

Fujitsu Releases Expanded Smart xHaul Solution for 5G Transport Networks

Open transport ecosystem empowers pay-as-you-go network transformation

RICHARDSON, Texas — March 5, 2019 — [Fujitsu Network Communications](#), Inc. today unveiled an expanded [Smart xHaul](#) transport solution to accelerate seamless and efficient evolution to 5G networks. The complete solution, offered in collaboration with HFR Networks, Inc. and Volta Networks, enables 5G transport networks to leverage legacy 4G Centralized Radio Access Network (C-RAN) fiber transport and cell sites. This advanced transport ecosystem offers an open, disaggregated, pay-as-you-go architecture for fast and efficient scaling to 5G services and edge computing, while also lowering the transport service cost per bit.

“Expansion of the Smart xHaul transport solution in partnership with a broad ecosystem is yet another demonstration of Fujitsu’s commitment to advancing open 5G architecture. Fujitsu is a member of several industry organizations working to develop open networks, including active participation in the O-RAN Alliance,” said Paul Havala, head of the optical business unit for Fujitsu Network Communications, Inc. “Our disaggregated architecture solutions offer a more flexible approach to network evolution for greater performance and cost efficiency with minimal risk when aggregating and transporting 5G services.”

The Fujitsu Smart xHaul solution delivers automation and network programmability through SDN control with open interfaces and enhanced telemetry data collection, analytics and AI-based network self-optimization. This comprehensive new 5G solution consists of several key elements:

Intelligent Fronthaul

The expanded Fujitsu Smart xHaul transport solution incorporates new intelligent fronthaul platforms for centralized and cloud-based RAN architectures leveraging next-generation Packet RAN access technology by HFR Networks. The M6424 Time-Sensitive Networking (TSN) aggregation and transport switch series supports interfaces for CPRI, eCPRI and Ethernet services. This temperature-hardened, one rack unit solution supports 24x multi-rate client ports at up to 25G operation for 4G, 5G and Ethernet service coexistence, along with 4x 100GbE network ports offering multiple topologies. With high-precision timing, TSN offers synchronization to the cell site remote radio, while maintaining low latency variation for aggregated 4G and 5G traffic by preempting Ethernet and Internet services. In addition, the M6424-R O-RAN compliant Fronthaul Gateway platform includes a PHY-LOW networking interface that significantly improves bandwidth efficiency and enables multi-vendor interoperability between legacy and new base station

equipment. With this solution, a 5G overlay is not needed on existing 4G transport networks, helping to reduce total costs and speed time to market of lucrative new 5G services.

Disaggregated Cloud Control Plane

A cloud-based control plane architecture provided by Volta Networks is integral to the new Smart xHaul solution. The virtual routing engine in the cloud combined with agent software on the [1FINITY S100](#) Switch platform, enables service providers to realize full routing capabilities optimized to their specific application without the limitations and excessive cost structures of legacy, monolithic routers and transport elements. Disaggregating the control and user planes allow scale out via linear resource scaling versus scaling up to a limit with integrated control and user planes. As a result, the solution provides pay-as-you-go efficient scaling to address initial migration from 4G to 5G, as well as diverse 5G multiservice operation using network slicing, for greater intelligence, scalability and cost-efficiency without network overlays.

Network Slicing

New 5G services will have diverse performance requirements to address a range of use cases. To cost-effectively satisfy these requirements in one network, Fujitsu enables network slicing operation with the Smart xHaul solution. The solution leverages Fujitsu [1FINITY S100](#) transport switches for midhaul and backhaul transport, providing enhanced network slicing and cloud control segment routing to reduce operational complexity, increase scalability and deliver better infrastructure utilization versus traditional routers.

For more information about the latest Fujitsu Smart xHaul transport solution, visit Fujitsu in Booth #2539 at the OFC Conference and Exhibition, to be held March 3-7, 2019, in San Diego.

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About Fujitsu

Fujitsu is the leading Japanese information and communication technology (ICT) company, offering a full range of technology products, solutions, and services. Approximately 140,000 Fujitsu people support customers in more than 100 countries. We use our experience and the power of ICT to shape the future of society with our customers. Fujitsu Limited (TSE: 6702) reported consolidated revenues of 4.1 trillion yen (US \$39 billion) for the fiscal year ended March 31, 2018. For more information, please see www.fujitsu.com.

About Fujitsu Network Communications Inc.

Fujitsu Network Communications, Inc., is a trusted partner to a broad spectrum of customers across all industries, enabling them to realize the maximum value from their communications networks. We are a market-leading U.S.-based manufacturer of network equipment and a top U.S. patent holder in optical networking. Our

solutions combine the best wireline, wireless, and software technology with extensive multivendor services expertise to deliver custom, end-to-end network integration and management solutions. For more information, please see <http://us.Fujitsu.com/telecom>, connect with us on LinkedIn at www.linkedin.com/company/Fujitsu-network-communications, and follow us on Twitter [@FujitsuFNC](https://twitter.com/FujitsuFNC).

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About HFR, Inc.

HFR, Inc.(KOSDAQ: 230240) is a leading global provider of mobile and home access networking solutions with a portfolio of fronthaul, backhaul, RF radio, DAS, broadband and smart premises solutions. We want to help people get connected and deliver innovation needs of 5G and 10 gigabit internet solutions, today and for the coming years. Communication Service Providers rely on our platforms to help them monetize the complex mobile, home and business infrastructure. For further information on HFR solutions, go to www.hfnet.com.