

Press Release

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Altran Mobile Fronthaul Gateway Solution Accelerates 5G Deployment with Intel Technology

Mobile operators can accelerate their 5G network buildout thanks to an integrated software framework based on Intel data-centric technology

Altran, global leader in Engineering and R&D services (ER&D), has created an industry-first disaggregated fronthaul framework based on Intel field programmable gate arrays (FPGAs) that will enable wireless carriers and network equipment manufacturers (NEMs) to accelerate large-scale 5G fronthaul deployment in a scalable manner. The framework was demoed Oct. 22-24 at the *Mobile World Congress Los Angeles*.

“5G fronthaul networks must dovetail with the wireless ecosystem, and Altran is uniquely positioned to address the diverse requirements of 5G with expertise and software assets across the digital stack and the mobile infrastructure,” said **Dominique Cerutti, Chairman and CEO of Altran**. *“And our decade-long strategic partnership with Intel helps us build ready-to-deploy solutions that can dramatically accelerate time to market for our OEM customers.”*

Altran’s Fronthaul Gateway software framework enables radio aggregation from CPRI and eCPRI interfaces for transport over Ethernet networks using IEEE 1914.3 RoE and eCPRI. The framework satisfies demands for low-latency transport and stringent quality of service (QoS), with support for time-sensitive networking (TSN) and telecom timing profiles. Support for the ORAN management plane with NETCONF/YANG and REST application programming interfaces (APIs) enables advanced software defined networking (SDN) capabilities and full programmability. Using Intel’s FPGA with Altran’s Fronthaul Gateway framework, original equipment manufacturers (OEMs) can speed up 5G fronthaul deployment and support new use cases.

The framework also supports full carrier Ethernet features with operations, administration and maintenance (OAM) and protection. It includes IPv4/v6 routing, IP virtual private networks (VPNs) and Ethernet VPN (EVPN) with multiprotocol label switching (MPLS), segment routing and a variety of transport options for deployments that combine fronthaul, mid-haul and backhaul capabilities.

“Intel FPGAs deliver flexible, programmable acceleration which enables the 5G ecosystem, spanning from virtual BBU to fronthaul gateway appliances and radio units,” said **Patrick Dorsey, Vice President of FPGA and Power Product Marketing at Intel**. *“Intel has invested and delivered solutions that span silicon devices, intellectual property and tools which, in collaboration with innovators like Altran, enable fast time to market of hardware-accelerated 5G fronthaul solutions.”*

For more information on Altran’s work with semiconductor companies, please visit <https://northamerica.altran.com/industries/semiconductors>.

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About Altran

Altran ranks as the undisputed global leader in engineering and R&D services. The Group offers clients an unmatched value proposition to address their transformation and innovation needs. Altran works alongside its clients, from initial concept through industrialization, to invent the products and services of tomorrow. For over 30 years, the company has provided expertise in automotive, aeronautics, space, defense & naval, infrastructure & transportation, industry & consumer goods, life sciences, communications, semiconductors & electronics, software & internet, finance and the public sector. The Aricent acquisition extends this leadership to semiconductors, digital experience and design innovation. Altran generated revenues of €2.9 billion in 2018, with nearly 47,000 employees in more than 30 countries. For more information, please visit www.altran.com.

Contact**Stéphanie Bia**

Group Vice-President Investor Relations and Communications

Tel: + 33 (0)1 46 41 72 01

stephanie.bia@altran.com