advanced RF Technologies)
- 11.3 Affarii Technologies
- 11.4 American Tower Corporation
- 11.5 Arqiva
- 11.6 Axell Wireless/Cobham
- 11.7 Axis Teknologies
- 11.8 Black Box Corporation
- 11.9 BTI Wireless
- 11.10 CCI (Communication Components Inc.)
- 11.11 CCI (Crown Castle International)
- 11.12 CCI Systems
- 11.13 CSI (Cellular Specialities, Inc.)/Westell Technologies
- 11.14 Comba Telecom Systems Holdings
- 11.15 CommScope
- 11.16 Corning MobileAccess
- 11.17 Dali Wireless
- 11.18 DeltaNode (Bird Technologies)
- 11.19 Ethertronics
- 11.20 ExteNet Systems
- 11.21 Foxcom

- 11.22 Galtronics
- 11.23 Goodman Networks
- 11.24 IDS Technology Solutions
- 11.25 JMA Wireless
- 11.26 KMW Communications
- 11.27 Kathrein-Werke KG
- 11.28 MER-CellIO Wireless Solutions
- 11.29 Microlab (Wireless Telecom Group)
- 11.30 Nexius
- 11.31 RF Window
- 11.32 RFS (Radio Frequency Systems)
- 11.33 Rosenberger
- 11.34 SOLiD (SOLID Technologies)
- 11.35 Sumitomo Electric Industries
- 11.36 TE Connectivity
- 11.37 TESSCO Technologies
- 11.38 Wi-Ex
- 11.39 Wilson Electronics
- 11.40 Zinwave/McWane

12 CHAPTER 2.12: CARRIER WIFI FOCUSED VENDORS

- 12.1 4ipnet
- 12.2 ADTRAN
- 12.3 Aerohive
- 12.4 Alvarion (Wavion)
- 12.5 Aruba Networks
- 12.6 Browan Communications
- 12.7 CCI (Competitive Companies, Inc.)/WyTec International
- 12.8 CeedTec
- 12.9 D-Link Corporation
- 12.10 Edgewater Wireless Systems
- 12.11 EION Wireless
- 12.12 Extreme Networks
- 12.13 Firetide
- 12.14 Fortinet
- 12.15 Gemtek Technology
- 12.16 GoNet Systems
- 12.17 GrenTech (China GrenTech Corporation)

- 12.18 Handlink Technologies
- 12.19 Meru Networks
- 12.20 Motorola Solutions (Zebra Technologies)
- 12.21 NETGEAR
- 12.22 Nomadix
- 12.23 Option N.V.
- 12.24 Proxim Wireless
- 12.25 RFNet Technologies
- 12.26 Ro-Timak Technology
- 12.27 Ruckus Wireless
- 12.28 Senao Networks
- 12.29 SerComm
- 12.30 Shyam Telecom
- 12.31 TP-LINK
- 12.32 Tranzeo Wireless Technologies
- 12.33 Tropos Networks (ABB)
- 12.34 Ubiquiti Networks
- 12.35 ZyXEL

13 CHAPTER 2.13: C-RAN FOCUSED SOLUTION PROVIDERS

- 13.1 6WIND
- 13.2 ADLINK Technology
- 13.3 Airvana
- 13.4 Altiostar Networks
- 13.5 ASOCS
- 13.6 Axxcelera
- 13.7 Intel Corporation
- 13.8 MTI Mobile

14 CHAPTER 2.14: HETNET FOCUSED SON SOLUTION PROVIDERS

- 14.1 AirHop Communications
- 14.2 Amdocs
- 14.3 Astellia
- 14.4 Cellwize
- 14.5 Celtro
- 14.6 Eden Rock Communications
- 14.7 InfoVista

- 14.8 JDSU
- 14.9 Optulink
- 14.10 P.I. Works
- 14.11 RADCOM
- 14.12 Reverb Networks
- 14.13 TEOCO
- 14.14 Tulinx
- 14.15 WebRadar
- 14.16 Xceed Technologies

15 CHAPTER 2.15: MACROCELL RAN & MOBILE CORE INFRASTRUCTURE VENDORS

- 15.1 Alcatel-Lucent
- 15.2 Cisco
- 15.3 Datang Mobile
- 15.4 Ericsson
- 15.5 Ericsson-LG
- 15.6 Fujitsu
- 15.7 Huawei
- 15.8 Hitachi
- 15.9 HP
- 15.10 Juniper Networks
- 15.11 Mitsubishi
- 15.12 NEC
- 15.13 New Postcom Equipment
- 15.14 Nokia Networks
- 15.15 NTT DoCoMo
- 15.16 Samsung
- 15.17 ZTE

16 CHAPTER 2.16: CHIPSET, COMPONENT, SOFTWARE AND TECHNOLOGY VENDORS

- 16.1 Ablaze Wireless
- 16.2 Accuris Networks
- 16.3 ACS (Applied Communication Sciences)
- 16.4 Adax
- 16.5 ADI (Analog Devices Inc.)

- 16.6 Affirmed Networks
- 16.7 AKM (Asahi Kasei Microdevices)
- 16.8 Altera
- 16.9 Atilo Networks
- 16.10 Aricent
- 16.11 AWTG (Advanced Wireless Technology Group)
- 16.12 Azcom Technology
- 16.13 BandwidthX
- 16.14 Birdstep Technology ASA
- 16.15 Blu Wireless Technology
- 16.16 Broadcom
- 16.17 BSG Wireless
- 16.18 Casa Systems
- 16.19 Cavium
- 16.20 Coherent Logix
- 16.21 Direct Beam
- 16.22 Freescale Semiconductor
- 16.23 Front Porch
- 16.24 GENBAND
- 16.25 Green Packet
- 16.26 iPosi
- 16.27 InterDigital
- 16.28 Kineto Wireless
- 16.29 Kumu Networks
- 16.30 Lattice Semiconductor
- 16.31 Lime Microsystems
- 16.32 Mavenir
- 16.33 Maxim Integrated
- 16.34 Microsemi Corporation
- 16.35 MIMOon
- 16.36 Nash Technologies
- 16.37 Netgem
- 16.38 Node-H
- 16.39 Nomor Research
- 16.40 Octasic
- 16.41 Oracle Corporation
- 16.42 Pletronics
- 16.43 PMC-Sierra
- 16.44 Polaris Networks

- 16.45 Public Wireless
- 16.46 Qualcomm
- 16.47 Quortus
- 16.48 Radisys
- 16.49 Rakon
- 16.50 Saguna Networks
- 16.51 SAI Technology
- 16.52 Stoke
- 16.53 Smith Micro Software
- 16.54 Syniverse Technologies
- 16.55 Tata Elxsi
- 16.56 TI (Texas Instruments)
- 16.57 U-blox
- 16.58 Vectron International
- 16.59 Vitesse Semiconductor
- 16.60 Xilinx

17 CHAPTER 2.17: TEST & MEASUREMENT SOLUTION PROVIDERS

- 17.1 Anite
- 17.2 Anritsu Corporation
- 17.3 EDX Wireless
- 17.4 ERCOM
- 17.5 EXFO
- 17.6 iBwave
- 17.7 Ixia
- 17.8 Keysight Technologies
- 17.9 VPIsystems
- 17.10 WeFi

18 CHAPTER 2.18: WIFI NETWORK PROVIDERS

- 18.1 AlwaysOn
- 18.2 Boingo Wireless
- 18.3 BSkyB (The Cloud)
- 18.4 Devicescape Software
- 18.5 Fon Wireless
- 18.6 iPass
- 18.7 Quadriga Worldwide

18.8 Towerstream Corporation

19 CHAPTER 2.19: BACKHAUL & FRONTHAUL SOLUTION PROVIDERS

19.1 3Roam

19.2 4RF

19.3 Accedian Networks

19.4 Actelis Networks

19.5 Actiontec

19.6 Actus Networks

19.7 ADVA Optical Networking

19.8 Advantech Wireless

19.9 ALAXALA Networks

19.10 Albis Technologies

19.11 ALCOMA

19.12 Allied Data Technologies

19.13 Allied Telesis

19.14 Arris

19.15 Athena Wireless Communications

19.16 Avanti Communications

19.17 Aviat Networks

19.18 AVM

19.19 Brocade

19.20 BLiNQ Networks

19.21 BluWan

19.22 BridgeWave Communications

19.23 BTI Systems

19.24 CableFree Solutions

19.25 Calix

19.26 Cambium Networks

19.27 Canoga Perkins

19.28 Carlson Wireless Technologies

19.29 CBNL (Cambridge Broadband Networks Ltd.)

19.30 CCS (Cambridge Communication Systems)

19.31 Ceragon

19.32 Cielo Networks

19.33 Ciena Corporation

19.34 Comtrend

19.35 Corecess

- 19.36 DASAN Networks
- 19.37 DragonWave
- 19.38 E-Band Communications
- 19.39 E-Blink
- 19.40 ECI Telecom
- 19.41 Elva-1 (Elva-Link)
- 19.42 Exalt Communications
- 19.43 FastBack Networks
- 19.44 Fiberhome Technologies
- 19.45 FibroLan
- 19.46 Genmix Technology
- 19.47 Gilat Satellite Networks
- 19.48 HFR
- 19.49 Huahuan
- 19.50 Hughes Network Systems
- 19.51 HXI
- 19.52 iDirect
- 19.53 Intracom Telecom
- 19.54 IPITEK
- 19.55 Iskratel
- 19.56 KEYMILE
- 19.57 LightPointe Communications
- 19.58 Loea Corporation
- 19.59 MAX4G
- 19.60 Microwave Networks
- 19.61 MIMOtech
- 19.62 MRV Communications
- 19.63 Nexcomm Systems
- 19.64 NexxComm Wireless
- 19.65 Omnitron Systems
- 19.66 OneAccess Networks
- 19.67 Overture Networks
- 19.68 Polewall
- 19.69 Positron
- 19.70 RACOM
- 19.71 RAD Data Communications
- 19.72 RADWIN
- 19.73 Redline Communications
- 19.74 SAF Tehnika

19.75 SIAE Microelectronics (SIAE Microelectronica)

19.76 Siklu

19.77 SkyFiber

19.78 SMC Networks

19.79 Solectek

19.80 Star Microwave

19.81 Sub10 Systems

19.82 Taqua

19.83 Tarana Wireless

19.84 Telco Systems

19.85 Tellabs

19.86 Tellion

19.87 Tllumat

19.88 Telrad Networks

19.89 Telsey

19.90 Tilgin

19.91 Trango Systems

19.92 Transmode

19.93 Ubiquoss

19.94 UTStarcom

19.95 Vubiq Networks

19.96 Wave1

19.97 Wavesight

19.98 Xavi Technologies

19.99 Yamaha

19.100 Zhone Technologies

20 CHAPTER 2.20: MARKET ANALYSIS AND FORECASTS

20.1 The Global Small Cell & Carrier WiFi Market: 2014 – 2020

20.1.1 Global Small Cell & Carrier WiFi Installed Base

20.1.1.1 Global Small Cell & Carrier WiFi Installed Base Compared

20.1.1.2 Small Cell & Carrier WiFi Installed Base by Region

20.1.2 Global Small Cell & Carrier WiFi Unit Shipments & Revenue

20.1.2.1 Global Small Cell & Carrier WiFi Unit Shipments & Revenue Compared

20.1.2.2 Small Cell & Carrier WiFi Unit Shipments & Revenue by Region

20.1.3 Global Small Cell & Carrier WiFi Data Service Revenue

20.1.3.1 Global Small Cell & Carrier WiFi Data Service Revenue Compared

20.1.3.2 Small Cell & Carrier WiFi Data Service Revenue by Region

20.2 The Global Small Cell Market: 2014 – 2020

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20.2.2 Global Small Cell Installed Base

20.2.3 Global Small Cell Installed Base by Cell Size (Femto, Pico, Micro)

20.2.3.1 Global Femtocell Installed Base

20.2.3.2 Global Picocell Installed Base

20.2.3.3 Global Microcell Installed Base

20.2.4 Global Small Cell Installed Base by Deployment Model (Home/Residential, Enterprise, Metro, Rural)

20.2.4.1 Home/Residential Small Cell Installed Base

20.2.4.2 Enterprise Small Cell Installed Base

20.2.4.3 Metro Small Cell Installed Base

20.2.4.4 Rural Small Cell Installed Base

20.2.5 Global Small Cell Installed Base by Air Interface Technology Generation (2G, 3G, 4G)

20.2.5.1 2G/3G (CDMA2000/GSM/W-CDMA) Small Cell Installed Base

20.2.5.2 4G (LTE/WiMAX) Small Cell Installed Base

20.2.6 Global Small Cell Installed Base by Air Interface Technology (GSM/W-CDMA/HSPA, CDMA2000/EV-DO, LTE FDD/TD-LTE, WiMAX)

20.2.6.1 GSM/W-CDMA/HSPA Small Cell Installed Base

20.2.6.2 CDMA2000/EV-DO Small Cell Installed Base

20.2.6.3 LTE FDD Small Cell Installed Base

20.2.6.4 TD-LTE Small Cell Installed Base

20.2.6.5 WiMAX Small Cell Installed Base

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20.2.9.1 Global Femtocell Unit Shipments & Revenue

20.2.9.2 Global Picocell Unit Shipments & Revenue

20.2.9.3 Global Microcell Unit Shipments & Revenue

20.2.10 Global Small Cell Unit Shipments & Revenue by Deployment Model (Home/Residential, Enterprise, Metro, Rural)

20.2.10.1 Home/Residential Small Cell Unit Shipments & Revenue

20.2.10.2 Enterprise Small Cell Unit Shipments & Revenue

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