

ATIC

Arizona Telecommunications and Information Council

A Foundation of the Governor's Strategic Partnership for Economic Development (GSPED)

PO Box 1119

Tempe, AZ 85280-1119

Voice/Fax: (602) 254-

5887

E-mail: atic@researchedge.com

URL: <http://atic.researchedge.com/>

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From: Oris Friesen

To: ATIC Board

Subject: DHS WIFI Status Report

This is the second monthly report to the ATIC Board on the DHS WIFI Security Project. It covers the activities performed within the last month following the first status report.

Objectives

Objective 1 – Provide Tier-1 connected wireless hot spot (IEEE 802.11x based telecommunications) wireless services with high availability between designated points in the vicinity of Green Valley and Rio Rico in southern Arizona with mobile access for first responders.

Objective 2 – Deploy layered and scaled security and advanced applications to existing wireless environments.

Objective 3 – Deploy advanced applications, to existing wireless environments, which are capable of attracting commercial users and which can act to provide commercial viability for the continuation of these Tier-1 connected wireless hot spot wireless services for a time period beyond the grant funding period.

Included Tasks

Task 1– Develop and Refine Conceptual Designs. (about 80% complete)

Develop and refine conceptual designs for providing wireless hot spot availability between designated points in the vicinity of Green Valley and Rio Rico in southern Arizona with mobile access for first responders. This task will be performed by WI-VOD with assistance from ATIC.

This task includes initial activities related to siting and making operational the antennas necessary to provide a wireless 30-mile corridor targeted to be up to one mile wide from Green Valley to Rio Rico.

Major Activities

- Focus on Phase 1: Provisioning the southern 10 kilometers of the corridor from Ruby Road to Peck Canyon Road.
- Defined a Local Network Aggregation Point (LNAP) at the Tubac Fire Station #2, which will serve as a primary backhaul point via wireless bridge to a point of presence to the Internet at a designated source in Tucson.
- The Tubac/Peck Canyon tower will provide primary local backhaul to access nodes located at Esplendor (Resort at Rio Rico)
- Locations for several Fill-in Nodes have been identified to account for “shadows” along the corridor.
- Demonstrated continuous VOIP mobile access using 4 temporary antenna nodes placed along the southern 10 kilometer portion of the corridor.

Task 2 – Verify Design, Assign Participants and Establish Evaluation Metrics. . (about 50% complete)

Work with ATIC to verify design, assign participants, establish evaluation metrics and implement reporting and management processes and related activities with stakeholders (e.g., state agencies, first responders, WI-VOD, ABLE and others). ATIC will engage community stakeholders to help ensure viability of the project after the grant expires.

Major Activities

- Working with DPS and ADOT personnel to define points of contact and levels of participation.
- Initiated work on defining metrics and acceptance testing criteria (over)

Task 3 – Connect the Middle Mile to Vehicle Access Points.

Extend the connection from the Middle Mile and Internet access to the vehicle access points; not including the deployment of vehicle equipment. This task will be performed by WI-VOD.

The second part of this task includes the activities required to identify, make operational and deploy the vehicles to be used as mobile access points. This task will be performed by ATIC and affected stakeholders.

- **Major Activities**
 - Gave a presentation to more than 30 people from various first-responder and other organizations and agencies in Santa Cruz and Pima counties.
 - Initiated steps toward formation of formal organization of end users from among those in attendance who are eager to participate.

Task 4 – Add Layered and Scaled Security.

Add layered and scaled security and advanced applications to existing wireless environments for which WI-VOD is responsible. This task will be led by ATIC in conjunction with requirements defined by the stakeholders.

This task includes working with the appropriate IT personnel to allow for creation of VPNs if necessary and to provide for interagency communication.

Task 5 – Progress and Final Reports Against Project Goals and Requirements.(about 30% complete)

Report against project goals and requirements defined by ATIC regarding scalable security, self sustainability (commercial and governmental), system performance and conformance to project schedules and budget. This task will be performed by ATIC and stakeholders.

- **Major Activities**
 - Submitted a Categorical/Discretionary Assistance Progress Report (CAPR) to OHS for the six-month period from July through December 2004.

Task 6 – Establish Final Governance, Oversight Roles and Responsibilities

- **Major Activities**
 - One meeting and presentation to Public/Private Advisory Board
 - Executed and signed a contract between WI-VOD and ATIC.
 - Developed a draft “ATIC DHS WiFi Security Project Contact List.”.

Task 7 -- Finish final Operational Roles and Responsibilities

Task 8 -- Operate and Maintain the Corridor

Task 9 -- On-Going Governance, Oversight and Reporting Activities

Time Frame

Work shall begin as soon as possible after the funding authorization date of September 17, 2004. The final date of grant funding is July 31, 2005.

Services shall be provided for the twelve months following the date that 60% of the services defined below are provided. The date of completion is the end date of this defined twelve months of services.

Schedule and Deliverables

1. Continuous access to the antennas placed along the 30-mile corridor
 - A. 3/1/2005 – 3/31/2005 – 30% complete
 - B. 4/1/2005 – 4/15/2005 – 60% complete;
 - C. 4/15/2005 – 4/30/2005 – 100% complete
2. Mobile access points placed and operational
 - A. 3/1/2005 – 3/31/2005 – 30% complete
 - B. 4/1/2005 – 4/15/2005 – 60% complete;
 - C. 4/15/2005 – 4/30/2005 – 100% complete
3. Timely reports as defined in the Project Plan pertaining to the requirements in Task 5 above.