ENEA

PRESS RELEASE

Enea to Demo Unique Linux Real-Time Acceleration at Mobile World Congress Shanghai

Solution based on Xilinx Zynq UltraScale+ Reduces CAPEX, Improves Performance and Facilitates Migration to C-RAN

STOCKHOLM, Sweden, June 25, 2018 Enea® (NASDAQ OMX Nordic: ENEA) today announced a demonstration of a real-time accelerated Linux solution at Mobile World Congress Shanghai, taking place June 27-29. The solution, suitable for 5G and C-RAN (Cloud-RAN), reduces CAPEX and improves performance thanks to efficient hardware utilization. The demo leverages a reference design using the Xilinx Zynq UltraScale+ platform.

The showcased solution combines a standard Linux environment with a real-time domain. This is perfectly in line with runtime needs in the Radio Access Network (RAN), where low-level functions require both determinism and high performance, while higher protocol layers that have more relaxed real-time requirements can run standard Linux. Enea's real-time accelerated solution allows these functions to be consolidated onto the Cortex A cluster of the Xilinx Zynq UltraScale+ System-on-Chip (SoC). The result is a highly flexible design, where functionality is decoupled from hardware.

This flexible solution uses the same runtime environment on both sides of the Central Unit (CU) / Distributed Unit (DU) split, which facilitates a gradual evolution of the RAN, with a smooth and phased migration of functions from a distributed to a centralized or cloud architecture (C-RAN).

Enea's real-time accelerated Linux solution is a framework combining standard Symmetric Multi-Processing (SMP) Linux with a real-time executive, on top of a type 0/1 hypervisor which provides bare metal access to the real-time environment and fast inter-process communication between the domains. Intended for homogenous multicore processors, it allows the number of cores allocated to the real-time and Linux domains to be configured at boot time.

The reference implementation on display at Mobile World Congress Shanghai is running on Xilinx Zynq UltraScale+, a versatile SoC with a quad-core ARM Cortex-A53 as the main processor, targeting high performance applications including 5G and C-RAN.

More information:
- Enea at MWC Shanghai: Booth #N1F73, Hall N1, https://www.enea.com/about-us/events/mobile-world-congress-shanghai-2018/

- Enea real-time accelerated Linux solutions: https://www.enea.com/products/operating-systems/real-time-accelerated-linux/
- Xilinx Zynq UltraScale+ platform: https://www.xilinx.com/products/silicon-devices/soc/zynq-UltraScale-mpsoc.html

About Enea

Enea develops the software foundation for the connected society. We supply NFVI software platforms, embedded DPI, real-time operating systems, video traffic management, cloud data management, and professional services. Solution vendors, Systems Integrators, and Service Providers use Enea to create new networking products and services faster, better and at a lower cost. More than 3 billion people around the globe already rely on Enea technologies in their daily lives. Enea is listed on Nasdaq Stockholm. For more information: **www.enea.com**

Media contacts

Erik Larsson
SVP Marketing & Communication, Enea
Phone: +33 1 70 81 19 00
E-mail: **erik.larsson@enea.com**