Mobile World Congress 2024

Intel Booth, Onsite Demos Fact Sheet

February 26, 2024 — Intel Corporation today announced breakthrough innovations across a full spectrum of new hardware, software and services – bringing AI Everywhere – for the network, edge and enterprise. At its technology showcase visitors will see and hear from ecosystem customers and partners about how innovations and collaborations create modern networks and opportunities for 5G monetization at the edge and bring AI across organizations making an impact across industries.

Cloud RAN at Scale
This demo highlights Ericsson’s cloud (radio access network) RAN capacity roadmap as the company transitions to 4th Gen Intel® Xeon® processors with Intel® vRAN Boost and showcase how it leverages the benefits of the processors’ new 64-bit Intel AVX 5G instruction set and integrated virtual RAN (vRAN) boost acceleration.

Improving vRAN Energy Efficiency
Samsung demonstrates power-saving technology through real-time driven C-states control on 4th Gen Intel Xeon processors with Intel vRAN Boost and the Wind River Studio containers-as-a-service (CaaS) platform.

40% Power Savings in the 5G Core Network
Nokia showcases its validated and commercially available 5G Packet Core software optimized on 4th Gen Intel Xeon processors. It uses Intel® Infrastructure Power Manager software to achieve greater than 40% power savings and 30%-plus performance improvement.

Breakthrough Rack Density with Sierra Forest
Operators can maximize rack density with future Intel® Xeon® processors (code-named Sierra Forest) with 144 E-cores optimized for power and total cost of ownership (TCO).

Accelerating AI Benefits for Open vRAN
The Intel vRAN AI Development Kit includes a suite of AI models optimized for vRAN use cases built on top of Intel-optimized libraries, frameworks and tools like the Intel® Distribution of OpenVINO™ Toolkit. Operators and developers can use the models to build, train, optimize and deploy AI in their networks to save costs, maximize the value of their infrastructure investment and support new revenue streams.

Deploy and Scale Media Services at the Edge
The Intel Converged Edge Media Platform is a reference architecture that provides container-based, cloud-native foundational capabilities for providers to deploy multiple media services quickly, efficiently and cost-effectively to capitalize on the fast-growing edge computing opportunity.
Easily Deploy and Scale Secure Network Edge
The Intel® NetSec Accelerator Reference Design enables developers to provide additional compute and network resources for NetSec workloads deployed at the edge in an agile, flexible and economical manner.

Industrial-Grade, Compact Private 5G
Nokia leverages 4th Gen Intel Xeon processors with Intel vRAN Boost and the Intel® FlexRAN™ reference architecture to create the optimized form factor for private 5G solutions. This compact solution accelerates deployments across vertical markets while lowering capital expenditures (CapEx) and operating expenditures (OpEx).

FPGAs for 5G-Advanced RAN mMIMO O-RU, P4 Edge
The Intel mMIMO open radio access network (O-RAN) Enablement Package provides a fully O-RAN-compliant radio for customers to expedite radio development with a functional beamforming workload to modify for their needs.

Scaling the Edge with Intel's Edge Platform
Intel's new edge-native commercial software platform enables enterprises to build, deploy, run, manage and scale edge and AI solutions on standard hardware with cloud-like simplicity.

Build the Future Together with Intel Foundry
IFS is the world's first systems foundry for the AI era. Come to see combined offerings, how Intel helps customers build their innovative silicon designs and where it delivers full end-to-end customizable products.

Industry 4.0 with Intel's Edge Platform and AI
This demo showcases Intel's Edge Platform in partnership with Wipro in an industry 4.0 use case using standard hardware

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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