

News Release

MAK Technologies and ISL Partner to Deliver Physically Accurate SAR Imaging for MAK ONE Synthetic Environments



Cambridge, MA, January 27, 2025 - MAK Technologies (MAK), a company of ST Engineering North America, and ISL, a leader in radar and radio frequency simulation, today announced a partnership to develop RFView® for MAK ONE, a cutting-edge solution for generating physically accurate Synthetic Aperture Radar (SAR) images fully correlated with MAK ONE synthetic environments.

MAK will contribute its deep expertise in synthetic environments and modeling and simulation while ISL adds its four decades of innovation in radar simulation and analysis to the collaboration. RFView® for MAK ONE will use real-time GPU-based ray tracing to

produce physics-based SAR images, replicating the natural characteristics of real SAR imagery, including Gibbs ringing, foreshortening, SAR shadows, and complex multi-bounce effects.

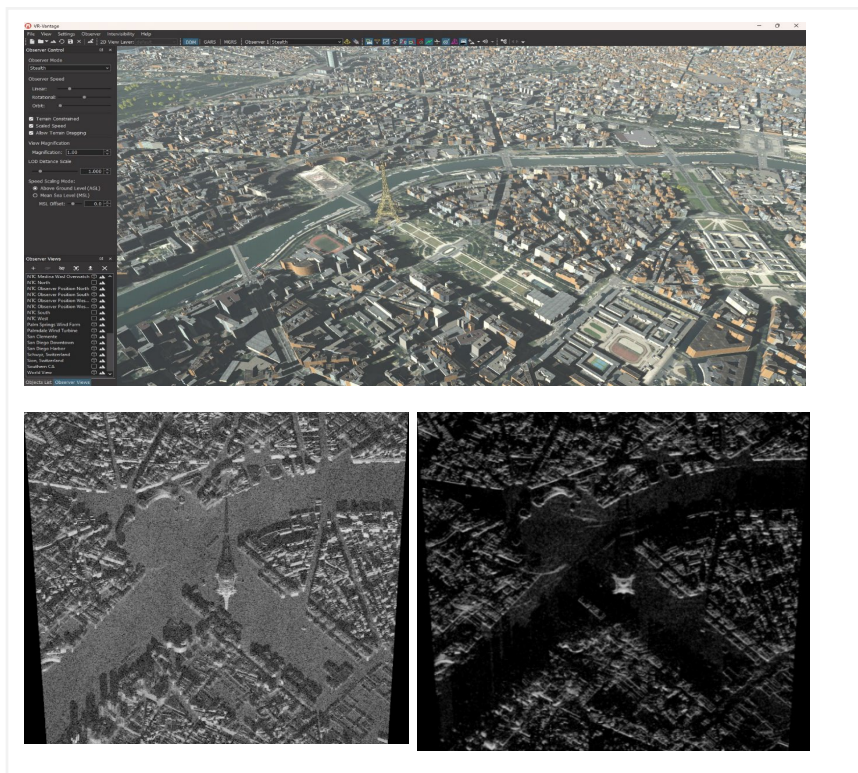
“By combining MAK’s ability to generate rich geo-specific 3D virtual worlds with ISL’s radar technology, we’re setting a new standard for simulated SAR image generation,” said Len Granowetter, Chief Technology Officer at MAK. “This partnership continues to expand the MAK ONE ecosystem with complementary technologies that enhance training realism and operational readiness.”

RFView® for MAK ONE will use MAK’s VR-Vantage Image Generator to provide 3D geometry and material data to ISL’s RFView® radar simulation based on the terrain and entities in a MAK ONE synthetic environment. This ensures that SAR images correlate precisely with out-the-window views and EO/IR sensor feeds rendered by other components of the MAK ONE system, including

procedurally generated terrain elements and dynamic changes to the terrain triggered by detonations or combat engineering events that occur in a simulation scenario.

“RFView® has long been used by radar engineers with high-fidelity requirements, but our latest versions meet the real-time needs of simulation and training users,” said Joe Guerri, CEO of ISL. “Our collaboration with MAK means we can run on the kinds of terrains, environments, and interoperability protocols required by these customers.”

To learn more about RFView® for MAK ONE, join us at the upcoming webinar on Tuesday, March 4 at [10:30am EST](#) or [9:00pm EST](#). You can also visit our website at www.mak.com/mak-one/apps/rfview-for-mak-one or reach out to info@mak.com for more details.



These images show correlated views of the Eiffel Tower area in Paris as part of MAK's VR-TheWorld Server global database: A VR-Vantage out-the-window view, and two correlated SAR images generated from different altitudes by RFView® for MAK ONE.

MAK Technologies, a company of ST Engineering North America, is a leading provider of military simulation technology and training systems. For more than 30 years, MAK has been a trusted supplier of the MAK ONE suite of Commercial-Off-the-Shelf (COTS) simulation software to governments, system integrators, and customers around the world. Using the strength and flexibility of the MAK ONE simulation platform, MAK excels as a partner and prime in developing tailored solutions to unique training challenges. MAK's end-user training systems built on MAK ONE are portable, easy to use and maintain, visually appealing, and able to meet individual and collective training requirements. Please visit <http://www.mak.com> for more information.

ST Engineering North America is the U.S. headquarters of ST Engineering, a global technology, defense and engineering group with a diverse portfolio of businesses across the aerospace, smart city, defense and public security segments. Based in Alexandria, VA, it has major operations across 16 cities in 12 states and employs about 5,000 people providing innovative products and solutions to commercial and government customers across diverse market segments.

ISL is an innovative technology development company that specializes in creating real world solutions for commercial, national security and energy sectors. ISL designs, engineers and produces state-of-the-art products, as well as provide in-depth research and expert analysis for customers around the globe. In today's rapidly evolving world of complex challenges, ISL creates the customized solutions you need.

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