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Samsung Completes SDN-enabled EPC Proof of Concept with SK Telecom

Successful test marks key milestone in next generation network

Seoul, Korea – 7th December, 2015 –Samsung Electronics Co., Ltd., a leading provider of mobile broadband networking solutions, announced that it has successfully demonstrated the capabilities of Telco Software-Defined Networking(SDN) in a proof of concept test deployment with South Korean operator SK Telecom.

The proof of concept demonstration was composed of Samsung technology, including a test-scale LTE network provided by Samsung, a virtualized EPC along with the addition of several SDN switches and an SDN controller to manage traffic flow. The test network simulated multiple transport routes within the network, and allowed for traffic to be dynamically anchored to optimal routes for an application or user. Even in simulated node overloads and failures, the SDN system showcased the ability to re-route traffic to maximize operating efficiency and prevent degradation in the quality of user experience.

Critically, the system also enabled separation of user and control planes, allowing more appropriate and direct routes for each. This will play a very important role in enabling dense IoT (Internet of Things) traffic, where rapid growth in device and sensor communications has the potential to overburden unprepared telecommunications networks. Multiple types of traffic were also simulated, including web and video data, in order to demonstrate the system's routing and data-plane separation capabilities.

"The results of this demonstration show exciting promise for the capabilities that SDN can bring to the mobile network, and we are looking forward to the next phase of this project slated for early next year." Said Seongyong Park, Vice President and Head of Next Generation R&D, Network Business at Samsung Electronics. "With the help of partners such as SK Telecom, Samsung is delivering on its commitment to next-generation mobile technologies; together with our leadership in other areas, such as 5G radio and NFV, it shows the innovation potential that Samsung bring to the mobile industry."

"Efficient transport of data traffic through the mobile network is a key area of interest as we strive to meet growing demand for mobile data and differentiated network services," said Jin-hyo Park, Senior Vice President & Head of Network Technology Center at SK Telecom. "This feasibility demonstration represents an important first step, and SK Telecom remains committed to taking a leadership position in the development of future generation mobile telecommunication technologies."

Software-Defined Networking, in parallel with Network Functions Virtualization, has been identified by Samsung and SK Telecom as key technologies for the enablement of 5G networks, and is expected to contribute significantly to improvements in network capacity, latency, flexibility and total cost of ownership. This demonstration closely follows on the heels of commercial deployments of Samsung's AdaptiV Core platform for SK Telecom, including its AdaptiV vEPC and AdaptiV vIMS solutions in August and September, respectively.

About SK Telecom

SK Telecom (NYSE: SKM, KSE: 017670), established in 1984, is Korea's largest telecommunications company with more than 28 million mobile subscribers, accounting for around 50% of the market. The company reached KRW 17.164 trillion in revenue in 2014. As the world's first company to commercialize CDMA, CDMA 2000 1x, CDMA EV-DO and HSDPA networks, SK Telecom launched the nation's first LTE service in July 2011. SK Telecom also became the world's first mobile carrier to commercialize 150Mbps LTE-Advanced in June 2013 and 225Mbps LTE-Advanced in June 2014 through Carrier Aggregation(CA). In line with its efforts to swiftly move towards the next-generation mobile network system, or 5G, it successfully commercialized 300Mbps tri-band LTE-A CA. As of the end of September 2015, the company has over 18.5 million LTE and LTE-Advanced subscribers. Based on its strength in network operations business, SK Telecom is seeking new growth engines through three innovative platforms namely Lifestyle Enhancement Platform, Advanced Media Platform and IoT Service Platform. For more information, please visit www.sktelecom.com or email to skt_press@sk.com.

About Samsung Electronics Co., Ltd.

Samsung Electronics Co., Ltd. inspires the world and shapes the future with transformative ideas and technologies, redefining the worlds of TVs, smartphones, wearable devices, tablets, cameras, digital appliances, printers, medical equipment, network systems, and semiconductor and LED solutions. We are also leading in the Internet of Things space through, among others, our Smart Home and Digital Health initiatives. We employ 319,000 people across 84 countries with annual sales of US \$196 billion. To discover more, please visit our official website at www.samsung.com and our official blog at global.samsungtomorrow.com

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