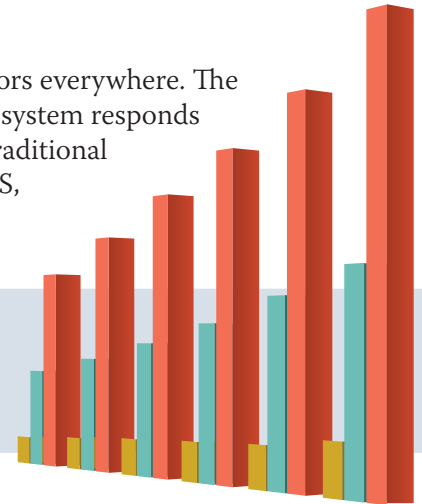




The exploding demand for ubiquitous all-IP mobile broadband overwhelms operators everywhere. The Last Mile of wireless connectivity is constrained by the laws of physics, and the ecosystem responds with a wide diversity of access and technology innovations. Solutions include the traditional macrocell base stations, small cells, three or more spectrum bands, in-building DAS, femtocells, Wi-Fi, backhaul, SDN, NFV Virtualization, and new antenna schemes.

In-building Wireless Deployment Revenue by System Type

Active DAS Passive DAS Repeaters



Services

Mobile Deployments, CAPEX & Traffic

This Research Service provides a comprehensive set of Market Data that analyze the key performance metrics shaping the regional and global mobile carrier landscape. Each of the Market Data is published quarterly to ensure the client acquires real-time insight into the development of the mobile carrier community.

- Historical and Forecast 3G and 4G Deployment Data
- CAPEX Values for 99 Different Companies
- ARPU for 100 Operators in 35 Markets

Enterprise & Consumer Femtocells

Mobile traffic growth and declining ARPU's have created a situation where carriers need to explore other network topologies in order to provide users with the high-speed mobile coverage they desire in an economical way. Femtocells provide carriers with a solution to provide coverage in hard to reach places inside consumer and enterprise buildings and also a way to get traffic off of the mobile network as quickly as possible.

- World Market Installations, Shipments and Forecasts
- Public Venue and Indoor Small Cells Networks
- Small Cell and Femtocell Chipsets, Basebands and RF Challenges

In-Building Wireless

The In-Building wireless market is one of keen interest to carriers looking to boost service delivery to core clients in the most challenging signal environment. Traditionally, the realm of DAS (Distributed Antenna Systems) IBW has shifted its primary focus from providing better (mainly voice) signal coverage within a building, towards increasing capacity for data-centric and bandwidth-consuming services.

- Healthcare, Stadiums, Airports and other Hot Verticals
- Deployments, Shipments, Revenues and Cost Per Sq. Foot
- Active and Passive DAS Solutions Breakdown

Small Cells

Small Cells attractively meet this demand without needing massive macro-cell investment by using spatial multiplexing and interference mitigation to increase spectrum reuse..

- Service Provider Access Point Revenue and Shipments
- Indoor & Outdoor Wi-Fi Access Points
- Outdoor and Public Access Small Cells



Services *(continued)*

Transport for HetNets, IoT & 5G

Mobile broadband ecosystem attention focuses on Devices and Radio Access Networks where mobile coverage and performance are the primary concern. Exponential traffic growth will hit performance bottlenecks throughout the network, and transport and its economics come to the forefront.

- HetNet Fronthaul and Backhaul OPEX and Revenues
- Bandwidth Capacity Demand and Outlook of Backhaul Networks
- 3G, 4G, 5G Backhaul Revenue Technology

Macro Basestations

Fundamental changes are occurring in the radio access network, from multistandard multimode base stations, tower and RAN sharing, and the need for RAN offload, to active antennas, remote radio heads, and the promise of baseband pooling and cloud RAN, which could lead to the complete re-engineering of networks going forward.

- Annual Base Station Shipments by Technology, Equipment Spend and Frequency
- RAN Market Share and Contract Awards by Quarter
- Transceivers (TRXs) Forecast by Region

Carrier Wi-Fi

Wi-Fi will do the heavy lifting for wireless traffic in the near future, but emergence of the Internet of Everything and 5G pose new challenges for operators and the Wi-Fi ecosystem. The Carrier Wi-Fi Research Service tracks its progress, future outlook, and evolution in light of IoT and 5G. This service also provides 3 to 5 year strategic marketing insight and perspective suitable for operators, hardware vendors, software vendors, regulators, and the investment community.

- Carrier Wi-Fi Access Points Shipments and Revenues
- Core Network and Small Cells integration
- Carrier Wi-Fi Controller Shipments and Revenues

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