



9-1-1 Services Board

General Business Meeting

January 11, 2018





Agenda

1. Call to Order
2. Approval of Minutes
3. FY 19 Grant Applications
4. NG9-1-1 Deployment Plan
5. NG9-1-1 Deployment Communications Plan
6. Old Business
7. New Business
8. Public Comment
9. Adjourn



FY 19 Grant Applications





Overview of FY 19 Grant Apps

- 127 applications were received:
 - 87 PSAP Education Program (PEP) applications
 - 82 Individual PEP applications
 - 5 Multi-jurisdictional grant PEP applications
 - 38 Individual PSAP applications
 - 2 Shared Services applications
- Total amount of funding requested by PSAPs is \$4,100,073.50



PSAP Grant Committee Meeting

- Members met on Dec 7th to review and prioritize the grant applications
- Applications were presented to the PGC in 4 groups:
 - Met Guidelines as submitted (109 apps)
 - Met Guidelines with minor revisions after submission (4 apps)
 - Needed PGC input (7 apps)
 - Withdrawn or did not meet Guidelines (7 apps)



Board Action

- Request approval of 120 FY 19 PSAP Grant awards totaling \$3,259,043.50
 - Provide funding to applications through Westmoreland (ID #120)



NG9-1-1 Deployment Plan and Legislation Update





Agenda

- Draft NG9-1-1 Deployment Plan
 - Contents
 - Implications for GIS
 - Comments/feedback
- Legislation Update/Discussion
 - POI locations – LATA vs. S/R
 - New definitions
 - OSP funding through contracts
 - July 1, 2023 implementation date



Contents

- Executive Summary
- What is NG9-1-1
- Process of Change
- Recommended Solution
- Path Forward
- Conclusion
- Participation Agreement (Appendix)

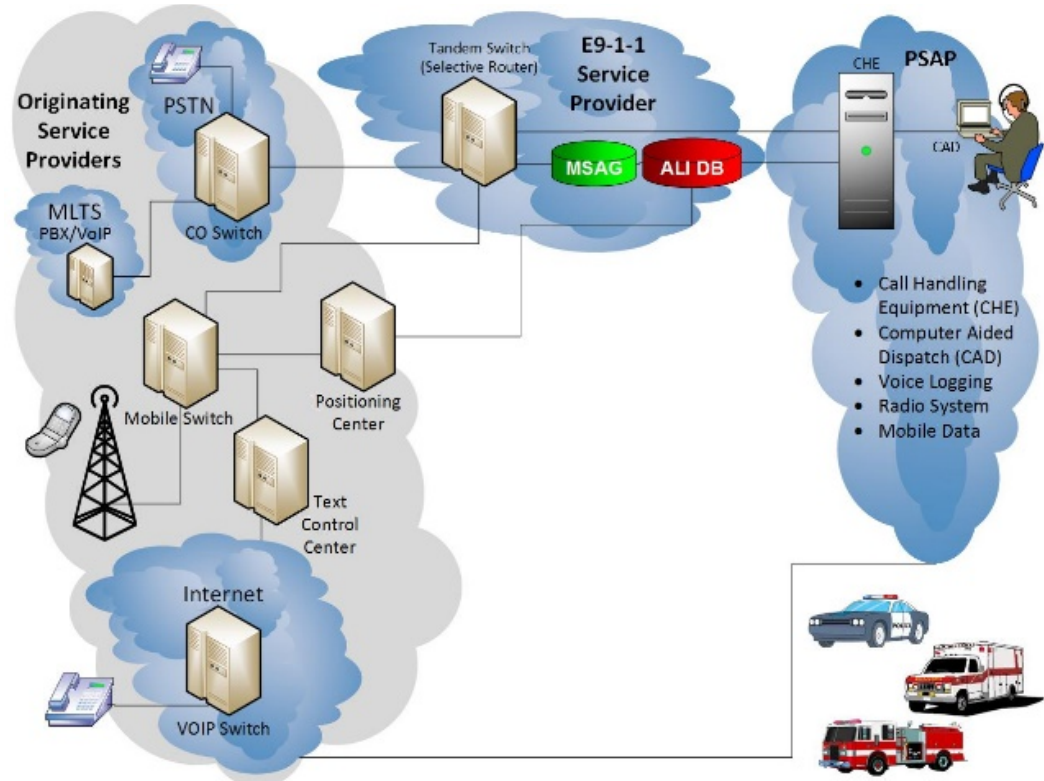
What is NG9-1-1

- Current E9-1-1 Network

- How it works

- Shortcomings

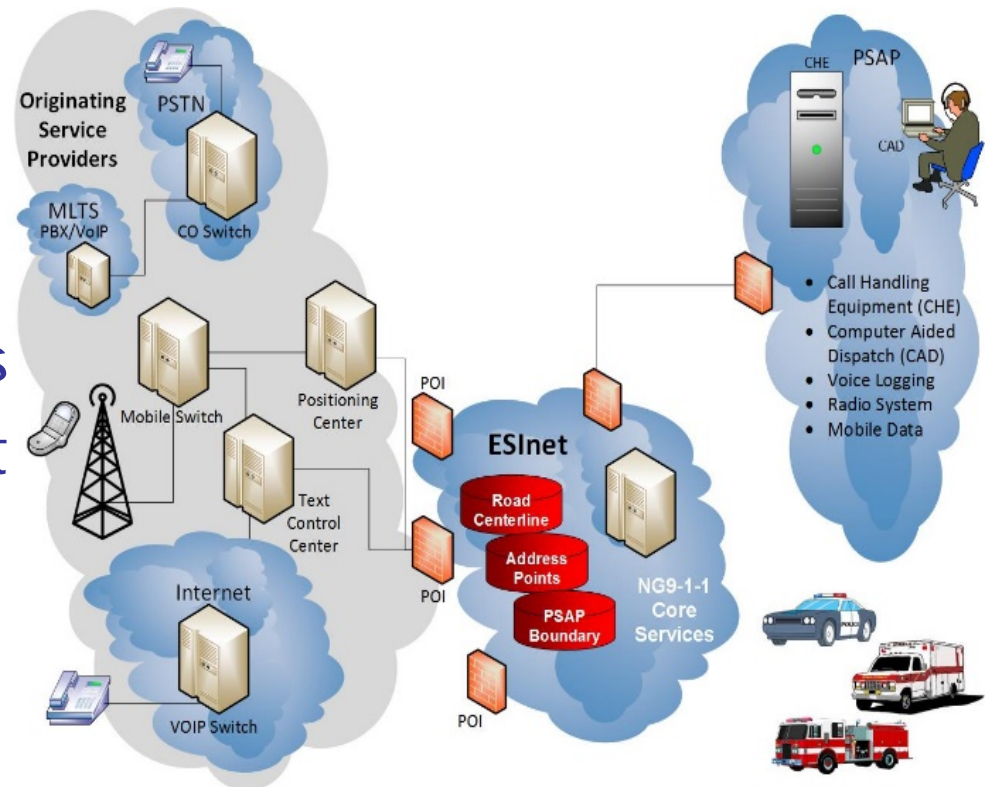
- Nine networks
 - Analog circuits
 - Limited data
 - National OSPs
 - Limited flexibility
 - Limited mobility
 - Infrastructure going away



What is NG9-1-1

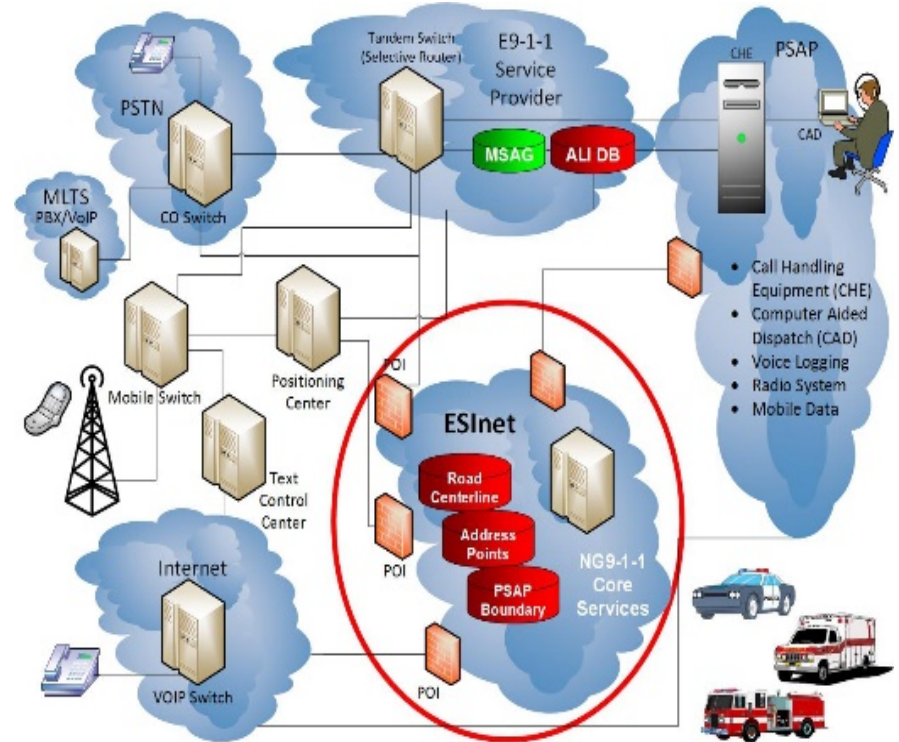
(continued)

- NG9-1-1 Network
 - NENA definition
 - IP network
 - Shared network
 - System of systems
 - Direct replacement for current E9-1-1
 - Not CHE
- How it works



Process of Change

- Feasibility Study
 - Stakeholder driven
 - Over 100 task identified
 - Tasks associated with governance completed
 - 9-1-1 Services Board established as governance





Process for Change

(continued)

- Northern Virginia NG9-1-1 Project
 - Two PSAP grants from Board
 - Request for proposals conducted
 - Exhaustive selection process
 - VITA ISP staff as observers
 - Spatial interface awarded to GDIT
 - NG9-1-1 ESInet & core services awarded to AT&T
 - Implementation near end of 2018



Process for Change

(continued)

- Statewide Procurement Decision
 - VITA had planned to issue own RFP
 - Provide statewide contract for localities to use
 - Local RFP still an option
 - Factors impacting decision
 - NG9-1-1 requirements same statewide
 - Increased complexity
 - Same results
 - NOVA contract still available
 - Time commitment
 - Limited resources at VITA



Recommended Solution

- AT&T Solution
 - There are 2 major phases of the AT&T ESInet Service Life Cycle:
 - Implementation and Turn-Up
 - Maintenance and Life Cycle Management
 - Roles and responsibilities of each phase
- Deployment Methodology
 - Managed for no interruption & reduce cost
 - Solution provider is a local decision
 - Migration off selective router
 - Commitment to deployment period



Recommended Solution

(continued)

- Deployment Methodology (continued)
 - 36-month deployment by selective router pair
 - Significant preparatory work required

Selective Routers	9-1-1 Service Provider	Population
Fairfax/Alexandria	Verizon	2,494,184
High St Portsmouth/Jefferson	Verizon	1,662,247
Stuart/Chester	Verizon	1,660,182
Staunton/Salem	Verizon	453,065
Charlottesville/Farmville	CenturyLink	403,369
Fredericksburg/Winchester	Verizon	343,031
Blacksburg/Norton	Verizon	340,101
Johnson City/Wytheville	CenturyLink	338,311
Danville/Lynchburg Church St	Verizon	320,247
Shenandoah County ECC	Shentel	43,175
Covington	Ntelos	21,556
New Castle	TDS Telecom	5,158
Monterey-Highland Telephone	Highland Telephone	2,216



Recommended Solution

(continued)

- OSP Transition
 - Moving traffic from selective router to point of interconnection (POI)
 - One POI to replace each selective router
 - OSP transition plan to the 9-1-1 Services Board
 - NENA i3 standard routing encouraged
 - Alternate routing through legacy network gateway permissible initially
 - Must plan for full i3 implementation



Path Forward

- Gantt chart

ID	Task Name	Q4 17				Q1 18			Q2 18			Q3 18			Q4 18			Q1 19												
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar										
1	Develop State Level Plan	█																												
2	Socialize State Level Plan with Stakeholders					█																								
3	Board Approval of Plan																													
4	Develop PSAP Specific Plans					█																								
5	Outreach/Education					█																								
6	NG9-1-1 Deployment Decision											█																		
7	Funding Requests/Determinations														█															
8	NG9-1-1 Deployments																				Continue through 2022 →									



Path Forward

(continued)

- Overall Budget
 - Transitional costs – limited in duration

Category	Amount
NG9-1-1 non-recurring cost	\$476,000
Special construction costs	\$31,830,516
GIS data preparation	\$3,246,226
Originating service provider (OSP) transition cost	\$5,000,000
Legacy 9-1-1 service provider transition costs	\$5,000,000
Project management assistance	\$1,750,000
Data analytics expansion	\$59,500
Total	\$47,362,242



Path Forward

(continued)

- Overall Budget
 - Recurring costs – annual ongoing costs

Category	Amount
NG9-1-1 recurring costs	\$10,749,443
Originating service provider (OSP) recurring cost	\$5,000,000
Data analytics recurring costs	\$561,404
Total	\$16,310,847

- Sufficient funding exists within \$69M planned by the Board, borrowing authority and existing local funding



Conclusion

- Deployment plan lays out statewide approach/methodology
- 9-1-1 is a local service so decision is local
- Use of Fairfax County contract only a recommendation
- Locality can issue own RFP for services
- VITA will not be conducting a procurement
- Still much to learn
- PSAP specific plans next major step



Conclusion

(continued)

- Key to success
 - Cooperation
 - Communications
 - Coordination
- Local decision impacts neighboring localities, entire state and surrounding
- Cost of failure too high
- Must work together as we move forward

Legislation Update

- POI locations – LATA vs. S/R

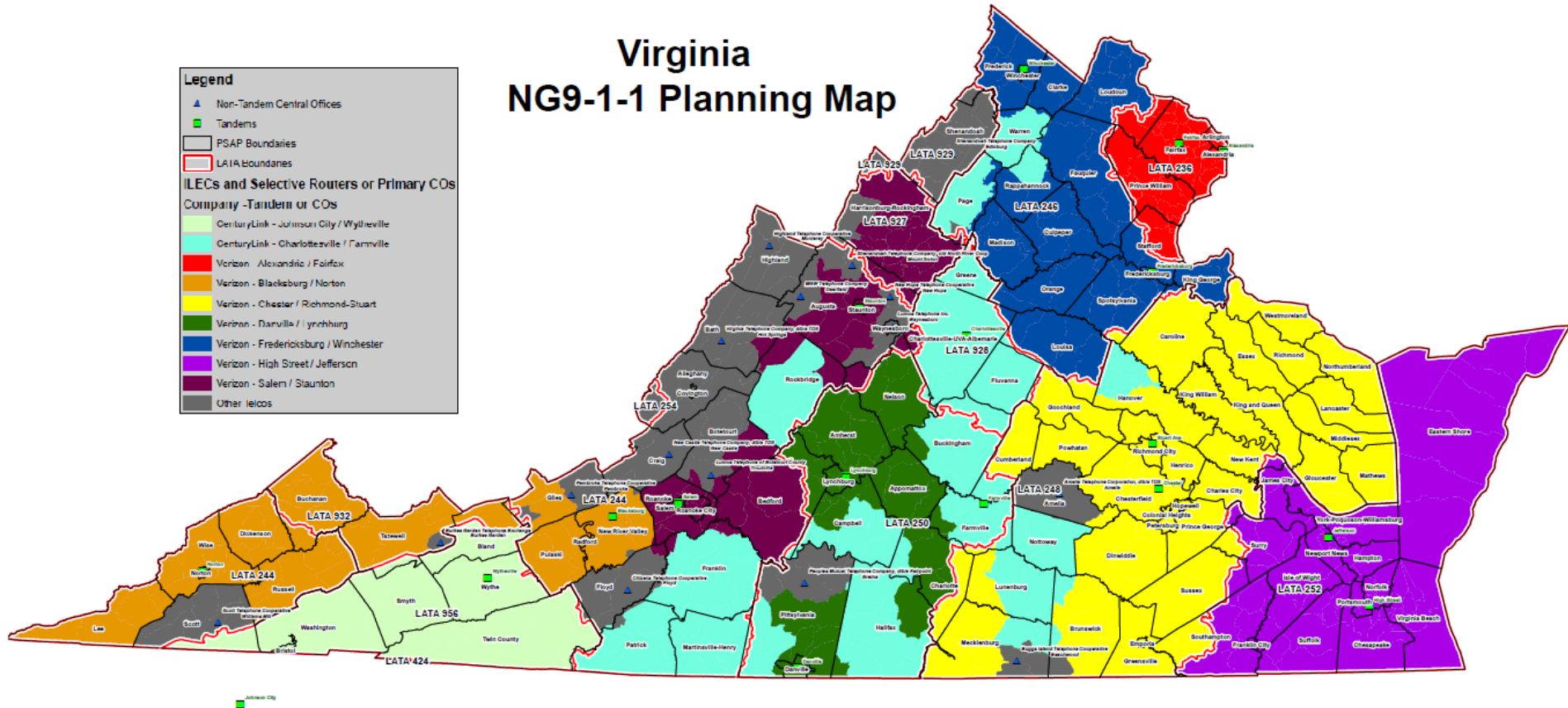
Virginia
NG9-1-1 Planning Map

Legend

- ▲ Non-Tandem Central Offices
- Tandems
- PSAP Boundaries
- LATA Boundaries

ILECs and Selective Routers or Primary COs Company - Tandem or COs

- CenturyLink - Johnson City / Wyalloville
- CenturyLink - Charlottesville / Farmville
- Verizon - Alexandria / Fairfax
- Verizon - Blacksburg / Norton
- Verizon - Chester / Richmond-Stuart
- Verizon - Danville / Lynchburg
- Verizon - Fredericksburg / Winchester
- Verizon - High Street / Jefferson
- Verizon - Salem / Staunton
- Other ILECs





Legislation Update

(continued)

- POI locations – LATA vs. S/R
 - Propose language to locate near current S/Rs
- New definitions
 - POI and OSP
- OSP funding through contracts
 - OSP technology agnostic
 - Not required
 - Minimized cost
 - May vs. shall negotiate
 - PSAP must request payment



Legislation Update

(continued)

- July 1, 2023 implementation date
 - *“Board shall develop and fully implement NG9-1-1 transition plans”*
 - Region by region basis
 - By each legacy E9-1-1 selective router pair
 - Revised language to allow Board to extend the good cause
- VACO Legislative Agenda Item



NG9-1-1 Deployment Communications Plan





Purpose

- The purpose of the communications plan is to articulate the policy and process through which NG9-1-1 specific communications will be provided to identified stakeholder groups
- This plan is intended to be a living document and will be reflective of the evolving communications process throughout the deployment of NG9-1-1



Goals and Objectives

1. Identify stakeholders, their role in communications, and the value that they will add to NG9-1-1 deployment
2. Identify channels of communication, the content of that communication, and the responsible parties with an emphasis on the two-way nature of communication
3. Document a communications action plan citing specific tasks for information output and feedback, and corresponding timeframes



Channels, Targets and Frequency

- Looking to stakeholders to distribute critical NG9-1-1 information and updates on NG9-1-1 milestones



Communication Plan Activities

- NG9-1-1 Deployment Plan:
 - Educate professional associations and gain feedback
 - Inform stakeholders on Board's action and our path forward
 - Provide another channel for information dissemination to stakeholders



Communication Plan Activities

- Legislative Communications:
 - Advise PSAPs of bill content and status
 - Stakeholder support for legislation
- GIS Specific Communications:
 - Update localities on 2018 GIS data analysis intent and process
 - Inform GIS stakeholders on work items for completion to ensure GIS data meets NENA standards for NG9-1-1 readiness



Communication Plan Activities

- Local Govt PSAP/GIS Deployment Plans:
 - Review plan template for thoroughness and to ensure it provides the necessary information to help PSAPs make NG9-1-1 decision
 - Inform localities of upcoming plan deployment
- NG9-1-1 Funding:
 - Inform stakeholders of funding recommendations the PSAP Grant Committee intends to present to the Board
 - Advise stakeholders of the overall NG9-1-1 deployment funding approach



NG9-1-1 Milestones

- Local government educational packets
- Local government PSAP and GIS implementation plans
- Local government NG9-1-1 decisions regarding use of Fairfax County's contract
- Board approved implementation plans and funding estimates



NG9-1-1 Milestones

- Participant agreements signed by local governments
- NG9-1-1 deployment queue
- NG9-1-1 deployment progress



Virginia Information Technologies Agency

Old Business





New Business





RAC FY 18 Tasks

- Standards Development Process (Completed)
- Communications Plan (Completed)
- COOP Template (March)
- Support Staff Development Criteria (March)
- NG9-1-1 GIS Data Provisioning (June)
 - Synergy between 9-1-1 and GIS
 - Conduct GIS database review
- NG9-1-1 Implementation Plans (June)



COOP Template

- Jason Malloy (chair)
- Steve McMurrer
- Michelle Surdam
- Tim Estes
- Ben Duncan



Minimum Training Recommendations

- Jeff Shupe
- Stephen Williams
- Nicki Tidey
- Rebekah Craft
- John Powers



NG9-1-1 GIS Data Provisioning

- Judy Lamey-Doldorf
- Chris Akers
- Kurt Plowman
- Jonathan Worley
- Joell Kight



PSAP/GIS Implementation Plans

- Gerald Smith
- Jeff Shupe
- Sharon Brady
- Tory Maye
- Steve Weis



CMRS Subcommittee Report

- FY 17 CMRS Funding Close-Out Report
- FY 19 CMRS Funding Requests



And In Conclusion

- Public Comment
- Adjourn
- Next meeting date is March 8, 2018