

The cellular push-to-talk and touch-screen location combination creates incredible flexibility in public safety communications, far beyond teh capabilities of existing networks, Jenkins said. To make a push-to-talk call, one simply clicks the icon representing the device. Need an instant talk group? Circle a group of device icons on the screen and create one. Need a private conversation between a fire chief and a police chief? Click two icons, and they have their own virtual private channel.

Clarity's push-to-talk technology is a commercial product in use today by mobile network operators. "We offer hosted push-to-talk services that they can deploy in their facilities, or we offer a hosted push-to-talk system that they can access over a [virtual private network connection] over the public Internet," Jenkins said. "All they have to do is just deploy the handsets and connect to our hosting center. Our easternmost customer is in Bermuda; our westernmost customer is in Guam."

The UMPC provides a much larger display capability than a typical cell phone or PDA, with an 8.4inch TFT LCD touch-panel screen with 800 \times 600 resolution and 256 colors. GPS location capability is preconfigured, while an EV-DO Rev.?A modem card plugs into the device to provide broadband connectivity.

While the UMPC is designed to be carried by a person or sit in a vehicle, the same basic software client can run on a desktop Windows PC with an Ethernet connection to provide emergency dispatchers and supervisors with the ability to locate and communicate with dispatched units. In addition, the client application can be ported to a number of different devices and operating systems, including increasingly capable smart phones that have built-in GPS capabilities.

A DHS official familiar with the project cited the potential cost benefits of using commercial 700 MHz cellular hardware in the future as compared to traditional LMR equipment. For instance, a Project 25 (P25) radio can cost anywhere from \$1000 to \$5000. With several national carriers slated to buy a large number of 700 MHz smart phones in the coming years at a price point of \$100 to \$200 dollars per phone "even volunteer firefighters can carry them," the official said.

Increased device capabilities and better affordability comes with some trade-offs, however. "One of the things we're testing is battery life," Jenkins said. "You would not expect a UMPC to have battery life similar to a cell phone or an LMR handset. You'll have a much shorter battery life."

Another goal will be to gain more real-world experience with the GPS capabilities in an urban environment. While GPS systems work fine in open areas, taller buildings can create an "urban canyon" effect, blocking reception of satellite signals to a receiver at ground level.

Of course, testing is the point of the pilot. "One of the benefits of what D.C. is doing [is] they're providing insight of what could work on a broader basis," Gurss said. "It's a little bit of a chickenand-egg problem. Unless you have technology and start to use it, it's hard to imagine what the applications are going to be. You can guess, but until you get there, it's hard to know."

Gurss and others are looking forward to ROW-B's second phase — scheduled to take place later this year — which will include a demonstration that links the 700 MHz cellular push-to-talk network to D.C.'s land mobile radio networks using the Bridging System Interface (BSI) standard developed by DHS and the National Institute of Standards and Technology's Office of Law Enforcement Standards. Another potential candidate for interoperability testing is the P25 Inter-RF Subsystem Interface (ISSI).

While ROW-B is being touted as a window to public safety's 700 MHz future, Clarity's solution is frequency-agnostic, according to Jenkins, who said the vendor is talking to a number of municipalities about the potential for porting Where2Talk onto existing radio networks.

"There's nothing in our solution that needs 700 MHz. We don't care," Jenkins said. "We can put this together for any band: cellular, non-cellular, 4.9 GHz, PCS and WiMAX and such. If it's packet data, we can operate on it."

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