

Kentucky FirstNet - SLIGP Project



Kentucky State Police

Disclaimer

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Meeting Agenda

1. Network / FirstNet / SLIGP Overview
 - a) FirstNet and the Network
 - b) SLIGP Structure
 - c) Decision Process
2. Identifying the Planning Objectives
 - a) High Level Objective
 - b) Preparation and Strategy
 - c) Action Plan
 - d) Identifying Goals for First Responder Needs
(Coverage, Capacity, Timeline, etc.)
 - e) LMR and PSAP/NG 9-1-1 Integration Plans/Goals
3. Next Steps

FirstNet / SLIGP Overview

FirstNet Duties & Responsibilities

- Develop and implement a nationwide system configuration
- Issue system construction RFP's
- Ensure the ongoing maintenance, operation and improvement of the network
- The PSBN would be designed with broad input from public safety agencies at the state, territory, county, municipal, and tribal levels
 - Input will come during the consultation process
 - We are now preparing for this process



State and Local Implementation Grant Program (SLIGP) - Structure

- Phase One of the grant is to be used for the following activities;
 - Planning, consulting, and development activities in preparation for consultations with FirstNet, including strategy and timeline development, meetings, governance planning, and outreach and education efforts;
 - Defining coverage needs, user requirements, and network hardening and resiliency requirements;
- Phase Two is to be used for:
 - The second funding phase will primarily address States' needs in preparing for additional consultation with FirstNet and performing data collection activities.

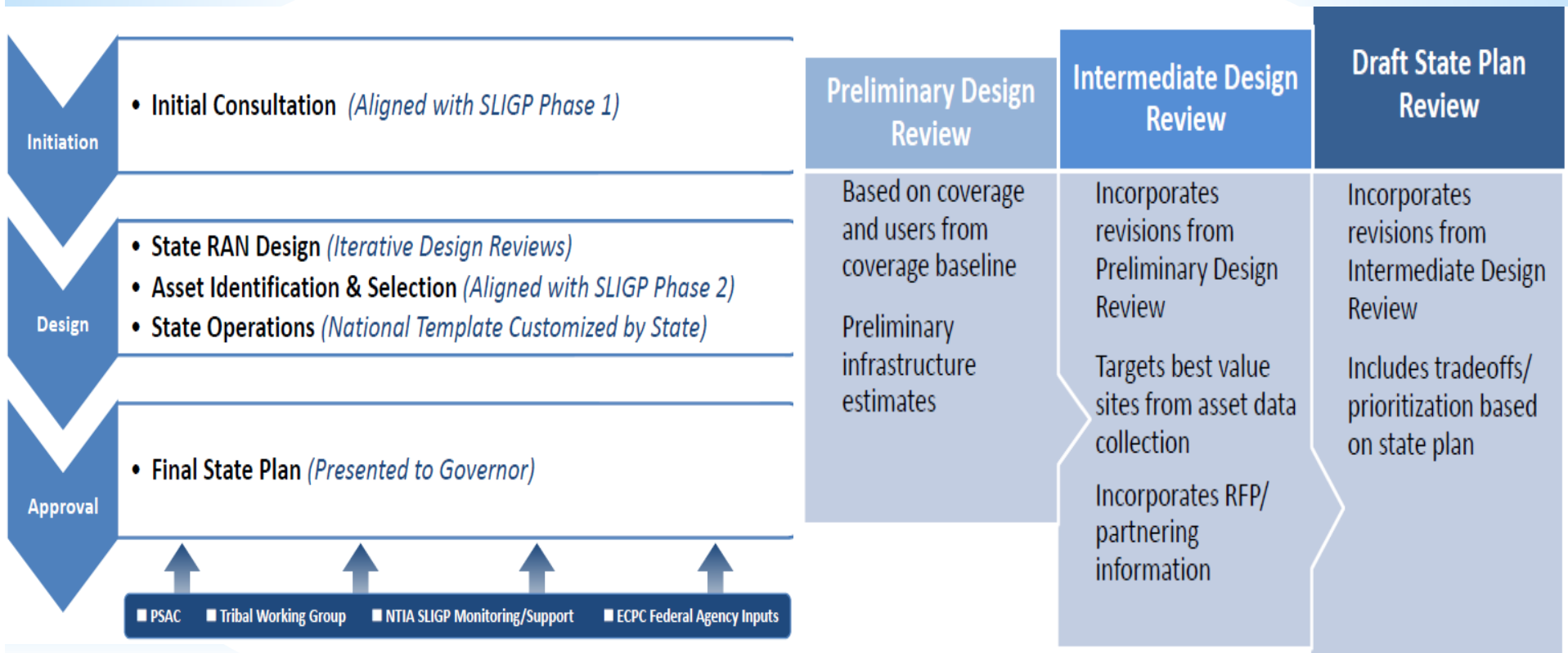


Mapping SLIGP and a Typical Wireless Network Design Process

1. Identify and define user requirements:
Should occur in SLIGP Phase 1
2. Develop a conceptual design based on the requirements: Should occur in SLIGP Phase 1
3. Identifies and assesses available resources to support the design: Will occur during SLIGP Phase 2
4. Establishes a detailed design using the identified resources and meets the requirements:
Will occur during SLIGP Phase 2

Results in Statewide RAN Design

FirstNet Vision of the Consultation and Design Process



The Planning Decision Process...



- Upon completing an RFP process, the FirstNet Authority will provide KY:
 - Details of its proposed portion of the FirstNet build out plan (RAN Design), and
 - The Kentucky build out funding and business plan.
- States have 90 days to determine if the FirstNet offer meets its public safety needs and decide whether to accept the FirstNet offer or to opt-out* and develop its own network

(*States can still apply for grant funding and to lease needed spectrum)

SLIGP - Eligible and Ineligible Costs

- Eligible Costs:

- Personnel Costs;
- Costs associated with planning meeting, including travel costs;
- Costs to develop, modify, or enhance statewide plans and governance structures;
- Costs for communications, education, and outreach activities;
- Costs to develop standardized MOAs;
- Costs to identify potential public safety users;
- Administrative, legal and training costs;

- Ineligible Costs:

- Site preparation;
- Broadband deployment, installation, construction, or the acquisition of equipment used to provide wireless broadband services.

Identifying the High-Level Planning Objective and Strategy

NPSBN/SLIGP High Level Objective

The primary objective of the SLIGP work is to ensure that the Commonwealth obtains a RAN that meets the needs of KY and all of its constituent public safety agencies. This can be achieved:

- Via the proposed RAN offered by FirstNet “Opt-In”;
- Via a RAN developed and managed by KY “Opt-Out”.

The recommended planning strategy maintains these options



Process to meet our High Level Planning Objective

To accomplish the Commonwealth's objective, the Baker/RCC Team will work with KSP and the first responder stakeholder community to:

- Ensure the needs of KY for the NPSBN are documented;
- Ensure KY is adequately prepared for consultation with FirstNet;
- Evaluate the FirstNet proposed RAN design, to determine if it meets the needs of the Commonwealth;
- Recommend action to assure the availability of effective public safety broadband capability if the RAN offered by FirstNet does not meet the needs of KY.



Coverage and Capacity - Preparation and Strategy

- It is possible that the FirstNet available funding will not support a RAN that meets all PS needs;
- While the FirstNet offered RAN will not be known until the consultation process is complete, an educated guess of the number of RAN sites FN will be able to offer can be developed; and
- A simulation of estimated coverage can be created:

If significant gaps are apparent,
options should be considered



Coverage and Capacity - Options to Address Gaps

- Accept what FN can offer, which may be inadequate for many users;
- Develop a phased implementation schedule based on priorities and hope that it will expand over time;
- Make preparations to address the anticipated gaps during the planning process, in parallel with working cooperatively with FN:

An action plan should be developed to address the gaps

Planning - Initial Action Plan

- The Baker/RCC team will perform a geographically - based needs assessment to compile PS broadband coverage/capacity needs;
 - OEC data is a suggested starting point, not a design
- The aggregated coverage/capacity needs will drive the design for the RAN within the Commonwealth;
- The requirements will be communicated to FirstNet and used during the consultation process.

Working with FirstNet



Planning - Additional Action Plan

- Maximize the use of existing assets: both government and commercial (part of outreach and data collection);
- Expand the user base beyond traditional first responders (part of outreach);
- Invite/Solicit contributions or partnerships with outside sources (upon direction from the Commonwealth):
 - Baker/RCC can develop an RFI to explore the interest of potential partners



While working with FirstNet





Specific Planning Objectives: Interactive Session

Planning Objectives - Coverage

- Establish coverage objectives:
 - OEC provided valuable data and a “suggested” baseline to be reviewed and updated;
 - Metro/High-Traffic areas:
 - In-building/Handheld/Mobile - What adjustments?
 - Rural areas:
 - In-building/Handheld/Mobile/Deployable - What adjustments?
 - Critical infrastructure: Review OEC list and update

Planning Objectives - Coverage

- Key facilities to address for coverage:
 - First responder facilities;
 - Schools;
 - Hospitals;
 - Other municipal facilities;
 - Others;

Planning Objectives - Capacity

- Establish capacity objectives:
 - OEC provided valuable data related to agencies;
 - Agency lists and users will be compiled with input received during the needs assessment;
 - Must also address specific events throughout the Commonwealth;
 - Derby, Thunder Over Louisville;
 - World Equestrian Games;
 - Other large events?;

Planning Objectives - Others/SCIP

- Replace Kentucky Wireless Information Network Service (KyWINS); Support KyWINS Messenger
 - Will drive coverage
- Achieving sustainable funding in the current fiscal climate is a priority for Kentucky.
 - Will drive the business plan

Outreach and Next Steps

Education and Outreach Plans

- Multiple sessions planned across the Commonwealth;
- Types of users to attend:
 - Public safety and first responder,
 - Local government & elected officials,
 - Other agencies (EMA, DOT, public works, etc.),
 - Utilities,
 - Federal users,
 - Others?



Education and Outreach Locations

Kentucky FirstNet Outreach Program

The locations for the initial phase of Kentucky's FirstNet Outreach program

Alexandria Fire Department

7951 Alexandria Pike
Alexandria, KY 41001

Date: 5/13/2014
Time: 9:00 AM - 12:00 PM



Ashland Community & Technical College

1400 College Drive
Ashland, KY 41101

Date: 5/14/2014
Time: 9:00 AM - 12:00 PM



Kentucky Transportation Cabinet Conference Center

200 Mero Street C-101
Frankfort, KY 40622

Date: 5/12/2014
Time: 1:00 PM - 4:00 PM



Kentucky Dam Village State Park

113 Administration Drive
Gilbertsville, KY 42044

Date: 5/22/2014
Time: 9:00 AM - 12:00 PM



Fraternal Order of Police Lodge

150 Corvette Drive
Bowling Green, KY 42101

Date: 5/21/2014
Time: 9:00 AM - 12:00 PM



The Center for Rural Development

2292 South Hwy 2
Somerset, KY 42501

Date: 5/20/2014
Time: 1:00 PM - 4:00 PM



Hazard Community & Technical College

One Community College Dr
Hazard, KY 41701

Date: 5/15/2014
Time: 9:00 AM - 12:00 PM



Overview of Education/Outreach Sessions

- Session One
 - Introduction and high level overview of the project and what to expect
- Session Two
 - Detail on the project, updates and timelines
 - Preparation for requirements gathering
- Session Three
 - Focused on requirements gathering
- Session Four
 - Focused on asset data collection

Education and Planning Sessions 2 and 3: Needs Assessment and Traffic Definition

- Prepare users for needs assessment process
 - Compile list of users today - consider future
 - Compile list of applications in use today - consider future
 - Identify usage patterns by department geographically throughout the Commonwealth
 - Investigate existing usage reports
 - Investigate historical information on events and incidences (locations, users involved, applications, etc.)

Education and Planning Session 4: Identification of Infrastructure

- Recommend participating agencies begin to identify potential infrastructure assets that can be used in the NPSBN deployment. Potential assets include:
 - Existing towers/water tanks,
 - Building rooftops,
 - Potential site locations,
 - Backhaul (fiber, microwave),
 - Data centers,
 - Staffing: maintenance, PMs, technicians.

Next Steps

- Compile list of agencies and contact names;
- Alert users of the upcoming Session 1 schedule:
 - Weeks of May 11th and May 18th;
- Get commitment for attendance;
- Develop educational material;
- Get Website operational;
- Conduct initial educational sessions.

Next Steps (Cont.)

- Finalize list of agencies and contact names;
- Prepare information for Initial Consultation Meeting with FirstNet:
 - Schedule first meeting in Sept/Oct;
- Develop additional educational material and prepare for requirements gathering;
- Educational Session 2 - schedule for Nov/Dec;
- Maintain latest information on Website.



Questions and Discussion