

NG 911 Interoperability Testing Program

Walt Magnussen, Ph.D.
Texas A&M University

Project Overview

- Recommend a path forward to design and implement a sustainable NG911 interoperability test program;
- Research Questions;
 - What are the relevant interfaces that need to be tested?
 - Who are the stakeholders that need to be involved in the process?
 - What are other activities in this same or similar spaces?
 - What should the testing model look like?
 - How should it be funded (sustainability)?

Project Approach

- Project Leadership – will set overall strategy and track progress
 - PI, Co-PI, SME and PM to hold bi-weekly meetings.
- Potential Stakeholders will hold monthly meetings which may be divided into two or more groups (at least technical requirements and sustainability groups)
 - NENA, iCert, APCO, NASNA
- Deep dives with others with related activities (collaborators)
 - ATIS, ETSI, MCPTT Test Suite, Grid Gears
- Outreach
 - Conference Presentations – NENA, APCO, IWCE
 - Articles – Mission Critical and IWCE magazines
 - Board Briefings – NENA, APCO, NASNA, SafeCom NG911 Committee

Testing and Evaluation

- Testing will not be a part of this Phase 1 project.
- Evaluation will be based upon;
 - Ability to gain industry consensus.
 - Ability to develop a testing protocol.
 - Ability to develop a sustainability plan.

Milestones and Accomplishments

Milestones were listed in the prior slide. Project kickoff was 1 June 2020

Tasks for next 90 days;

June 2020

- Introduction letters and initial meetings with potential stakeholders
- Internal Team meeting to down select if we have too large of a group
- Recommendation to DHS

July 2020

- Kick Off meeting with stakeholders
- Divide into at least two groups
 - Technical requirements
 - Sustainability requirements (Business Plan)

August 2020

- Learn from ETSI project
- Learn from MCPTT conformance test project (NIST PSCR)

Project Impact

NG 911 Conformance testing has been an issue since 2006

Early discussions with NENA.

NENA has a working group working on issue

iCert has a working group working on issue

ETSI has funded a pilot project

Standards based solutions will;

Reduce CapEx and OpEx

Enhance capabilities

Promote competition

Ensure interoperability and information sharing

Increase efficiency (reduce double entry)

Guide federal and state funding decisions.

Transition Plans

Early and frequent engagement with the following groups:

NENA – represent the 6,600 PSAP that have to make investment decisions

APCO – needs to ensure interoperability with other public safety communications systems.

iCert – the industry that sells the equipment – have mixed emotions about conformance testing. This should accelerate deployment but concerned about cost.

NASNA – need to ensure not only intrastate interoperability but also interstate interoperability.

DoD - It is important that the 300 plus CONUS military installations can communicate with their mutual aid surrounding community partners.