

Cognitive Radio Market by Component (Software Tools, Hardware, and Services), Application (Spectrum Sensing, Spectrum Analysis, Spectrum Allocation, Location Tracking, and Cognitive Routing), End-User, and Region - Global Forecast to 2022

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Abstracts

The cognitive radio market is projected to grow at a Compound Annual Growth Rate (CAGR) of 16.6% during the forecast period.

The cognitive radio market is expected to grow from USD 3.45 billion in 2017 to USD 7.44 billion by 2022, at a CAGR of 16.6% during the forecast period. Technological advancements in the wireless communication field, optimized spectrum utilization, and the increasing adoption of the 5G technology are some of the major driving factors for the growth of the cognitive radio market across the globe.

The major issues faced by most of the organizations while incorporating the cognitive radio technology in the wireless communication ecosystem are security concerns, dynamic communication standards, and issues related to interoperability.

The professional services segment is expected to have the larger market share during the forecast period.

The services segment in the cognitive radio market includes professional and managed services. The majority of the companies do not have the expertise to successfully manage their infrastructure. Therefore, they outsource these services to third-party partners to maintain the required level of security and safety. The growth of the professional services segment is mainly governed by the complexity of operations and increasing deployment of the cognitive radio technology in the wireless communication

ecosystem.

The spectrum sensing application is expected to have the largest market size during the forecast period.

In the applications segment, the spectrum sensing application is expected to hold the largest market size during the forecast period. The spectrum sensing application of the cognitive radio involves observing and updating the status of the spectrum and the movement of the licensed or primary user by periodically sensing the frequency band. Spectrum sensing enables the cognitive radio transceiver to sense any spectrum hole or idle spectrum at a particular time, location, or band. It also identifies the way of accessing the spectrum hole without interfering the communication of the primary users.

Asia Pacific (APAC) is expected to witness the fastest growth rate during the forecast period.

APAC is expected to grow at the highest CAGR during the forecast period. Factors such as continual growth in the mobile network, increasing complexities of the wireless communication ecosystem, rise in demand for optimized spectrum utilization, and exponential growth in data traffic across all industry verticals are expected to drive the growth of the cognitive radio market in the APAC region. The North American region is expected to have the largest market share during the forecast period. The major growth drivers for this region are the large-scale investments in implementing cognitive radio services, due to the growth in demand for effective spectrum utilization.

In the process of determining and verifying the market size for the several segments and subsegments gathered through secondary research, extensive primary interviews were conducted with the key people.

By Company Type –Tier 1 - 20%, Tier 2 - 45%, and Tier 3 - 35%

By Designation –C-Level - 48%, D-Level - 37%, and Others - 15%

By Region –North America - 22%, Europe - 45%, APAC - 26%, and Rest of the World (RoW)- 7%

The major cognitive radio vendors are BAE Systems (London, UK), Raytheon Company (Massachusetts, US), Thales Group (Paris, France), Rhode & Schwarz (Munich,

Germany), Spectrum Signal Processing (Burnaby, Canada), xG Technology (Florida, US), Nutaq (Quebec, Canada), Ettus Research (California, US), Shared Spectrum Company (Virginia, US), DataSoft (Arizona, US), EpiSys Science (California, US), and Kyynel (Oulu, Finland).

Research Coverage

The cognitive radio market has been segmented on the basis of components, applications, end-users, and regions. On the basis of components, the market is segmented into software tools, hardware, and services. The software tools segment includes radio control and reconfiguration tools, spectrum analyzer, and policy and configuration database manager. The hardware segment consists of transmitter and receiver. The services offered in the cognitive radio market include professional and managed services. Based on applications, the market is segmented into spectrum sensing, spectrum analysis, spectrum allocation, location tracking, and cognitive routing. The end-user segment comprises government and defense, telecommunication, transportation, and others. On the basis of regions, the cognitive radio market is segmented into North America, Europe, APAC, Middle East and Africa (MEA), and Latin America. North America is further segmented into the United States (US) and Canada. Europe includes Germany, France, Italy, and Rest of Europe. APAC consists of China, Japan, and Rest of APAC. MEA is segmented into the Middle East and Africa. Latin America comprises Brazil and Rest of Latin America

The report will help market leaders and new entrants in the cognitive radio market in the following ways:

1. The report segments the market into various subsegments, thereby covering the market comprehensively. The report provides the closest approximations of the revenue numbers for the overall market and its subsegments. The market numbers are further split across different components, applications, end-users, and regions.
2. The report assists in understanding the overall growth of the market. It provides information on the key market drivers, restraints, challenges, and opportunities.
3. The report assists in understanding the competitors better and gaining more insights to strengthen the position of organizations in the market. The study also presents the positioning of the key players based on their product offerings and business strategies.

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