Rajant Corporation Participates in London Technical Exercise

Advanced Communications Brought To London Tube Station In Minutes

Wednesday June 28, 2006, roughly a week prior to UK's one year anniversary of the London 7/7 tube bombings, Rajant Corporation participated in a technical demonstration bringing interoperable Land Mobile Radio (LMR) communications, Internet access and streaming video to the Aldwych tube platform; six stories underground. Rajant partnered with Anvil Technologies, PrimeTech UK LTD, and Trilogy Communications LTD for the demonstration.

Anvil, as the technology integrator, brought technology partners together under the RECoN® umbrella to demonstrate the ease of deploying a broadband network six stories underground to the tube platform. Rajant provided advanced mesh networking units, each called a BreadCrumb®, which built a self forming, self healing broadband network from the street to the platform and all points between. PrimeTech's satellite truck provided world wide access to information and simulated command and control facilities. Trilogy's Mercury IP interoperable LMR systems provided the capability for UHF and

VHF radios to interoperate AND to operate on the platform where no radio signal existed prior to implementation of the emergency network. Combined, the RECoN capability set provided for an effective response and recovery network.

The Rajant BreadCrumb® network was deployed in minutes due to the highly advanced meshing algorithm which needs no administration to self form and begins working in less than a minute from deployment. The Rajant BreadCrumb® XL was used to build the link to the satellite truck a block away and begin the network inside the tube station. From the lobby we descended the 6 story spiral stair case with two Rajant SE units with magnetic mount antennas for rapid deployment as shown on the right.

The network was also extended to the bottom level by two Rajant ME units which operated down a lift shaft forming redundant links to the bottom. At the bottom, additional SE units were deployed to the platform creating a seamless broadband network from satellite link to platform. Anvil's flashlight camera streamed video of a simulated suspect package on the platform to observers in the lobby
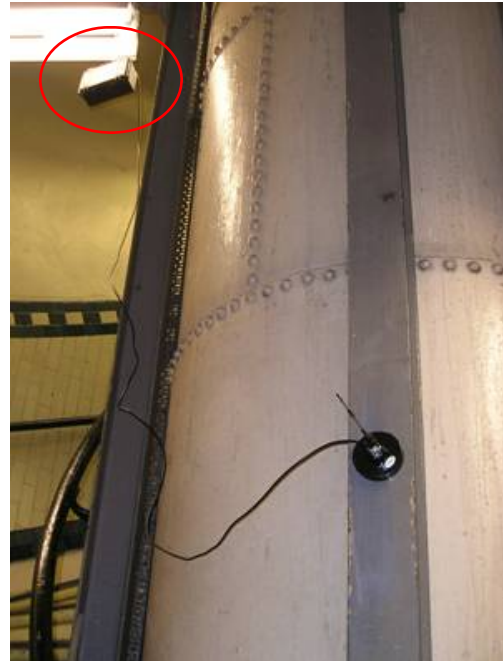

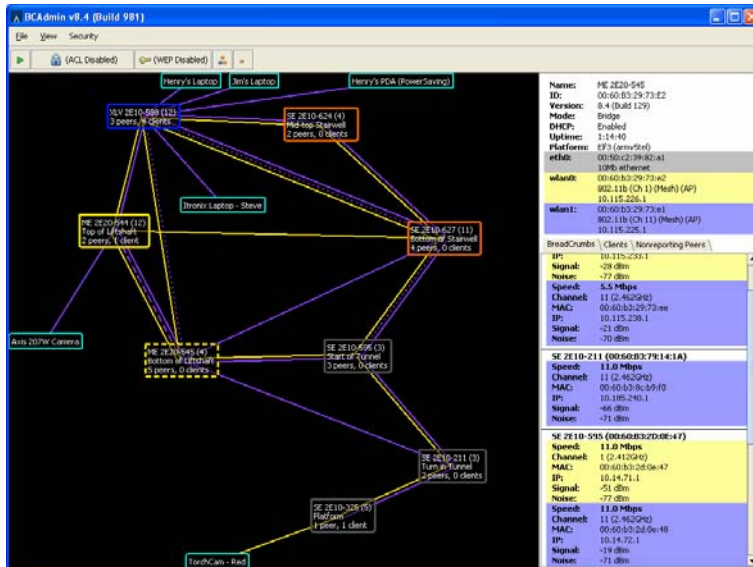BreadCrumb® XL linked to satellite truck one block away.

Briefing during the demonstration showing the BCAdmin tool for the BreadCrumb® network.

or anywhere in the world.

One of the most exciting capabilities was the deployment of Trilogy's Mercury IP interoperable LMR system. By networking a pair of man-portable units over the BreadCrumb® network, one in the lobby and one at the bottom, we were able to support interoperable UHF and VHF radio usage throughout the entire area, including the platform six stories under ground. Enabling public safety officials to use the tools they are most comfortable using during a crisis has invaluable benefit.

Jim Washington of Rajant noted, "We were very pleased to be part of this impressive demo. The capabilities brought together under the RECoN Banner should be of tremendous assistance in any prevention or response activities for London officials." The demo was well attended by many London public safety officials and much interest was generated.

Rajant BreadCrumb® SE hung from light fixture with magnetic mount antenna attached to steel girder.

Screenshot taken from BCAdmin, the Breadcrumb® network administrative tool, the day of the demonstration.

Flashlight camera streaming video of suspect package on platform floor. The video was available for viewing all over the instant network and via the Internet.

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