



News Fact Sheet

Intel and Industry Leaders Transform Network Infrastructure

New Products and Collaborations Accelerate the Delivery of Telco, Cloud and Data Center Services

March 3, 2015 — Intel is collaborating with several industry leaders to transform network infrastructure with standardized hardware and software and accelerate the delivery of new services and capabilities for consumers and businesses. The move toward a modern network infrastructure with new products and technologies from Intel will help telecommunications and cloud service providers improve their operational efficiencies and use cloud computing to meet their customers' demand for more connectivity and delivery of real-time information and services they desire.

Alcatel-Lucent* - Alcatel-Lucent introduced their new virtualized Radio Access Network (vRAN) solution which comes just 12 months after [announcing an agreement](#) with Intel to collaborate on Network Functions Virtualization (NFV) development. The vRAN incorporates a virtualized baseband unit (vBBU) that uses Intel® Xeon® processors to deliver increased network performance and cost savings. It will be available for customer trials during 2015 and for commercial operation in 2016. At Mobile World Congress, the vRAN technology is being demonstrated at the booths of Alcatel-Lucent, China Mobile, Intel and Telefonica and will show how it enables mobile operators to meet demands for increased capacity, performance and efficiency.

Ericsson* - Ericsson announced a new generation of data center platforms for the Ericsson Cloud System that will lower total cost of ownership (TCO). The new platforms use hardware disaggregation enabled by Intel® Rack Scale Architecture, together with management software and orchestration, to optimize and scale cloud resources across private, public and enterprise cloud domains for improved services agility. Ericsson and Intel are also collaborating on the Open Platform for NFV (OPNFV), an open source initiative to develop a carrier-grade, open source reference platform.

Huawei* - Huawei and Intel are collaborating to deliver cloud solutions that will enable telecommunications service providers to transform their data centers. The companies will develop the next generation of Huawei's FusionSphere based on Intel® architecture, and will also utilize the Data Plane Development Kit (DPDK) and OpenvSwitch to increase network virtualization performance of FusionSphere. These solutions will deliver enhanced performance and efficiencies that are optimized to minimize TCO for cloud workloads in a scalable and secure manner.

SK Telecom* - SK Telecom and Intel are extending their existing collaboration on vRAN development to include 5G Cloud RAN advanced technology development. At Mobile World Congress, the two companies are demonstrating a 5G advanced technology 'Anchor – Booster Cell' which showcases how to simultaneously deliver a high quality of voice and data via a combination of an LTE network and next generation wireless LAN. This enables operators to deliver faster subscriber speeds and greater wireless network capacity for an improved user experience. Intel® technology serves as a high performance



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compute foundation as SK Telecom builds out their vRAN solution with anchor booster technology. The demonstration can be found in Intel's booth at Mobile World Congress.

Intel showcases new network transformation developments with industry leaders.

Orchestrated end-to-end NFV scenario with Brocade*, Cyan*, Red Hat* and Telefonica* demonstrates how an advanced and multi-vendor implementation of the ETSI ISG NFV architecture with intelligent orchestration of resources is capable of providing carrier grade performance when a regular cloud infrastructure is insufficient.

Speech transcoding with Artesyn Embedded Technologies* and Vantrix* shows new voice codec capability on Intel® Architecture Processors that delivers up to three times the speech transcoding capability of existing purpose-built media processing platforms. This brings efficiencies to session border control, WebRTC and VoLTE applications in operator networks and enterprises.

Virtual Border Network Gateway (vBNG) with China Telecom* showcases programmable forwarding capability based on the Intel® Open Networking Platform and open source software solutions such as Openstack, OpenDaylight and DPDK. China Telecom will be using this vBNG solution in a trial in the Guangdong province of China.

Virtualized small cell gateway and Cloud RAN solutions from China Mobile* help the industry more quickly rollout NFV deployments. The solutions are being shown in China Mobile's booth at Mobile World Congress and are running on Wind River* Titanium Server technologies and the Intel® Xeon® processor.

Altiostar* NFV Cloud RAN Solution allows mobile operators to deliver superior quality of experience with significant cost savings. The Altiostar solution utilizes the Wind River Titanium Server software platform for its software-intensive intelligent eNodeB, and is running on the Intel® Xeon® processor to deliver greater levels of network performance.

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