Mission Critical Voice

Stephen Devine
Missouri Department of Public Safety

NPSTC is a federation of organizations whose mission is to improve public safety communications and interoperability through collaborative leadership.
Mission Critical Voice Working Group


• WG will develop specific quantitative public safety requirements for LTE based MCV in a broadband environment.

• Mission Critical Voice parameters and elements apply to “off network” and “on-network” solutions.

• WG will identify “must have” elements of MCV
Deliverables

• Final WG product is a document that describes public safety community’s needs/requirements for MCV, which will include:
  – PTT
  – simplex and duplex capabilities
  – Direct mode operations
  – Audio qualities that have been identified as critical for MCV including some that exist in analog voice today.
  – As well as elements associated with interoperability, security/authentication and availability/access.
What to avoid in this process…

• The tendency is to identify “how” to meet any MCV voice need based on past experience.

• This WG needs to focus its efforts on “what” elements the MCV solution consists of, not “how” to arrive at a MCV solution.

• Vendor participation is crucial to ensure that technological constraints in a MCV solution are acknowledged.
NPSTC MCV Paper

Key Elements:
  Direct or Talk Around
  PTT
  Cellular Voice
  Group Call-One to Many
  User ID
  Emergency Alerting
  Audio Quality
• Mission Critical Voice Solution that meets public safety’s needs will be a collection of contributing elements.
• The voice solution will be an aggregate of identified elements that all have to be included to be Mission Critical.
• More to come…
Questions?

Stephen Devine
NPSTC Broadband BWG