Testimony before the Joint Committee on Kansas Security
10 November 2016
Public Safety Communications

Colonel Chris Stratmann, Chief Information Officer
Kansas Adjutant General's Department

Good morning, I'm Col Chris Stratmann, Chief Information Officer for the Kansas Adjutant General's Department.

This morning I'm going to be briefing you on the status of three public safety communications areas; The Statewide Interoperability Executive Committee, Public Safety Broadband, or FirstNet, and the 911 Coordinating Council.

<u>Statewide Interoperability Executive Committee</u>

The Statewide Interoperability Executive Committee, or "SIEC" was created in 2007 by Executive Order 07-27. The current Chair of the SIEC is Colby Fire Chief Bob McLemore. The committee was created to provide governance and guidance as related to the interoperability of public safety communications systems. The group's primary emphasis has traditionally been on radio frequency communications, however, their charter also includes the area of data interoperability. Working with the Department of Transportation, the SIEC membership was extremely successful in establishing a model statewide interoperable public safety radio capability and the SIEC continues to monitor trends and developments in public safety communications. They also oversee the efforts of the Office of Emergency Communications which provides public safety radio training to first responders and deploys and operates two mobile towers/communications suites designed to augment the statewide radio system in times of disaster or surge operations. The SIEC is the primary formal body assisting Mr. Phil Witttmer, Kansas Chief Information Technology Officer, with the state's Public Safety Broadband, or FirstNet decision-making process.

<u>Public Safety Broadband/FirstNet</u>

In February of 2012, the U.S. Congress passed the Middle Class Tax Relief and Job Creation Act. The Act created the First Responder Network Authority (also known as FirstNet) as an independent authority within the National Telecommunications and Information Administration to provide emergency responders with a nationwide, high-speed, wireless broadband network dedicated to public safety use. Since I last briefed this committee in 2014, Kansas' federal grant-funded public safety broadband outreach coordinators have met with over 1700 Kansas first responders at over 200 different agencies to discuss their questions and catalogue their desires for a public safety network. In addition, they have conducted multiple surveys and have received over 2500 responses from public safety professionals. FirstNet officials have indicated that Kansas is a leader in this regard. On five occasions FirstNet representatives have made official visits to the state including an initial consultation and Single Point of Contact, and governance meetings.

FirstNet has issued a Request For Proposal for the nation-wide network and we hope to hear within the next 30 days who has been chosen for this project. As mentioned previously, Mr. Wittmer, and our

Statewide Interoperability Coordinator, Mr. Jason Bryant, have been working diligently with the SIEC and FirstNet to ensure the needs of Kansas responders are met as completely as possible. Approximately 3-4 months after the award is made, we hope to see a draft state plan for the buildout of a public safety-grade wireless communications system, with a final plan for Kansas expected in late summer 2017. Once that plan is received, the governor then has 90 days to accept the plan as presented, or "opt-out". Opting out requires that the state instead build out its own network, while still adhering to the standards outlined in the FirstNet legislation. We continue to explore the feasibility of all options available with the goal being providing the best possible product to Kansas first responders.

We remain active in the process through participation in Consultation Task Teams (CTTs) designed to focus on individual aspects of the nationwide network. Kansas has also developed a state-specific checklist to evaluate the FirstNet plan once it's delivered to the state.

911

The Kansas 911 Coordinating Council was created in 2012 via the Kansas 911 Act as a component element of the State tasked with monitoring the delivery of 911 services, delivery strategies for future enhancements to the 911 system and distributing available grant funds.

The implementation of Next Generation, or "NG" 911 capabilities is critical to increasing the safety of all Kansans. Next Generation 911 moves Public Safety Answering Points from legacy technology to a modern, Internet Protocol-based system. The promise of NG911 is a robust, reliable and interoperable digital architecture that allows the sharing of not only voice calls, but also photos, video and text.

The mission of the 911 Coordinating Council is to ensure the Public Safety Answering Points, or PSAPs, across the state and in turn the citizens of Kansas, can leverage all available resources to advance the implementation of NG911. There are 117 PSAPs across the state that until recently have operated in 117 separate silos; each having to maintain individual equipment with little to no connectivity to each other. These aging systems require periodic life-cycle replacement and most currently will not support the requirements for NG911. After extensive evaluation regarding how to maximize local, fee-based and grant funds while at the same time accomplishing the vast modernization required of NG911, the Coordinating Council issued a Request for Proposal for a centralized system. In February 2015 AT&T was awarded the contract to provide Kansas with a leading-edge NG911-capable hosted solution. To date 39 counties are now live on this system, another 32 have signed awaiting to come on-line and 13 more have indicated significant interest. When all of the aforementioned counties are complete, 80% of the state will be on the system.

In addition to reduced equipment costs, the advantages of the hosted system include the ability to share geospatial information, managed system security, the ability to relocate and operate out of any other location on the hosted system, and of course, a defined pathway to the advantages NG911 offers. Through the hosted solution, soon Kansans will be able to utilize text-to-911 when the situation dictates. This capability will be the first easily-recognized feature of NG911 to the public.

For those PSAPs choosing to not subscribe to the hosted solution, the council still enthusiastically supports their operations in order to ensure the needs of each jurisdiction are met. All PSAPs, regardless of whether they sign on to the hosted solution or not, are benefitting from the efforts of the

council. This is most evident in regard to the standardization of the data utilized to route calls and dispatch responders.

Your 911 Coordinating Council is made up of an extremely dedicated group of individuals chaired by Chief Dick Heitschmidt of Hutchinson. Along with a very small full-time staff and the volunteer members of the council, a large contingent of professionals in the areas of Geographic Information Services, cyber security and telephony have given their time to make this project a success. The effort put forth and achievements made have earned Kansas significant recognition at the national level that you all should be very proud of.

Lastly, I wanted to add that none of these entities/projects exist in Kansas in a vacuum. There is significant crosstalk and overlap occurring within the available time of those involved. That being said, the leadership of these groups all agree there is room for improvement in terms of unified governance and they continue to develop strategies toward that end.

There are additional materials included with the transcript of my testimony that provide expanded information.

I now stand by for any questions you may have.

Links:

Kansas SIEC
http://kansastag.gov/OEC.asp?PageID=567

FirstNet
http://www.firstnet.gov/

Kansas Public Safety Broadband
http://www.kansastag.gov/OEC.asp?PageID=507

Kansas 911 Coordinating Council
http://kansas911.org

Interoperability and Public Safety Broadband Governance for Kansas
Current as of 08 November 2016

Governor
Sam Brownback

Statewide Interoperability Executive Committee (SIEC)
Chair- Chief Bob McLemore

SLIGP Grant Manager
Bob Brown

State CITO
Phil Wittmer
(FirstNet SPOC)

911 Coordinating Council
Dick Heitschmidt

Adjutant General's CIO
Col Chris Stratmann

911 Administrator
Scott Ekberg

Statewide Interoperability Coordinator
Jason Bryant

911 Liaison
Lori Alexander

Interoperability Trainer
J.L. Ellis

Interoperability Trainer
VACANT

Public Safety Broadband Outreach Coordinator
Craig Divoll-Wichita

Public Safety Broadband Outreach Coordinator
Derek Voorhis-Topeka

Voting Members
Kansas Office of Information Technology Services
Kansas Adjutant General's Department
Kansas Highway Patrol
Kansas Department of Transportation
Kansas Sheriff's Association
Kansas Chapter of APCO
Kansas Association of Chiefs of Police
Kansas Board of EMS
Kansas Fire Chiefs Association
Kansas Association of Counties
Kansas Emergency Management Association
League of Kansas Municipalities
Kansas Native American Affairs Office
911 Coordinating Council
Mid-America Regional Council (KC Metro)

Advisory Members
Kansas Division of Emergency Mgmt
Kansas Division of Homeland Security
Kansas Department of Commerce

Authority

Coordination

- The State CIO position is the designated Single Point of Contact (SPOC).

- The Statewide Interoperability Executive Committee (SIEC) was formed in 2007 via Executive Order. Members of the SIEC are charged with planning, formulating policy and coordinating matters of public safety communications interoperability. The committee is also responsible for maintaining the state's Statewide Communications Interoperability Plan (SCIP). This collaborative group of individuals is committed to maintaining a multi-jurisdictional and multi-disciplinary partnership between all levels of government

Office of Emergency Communications (OEC)

![FirstNet® logo]

Key Factors to Consider for the Governor to Opt-In or Opt-Out of the FirstNet Plan

Under the Middle Class Tax Relief and Job Creation Act of 2012 (the "Act"), FirstNet will deliver a final State Plan to the Governor to make an Opt-In/Opt-Out Decision. The decision identifies whether FirstNet or the state/territory takes on the responsibility to deploy, operate and maintain the State Radio Access Network (RAN). Regardless of the state/territory decision, the RAN must interconnect with the national FirstNet core network.

Key Steps – National Deployment

The State/Territory Decision: One time

Opt-In — RAN only — FirstNet takes on responsibility to deploy, operate, and maintain RAN

- Funds to build network — funded by FirstNet/partner
- Funds to operate/upgrade network — funded by FirstNet/partner
- User fees — funded by individuals/agencies
- Continuing consultation — staffing funded for by the state/territory, as needed or requested

Opt-Out — RAN only — state/territory takes on responsibility to deploy, operate, and maintain RAN
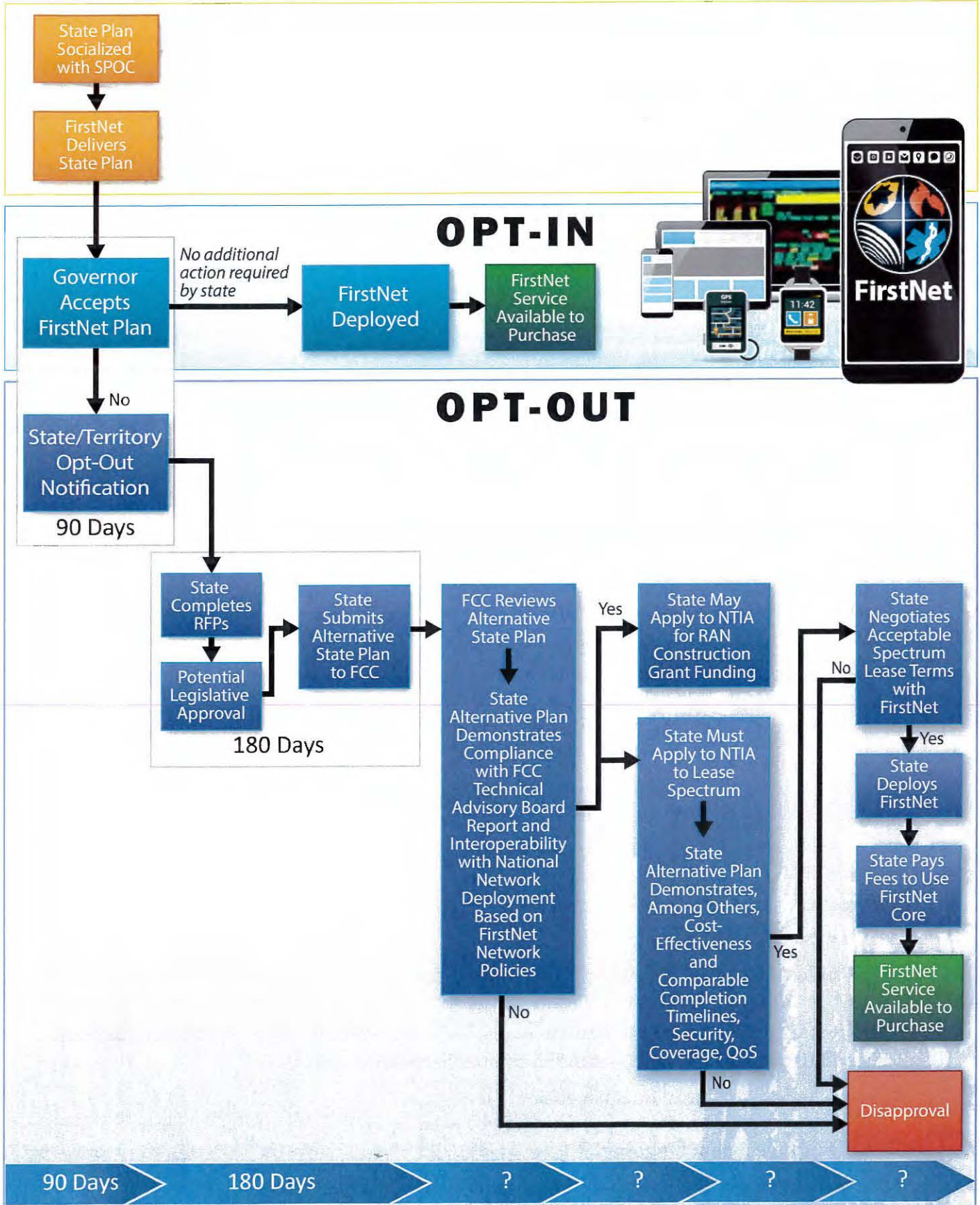
Alternative plan approval process –

- submission to and approval by FCC of the interoperability requirements under the Act of the alternative RAN plan
- application to and approval by NTIA of Act requirements (including ongoing interoperability cost effectiveness, and comparable security, coverage, timelines, and quality of service) to negotiate spectrum lease terms with FirstNet
- negotiation of spectrum capacity lease with FirstNet
- Funds to build network — funded by state/territory resources with potential NTIA grant for some portion
- Funds to deploy, operate, and maintain network including compliance with national network policies and use of national core — funded by state/territory resources
- User fees — funded by individuals/agencies

The Agency Decision: Ongoing

Agency by Agency buying of FirstNet services — once network is deployed

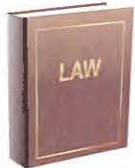*Questions? Contact FirstNet at info@firstnet.gov | www.firstnet.gov | 571-665-6100*

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Opt-In/Opt-Out Process

FirstNet®

State Plan Socialized with SPOC

↓

FirstNet Delivers State Plan

↓

OPT-IN

Governor Accepts FirstNet Plan → *No additional action required by state* → **FirstNet Deployed** → **FirstNet Service Available to Purchase**

FirstNet

↓ No

State/Territory Opt-Out Notification

90 Days

OPT-OUT

State Completes RFPs → **Potential Legislative Approval** → **State Submits Alternative State Plan to FCC** → **FCC Reviews Alternative State Plan**

180 Days

State Alternative Plan Demonstrates Compliance with FCC Technical Advisory Board Report and Interoperability with National Network Deployment Based on FirstNet Network Policies

— Yes → **State May Apply to NTIA for RAN Construction Grant Funding**

→ **State Must Apply to NTIA to Lease Spectrum**

State Alternative Plan Demonstrates, Among Others, Cost-Effectiveness and Comparable Completion Timelines, Security, Coverage, QoS

→ No → **State Negotiates Acceptable Spectrum Lease Terms with FirstNet**

— Yes → **State Deploys FirstNet** → **State Pays Fees to Use FirstNet Core** → **FirstNet Service Available to Purchase**

No

Yes

No

Disapproval

| 90 Days | 180 Days | ? | ? | ? | ? |

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FirstNet by the Numbers

VISION

To provide emergency responders with the first high-speed, wireless nationwide public safety broadband network (NPSBN)

THE LAW
2.22.12
FirstNet becomes Law
PL 112-96

FUNDING
$7B
authorized to build the FirstNet Network. Funded by spectrum auctions through 2022.

GOVERNANCE

The FirstNet Board has **15** members, including those with telecommunications and public safety backgrounds.

Each Governor appoints **1** single Point of Contact and governing body to represent the state's interests to FirstNet.

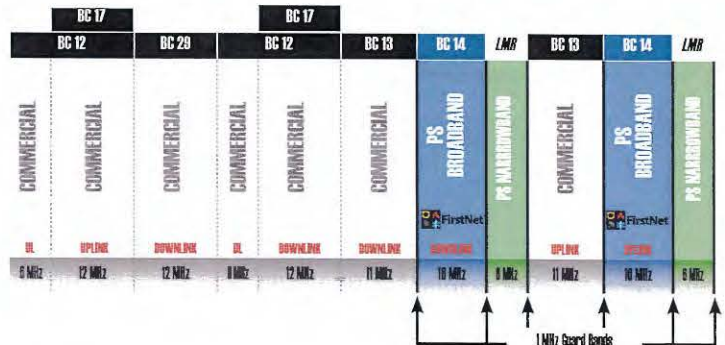**43** member Public Safety Advisory Committee (PSAC) advises FirstNet on public safety intergovernmental matters.

BAND CLASS (BC) 14
20MHz of bandwidth has been dedicated to public safety in the prime upper **700MHz** frequency range.

WHO WILL USE FIRSTNET

4 Million potential FirstNet public safety users nationwide

FirstNet's goal is to ensure there is service in all **50** US states, **5** territories, and the District of Columbia.

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FirstNet by the Numbers
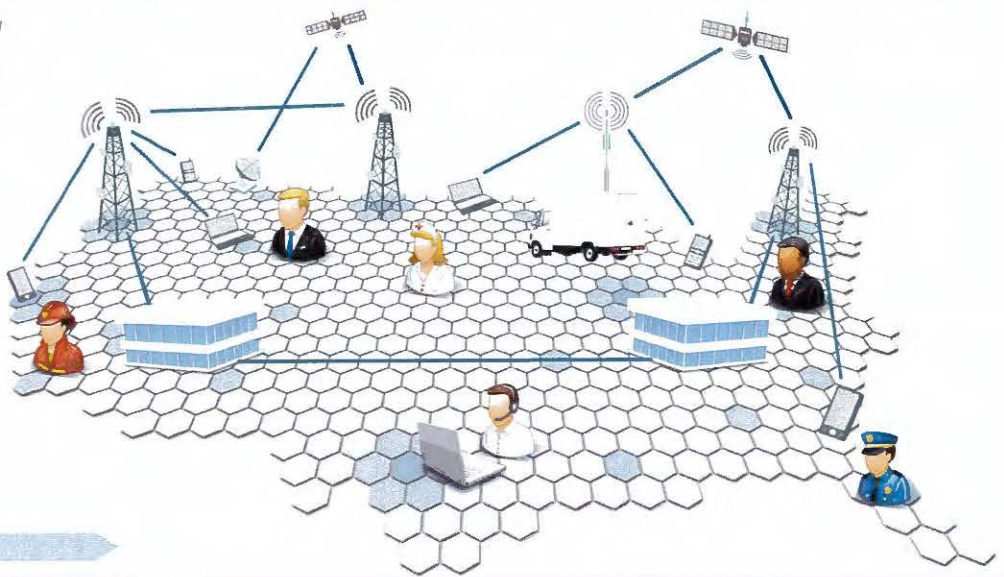
Coverage challenge: Providing service to **60,000** public safety agencies, **3,144** counties, and **566** federally recognized tribes in coverage areas including urban and rural

FIRSTNET NETWORK

To meet this challenge, FirstNet is considering a network architecture using land-based cellular, satellite infrastructure and deployable systems to provide coverage.

4G LTE is 10x
faster than 3G wireless service

THE ROAD TO THE NPSBN

2014-2016
- Strategic Program Roadmap
- Conduct Consultation
- Collect data and design network
- Develop and award comprehensive RFP

2017+
- Governor reviews design offer and opts in or out of FirstNet network deployment
- Integrate Next Generation 9-1-1

2022
Network substantially in operation

HOW MUCH WILL IT COST?

To offer services that meet the needs of public safety at a cost that's competitive and compelling to users.
— FirstNet Tenet

SOURCES FOR DATA:
60,000 public safety agencies (dhs.gov) | 3,144 counties (usgs.gov) | 566 federally recognized tribes (bia.gov)

FirstNet™ First Responder Network Authority
For more FirstNet facts visit: www.firstnet.gov

Thank you to the State of Oregon for the initial development of this document

(revised October 2016)

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Kansas NG9-1-1

Kansas 911 Coordinating Council

this issue

Upcoming Events

911 Coordinating Council Meetings- October 17, 2016

Holiday Inn Wichita East I-35

Visit the 911 Coordinating Council website calendar for the full schedule

http://kansas911.org/Calendar.aspx?EID=22

User's Group Meeting for Vesta and Vesta Locate

Join us in the Elm Room at 4pm on October 17th

Vesta User Training Holiday Inn Wichita East I-35

October 17, 2016

Vesta user training in the Pine Room

Two sessions will be held for agencies currently using the NG9-1-1 Call Handling System supported by the 911 Coordinating Council. Sessions are on October 17th, 2016 from 0800-1200 and 1300-1700 hours.

Sign up for a session by emailing Lori Alexander at lori.alexander@kansas911.org

NG911 Data Steward Class Holiday Inn Wichita East I-35

October 17th 1pm-4pm Elm Room Register at the link below

https://www.eventbrite.com/e/kansas-ng911-gis-data-steward-certification-classes-ks-apco-fall-conference-in-wichita-registration-27035354473

Kansas Fall APCO Conference

Wichita- October 17th -19th, 2016

Sedgwick County Emergency Communications is honored to host the Kansas APCO Fall Conference, celebrating those that represent the thin gold line throughout the state of Kansas. The conference, held October 17th through October 19th, will be full of opportunities to celebrate your excellence will learning more about your chosen profession and networking with other gold liners. The conference is being held at the newly renovated Holiday Inn located at 549 S. Rock Rd. in Wichita. Please join us!

Register at:

http://www.ksapco.org/

Kansas 911 Coordinating Council
Topeka, Kansas
www.kansas911.org
Scott Ekberg, Administrator
785-438-8440

NG911 Issue 07 September 2016

Kansas 911 Coordinating Council Web Portal

Do you have an idea to enhance the map? Ideas on data entry for GIS? Submit a Change Order Request (COR) on the Web Portal for review and consideration.

The Web Portal can be accessed by going to:
https://portal.kansas911.org

Message from the Chief
Chief Dick Heitschmidt, NG9-1-1 Chair

The Executive Committee recently met in Hutchinson to work on the 911 Coordinating Council's Strategic Plan. Members from AT&T, our partner's in the NG911 call handling system worked alongside us. This meeting resulted in an alignment of our strategies for migrating the Kansas NG911 system to full NG911 capabilities with AT&T's strategic direction.

The 911 Coordinating Council has a dedicated team of professionals working hard to ensure Kansas PSAPs are ready for NG911 now and as it evolves. The team focuses on every aspect of 911, including operations, administration, GIS and technology. The expertise of the team is a value add to the NG911 system.

View this video to learn more about our partnerships and NG911.
https://www.youtube.com/watch?v=NIEM5yHzly0

Chief Dick Heitschmidt
(620) 692-2820

Kansas NG911

Ready to join the Kansas PSAPs who have made the switch to the Kansas NG911 network?

Put our team of professionals to work for you!

Contact Scott Ekberg to schedule a site consultation!

scott.ekberg@kansas911.org

STAR OF THE '300 CLUB'

Introducing: Phill Ryan- Implementation Technical Support Specialist

Independence Police Department, Go Live September 29, 2016. Congratulations on becoming the 38th PSAP on the call handling system!

Branden Morgan, Tammy Freeman and Paul Wainscott working on NG911.

Kansas 911 Coordinating Council
Topeka, Kansas
www.kansas911.org
Lori Alexander, 911 Liaison
785-646-1045 -office
785-393-5124 –cell

What is your role with Kansas NG911? My title is "Implementation Technical Support Specialist" for the Coordinating Council's hosted 911 deployment project. The title "ITSS" is to assist in all technical aspects of rolling out this new hosted 911 service to Kansas PSAP's. Since 911 hosting is relatively new to the 911 PSAP world, there are a great number of technical elements to integrate for a successful installation. Elements such as; how to integrate legacy phone service into dispatch, how wireless and landline 911 databases will function in a hosted world with each different telco, how do upgrades affect PSAP's operational ability, but probably most importantly to understand the PSAP's current environment and be sure that we can bring functionality of conducting operation's into the Next Generation Call Handling. I have had an entire career in computer/telephony. The last 12 years were dedicated to 911 service. This role perfectly fits my background.

How do you like working on Kansas NG911? Working with 911 professionals to bring the Next Generation of 911 to their PSAP is the highlight of my career.

They have an enthusiasm to move into this new world of 911 which makes all aspects a blast to be involved with.

What do you see as the greatest challenge for NG911? We are using todays IP technology to usher in Next Generation of 911. The challenge is getting the complete roadmap for NG911 rolled out as fast as we want. It will take a couple more years to get the full NG911 future architecture in place, but Kansas is in a great position to keep up at the perfect pace.

What do you want our newsletter readers to know? The Kansas 911Coordinating Council has developed what I would consider to be the best plan and team in the entire country to be rolling out NG911. The Airbus Hosted design model, the GIS remediation strategy, the AT&T implementation and support system will make any state in the Union considering NG911 stand up and take notice. This NG911 endeavor is something that Kansans take a backseat to no one on and we all can be proud of this huge step for public safety.

Letter from the Editor- Lori Alexander, NG9-1-1 Liaison

I hope you all had a great summer, full of wonderful memories. This summer was busy for the 911 Coordinating Council and this fall is no exception. We are gearing up for the Kansas APCO Fall Conference. We have several presentations at the conference. I hope you are able to join us.

Projects, projects and more projects! Stay tuned here for more information on a learning management system (LMS) to assist PSAPs with tracking, training, certification and policy acknowledgement.

I held two web conferences regarding entering agent accounts into the DDS server. If you were unable to attend the web conference and have questions on how to add/change/delete a Vesta user, a video of the web conference is available on the web site. The link is:

http://kansas911.org/137/NG 911-Agent-Account

If you still have questions contact me at

lori.alexander@kansas911.org

This Month's Q&A

Q: Is there a user's group available for the 911 Coordinating Council's Call Handling and Mapping System?

A: We are working on defining a Vesta User Group and Vesta Locate (map) User's Group. A user's group meeting will take place during the Pre-Conference at Kansas APCO.

Join us at the Holiday Inn Wichita East I-35 on Monday, October 17 at 4pm in the Elm Room.

NG911 Story

Captain Lisa Helkenberg with the Independence Police Department reached out to the 911 Coordinating Council when they had an urgent need to relocate their PSAP and update their call handling equipment.

Scott, Phill and AT&T went to work evaluating the current system and how they would be able to make the schedule work for all parties. The GIS committee worked diligently with Independence/Montgomery County. AT&T and Airbus modified the schedule to accommodate the urgent need. On September 29th it all came together for another successful "go-live". Captain Helkenberg expressed her appreciation to the team and to the AT&T technicians for their great customer service. Captain Helkenberg indicated they went above and beyond!

EYE ON IT

Vesta

Release 6.1

Release 6.1 is coming soon!
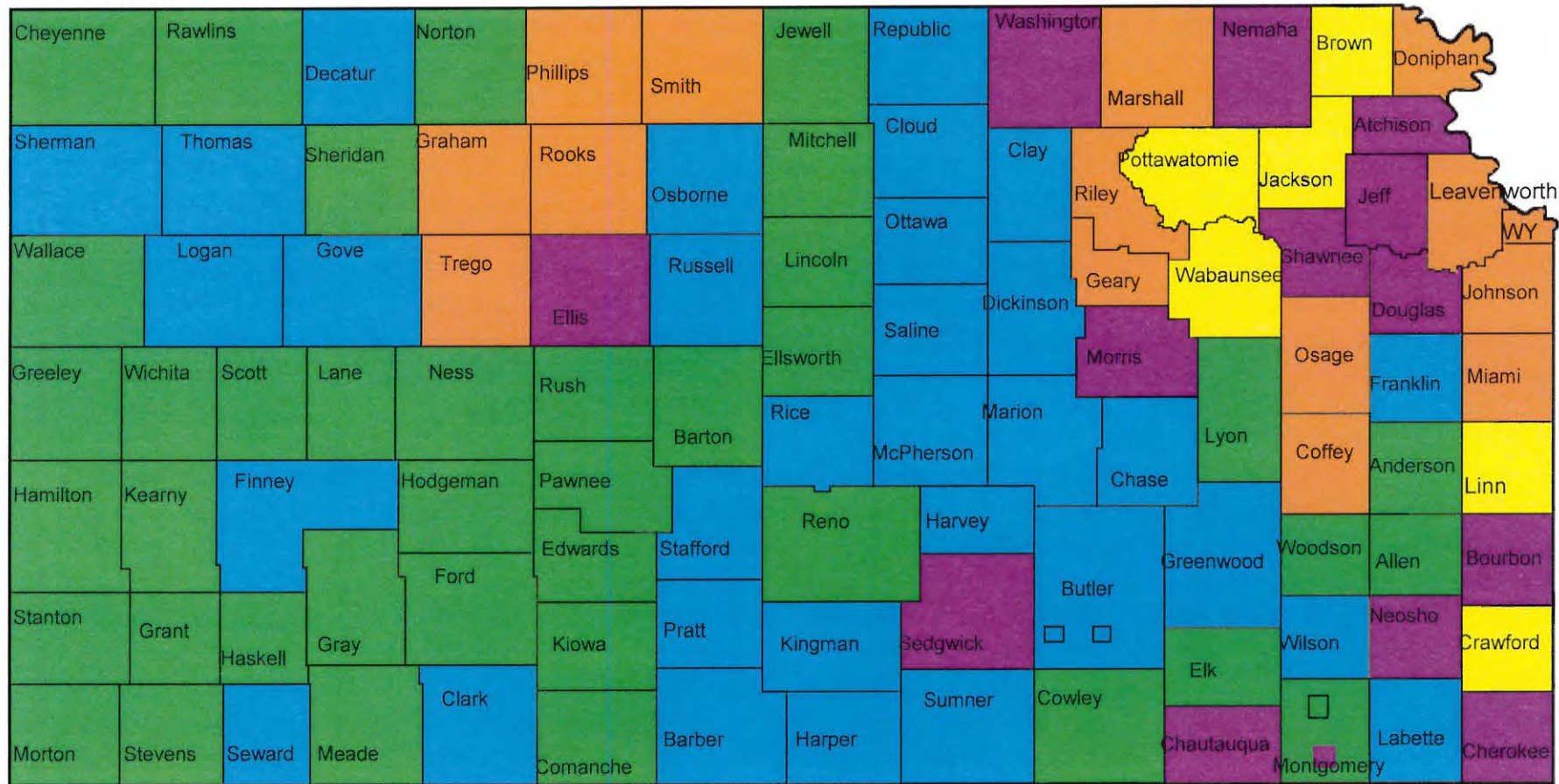
AT&T has the release in their test labs!

A schedule will be sent out by email as the information is available. In addition, I will be reaching out to PSAPs by phone.

Lori Alexander, 911 Liaison

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NG911 Status Map – 11/03/2016

🟩 = Live on System	🟦 = In Queue	🟪 = Interest Indicated – No SOR
🟧 = Other System Utilized	🟨 = No Indication of Intent	