

Announcement

At the 2012 Ground Robotics Capabilities Conference in San Diego, CA, Silvus Technologies proudly announced that it has been tapped by QinetiQ-NA to become an IP radio vendor for its TALON family of robots.

Silvus MIMO radios allow EOD technicians and Army Combat Engineers a quick add-on capability to TALONS currently fielded and provide them with ad-hoc radio capabilities for use in highly complex terrain.

The Silvus SC3500 dual band MIMO radio is a mobile ad-hoc mesh network IP based packet transceiver that delivers cutting edge technology and superior video/command/control data to the operator. It can scale to dozens of nodes in a network and provide an aggregate throughput in excess of 10 Mbps.

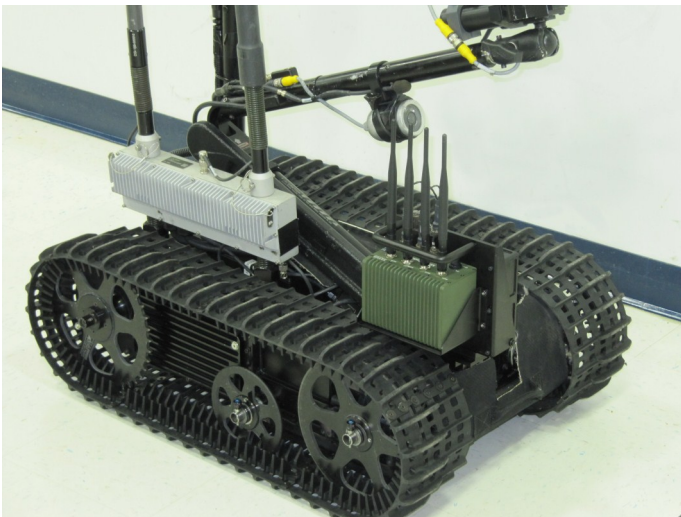


Figure 1. Silvus SC3500 MIMO radio integrated into TALON

Performance & Capabilities

- 2.8 km LOS point to point: 1 Watt TX / 3 dBi omni
- 500 m NLOS with repeater in field and dense urban terrain: 1 Watt TX / 3 dBi omni
- IP Based
- Mobile Ad-Hoc Mesh Network (up to 20 nodes)
- Up to 65 Mbps UDP, 50 Mbps TCP per link
- Dual Band (Currently S & C Band – other frequencies available upon request)
- Single Transceiver for all video/command/control data

Customer Feedback

“After a rigorous evaluation period, the Silvus radios exhibited the technical maturity and performance capabilities that our customers require, especially in challenging urban environments. We are pleased with the ease of use and integration into our existing robots.” – Nathan Desmeule, TALON Product Manager, QinetiQ-NA.

The TALON family of robots is used in a wide variety of scenarios, from reconnaissance to bomb disposal for both military and 1st responders and are deployed worldwide.

Benefits of Silvus Ad-Hoc Mesh Network

The Silvus SC3500 IP radio is a high throughput full duplex solution that allows multiple streams in either direction to be carried by the same radio. The SC3500 allows for a self-forming, ad-hoc mesh network, providing the user extended range of operation around multiple corners in dense urban and challenging field terrain. The same radio is used for the robot, OCU and repeater and can be easily swapped out or interchanged with each other.

OEM Approved

Silvus radios have been tested and approved for use by QinetiQ in their TALON robots.



Figure 2. Silvus SC3500 integrated into TALON OCU