Huawei Launches X-Gen Wi-Fi, Redefining the Agile Campus Network Era

[Shanghai, China, September 6, 2017] At HUAWEI CONNECT 2017, Huawei is launching the X-Gen Wi-Fi Solution--the industry's first 10G-capable access point (AP) AP7060DN, with the three-fold bandwidth increase and four-fold increase in the number of concurrent access users. For the first time in the industry, the AP7060DN allows for hybrid access through both 10 Gbps capable Wi-Fi and Internet of Things (IoT) technologies, such as Bluetooth, ZigBee, and RFID, making more innovative service experience possible and redefining the agile campus network era.

Emerging applications, such as IoT, 4K/8K HD video, and Augmented Reality (AR)/Virtual Reality (VR), impose high-bandwidth, low-latency requirements for Wi-Fi networks; the number of access devices (including many IoT devices) in the office and business scenarios grows exponentially. Existing Wi-Fi standards and products are encountering great challenges to scale network capacity and bandwidth to meet these growing demands. In compliance with the latest 802.11ax Wi-Fi standard, the AP7060DN access point, using an 802.11ax chip from Qualcomm Technologies, Inc., a subsidiary of Qualcomm Incorporated, leverages 8x8 Multi-User Multiple-Input, Multiple-Output (MU-MIMO), orthogonal frequency division multiple access (OFDMA), and 1024-Quadrature Amplitude Modulation (1024-QAM) technologies. Compared with 802.11ac Wave 2 products, the bandwidth of a single 5G radio on the AP7060DN is increased from 1.7 Gbit/s to 4.8 Gbit/s. By leveraging the multi-radio technology, the overall bandwidth reaches up to 9.6 Gbit/s. In addition, OFDMA and uplink/downlink MU-MIMO technologies enable the AP to improve the multi-user concurrent efficiency in high-density scenarios and the number of concurrent users from 100 (supported by 802.11ac Wave 2 products) to 400. Huawei AP supports hybrid access from Wi-Fi and IoT terminals and makes possible access from a large number of IoT devices, meeting applications' requirements for the future network. It also provides outstanding anti-interference capability of the X-Gen Wi-Fi network, which can effectively avoids collisions through the multi-user smart scheduling mechanism, increasing the network capacity in high-density scenarios by 30 percent. It supports on-premise and cloud-based management modes, and manages IoT devices and office devices together on the cloud, implementing cloud-based network management.

"In the past years, Huawei has constructed wired and wireless converged networks for various industries using innovative agile campus solutions. Campus networks are now embracing a 10-gigabit digital era enabled with all Wi-Fi coverage and hybrid Wi-Fi/IoT access, we name it X-Gen. Huawei's X-Gen Wi-Fi is capable of 10 Gbps access and designed for future industry applications. It will be widely applied in VR/AR all-interactive teaching, interactive 3D imaging for remote diagnosis in hospitals, all-telepresence wireless office at anytime, anywhere, and more interaction scenarios beyond the imagination. 802.11ac technology leads Wi-Fi connections into the multi-gigabit era, and Huawei X-Gen Wi-Fi will enable campus networks with 10 Gbps capable Wi-Fi connectivity of everything," said Kevin Hu, president of Huawei Switch and

Enterprise Gateway product line.

"Qualcomm Technologies is on the front line of 11ax innovation and working closely with Huawei to address the ever-growing need for Wi-Fi capacity in today's dense enterprise networks. Qualcomm Technologies' 11ax solutions are designed to enable additional capacity with MU MIMO and OFDMA support," said Irvind Ghai, vice president, product management, Qualcomm Technologies, Inc. "This is the beginning of a transformation that will support more robust infrastructure and richer connected experiences for users."

"Existing Wi-Fi standards will not meet the forthcoming access requirements for large-scale IoT deployment scenarios. With expected increases in the number of concurrent users and things on the Wi-Fi network, legacy AP performance may become insufficient and often subject to signal interference. The new-generation Wi-Fi standard promises to better meet future IoT network requirements, given its expected ability to accommodate significantly more devices per AP, as well as improve per device access performance. This X-Gen Wi-Fi access point launched by Huawei is an important first step in the progression to standard commercial usage of 802.11ax WiFi, and providing a new option for IoT-specific use cases." said Nolan Greene, IDC Sr. Research Analyst.

HUAWEI CONNECT 2017, Huawei's flagship event for the global ICT industry, is held at the Shanghai New International Exhibition Centre from September 5-7. The theme is Grow with the Cloud. Huawei will be exploring how to realize new growth through digital transformation together with its customers and partners at this global platform for open collaboration. For more information, please visit www.huawei.com/huaweiconnect2017

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About Huawei

Huawei is a leading global information and communications technology (ICT) solutions provider. Our aim is to enrich life and improve efficiency through a better connected world, acting as a responsible corporate citizen, innovative enabler for the information society, and collaborative contributor to the industry. Driven by customer-centric innovation and open partnerships, Huawei has established an end-to-end ICT solutions portfolio that gives customers competitive advantages in telecom and enterprise networks, devices and cloud computing. Huawei's 180,000 employees worldwide are committed to creating maximum value for telecom operators, enterprises and consumers. Our innovative ICT solutions, products and services are used in more than 170 countries and regions, serving over one-third of the world's population. Founded in 1987, Huawei is a private company fully owned by its employees.

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