A Public Safety Perspective
FCC Broadband Workshop on Cyber Security

P. A. Sadowski

IT Manager

North Carolina State Highway Patrol

Security Liaison

North Carolina Department of Crime Control and Public Safety

Disclosure

The information contained in this document is for informational purposes only and is not represented to be error free. It is not intended to constitute a promise or contract of any kind. Any information are solely the opinion of the presenter, are given as a courtesy, and do not constitute either an endorsement or approval by the North Carolina State Highway Patrol or the North Carolina Department of Crime Control and Public Safety.

Purpose

- Broadband Security Protection
- Broadband Security Response
- Training Issues
- Need
- Public Safety Issues
- Final Comments

Public Safety Mission

- IT and IT Security is not the Primary Mission of Public Safety (Law, Fire, EMS)

- Our Mission is First Response for Public Safety

- Public Safety responds to incidents in Rural, Tribal, Wilderness, Maritime, and Park areas

- Even with NO IT capability we will still perform the Mission

Broadband Security Protection

- ❑ Little info from providers today - not their fault?

- ❑ IT security is not the primary focus of these agencies.

- ❑ How many agencies have staff dedicated to issue?

- ❑ How many agencies have staff working the issue of Cyber Security (vice Cyber Crime)?

- ❑ How many agencies need to focus on issue?

Broadband Security Protection

- Operational Public Safety personnel are often Field Deployed

  - ❑ Mobile Broadband will help keep them in the field!

- Public Safety needs secure redundant backed-up Broadband mobile access

- Some first responders have NO mobile access (Local, State, Tribal, and incidentally - some Federal responders)

Broadband Security Protection

❑ Different Agencies have different IT capabilities

    ❑Some Agencies are large enough to support IT Security

    ❑Others rely on outside agencies for IT support

    ❑Some have very limited IT capabilities at all

    ❑Few maintain organic broadband capabilities themselves

❑ Why some agencies do not have Broadband and Broadband Security support

    ❑Awareness, Budget, Staff and Staff training

Broadband Security Resource Issues

- Provisioning redundant broadband data links and data centers.

- Support systems for redundant broadband data links and backup data centers require more Staff and facilities

- Security systems are another resource demand

- Small Agencies often have fewer resources to draw upon

- The culture has been "if we don't own it - then we can't control it" and it can't be relied upon – increased Service Level Agreements add to resource burden

Training Issues

- Effective and State of the Art Training

- Broadband Security must be exercised and tested to be effective

- Security testing is limited for resource constrained agencies

  - ❑ Results of Security Testing are sensitive and cannot be widely disseminated

  - ❑ Full scale testing of operational systems can only be performed if backup systems are operating. Day-to-day mission support can not be impacted... the MISSION is Safety of Life

NEED

- Integrated Public Safety secure broadband

  - ❏ In the field with secure mobile broadband

  - ❏ All types of responders at all levels and jurisdictions

- Support to the Mission – the Public benefits

  - ❏ Faster Response – quicker support to the Public

  - ❏ Better Response – better decisions and actions

  - ❏ With Security – higher confidence by both the Public and First Responders

Public Safety Wrap-Up

- Thank you to the FCC for inviting me to participate in this workshop

- During the three and a half hours scheduled for this workshop, Public Safety will have answered almost 100,000 911 calls – National Emergency Number Association statistics

- Secure mobile broadband would assist Public Safety in responding to many of these calls

- Public Safety will benefit when the attention paid to Data is commensurate with that paid to Voice Communications and I see this as a good first step

Public Safety Wrap-Up

- "Communications interoperability allows emergency management/response personnel and their affiliated organizations to communicate within and across agencies and jurisdictions via voice, data, or video in real time, when needed, and when authorized" – FEMA