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# Qualcomm Powers Mobile and Home Connectivity Innovations at Mobile World Congress 2015

## **-Qualcomm Technologies Continues to Define the Connected Mobile and Home Experiences with Next-Generation LTE-Advanced and Wi-Fi Solutions-**

BARCELONA, Spain, March 2, 2015 /PRNewswire/ -- Qualcomm Incorporated (NASDAQ: QCOM) announced today that its subsidiaries, Qualcomm Technologies, Inc. (QTI) and Qualcomm Atheros, Inc., will showcase an array of connected mobile and home experiences at Mobile World Congress (MWC) that further demonstrates their leadership in next-generation connectivity solutions. Powered by the latest Qualcomm® Snapdragon™ technologies, and leading-edge LTE-Advanced and Wi-Fi connectivity solutions, these experiences illustrate QTI's continued innovation in delivering more efficient use of bandwidth and improved user experiences.

### **The Next Leap in LTE-Advanced**

QTI will feature the first public demonstration of Category 11 LTE-Advanced (LTE-A) Carrier Aggregation (CA) connectivity. Utilizing LTE Category 11 three-channel 60MHz CA and 256 Quadrature Amplitude Modulation (QAM), and infrastructure provided by Ericsson, QTI will showcase download speeds of up to 600 Mbps. Such technology is designed to offer OEMs with the latest connectivity options where the 256QAM addition provides enhanced network efficiency, especially in small cell deployments for mobile operators.

Showcasing the ability to enable Category 9 LTE-A CA download speeds of up to 450Mbps, QTI will also feature: the first LTE-FDD demonstration with a commercial smartphone, utilizing LG's newly released LG G Flex 2 featuring a Qualcomm® Snapdragon™ 810 processor with X10 LTE and infrastructure provided by Ericsson; an LTE-FDD demonstration in collaboration with Telstra, NETGEAR® and Ericsson, featuring the newly announced NETGEAR AirCard® LTE Category 9 mobile hotspot based on the Snapdragon X12 LTE modem and QCA6174 2-stream 802.11ac Wi-Fi chipset; and a TD-LTE Advanced Downlink three-way CA demonstration in cooperation with China Mobile Communications Corporation (CMCC) and ZTE to showcase 3X more throughput and an enhanced network performance. Additionally, QTI will also be supporting demonstrations for LTE TDD-FDD 2x CA at Ericsson and Nokia booths. LTE TDD-FDD Carrier Aggregation enables spectrum from both LTE TDD and LTE FDD to be combined to deliver higher peak data speeds and improve application coverage across the network, as well as ensures the efficient utilization of spectrum, increasing both the combined TDD and FDD coverage area, and capacity, of the network.

Combining next-generation LTE-A technology with its multimode capabilities, a demonstration for Category 6 Dual SIM connectivity will also be featured, showcasing how mobile users can take advantage of speeds up to 300Mbps in mobile devices without compromising the benefits of Dual SIM use in many countries around the world. QTI's solution includes LTE-A CA in a dual standby configuration with dual receive, which is designed to result in fewer missed calls and lower strain on data throughput.

### **Transforming the Premium Content Experience**

QTI is teaming up with Facebook and Ericsson to demonstrate the ability to efficiently push application updates simultaneously to many mobile devices via LTE-Broadcast. This capability highlights a new potential use case for LTE-Broadcast technology, which is designed to utilize the scale of operator LTE networks, relieve network congestion, and deliver high-quality video and large files, all with minimal impact on network capacity. Using this technology, application vendors and app store owners can successfully push application updates to user devices, which offers background file delivery of services and significantly reduces download time and improves network efficiency. With more than a billion users worldwide, Facebook's interest in LTE-Broadcast further validates QTI's LTE technology leadership and the value of the business case for evolved Multimedia Broadcast Multicast Service (eMBMS).

### **Converging LTE and Wi-Fi to Support Carriers and Consumers**

QTI is making significant strides in converging LTE and Wi-Fi. Using QTI's IP Multimedia Services (IMS) client, QTI is

teaming with Ericsson to demonstrate LTE/Wi-Fi Call Continuity, which is designed to support seamless transfers of voice and video calls between LTE and Wi-Fi without the hassle of dropping the call. The IMS client gives mobile operators the ability to offload voice and/or video calls to Wi-Fi as a way to optimize network usage and extend LTE calling coverage. With Call Continuity, operators can now offer new bandwidth-intensive video calling services, while offloading some of the added traffic to Wi-Fi networks at the same time.

Through efforts made by QTI, Networks Business of Samsung Electronics, Alcatel-Lucent and KT, LTE/Wi-Fi Link Aggregation will be demonstrated publicly for the first time. Until now, operator Wi-Fi has existed independently of the operator's LTE network. This technology will bring operator Wi-Fi access points under the direct real-time control of the LTE radio network without the need for modifications. As a result, it will give operators the opportunity to tap into the capacity of the Wi-Fi access points they own or control, by aggregating LTE and Wi-Fi radio links together in the mobile device. Doing so provides users with faster throughput and direct access to operator services in more places, and it offers operators unprecedented levels of control, mobility and offload that are not possible when carrier Wi-Fi access points are kept separate and unconnected to LTE.

To showcase the co-existence of LTE-A and Wi-Fi, QTI will conduct live demonstrations of LTE in an unlicensed spectrum (LTE-U). Extending LTE-A to unlicensed spectrum in a way that coexists with Wi-Fi allows operators to utilize available unlicensed spectrum effectively. The demonstration will show LTE-U in multiple 5GHz channels. Additionally, QTI recently announced the integration of LTE-U into its FSM99xx small cells product portfolio, along with the WTR3950, the first commercial RF transceiver to support LTE-U in mobile devices.

### **Wi-Fi based smart lighting**

In conjunction with Qualcomm Atheros, LIFX announces it will expand its family of smart lights to include the LIFX White 800, a new smart light with tunable whites utilizing the QCA4002, a feature-rich, low-power Wi-Fi solution by Qualcomm Atheros. The LIFX White 800 allows for ranges of warm white shades to bluish-white variations on daylight adjustable from any smart device. Thanks to built-in Wi-Fi, it connects directly to a home's Wi-Fi network without the need for a hub or bridge—making the Smart Home more accessible and easier to set up for millions of users. The lights are fully compatible with the AllSeen Alliance's open-source Lighting Service Framework (LSF), which is designed to provide interoperability with AllJoyn® enabled smart devices in the home, and are certified "Designed for AllSeen." The LIFX White 800 is powered by the Lighting Connectivity Module (LCM), a turnkey Wi-Fi based smart lighting platform.

"Mobile connectivity is the integral part of every aspect of the mobile experience and the advances we are showcasing at MWC 2015 will take the industry to new heights," said Cristiano Amon, executive vice president, Qualcomm Technologies, Inc., and co-president, QCT. "With LTE-Advanced multiplying connectivity speeds, LTE-Broadcast redefining the way we experience premium content delivery, and LTE and Wi-Fi convergence designed to empower operators to provide truly seamless communications for consumers, Qualcomm Technologies' inventions continue to define what is possible through wireless technology."

Attendees of Mobile World Congress can experience live demonstrations of next-generation mobile connectivity at the Qualcomm booth in Hall 3, Stand #3E10.

### **About Qualcomm Incorporated**

Qualcomm Incorporated (NASDAQ: QCOM) is a world leader in 3G, 4G and next-generation wireless technologies. Qualcomm Incorporated includes Qualcomm's licensing business, QTL, and the vast majority of its patent portfolio. Qualcomm Technologies, Inc., a wholly-owned subsidiary of Qualcomm Incorporated, operates, along with its subsidiaries, substantially all of Qualcomm's engineering, research and development functions, and substantially all of its products and services businesses, including its semiconductor business, QCT. For more than 25 years, Qualcomm ideas and inventions have driven the evolution of digital communications, linking people everywhere more closely to information, entertainment and each other. For more information, visit Qualcomm's [website](#), [OnQ blog](#), [Twitter](#) and [Facebook](#) pages.

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