

Small Cells Provide New Opportunities in Last Mile Backhaul

Description: This report addresses the changing nature of mobile networks. What is in the report is a comprehensive count of small cells (including femtocells) and last mile backhaul for both small cells.

The small cell form factors forecasted include femtocells, enterprise femtocells, indoor picocells, outdoor metropolitan picocells, and microcells. The information provided about each form factor includes new shipments, the retail value of each device, and the installed base – all values expressed by airlink.

MRG estimates that there are as many as eleven backhaul mediums – five wireline technologies and six wireless technologies. Last mile mediums include copper E1/T1 lines, Ethernet over copper, Ethernet over cable, fiber, and fiber using CRAN or distributed antennas. For wireless technologies, there is microwave, MM microwave, non line of site radios, WiMAX, Wi-Fi and satellite.

Both small cells and macro base stations use these variations of these mediums. Last mile backhaul for small cells and macro base stations is presented by access points shipped, last mile CAPEX costs for mobile operators, installed base, and total capacity.

All forecasts are for the years 2011-2017. Additionally, all forecasts are broken out by data for North America, Eastern Europe, Western Europe, CALA, Middle East and Africa, and Asia Pacific.

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