WiFi Enabled LTE Small Cell Gateway Forecasts: 2013 – 2020

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Abstracts

Driven by large scale LTE investments and the high penetration of embedded WiFi capability in consumer electronic devices, both fixed and mobile, a number of wireless carriers are taking a keen interest in WiFi enabled LTE gateways. A WiFi enabled LTE small cell gateway (or base station) is an emerging network element, which has an LTE interface towards the carrier network and a WiFi interface towards the end user device. A vast majority of these base station deployments are likely to be in a small cell configuration.

Driven by infrastructure vendor commitments and demands from the wireless carrier community, SNS Research expects the installed base of WiFi enabled LTE small cell gateways to account for nearly 15 Million units by 2020, growing at a CAGR of nearly 122% between 2013 and 2020.

The "WiFi Enabled LTE Small Cell Gateway Forecasts: 2013 – 2020" excel datasheet presents detailed forecasts and growth rate projections on the installed base, unit shipments and revenue of WiFi enabled LTE gateways from 2013 till 2020. The forecasts are also segmented for the following regional submarkets:

Asia Pacific

Eastern Europe

Latin & Central America

Middle East & Africa

North America

Western Europe

The datasheet comes with a complimentary copy of SNS Research's "The HetNet Bible (Small Cells and Carrier WiFi) - Opportunities, Challenges, Strategies and Forecasts: 2013 - 2020 - With an Evaluation of DAS & Cloud RAN" report which includes detailed analysis and forecasts of the HetNet market. The report comprises over 434 pages and 262 figures.

The datasheet and the complimentary report cover the following topics:

Small cell, carrier WiFi, DAS, Cloud RAN, Mobile Content Distribution Networks (CDNs) & HetNet technology and architecture

WiFi enabled LTE small cell gateways

Integration and offloading technology for carrier WiFi and small cells

Market drivers and key benefits of small cells and carrier WiFi

Challenges and Inhibitors to the small cells and carrier WiFi ecosystem

Small cell and carrier WiFi industry roadmap: 2010 – 2020

Small cell and carrier WiFi value chain

Vendor landscape and acquisitions

Small cell and carrier WiFi deployment models

Vertical markets for small cell and carrier WiFi deployments

Small cell backhaul technology, requirements and key issues

Standardization and regulatory initiatives

Small Cells as a Service (SCaaS)

Small cells, SCaaS and carrier WiFi deployment case studies

Industry, wireless carrier and vendor commitments to small cells and carrier WiFi

Self-Organizing Network (SON) technology

Profiles and market positioning assessment (current strategy, target market and products/services) for the following players in the HetNet market: 'Pure-Play' and specialist small cell vendors, DAS & repeater solution providers, carrier WiFi focused vendors, Cloud RAN solution providers, HetNet focused SON solution providers, Wireless network (Macrocell, Core) infrastructure vendors, chipset, software & component vendors, technology providers, WiFi network providers and small cell backhaul solution providers.

Conclusion and strategic recommendations for HetNet solution vendors, wireless carriers and macrocell infrastructure vendors.

Market analysis and forecasts for the industry's revenue, including the following submarkets:

Small Cells

WiFi enabled Small Cell Gateways

Carrier WiFi

Small Cell Backhaul

Small Cells as a Service (SCaaS)

Distributed Antenna Systems (DAS)

Cloud RAN

Self-Organizing Network (SON) Solutions

Mobile Network Data Service

Small cell forecasts (unit shipments, revenue, installed base) are categorized in the following categories:

RAN Technology

GSM/W-CDMA/HSPA

CDMA-2000/EV-DO

LTE FDD

TD-LTE

WiMAX

Deployment Model

Home/Residential

Enterprise

Metro

Rural

Cell Size

Femtocells

Picocells

Microcells

Carrier WiFi forecasts (unit shipments, revenue, installed base) are categorized in the following categories:

Equipment Category

Access Points

Access Point Controllers

Integration Approach

Managed WiFi Offload

Unmanaged 'Open Access' WiFi

Small cell backhaul forecasts (revenue) are categorized in the following technology categories:

Ethernet over Copper

Ethernet over Fiber

DSL modems and DSLAMs

Non Line of Sight (NLOS) Microwave (Sub-6GHz spectrum)

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

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

Millimeter Wave (Unlicensed 60GHz spectrum)

Millimeter Wave (Licensed 60GHz spectrum)

Satellite

Mobile network data service forecasts (throughput and revenue) are categorized in the following access network technology categories:

Macrocell Network

Small Cells

Carrier WiFi

DAS

Regional forecasts are categorized in the following 6 categories

North America

Asia Pacific

Western Europe

Eastern Europe

Middle East & Africa

Latin & Central America

Key Questions Answered

The datasheet and the complimentary report provide answers to the following key questions:

What are the key market drivers and challenges in the small cells and carrier WiFi market and the wider HetNets ecosystem?

How big is the WiFi enabled small cell gateway market, and how much revenue will it generate in 2020?

How big is the HetNet ecosystem, and how much revenue will it generate in 2020?

What will be the installed base of small cells and carrier WiFi access points in 2020?

Which geographical regions offer the greatest growth potential for HetNet deployments?

What is the service revenue for mobile data services delivered over small cells and carrier WiFi, and how will this vary overtime?

How are investments on DAS technology impacting the small cells and carrier WiFi market?

What is the Cloud RAN concept, and how does it affect the small cells and carrier WiFi market?

Which technology will be predominant in the small cell backhaul ecosystem and is there a market for satellite based small cell backhaul?

Is there a market for rural small cell deployments?

How big is the opportunity for Small Cells as a Service (SCaaS)?

How is the HetNet value chain structured and how will it evolve overtime?

What opportunities does the HetNet ecosystem offer to infrastructure vendors and other players involved in the value chain?

What strategies should infrastructure vendors and wireless carriers adopt to capitalize on the HetNet opportunity

?**Key Findings**

The datasheet and the complimentary report have the following key findings:

The installed base of WiFi enabled LTE small cell gateways to account for nearly 15 Million units by 2020, growing at a CAGR of nearly 122% between 2013 and 2020

Small cells, carrier WiFi, DAS and Cloud RAN infrastructure investments will account for a $42 Billion HetNet ecosystem by 2020.

Small cells and carrier WiFi deployments are expected to carry more than 60% of all mobile network data traffic by 2020, which will account for $352 Billion in mobile data service revenue.

At present, the small cells and carrier WiFi infrastructure value chain is highly fragmented with 'pure-play' vendors and incumbent macrocell vendors battling to gain a higher share of the market.

SNS Research expects the value chain to consolidate over the coming years following several future acquisitions such as the recent acquisition of Ubiquisys by Cisco.

Eyeing the momentum behind small cell deployments, several DAS vendors (such as BTI Wireless) are now entering the small cells market.

While it is a preferred opinion among wireless carriers, aggregating outdoor small cell backhaul with macrocell infrastructure may prove to be a well challenging task. Consequently the demand for small cell backhauling has opened a new opportunity for investment, which will be a market worth nearly $6 Billion by 2020.

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