

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

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## **Abstracts**

Driven by in-building wireless coverage requirements and the growing influx of mobile broadband data traffic, a traditional macrocell based cellular network deployment is not deemed to be a sufficient solution to address the coverage and capacity needs of today's wireless subscribers.

Wireless carriers are thus exploring options to offload additional coverage and capacity to alternatives such as strategically deployed small cells and WiFi access points, which have so far been deployed by more than 200 global wireless carriers. Adding further to the heterogeneity are alternative deployment models such as DAS (Distributed Antenna Systems) and the emerging C-RAN (Cloud Radio Access Networks) architecture which concentrates the processing of the RAN segment of a mobile network in one or more, centralized data centers.

Driven by the thriving ecosystem, we expect small cells, carrier WiFi, DAS and C-RAN networks to account for over 50% of all mobile data traffic by the end of 2015, while overall spending on HetNet infrastructure is expected to reach \$20 Billion annually during the same period.

This report presents an in-depth assessment of the global small cells, carrier WiFi, DAS and C-RAN markets. In addition to covering the technology, business case, the challenges, standardization initiatives, the industry's roadmap, value chain analysis, deployment case studies, vendor service/product strategies and strategic recommendations, the report also presents comprehensive forecasts for the market from 2014 till 2020, including individual revenue and shipment projections of small cells, carrier WiFi, small cell backhaul, SCaaS (Small Cells as a Service), DAS, C-RAN, SON

(Self-Organizing Network) and mobile data services across six geographical regions.

Also provided are historical figures for 2010, 2011, 2012 and 2013. The report comes with an associated Excel datasheet covering quantitative data from all numeric figures presented in the report.

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10.9 ARItel

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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

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10.23 Oceus Networks

10.24 Pace

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- 11.6 Axell Wireless/Cobham
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- 11.25 JMA Wireless
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- 11.27 Kathrein-Werke KG

- 11.28 MER-CellIO Wireless Solutions
- 11.29 Microlab (Wireless Telecom Group)
- 11.30 Nexius
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- 12.24 Proxim Wireless
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- 16.6 Affirmed Networks
- 16.7 AKM (Asahi Kasei Microdevices)
- 16.8 Altera
- 16.9 Aptilo 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
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- 16.41 Oracle Corporation
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- 16.43 PMC-Sierra
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- 16.45 Public Wireless
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- 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
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- 16.57 U-blox
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