ASOCS Virtualized Base Station Solution Gets a Boost from Xilinx FPGAs to Accelerated Time to Market

February 25th, 2015 – Rosh Haayin, Israel – ASOCS Ltd, a solution provider of virtual Base Stations (vBS), uses Xilinx Virtex-7 FPGAs and solutions to accelerate time to market of its virtual Base Station (vBS) solution.

The exponential growth of handsets, tablets and new set of connected devices such as smart watches, eye-glasses combined with the massive, high-bandwidth video usage resulting high interference in Radio Access Networks (RAN) and poor spectrum efficiency. ASOCS is using Xilinx Virtex-7 FPGAs to shorten time to market, and enable high performance, L1 hardware acceleration for its fully virtualized and programmable wireless Base Station solution, enabling next generation 4G and 5G interference mitigation and radio access technologies (RAT), cloud radio access networks (Cloud-RAN) and cloud self-organizing networks (C-SON) solutions.

The virtual Base Station (vBS) solution is designed in accordance with the ETSI NFV framework, decouple and virtualize, all software and hardware resources including the Base Station L1/PHY software, x86 compute, and hardware acceleration (HWA) platform to process real-time, signal processing type of workload. ASOCS's proven advanced Modem Processing Unit (MPU) solution and Modem Programing Language (MPL) for baseband and Signal-processing as a Service (SPaaS) applications, combined with Xilinx FPGAs and technologies present a fully virtualized and programmable Base Station solution that address today and future radio access networks (RAN) requirements.

"ASOCS's virtual Base Station, enables the realization of end to end, fully virtualized networks, from core to edge," said Eran Bello, ASOCS VP Products & Marketing. "virtual Base Stations will enable improved network performance, coverage and capacity and be deployed in numerous network configurations including: Cloud - Radio Access Networks (Cloud-RAN), traditional Macro cell sites, In-building/Outdoor Distributed Antenna System (DAS) deployments and even Small Cells implementations. Using Xilinx FPGAs and solutions enable us to support our early customer engagements faster while offering us maximum flexibility to address their needs."

"Emerging virtual Base Stations require high performance and programmability, while delivering low cost and power," said David Hawke, director of wireless communications at Xilinx. "ASOCS has leveraged the high performance processing of Xilinx 7 series FPGAs to implement multi-sector layer 1 baseband processing acceleration by implementing the Modem Processing Unit Hardware Accelerator (HWA) on an FPGA, enabling high performance and fast time to market with full hardware and software flexibility."

About ASOCS

Founded in 2003 and headquartered in Rosh Haayin, Israel. ASOCS is a pioneer in development of virtual Base Station (vBS) solutions enabled by its Modem Processing Unit (MPU), designed to meet current and future Multi - Radio Access Technologies (Multi-RAT) requirements. ASOCS enables the highest possible capacity baseband solution for next generation network topologies such as Cloud - Radio Access Networks (Cloud-RAN) and other wireless infrastructure cells, from small to macro and beyond. For more information, visit www.asocsnetworks.com.

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