5G Network Demonstration Links I/ITSEC Displays

Kratos Defense & Security Solutions, Inc. [Booth 1322] is joining in a multi-domain, immersive training demonstration linking multiple vendor booths over 5G into a collective immersive whole. Real-world implications include the possibility of networking multiple components, each at its point of need, being networked together through 5G for joint training.

The I/ITSEC Exhibit Hall scenario involves a helicopter gunship directed by a ground-based forward observer pursuing a truck-mounted gunner adversary. Two immersive Holodecks in the Kratos booth – one for an UH-60 helicopter Aerial Gunner and one for a Forward Observer/Joint Terminal Attack Controller (JTAC) station – are connected to two partner booths; RTI [Booth 1307], where the UH-60 pilot flies the aircraft simulation in the Kratos booth, and Rave Computer [Booth 3018], in which an adversary truck-mounted gunner joins the collective training environment.

Kratos representatives say that the networking demonstration utilizes a Common Communications Architecture (CCA) that includes a Data Distribution Service (DDS) to integrate 5G Communications with its immersive training systems.

The capability for real-time distributed immersive training will be demonstrated across three booths at I/ITSEC, including partners RAVE Computer and Real-Time Innovations (RTI) [Booth 1307].

Company representatives describe CCA as a scalable, platform agnostic, data-centric architecture using open standards and a DDS to enable delivery of low latency, ultrareliable, secure communications across multiple networks, including 5G, satellite communications (SatCom) as well as public and private networks.