



News from RFS

February, 23rd, 2017

RFS Focuses on the Transformation of the Telecommunication Landscape and Easing the Transition for Customers from 4G to 5G at Mobile World Congress Barcelona



Nozay (France), February 23, 2017 – [Radio Frequency Systems](#) (RFS), a global designer and manufacturer of cable, antenna and tower systems providing total-package solutions for wireless and broadcast infrastructure, will feature the evolution of its innovative wireless solutions for mobile communications at Mobile World Congress in Meeting Room 4C50EMR, Hall 4.

RFS experts recognize the on-going deep transformation of telecom networks moving towards HetNet. 5G is coming, the Internet of Things and Smart Cities are emerging but at the same time 4G networks continue to evolve with new frequencies and new technologies such as more and more complex MIMO schemes. These demanding shifts are leading to more and more challenges for operators, both to generate more revenue and to decrease their Total Cost of Ownership (TOC).

RFS is developing solutions to help operators to implement a smooth transition from 4G networks to 5G. During this transition, the complexity of deploying telecom sites, both outdoors and indoors, will continue to increase. “Our goal is to make it as simple as possible”, said Emmanuel Saint-Dizier, VP Strategy and Portfolio. “RFS is committed to providing customized solutions and equipment that customers need. RFS is not only an equipment supplier; we are an integrated solution provider. We are here to listen and assist our customers as a total-solution partner.”

RFS will focus its efforts on generating revenues and costs savings for operators, which will become increasingly important as the evolution to heterogeneous networks continues. In late 2016, RFS introduced its Common Public Radio Interface (CPRI) panel which enables easy RF over CPRI testing at the bottom of the tower, reducing the need for unnecessary tower climbs and minimizing maintenance costs along with carving the path for C-RAN and supporting network densification. As outdoor sites become more and more complex, C-RAN enables the coordination between a mixed network (Het-Net) that combines small cells to improve the coverage and traditional macro to increase capacity provided by base stations. In the network, several small cells can be distributed within the area covered by a macro cell, sharing the same frequency bands, to fill in the gaps in coverage and to provide extra capacity. The process of organizing macro cells and small cells is called SON- Self Organizing/Self Optimization Network. This becomes critical when more macro and small cells are introduced into the structure in a process known as densification. The efficient use of SON can both reduce OPEX and increase capacity.

To further support the complex macro environment, the RFS end-to-end outdoor portfolio will broaden in 2017 with new product introductions such as a 14-port RF X-TREME base station antenna that will include L-band, an AISG Site Sharing Manager, an L-band triplexer and a dual band X-Haul microwave antenna. Just last month, RFS announced a new range of Lithium-ion Batteries with NMC technology. The batteries can be used at RAN/C-RAN sites to ensure RRH operation and network



availability during power grid outages; at independent, self-sustaining sites sourced by renewable energies; and for powering of temporary sites without connectivity to a power grid or fuel generators. As the world's leading integrated communications solutions provider, RFS has an eye on 5G in its innovation lab with several notables such as active antennas for massive MIMO, x-haul microwave antennas in 140GHz (for wireless throughput > 10Gb/s) and the continued investment in a range of modular urban telecom infrastructure introduced in 2016, including its Smart Pole solution, a highly modular platform enabling small cell deployment that combines wireless coverage, intelligent lighting, green power and smart sensors. A field-trial of our newly deployed Smart Tree is underway.

"RFS continues to lead the industry in developing technological innovations to enable increasingly sophisticated telecom and broadcast communications. RFS is ready for the next transformation of the telecommunication industry by pioneering technologies to usher in the new age of smart cities and IoT," Herbert Merz, RFS CEO said. "At MWC Barcelona, we are pleased to highlight our recent innovations, as well as our ability to provide state-of-the-art solutions for communications and rapidly-developing new-age technologies for global markets." He adds, "Ultimately, RFS must meet the needs of our customers by reducing delivery time, improving product quality, reducing costs, adapting to changes in the market, and accelerating product innovation and updates."

Meet Herbert Merz and the RFS team of experts at Mobile World Congress 27 February to 2 March, Fira Gran Via, Meeting Room 4C50EMR, Hall 4. Contact [Lea Gahl](#) to setup a meeting time slot.

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About RFS

Radio Frequency Systems (RFS) is a global designer and manufacturer of cable, antenna and tower systems, plus active and passive RF conditioning modules, providing total-package solutions for outdoor and indoor wireless infrastructure.

RFS serves OEMs, distributors, system integrators, operators and installers in the broadcast, wireless communications, land-mobile and microwave market sectors. As an ISO compliant organization with manufacturing and customer service facilities that span the globe, RFS offers cutting-edge engineering capabilities, superior field support and innovative product design. RFS is a leader in wireless infrastructure.

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RFS Press Contact

Paula Mennone-Preisner
Marketing and Communications Specialist
E-mail: paula.mennone@rfsworld.com
Phone: + 1 203 630 3311
Cell: + 1 203 715 1595