Huawei Launches CloudFabric Solution to Build an Ultra-simplified and Efficient Cloud Data Center Network

[Shanghai, China, September 6, 2017] At HUAWEI CONNECT 2017, Huawei launched the CloudFabric Solution, which proposes the concept of modular networking optimized for specific scenarios, starting with three scenario-oriented fabric models: High Availability, Hyperscale, and High-Performance Computing (HPC). Huawei also launched FabricInsight, a newly upgraded intelligent network analysis and O&M platform. The new CloudFabric Solution can build a cloud data center network that features ultra-simplified design, deployment, and O&M for enterprises.

The Three Scenario-oriented Fabric Models of Huawei's CloudFabric Solution:

1. **High Availability Fabric model**: designed for high-reliability, high-security, and intelligent O&M data center networks, ensuring 24/7 running of critical data center services in the finance industry, among others. This fabric model features fabric-level reliability to ensure zero service interruption, application-level high security to implement VM-level security protection, and intelligent O&M.

2. **Hyperscale Fabric model**: designed for hyperscale, highly scalable, and non-blocking data center networks containing multiple automated management clouds, and can be widely applied in the Internet industry. Based on the open SDN architecture, this fabric model implements unified resource scheduling and automatic network provisioning in multi-cloud collaboration scenarios, and provides the industry's first 100G dual-fiber optical module, significantly reducing CAPEX and OPEX on the 100G fabric.

3. **HPC Fabric model**: designed for data centers requiring HPC and can be used in industries such as satellite mapping, energy detection, and life sciences, meeting the zero packet loss and low delay requirements of Ethernet fabrics. By leveraging the 100G spine-leaf architecture, this fabric model increases the network size by five times compared with the traditional dedicated high-performance network, and reduces the average computing time of HPC tasks by

40% based on Huawei's innovative congestion scheduling algorithm.

In addition, Huawei's CloudFabric Solution upgrades the intelligent network analysis and O&M platform FabricInsight. By collecting and analyzing real traffic on the entire network, FabricInsight displays the health of applications and networks based on their associations in real time and implements minute-level fault location. Based on the retrieval of tens of billions of data records within seconds and precise playback of historical faults, FabricInsight provides optimization suggestions on sudden temporary exceptions on the network. By leveraging real-time telemetry technology, FabricInsight evaluates the network Service-Level Agreement (SLA) comprehensively and predicts unknown risks, opening up a new era of intelligent network analysis and O&M.

"As the digital transformation of enterprises accelerates, service cloudification is not exclusive to the Internet industry, and has become a common choice in more industries such as finance, manufacturing, and energy. Therefore, application scenarios on cloud data center networks have become more diverse. Enterprises in each industry focus on quickly and effectively utilizing cloud-base technologies to achieve business innovation in the industry and improve operational efficiency," said Yu Li, General Manager of the Huawei Data Center Network Domain. "Huawei's CloudFabric Solution defines scenario-oriented Fabric models, focuses on the network and applications instead of Network Elements (NEs), and helps enterprises quickly build cloud-based networks matching service scenarios and future development, accelerating the digital transformation of enterprises."

Based on scenario-oriented modular fabric networking, Huawei's CloudFabric Solution greatly reduces the difficulty of network architecture design and shortens the design period from months to days, implementing ultra-simplified design. Based on the open SDN architecture and automatic delivery of network configurations and security policies, this solution shortens the service provisioning time from weeks to minutes, achieving ultra-simplified deployment. Based on the intelligent network analysis and O&M platform FabricInsight, this solution improves decision-making efficiency and reduces fault location time from hours to minutes, implementing ultra-simplified O&M. As an

important part of Huawei's All-Cloud Network, the future-oriented CloudFabric Solution is committed to helping more industries and enterprises to grow with the cloud.

HUAWEI CONNECT is a global flagship conference in the ICT industry held annually by Huawei. This year's conference, HUAWEI CONNECT 2017, will be held in Shanghai New International Expo Center from September 5 to September 7 and will see Huawei discuss with customers and partners how to achieve new growth through digitalization. With the theme "Grow with the Cloud", this conference aims at establishing a globally shared platform for open cooperation. For more information, please visit us at: 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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