APPLICATION FORM

All applications must include the following information. Separate applications must be submitted for each eligible program. Deadline: June 1, 2016. Please include this application form with electronic entry.

PROGRAM INFORMATION

County: Albemarle County

Program Title: Using Advanced Technology for Public Safety at Foxfield Races

Program Category: Information Technology

CONTACT INFORMATION

Name: Carl Stowell

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SIGNATURE OF COUNTY ADMINISTRATOR OR CHIEF ADMINISTRATIVE OFFICER

Name: Thomas C. Foley

Title: County Executive

Thomas C. Foley Signature:

FULL PROGRAM REVIEW

State the problem, challenge or situation faced by the locality and how the program fulfilled the awards criteria (innovation, partnering or collaboration and a model for other localities). Tell how the program was carried out, including financing and staffing, and the program's results.

Using Advanced Technology for Public Safety at Foxfield Races

Challenge Facing Albemarle County -

Keeping up with Increased Use of Technology at Big Events

For nearly 10 years Albemarle Information Technology (ACIT) has provided networking and technical support for the various agencies deployed to the annual Spring Foxfield Races in Albemarle County. This is a high profile event with multiple public safety agencies involved. The requirement for a robust network and advanced technology tools have increased as attendance (over 25,000) has increased over the years.

Several months prior to the event, ACIT and public safety staff perform a routine review of the network and its capabilities to ensure the design will continue to meet the needs at the site. The technical team discuss the lessons learned from the previous year's event and coordinate any required changes to equipment or staging. Once a plan is approved, the team will conduct a test of the relevant equipment prior to deployment at the remote site to ensure stability and performance well in advance of the event.

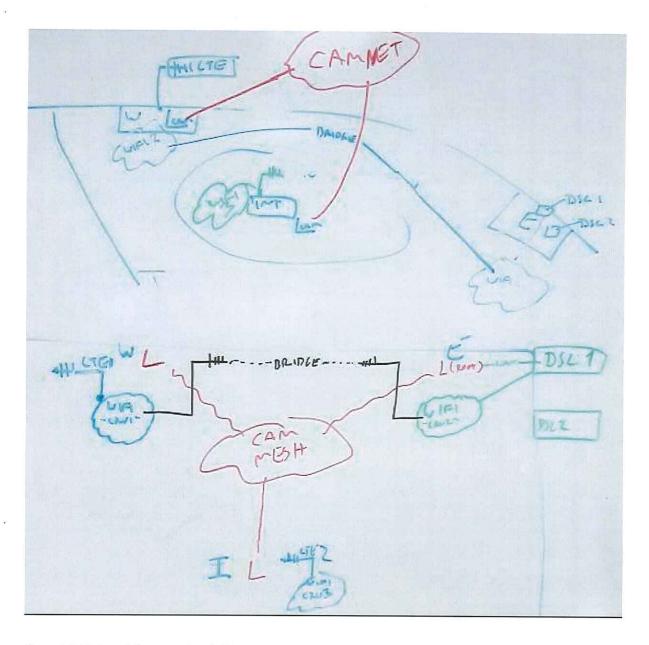


Figure 1- Whiteboard depiction of Foxfield Network

There are five distinct networks designed to deliver high-availability and redundancy in the event of a failure.

- Magistrate link over DSL (VSC)
- P2P network for redundant access (Wi-Fi) (ACPD)
- LTE Network 1: command center (Wi-Fi) (ACPS)
- LTE Network 2: interior command post (Wi-Fi) (ACPS)

Microwave Camera network (VSP)

The Whiteboard depiction turns into the network design guide which is utilized during the two weeks

prior to the event to setup all the equipment and perform field testing.

Each of the antennas and radios used during the event have back-ups which also must be tested. The equipment must be secured after each test, remounted, and tested again several times prior to the event.

One innovative use of technology at the event is the remote magistrate function.

This setup of video conferencing equipment interfacing a mobile site linked to a regional magistrate's office has been recognized at the national level. The remote magistrate function provides the ability for arresting officers to serve warrants for arrest and receive



Figure 2- Network Equipment Mount at Foxfield Races



Figure 3- Video Conferencing at Foxfield Races

commitment orders without leaving the event so prisoners can be detained at the site and transported directly to our regional Jail. The hearings are conducted via DSL enabled video cameras and magistrate signed warrants and commitment orders are printed "on the spot". This significantly increases our operational capacity as otherwise each arresting officer would be required to transport a prisoner directly to the magistrate and potentially be out of service for an extended time.

Another innovative use of new technology used at the event is the Veoci Foxfield 2016 Dashboard.

Veoci is an Emergency Operations Center web and mobile based application primarily designed for collaboratively coordinating major events that affect the region. Licensing was procured in 2015 and including training and the product was in use starting in late 2015, early 2016. The Information

Technology Department participated in the training and recognized the power of the mobile forms capability and communications functions included in the product. A concerted effort was made to adapt the tool to meet the operational requirements of the Foxfield command staff.

We created a method to collect summons and arrest data as well as medical related incidents that could be entered from a mobile phone or by IPAD. Additionally we designed a way to track the event staffing and assignments for patrol and support personnel which was absolutely critical for accountability.

Entries entered on the field captured specific metrics which automatically update the event dashboard in real-time. This assembly of information was specifically designed to give decision makers at the event the data they need in a simple format.

Foxfield 2016 Dashboard @

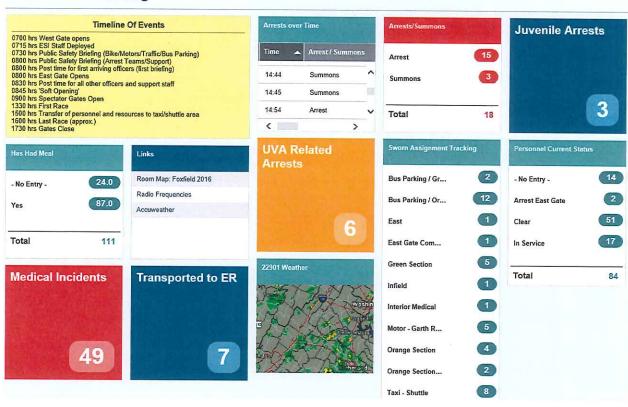


Figure 4- VEOCI Foxfield 2016 Dashboard

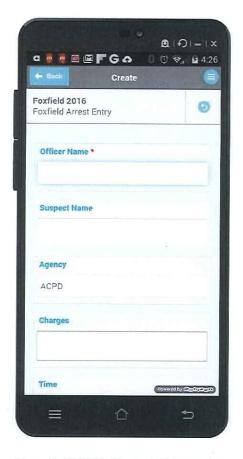




Figure 5- VEOCI Mobile Foxfield Arrest Entry

Figure 6-VEOCI Mobile Foxfield Check-in

As depicted in Figure 4- VEOCI Foxfield 2016 Dashboard, VEOCI was used for more than arrest entry, it was utilized to track injuries and other incidents; staffing; for instant messaging (remote check-ins), requests for service, event milestones, and to alert staff of any expected or unexpected developments. These immediate updates give the management staff which may be stationed in remote locations a full account of any and all of the incidents and that occur which we can use to improve our operational effectiveness and react in a rapidly changing environment at the event.

Overall the technology tools deployed at Foxfield continue to improve every year and are specifically designed to allow the public safety officials involved in the event to focus on preparedness, response, recovery and mitigation. The result is a very well run event staffed by a multi-jurisdictional task force of

police and rescue agencies with advanced technology providing efficiencies not available through any other system. The innovative use of mobile wireless technology coupled with VEOCI dashboards is a model that can easily be adapted for use by other agencies to manage a major remotely located event.

SHORT OVERVIEW OF PROGRAM

The Foxfield Races are an annual event held in Albemarle County, Virginia. The races attract over 25,000 visitors. There are many public safety challenges with the event but through use of advanced technology, the races are conducted without serious incident.

Albemarle County Information Technology assists with the setup and operation of the multi-faceted network and management tools. The network design includes a DSL connection for remote magistrate operations; two LTE networks, and a point to point wireless network which supply WIFI and redundancy at the site. Public Safety staff at the event utilize a mobile data collection tool to track incidents and process arrests, and coordinate the operation.

The system is innovative in the way it connects multiple agencies and provides mobile access to many services. It is funded through public safety and set up and tested by I.T. staff; reducing the overall cost of running the system. The system continues to improve with each year and can easily be adapted for use by other localities to help them manage their remote events.

BRIEF SUMMARY OF PROGRAM

Over the past 10 years Albemarle County Information Technology, with help from public safety partners, continues to improve the process of public safety implementation at big events such as the Foxfield Races. Using an innovative network which has improved over time, thorough testing of the equipment, a remote magistrate function, and an innovative approach to tracking arrests and other incidents; event management has become a system of ongoing success.