

Narrative

Government Contract Number: DCA200-02-D-5010

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Department of Homeland Security Geospatial Wireless Solutions

Northrop Grumman Information Technology (NGIT) is developing through funding supplied by the Department of Homeland (DHS) an experimental security architecture targeted to support protection of the Transportation Security Administration (TSA) resources. As a result of advancements by Northrop Grumman IT in geospatial technologies and wireless technologies, the government and military are drastically enhancing their operations with geographic data and intelligence. The possibilities for integrating geospatial intelligence solutions into existing missions (especially those involving protection of transportation systems) to increase information and decision superiority are endless. Northrop Grumman is executing a contract with the DHS Wireless Management & DHS Geospatial Management Offices to integrate, capabilities of this integration include:

- Integrated Broadband Wireless Information Sharing Communications Platform
- Automated Vehicle & GPS Location Integration (AVL)
- Automated Route Planning
- Digital Topographic Support

This type of architecture is intended to increase the protection, security, and response capabilities of our local and federal homeland security officials. The system seeks to protect the assets and prevent terrorism at both the Miami airport and port. A proposed experimental mobile wireless network will cover the outdoor area from the Miami International Airport to the Port of Miami using three cell sites strategically located within the area of operations. A broadband cellular CDMA technology based on industry standards (ITU UMTS 3GPP TDD) has been selected to provide mobile wireless broadband connectivity to portable devices operated by agents in the field. Wireline connectivity among the field operations centers located at the Miami-Dade EOC, Miami International Airport, USCG at Fisher Island and the Port of Miami-CBP locations will be accomplished over the Miami-Dade County and Miami International Airport data networks. Backhaul of information to and from the TSOC in Virginia will be accomplished over the HSDN. Operational needs will determine the bandwidth requirements for the links to support the transport of data, imagery, video and other information.