

SynQ: Europe Demo with UAV

Overview

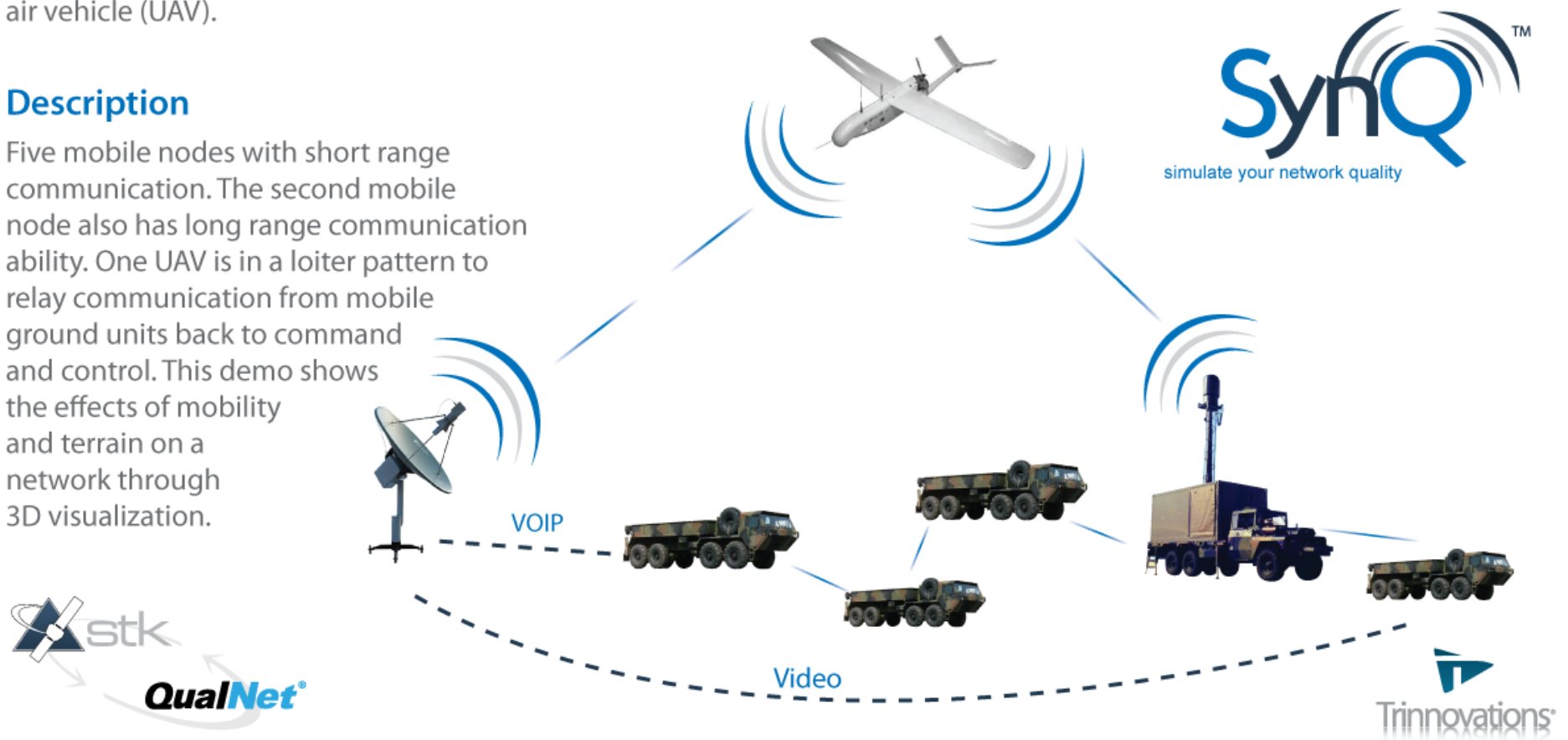
Demonstration of SynQ, STK, and QualNet integration, displaying mobile nodes relaying information to a centralized control center through a mobile unmanned air vehicle (UAV).

Description

Five mobile nodes with short range communication. The second mobile node also has long range communication ability. One UAV is in a loiter pattern to relay communication from mobile ground units back to command and control. This demo shows the effects of mobility and terrain on a network through 3D visualization.

Objective

Demonstrate the 3D capabilities of SynQ through visualization of network traffic in highly mobile systems.



SynQ: Timor Demo with Ships

Overview

Demonstration of SynQ, STK, and QualNet integration, displaying land, sea, air, and space assets communicating through restricted bandwidth links.

Description

One AWACS communicates through three military ships to a remote command-and-control center via satellite. A UAV loiters, gathering imagery and sending information back to command-and-control through a second satellite. This scenario has the addition of background traffic to show the effects of conflicting traffic over minimal bandwidth.

Objective

Demonstrate the ability of SynQ to use high fidelity mobility scenarios, and restrict communication by bandwidth, end-to-end delay, and motion.

