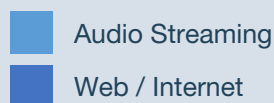




The exploding demand for ubiquitous all-IP mobile broadband overwhelms operators everywhere. The Last Mile of wireless connectivity is constrained by the laws of physics, and the ecosystem responds with a wide diversity of access and technology innovations. Solutions include the traditional macrocell 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 Data Traffic by Traffic Type



## Services

### In-Building Systems

The service includes a companion In-Building Wireless Traffic forecast which forecasts both Wi-Fi and cellular mobile data traffic in indoor locations. The data is presented by 5 regions: North America, Europe, Asia Pacific, Latin America, and Rest of World. A worldwide total is also presented. Traffic by region, traffic type, traffic penetration, traffic by access technology, offload share vs. mobile share, penetration by commercial vs. consumer, and traffic by vertical are all available in the data set.

- Hot Verticals: Healthcare, Stadiums, Airports, Universities, Enterprise, etc.

### 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

### Small Cells & HetNets

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

### Fronthaul and Backhaul for Next Generation Networks

What is needed for the Internet of Everything and 5G? How will architectures evolve from the current mobile and wired paradigm to include alternative networks and architectures that support the specific needs of hundreds of billions of low power connections? What decisions are needed to succeed in the 3 to 5 year strategic market window? This service provides insight and perspectives suitable for operators, hardware vendors, software vendors, regulators, and the investment community

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



# Services *(continued)*

## Carrier & Managed 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

## About Us

We are a technology market intelligence company with a 25 year proven track record that is focused on putting information into the hands of executives in order to enable them to make the right decisions on technology and market investment at the right time. ABI Research quantifies the important markets of today, defines the strategic technologies of tomorrow, and provides insight on how technology is adopted into vertical markets.

## Why ABI Research?

**Proven:** Supporting globally renowned market leading companies as a premier strategic intelligence provider since 1990.

**Objective:** Unbiased status as a privately held enterprise allows us to “call it how we see it”.

**Expert:** Analysts with decades of market experience spanning 11 Research Sectors and 50+ Research Services empower real world positive contributions to our clients’ business.

**Influential:** Quoted 20,000 times in 2014, helping educate the wider technology community on issues, winners and losers.

**Comprehensive:** Over 3,000 products published per year to help arm clients with emerging trends and adjacent market threats.

**Global:** HQ in Oyster Bay, NY with 9 offices across three continents, providing global perspective with local insight.

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Deep data, market share analysis & highly segmented, sector-specific forecasts provide detailed insight into where opportunity lies

### Research Analysis

Based on extensive primary interviews, research reports present in-depth strategic and timely analysis on key trends and factors affecting markets. These are split into 5 major report types: Application, Business Models, Geographic, Regulatory, and Technology

### Competitive Assessment

Comprehensive analysis of implementation strategies and innovation, coupled with market share analysis. These provide deep insight into a company’s performance and standing in comparison to competitors.

### Analyst Insight

Frequently published, short, topical opinion pieces; focusing on market, company, product or experience.

### Analyst Inquiry

Personalized and dedicated client support coupled with direct, time-sensitive access to key analysts. Value-added engagement with key research staff provides exceptional insight on the things that matter for business.

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