

Voice over 5G (Vo5G) Market: 5G Voice support for Smart Phones, Wearable Technology, IoT, Virtual Reality, Robotics, and Teleoperation 2018 – 2023

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Abstracts

Fifth Generation (5G) cellular will enable many new advanced functions such as significantly greater capacity, dramatically lower latency, and optimized support for Internet of Things (IoT) networks. This will support enhanced mobile broadband, ultra-reliable communications, and massive IoT deployment. 5G will also introduce the ability to implement network slicing for dynamic network allocation, enforceable SLA/QoE, and network as a service. It will also represent a flexible and economically viable alternative to fixed network back-haul as well as an alternative to WiFi.

Despite the industry emphasis on many new data-related capabilities materializing with 5G, voice will remain a critical function, but will diminish in importance as a stand-alone service. While 5G will support Ultra High Definition (UHD) audio communications, streaming video and ultra-clear voice communication are not anticipated to be the most important overall economic impacts of the technology. Instead, the main value proposition will be Voice over 5G (Vo5G) embedded with many advanced applications and services including Unified Communications (UC), Real-time Communications (including WebRTC), Telepresence, Augmented Reality, Virtual Reality (VR), and Mixed Reality, tele-robotics control, and various IoT enabled applications and services.

The Vo5G market will inherently support voice/audio as a key component of communications for a wide variety of apps and services for many consumer, enterprise, and industrial solutions. Vo5G market evolution will involve a few important considerations in terms of network topology, equipment and software upgrades and integration. Most options involve evolution from Voice over LTE (VoLTE) to Voice over New Radio (VoNR) as 5G will be based on new RF via millimeter wave propagation.

While each of these architectures has unique challenges, all of them require network readiness of IP Multimedia Subsystem (IMS) within the carrier's network. In addition, each migration path will lead to substantially enhanced voice capabilities via enhanced LTE and VoNR solutions. This will lead to important advances for integrated UHD voice communications as well as next generation voice-based user interfaces in support of immersive technologies and IoT enabled apps and services. Vo5G will also replace VoLTE as a preferred method of vocal/auditory communication as well as act as the input medium for a wide variety of user interfaces, many of which currently rely upon WiFi.

This report evaluates the Vo5G market including companies, technologies, strategies, and solutions. The report assesses the market potential and outlook for many Vo5G supported applications and services including enhancements to existing solutions as well as completely new user experiences and use case scenarios. It also evaluates how 5G will support various next generation immersive apps and services such as VR. The report includes detailed Vo5G market forecasts for all major equipment, application, and industry segments for the 2018 to 2023 period. All direct purchases of Mind Commerce reports includes time with an expert analyst who will help you link key findings in the report to the business issues you're addressing. This needs to be used within three months of purchasing the report.

Key Findings:

Vo5G will be an essential component for next generation apps and services

North America will be the largest Vo5G regional market through 2023 at \$29.1 billion

Asia Pacific and Europe will grow at 77.7% and 69.3% CAGR respectively through 2023

Vo5G will transform virtual reality to become a viable anytime, anywhere telepresence solution

Vo5G will be the catalyst for a major shift away from smartphones as the primary consumer device

Report Benefits:

Voice over 5G (Vo5G) Market: 5G Voice support for Smart Phones, Wearable Technology, IoT, Virtual Reality, Rob...

Vo5G market forecasts 2018 to 2023

Understand the evolution of VoLTE to Vo5G via VoNR

Understand the importance of IMS to relative to Vo5G

Identify the market drivers for Vo5G enabled apps and services

Identify high revenue Vo5G applications and services by industry

Learn how 5G benefits Virtual Reality and other immersive technologies

Target Audience:

Network management companies

Communications service providers

Application and service developers

Broadband equipment manufacturers

Research and development organizations

Companies in Report:

Analog Devices Inc.

AT&T Inc.

Broadcom Corporation

Cavium

China Mobile

CISCO Systems Inc.

Deutsche Telekom AG

Ericsson AB

Fujitsu Ltd.

HPE

Huawei Technologies Co. Ltd.

Intel Corporation

Juniper Networks, Inc.

KT Corporation

LG Electronics Inc.

LG Uplus Corp.

MACOM Technology

MediaTek Inc.

NEC Corporation

Nokia Networks

NTT Docomo Inc.

Orange SA

Qorvo Inc.

Qualcomm Incorporated

Samsung Electronics Co. Ltd.

SingTel

SK Telecom Telecom Co. Ltd.

T-Mobile US Inc.

Telefonica

Verizon Communications

VMware Inc.

Vodafone

ZTE Corporation

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