



Virginia Department of
Emergency Management

Regional Advisory Council

Meeting Date: Aug 25, 2020

Agenda

- Locality GIS advisory efforts
- Engaging the RAC workgroups
- NG9-1-1 GIS status
- Updating PSAP capabilities and services
- Next steps/action items



2020-2022 GIS Strategic Plan

GIS Strategic Plan 2020-2022

Facilitating efficient use of geospatial data and technologies across commonwealth stakeholder communities

Priorities			
Policy and Strategy	Engagement	Collaboration	Communications
<ul style="list-style-type: none"> Align GIS strategies with enterprise goals <ul style="list-style-type: none"> Business priorities Technology road map Enterprise data governance Increase utilization of geospatial investments <ul style="list-style-type: none"> Analytics API-driven processes Improving business applications and results Support deeper integration of GIS for 9-1-1 operations and analytics Understanding IT security priorities and influence on GIS 	<ul style="list-style-type: none"> Best practices for engaging leadership through articulation of business value from geospatial data and applications Develop business outcome-based metrics Demonstrate benefits of stronger data architecture and data governance practices Articulate GIS technology roadmap <ul style="list-style-type: none"> Infrastructure models Approaches to data Staff development strategy 	<ul style="list-style-type: none"> Improve integration within stakeholder communities <ul style="list-style-type: none"> Data requirements Platforms and applications Business data sharing Promote geospatial value and integration across stakeholders <ul style="list-style-type: none"> E.g.: State-to-local / local to state Best practices for regional approaches for advancing geospatial capacity Supporting locality engagement between GIS data maintenance and PSAP operations 	<ul style="list-style-type: none"> Establish continuous stakeholder engagement to identify priorities <ul style="list-style-type: none"> Data priorities Innovation Technology evaluation Support regional and peer-to-peer exchange <ul style="list-style-type: none"> Best practices NG9-1-1 support Engaging leadership IT integration Facilitate GIS stakeholder engagement with IT management Improve usability, messaging, and documentation of geospatial data and resources.

Strategic Initiatives				
1. Prioritize state agency and locality manager groups to identify stakeholder priorities and best practices	2. Data standards: refresh existing standards and prioritize development of needed standards	3. Facilitate templates for developing stakeholder GIS technology roadmap and business outcome metrics	4. Engage GIS and 9-1-1 stakeholders to support GIS integration with operations and analytics	5. Support enterprise-oriented engagement for GIS with business lines and IT management

Status: Public Release



GIS Strategic Plan 2020-2022

GIS Strategic Plan 2020-2022

Facilitating efficient use of geospatial data and technologies across commonwealth stakeholder communities

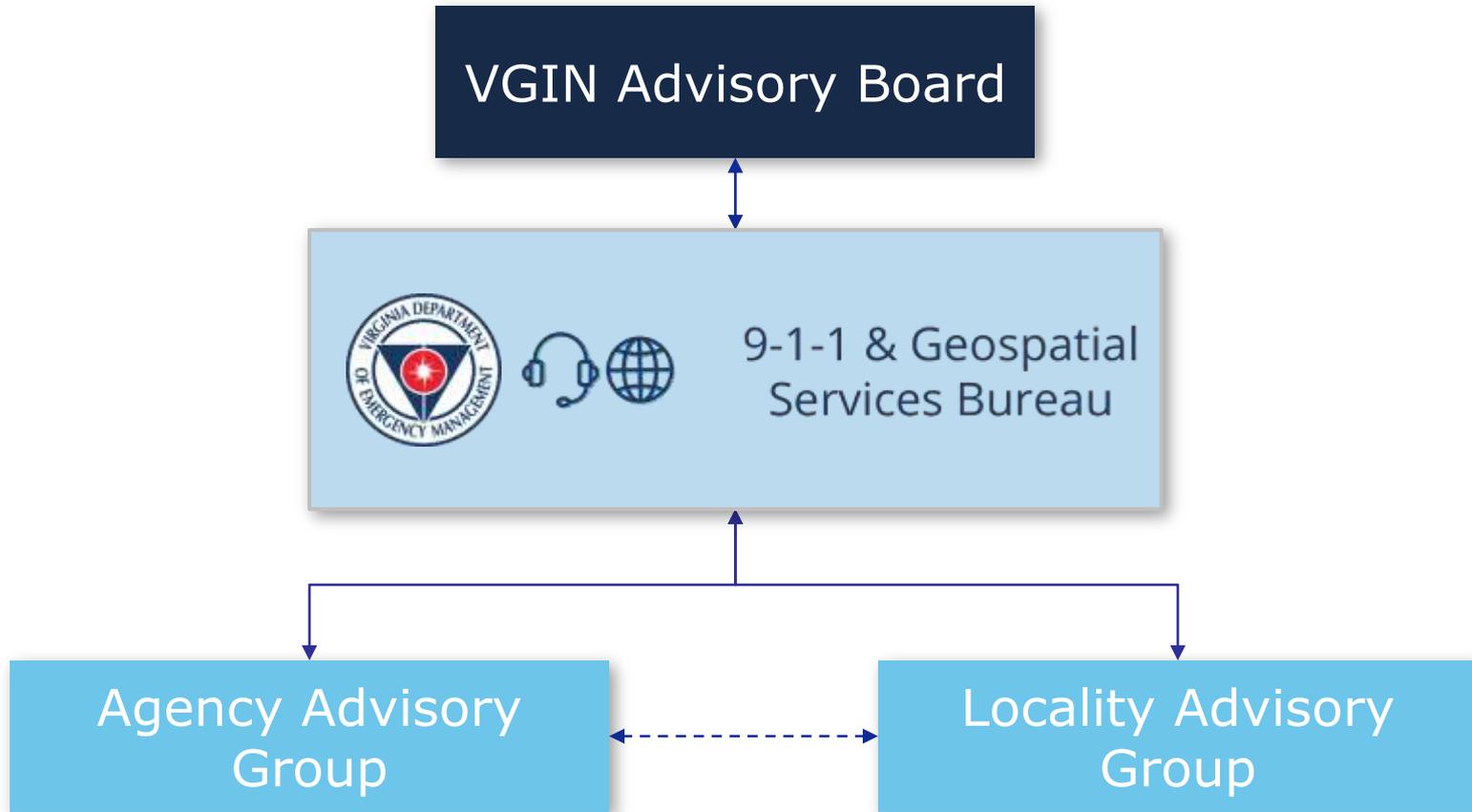
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Engagement Model



NG9-1-1 Resources

- Deployment resources:

<https://vgin.maps.arcgis.com/home/index.html>



NG9-1-1 Resources

VGIN Virginia NG9-1-1 GIS Resources

Search maps

NG9-1-1 Boundaries Maps
Web Mapping Application by VGIN. Last Modified 7/18/20.
The Virginia NG9-1-1 Boundaries Maps explain Next Generation 9-1-1 boundary concepts for PSAP and provisioning line segments, show the current status for Virginia, and direct users to other resources.

NG9-1-1 Boundaries Overview
Document Link by VGIN. Last Modified 7/18/20.
This one-page document gives a conceptual overview of provisioning boundary concepts, PSAP boundary concepts, and how GIS data is provisioned to NG9-1-1 environments.

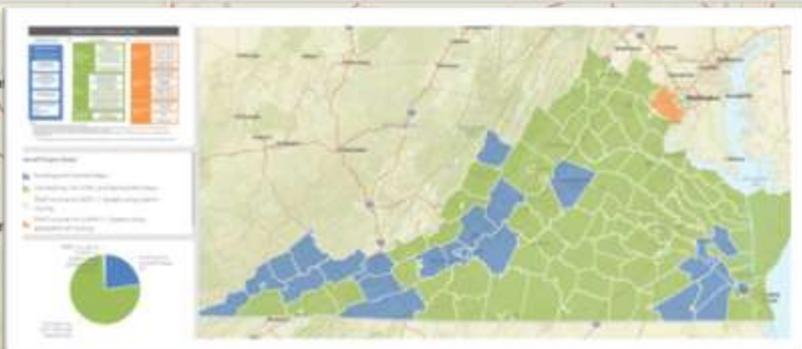
NG9-1-1 Boundary Review Web Map Viewer
Web Mapping Application by VGIN. Last Modified 7/18/20.
Web map designed for easy locality review of proposed boundaries against road centerlines, address points, parcels, administrative boundaries, and imagery.

NG9-1-1 Dashboard
Document Link by VGIN. Last Modified 7/18/20.
The Virginia NG9-1-1 Dashboard combines information and resources into one location where users can view deployment steps, schedules, timelines, and statuses for multiple aspects of deployment.

NG9-1-1 GIS Data Provisioning and Maintenance
Document Link by VGIN. Last Modified 7/18/20.
This document provides an overview on the provisioning of GIS data to support NG9-1-1 services.

NG9-1-1 GIS Recommendations - Entire Document





- ### GIS Onboarding Project Status
- Not ready for GIS kickoff
 - Waiting for GIS kickoff to be scheduled based on overall deployment plan timeline
 - GIS kickoff being scheduled
 - GIS kickoff scheduled
 - GIS kickoff complete
 - Initial spatial interface training being scheduled
 - Initial spatial interface training scheduled
 - Working with spatial interface data loads and checks
 - Working with ALI checks
 - Ready for mutual decision of ability of GIS data to support i3 geospatial call routing
 - GIS data supports i3 geospatial call routing and is ready for provisioning
 - GIS data is not ready to support i3 geospatial call routing; locality will use interim step



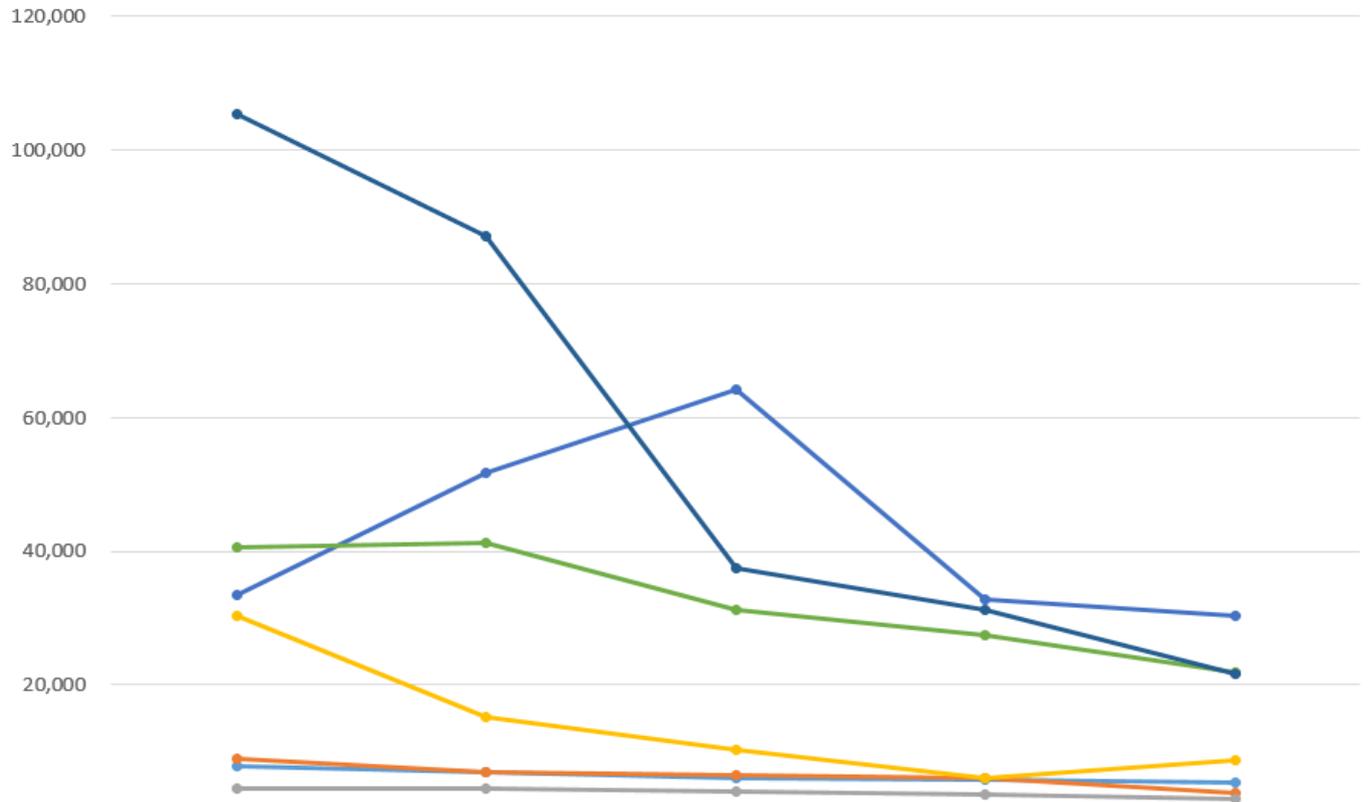
Status 20200814: 6 complete with GIS; 70 working with Intrado; 19 waiting; 28 not eligible

NG9-1-1 Boundaries

97%	64%	62%	82%	79%
117 of 121 PSAPs have a PSAP segment complete	78 of 121 PSAP boundaries are complete	76 of 122 provisioning boundaries are complete	327 of 399 PSAP segments are complete	314 of 398 provisioning segments are complete
<i>Trend in Count Since 20200731</i>				
0	+ 3	+ 3	+ 4	+ 4



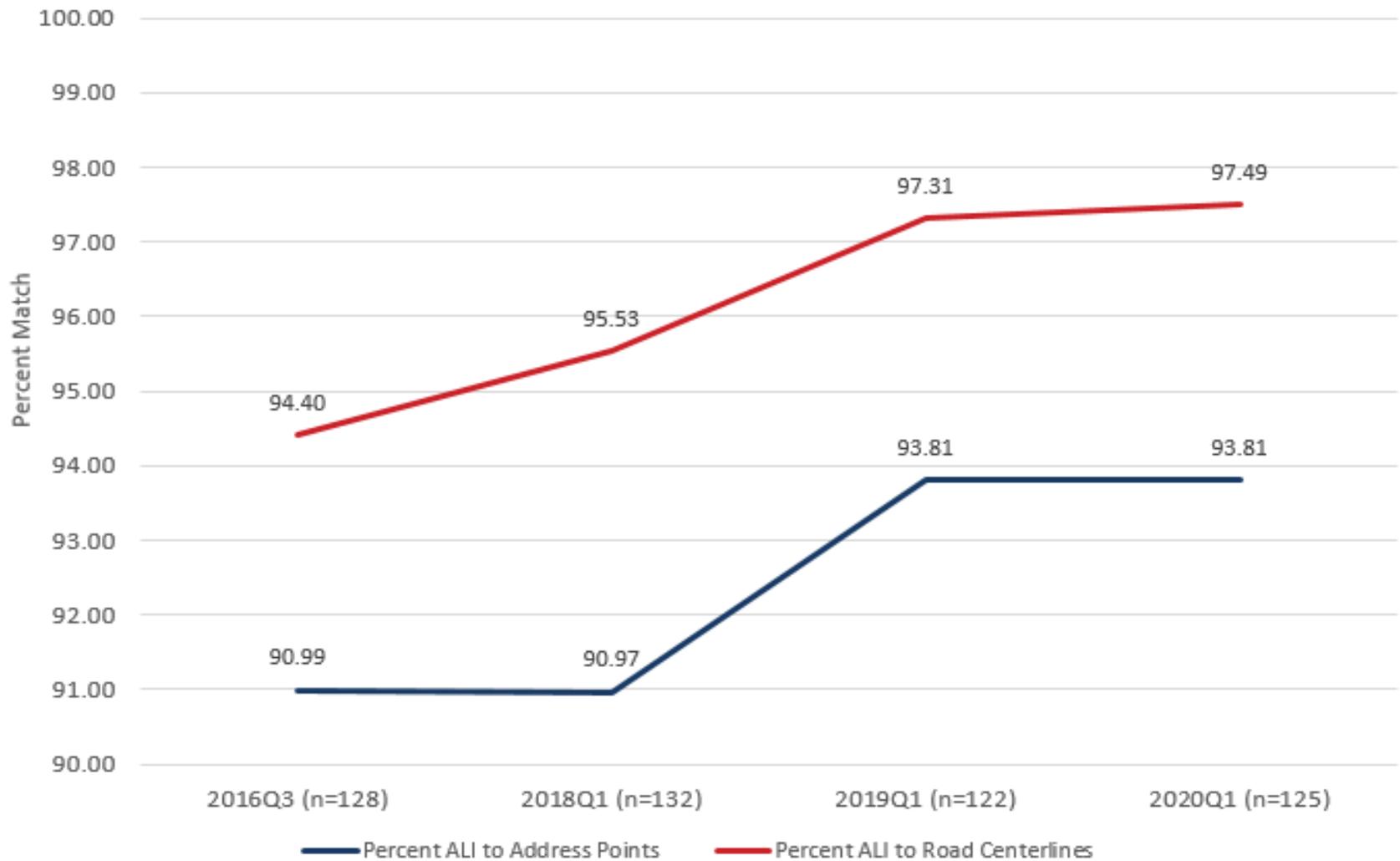
Virginia State-Wide NG9-1-1 GIS Data Readiness Metrics



	2018Q1	2018Q3	2019Q1	2019Q3	2020Q1
— RCL Duplicate Ranges Attributes <> 0	7,786	7,012	6,138	5,789	5,460
— RCL Ranges Left Side Overlap	9,053	7,057	6,458	6,012	3,770
— RCL Ranges Right Side Overlap	4,612	4,502	4,150	3,693	3,037
— RCL Name Attributes <> Standards	30,268	15,094	10,366	6,069	8,795
— AP Duplicate or Missing Information	33,503	51,618	64,297	32,798	30,288
— AP does not Geocode RCL Name and Range	40,631	41,289	31,143	27,553	21,967
— AP Name Mismatch RCL Name	105,304	87,244	37,416	31,277	21,739



Virginia State-wide ALI to GIS Data Metrics

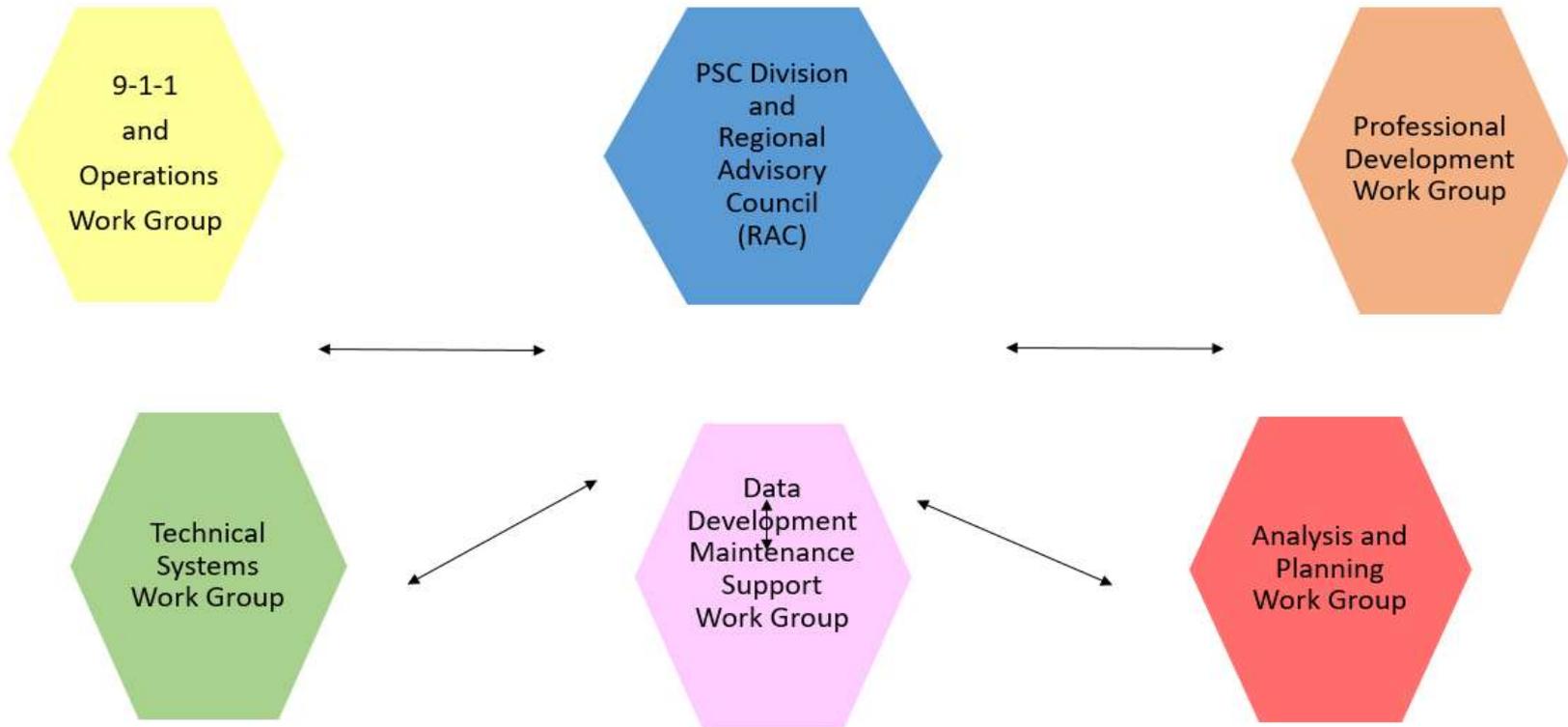


RAC Data Development

Areas to Address	Current Status August 2020	Future
GIS data maintenance & work flows	76 localities in the process of onboarding GIS data to NG9-1-1 ESInet system and resolving critical errors and issues.	
Data sharing	NOVA GDX, Understanding of i3 direction and timing.	
Coordinated PSAP boundary support	PSAP and provisioning boundary process in place 3/2019. About 80% of both boundary segments complete; more than 60% of localities complete with all of their segments. Boundaries smoothly migrating into NG9-1-1 ESInet system. Transition to ESBs.	
GIS quality metrics	Tools released 3/2019. Report Cards in process for 2020Q3. 2020Q1 Virginia average 93.8% ALI to AP; 97.5% ALI to RCL. More than 98.6% of RCL and 99.2% of AP free of GIS Critical Issues.	
Interstate data sharing	2019 and 2020 NG9-1-1 conversations with state level contacts, discussion of VGIN data and services.	
Visual media and records		



RAC Work Groups



Next Steps/Action Items

- Need PSAP representative for 9-1-1 Services Board
- Transition expenses
- Financial update on NG9-1-1 deployment project
 - Budget
 - Expenditures

