



RFS and ANSYS Lay Foundation for 5G-ready Antennas

RFS standardizes on ANSYS simulation solutions, slashes simulation time from four days to one hour



Lannion, May 27 - Cutting-edge 5G antennas pioneered by [Radio Frequency Systems \(RFS\)](#) will soon connect people, machines and devices more reliably and faster than ever thanks to [ANSYS](#) (NASDAQ: ANSS). Standardizing on ANSYS simulation solutions enables RFS engineers to slash simulation time from four days to one hour — speeding their antennas to market and driving global adoption of 5G.

Antenna designers must satisfy next-generation 5G standards, comply with a variety of demanding operator and country-specific requirements, and integrate 4G and 3G architectures for legacy users. Together, these specifications require hundreds of different designs to build the hundreds of thousands of antennas mounted on cell towers and building rooftops — ensuring maximum coverage for users worldwide.

ANSYS empowers RFS antenna architects to rapidly create designs across numerous frequency bands. Simulation automation rapidly validates new architectures and reduces the number of prototypes and measurement cycles. With ANSYS, RFS simulates at tremendous speed and scale, further empowering designers to fully explore and optimize 5G antenna performance.

"Evolving antenna design architecture from 4G to 5G is a monumental technological leap and places huge demands on hardware development. Our teams are motivated to conceptualize new designs faster than ever to provide guaranteed quality of service, the most important metric for communication systems," André Doll, chief technology officer at RFS.

"5G requirements move beyond fixed-beam, off-the-shelf 4G antennas, with next generation wireless technologies requiring signal and beam tracking, and significantly adding to the complexity of RF design. Using the ANSYS platform, RFS has been able to account for changes in beam direction and movement — while keeping the antenna radiation pattern completely intact. The result is a huge acceleration in the development of our highly reliable 5G antennas that will soon deliver maximum and quality coverage for wireless consumers worldwide."

"With ANSYS, RFS is creating 5G antennas that will power global 5G communications, delivering unmatched speeds and more reliable connections for applications ranging from smartphones to self-driving cars," said Sudhir Sharma, global industry director, high tech, ANSYS. ***"ANSYS efficiently and cost-effectively enables RFS to select their optimum antenna design, reduce the number of physical prototypes and comply with tight time-to-market deadlines."***



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 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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