

Rajant Corporation Participates in Convoy Control System

Three day Situational Training Exercise hosted by US Army Transportation School

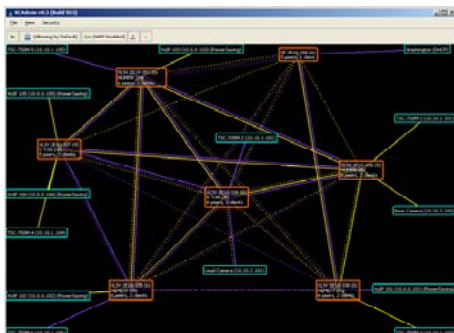


Rajant Corporation would like to thank its customers, partners, and hosts for a successful demonstration at Fort A. P. Hill. The three day Situational Training Exercise (STX) took place April 26th – 28th and was hosted by the US Army Transportation School. 56 Lieutenants in Basic School participated in four convoy situational exercises to demonstrate a Convoy Control System (CCS) that used Rajant's wireless LAN as the operational platform. Rajant Corporation's wireless LAN BreadCrumb® systems are portable, mobile, battery powered, self-integrating, self-meshing, self-healing, full duplex, secure, 802.11 access points.

Until now, there has been limited communications between all convoy vehicles and limited navigational aids to assist in controlling the convoy. The CCS is easy to use, mobile, and provides every vehicle commander with superior navigational and situational awareness. This system begins with an umbrella

broadband network that connects every vehicle with voice, video and data transmission while moving with the convoy. GPS enabled laptops loaded with mapping software, cameras streaming video and voice communications ride the moving network to allow for a fully integrated convoy. The system provides the ability to easily load convoy routes on all vehicle laptops. The location of every equipped vehicle in relation to its intended route is available to every other equipped vehicle, providing a cohesive view of the convoy.

The large scale demonstration used Rajant Corporation's wireless network, LESCO's tracking software, and ruggedized laptops by MilTope. LESCO's tracking software provided the convoy situational awareness, tactical military map, vehicle tracking, and route development. MilTope's laptops with wireless capability ran LESCO's software, Internet Explorer to view wireless camera data and a serverless chat client for real-time group communications.



BCAdmin Screenshot showing Network Configuration



MilTope Laptop



Convoy Preparation

There were twelve convoy vehicles in the exercise, six equipped with BreadCrumbs. Two wireless IP cameras were attached to the top of the convoy gun trucks and six Lieutenants were given Voice over Internet Protocol (VoIP) phones for wireless communications. Soldiers with VoIP phones were able to communicate back to the convoy after leaving the vehicles to engage the opposition force. When a convoy vehicle deviated from the planned route the CCS software was used to quickly verify the error and find the best way to reacquire the route. An extremely well received functionality was the ability for all vehicles with laptops to see the video footage streaming from the front and rear of the convoy, enabling the Lieutenants to see what engagement from the opposition force caused the convoy to stop. The Major in charge of the STX was able to view the chat log for the exercise and was able to verify what occurred and what the Lieutenants had communicated to each other during the exercise.

The Situational Training Exercise was deemed a success and Rajant Corporation is proud to take part in such an important solution for our military.



Convoy Box formation in clear and safe environment after enemy engagement to make needs assessment and damage report.



CH-46 to medivac injured soldiers from IED attach on convoy.

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