Wireless Broadband Technology Demonstrator Project

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Public Safety Communications Research

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PSCR Sponsor and Acknowledgement

- Funding for the work presented was provided by
  - Department of Homeland Security (DHS)
  - Office for Interoperability and Compatibility (OIC) & Customs and Border Protection (CBP)

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PSCR Role in BAA 12-10

- DHS/OIC/CBP has requested the PSCR program to evaluate three vendor solutions for the Broad Agency Announcement (BAA 12-10) Demonstrator Project.
  - ❖ PSCR will use the established statement of work criteria for each vendor as the validation baseline
  - ❖ PSCR will provide a report of the results to DHS/OIC/CBP

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Wireless Broadband Technology Demonstrator

- **Description**
  - An enterprise-wide DHS initiative, led by S&T and Customs and Border Protection (CBP) to identify potentially viable solutions to upgrade the Department's existing land mobile radio (LMR) systems with wireless broadband capabilities.

  - Four Technical Topic Areas identified:
    1. Mission Critical Voice (MCV) over Broadband
    2. Video and Data to tactical user devices
    3. Remote Management
    4. Network Integration

- **Value**
  - Development of proof of concept technologies and an alternatives analysis for next generation tactical wireless communications equipment and systems to better inform future DHS communications procurements.

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Three Different Approaches

- MaXentric
  - Provides an attachable smartphone jacket to host and leverage existing LMR infrastructure
  - End users will be able to take advantage of broadband capabilities while still being able to use LMR infrastructure for mission critical voice
- Elbit
  - Maximizes the use of commercial off the shelf technologies by leveraging devices that can be dual purposed to retain common enterprise functionality while expanding capability to include LMR system interfaces and public safety broadband applications
- Interop-Solutions
  - Makes use of existing DHS CBP communications equipment (i.e., 42,000 Motorola XTS 5000 radios) to provide first responders the ability to switch between LMR and broadband networks through the touch of a button on a traditional shoulder microphone
  - Effort builds on a successful prototype

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Panelist Introductions

Per Johansson

MaXentric Technologies

David R. Pedersen

Elbit Systems

Gary Ruegg

Interop-Solutions

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For Additional Information:

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