



MWC '23 - Intel Booth, Onsite Demos

Fact Sheet

February 27, 2023 — Intel Corporation today showcased how the company is building on its years of leadership in network virtualization to enable a cloud-native vision, from the 5G network core to the virtualized RAN to the network edge. At MWC Barcelona we're showing innovative hardware, software, and ecosystem solutions to drive a more sustainable, agile future.

Intel Booth Demos

Delivering Energy Efficiency with Cloud RAN

Ericsson Cloud RAN, a cloud-native software solution handling compute functionality in the RAN, saves additional power using P and C states built into the 4th Gen Intel® Xeon® Scalable processor with Intel® vRAN Boost without compromising quality or performance.

Scalable Software-Based Multi-RAT 2G/4G/5G vRAN

This demonstration showcases Samsung's vRAN solution that enables operators to consolidate their 5G, 4G and 2G networks on to single virtualized commercial server and run all of these radio access technologies (RATs) simultaneously on a 4th Gen Intel Xeon processor.

4th Gen Intel® Xeon® Scalable Processor with Intel® vRAN Boost

See a demonstration of 2x capacity gains¹ based on the new 4th Gen Intel® Xeon® processor with Intel vRAN Boost.

Breakthrough 5G Core Performance and Power Savings

New 4th Gen Intel® Xeon® Scalable processors now provide the industry's first 1 Tbps³² of performance for the 5G UPF workload with a single dual socket server, and Intel® Infrastructure Power Manager for 5G Core software delivers an average power savings of 30% power².

Accelerating Virtual Cell Site Router with FPGAs

A flexible, accelerated virtual cell site router (vCSR) with programmable hardware acceleration—running on an Intel® Smart Network Interface Card (SmartNIC) based on the Intel® FPGA SmartNIC N6000-PL Platform—can enhance accuracy, reduce latency, and optimize power and cost.

High Timing Accuracy for Emergency Response Services

The increased timing synchronization accuracy of the Intel® Ethernet Network Adapter E810-XXVDA4T and Intel® Ethernet Network Adapter E810-CQDA2T makes it easier for responders to pinpoint location in emergencies.

¹ Estimated as of 12/06/2022 based on 4th Gen Intel® Xeon® Scalable processor as compared to 3rd generation Intel Xeon Scalable at similar core count, socket power, and frequency, using a FlexRAN test scenario. Results may vary. Performance varies by use, configuration and other factors. Learn more at www.intel.com/PerformanceIndex

² Tested by Intel as of 01/26/23.

1-node, 2x Intel(R) Xeon(R) Gold 6438N CPU, 32 cores, HT On, Turbo Off, Total Memory 512GB (16x32GB DDR5 4800 MT/s [4000 MT/s]), BIOS EGSDCRB1.SYS.0090.D03.2210040200, microcode 0x2b0000c0, 2x Intel E810-2CQDA2 (CVL, Chapman Beach, Total – 4x100G ports), 1x 223.6G INTEL SSDSC2KB240G8, 1x 745.2G INTEL SSDSC2BA800G3, Ubuntu 22.04 LTS, 5.15.0-27-generic, GCC 7.5.0, DPDK 22.11

**Delivering 5G Zero Trust Access with SASE**

This demonstration showcases a secured multi-access edge computing (MEC) 2.0 point of presence (POP) over private 5G for a smart marine ports internet of things (IoT) application.

Monetizing 5G with Converged Edge Media Platform

Converged edge media platform is a reference architecture that brings together multiple latency-sensitive and bandwidth-intensive visual services on an easy-to-deploy, edge-optimized, cloud-native infrastructure that helps maximize return on investment (ROI) and helps minimize the hardware footprint. This demonstration shows the functionality of running multiservices for diverse media applications at the edge.

Expand 5G Services—Connected Frictionless Checkout

Reliable network infrastructure and frictionless technology like Intel-powered UST Vision Checkout can offer retailers secure, low-latency 5G connectivity to help improve customer experience and reduce checkout line frustration.

Expand 5G Services – Smart Manufacturing

Intel introduces flexibility for Industry 4.0 manufacturing by demonstrating how an industrial private 5G network and distributed edge computing can enable smart factories.

Hyperscaler Services for Operators

The Microsoft Azure Operator Distributed Services (AODS) platform is an Azure-driven lifecycle management system for network fabric, bare metal infrastructure, and virtual machines that enables communications service providers (CoSPs) to provision network functions securely on-premises.

About Intel

Intel (Nasdaq: INTC) is an industry leader, creating world-changing technology that enables global progress and enriches lives. Inspired by Moore's Law, we continuously work to advance the design and manufacturing of semiconductors to help address our customers' greatest challenges. By embedding intelligence in the cloud, network, edge and every kind of computing device, we unleash the potential of data to transform business and society for the better. To learn more about Intel's innovations, go to newsroom.intel.com and intel.com.

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