STATE OF WISCONSIN
DEPARTMENT OF JUSTICE

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Tim Pierce
Statewide Interoperability Coordinator
Interoperability Unit
608/261-7536
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Date: 8/25/14

To: Mr. David Buchanon, Director of State Consultation, FirstNet

From: Tim Pierce, Wisconsin State Single Point of Contact (SPOC) on behalf of the Interoperability Council

Re: FirstNet Initial Consultation Package Response

Mr. Buchanon,

Enclosed you will find the State of Wisconsin's response to the FirstNet Initial Consultation Package detailing the information requested as received on April 30, 2014.

Contacts:

State of Wisconsin Single Point of Contact on behalf of the Interoperability Council
Tim Pierce
piercetj@doj.state.wi.us
608/261-7536

Thank you for your consideration of Wisconsin.

Tim Pierce
Statewide Interoperability Coordinator
State of Wisconsin Single Point of Contact
WI Department of Justice

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Governance Body:

On August 16th, 2012 by letter Governor Walker designed "the Interoperability Council as Wisconsin's coordinator for the nationwide Public Safety Wireless Broadband Project (PSWB) and serve as the point of contact for consultation with FirstNet."

The Interoperability Council is created in Wisconsin State Statute 15.108(18) with the following membership:

Agency heads or their designees:
- The Attorney General
- The Adjutant General
- The Secretary of Natural Resources
- The Secretary of Transportation
- A representative from the Department of Administration with knowledge of information technology

Governor appointed:
- a Chief of Police
- a Sheriff
- a Chief of a Fire Department
- a Director of Emergency Medical Services
- a Local Government Elected Official
- a Local Emergency Management director
- a Representative of a Federally Recognized American Indian Tribe or band in this state
- a Hospital Representative
- a Local Health Department Representative
- one other person with relevant experience or expertise in interoperable communications

The Chairperson and Vice Chairperson are designated by the Governor.
Chairperson – Sheriff Matt Joski
Vice-Chairperson – Chief Tom Czaja

Additional information is available at http://www.interop.wi.gov

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Attendees:

On June 19th, 2014 the Interoperability Council formally recommended the following required Initial Consultation attendees and desired attendees:

Required:
Statewide Interoperability Coordinator – Tim Pierce
State Chief Information Office – David Cagigal
Interoperability Council Chair – Sheriff Matt Joski
Staff Representative of the Governor

Desired:
All other Interoperability Council Members
Regional Interoperability Coordinators
State Broadband Director – Tithi Chattopadhyay
Public Safety Wireless Broadband Planner – Terek Taillon

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Scheduling:

The Interoperability Council would like the State Single Point of Contact to work directly with FirstNet on scheduling in the first or second quarter of 2015.

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Wireless Contract Vehicles:
The state has about 14,000 wireless devices in service and are required to have mobile device management on any device that can connect to the enterprise. In order to get coverage throughout the state we have to have multiple providers. In some areas we have issued waivers for agencies to subscribe to a non-contracted vendor if none of the contracted vendors can provide coverage.
This contract is for new wireless telephony and broadband equipment, service plans and support to be provided throughout the State of Wisconsin. The contract is a mandatory enterprise agreement that shall be used by all agencies and UW campuses. The contract is also available for municipalities.

The new contract will include the following providers, who are authorized to provide service plans and equipment anywhere in the State of Wisconsin:
-AT&T Mobility
-Verizon Wireless
-U.S. Cellular
-Sprint

The scope of the contract includes wireless devices (voice-only, smartphones, Apple devices, tablets), service plans for wireless voice, data-only (Aircards) and voice/data combination plans(Smartphones).

Rates / Fees - AT&T Mobility

State Voice Plan:	
State Voice (Local/National)	$0.00 - monthly access $0.06 - per incoming minute $0.06 - per outgoing minute $0.06 - per mobile to mobile minute $0.06 - per toll-free minute $0.06 - per directory assistance minute $1.99 - per directory assistance call No charge for: Long distance Intrastate roaming Interstate roaming

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State SmartPhone Data Plan	
	Unlimited: $27.00 - monthly access **5 GB with Tethering capability:** $37.00 - monthly access $10.00 - per GB over 5 GB allowance

State Laptop, Tablet and Mi-Fi	
	5 GB $37.99 - monthly access $10.00 - per GB over 5 GB allowance 3GB -$26.95 monthly access Unlimited $37.99 - data speed may be reduced with

Rates / Fees - US Cellular

State Voice Plans:	
State Rate Plan (Local/National)	$0.00 - monthly access $0.05 - per incoming minute $0.05 - per outgoing minute $0.05 - per mobile to mobile minute $0.05 - per toll-free minute $0.05 - per directory assistance minute $1.95 - per directory assistance call Unlimited Incoming Minutes or Unlimited Mobile to Mobile Features can be added for $10 each No charge for: Long distance Intrastate roaming Interstate roaming **Add-Ons:** $10.00 - Unlimited Incoming $10.00 - Unlimited Mobile to Mobile with other US Cellular

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State SmartPhone Data Plan	
5GB	**5GB:** $24.95 - monthly access $0.10 - Per MB over 5GB
Tethering	**Tethering Service** $25 – monthly for 5GB $.10/MB (4200 monthly cap) over 5 GB Tethering allows a SmartPhone handheld device to be used as a modem for connecting a laptop to the Internet. Total data transmission between devices is limited to five gigabits (5GB) per month. Tethering Service may be added and used in conjunction with any data plan including the State's contracted plans as well those available to the general public. Click here for installation instructions.
State Aircard Data Plan	
	5GB: $39.96 - monthly access $0.10 - Per MB over 5GB **Note** – Click here for information on other US Cellular aircard data plans.
Tablet Data Plans	
	$72.00 - 10 GB $40.00 - 5GB $22.00 - 2GB $10.00 - Per GB over

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Text /Picture /Video Messaging Plans	
	$0.10 - Per text message (pay as you go). $0.25 - Per picture/video message (pay as you go). $4.95 - Text Messaging 250; includes 250 outgoing, unlimited incoming, $0.10 per outgoing text over 250. $9.95 - Text Messaging 750; includes 750 outgoing, unlimited incoming, $0.10 per outgoing text over 750. $14.95 - Unlimited text messaging. $2.95 - Picture/video Messaging 20, includes 20 outgoing, unlimited incoming, $0.25 per outgoing picture/video over 20. $5.95 - Picture/video Messaging 50, includes 50 outgoing, unlimited incoming, $0.25 per outgoing picture/video over 50. $10.95 - Picture/video Messaging 100, includes 100 outgoing, unlimited incoming, $0.25 per outgoing picture/video over 100. $19.95 - Unlimited text, pictures, video. Note ~ When ordering text/picture/video messaging, specifically state which service(s) you want established on the service order. For example, if you want pay as you go text/picture/video messaging established, order pay as you go text and pay as you go picture/video messaging.

Vehicle Monitoring Plan

All Vehicle Monitoring Devices (see equipment matrix for Delphi Car Connect Device) must be activated as part of a Shared Data Plan structure. For more information click here

Monthly Device Recurring Charge will be $10 (on the bill it will show as two $5 charges) and an applicable Shared Data Plan

Shared Data Plans will be eligible for the State of WI Alternative Plan discount of 25% (this does not include the $10 per month charge)

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Shared Data Plans

SMB Shared Data Plan Structure Shared Data Offers

Offers	MRC	Max # of Devices
1 GB	$10	10
2 GB	$20	10
4 GB	$30	10
6 GB	$40	10
8 GB	$50	10
10 GB	$60	10
12 GB	$70	10
14 GB	$80	10
16 GB	$90	10
18 GB	$100	10
20 GB	$110	10
30 GB	$185	25
40 GB	$260	25
50 GB	$335	25

Device Connection

USB Modem	$20
Hotspot	$20
Tablet	$10
Vehicle Monitoring	$10

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Sprint Rate Sheet

State Rate Plan (Local/National)	$3.00 - monthly access $0.06 - per incoming minute $0.06 - per outgoing minute $0.06 - per mobile to mobile minute $0.06 - per toll-free minute $1.99 - per directory assistance call No charge for: Long distance Intrastate roaming Intrastate roaming Optional Add Ons: Text Plans; 300 Text incoming & outgoing $2.00 per month Text Plans; 1,000 Text incoming & outgoing $6.00 per month Text Plans; Unlimited Text incoming & outgoing $10 per month Mobile to Mobile; Unlimited Sprint mobile to mobile $5.00 per month Sprint Direct Connect; Unlimited Direct/Group Connect $10.00 per month Night/Weekends; Unlimited Night Weekends starting @ 9pm $5.00 per month
State SmartPhone Data Plan	
	Unlimited: $44.99 - monthly access **5GB:** $39.99 - monthly access
State Aircard Data Plan	
	Unlimited: $37.99 - monthly access
State Tablet Data Plan	
	6GB: **$39.99 - monthly access**

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Verizon Rate Sheets

State Voice Plans:	

State Voice Plan ~ Wisconsin	$0.00 - monthly charge
	$0.06 - per incoming minute
	$0.06 - per outgoing minute
	$0.06 - per mobile to mobile minute
	$0.30 - per interstate roaming minute
	$0.06 - per toll-free minute
	$0.06 - per directory assistance minute
	$1.99 - per directory assistance call
	
	No charge for:
	Long distance
	Intrastate roaming
	
	Optional add-ons:
	   $5.00 per month - 500 night/weekend minutes
	   $5.00 per month - 500 mobile to mobile minutes

State Voice Plan ~ National	$9.00 - monthly charge $0.06 - per outgoing minute $0.06 - per incoming minute $0.06 - per directory assistance minute $1.99- per directory assistance call Note – Includes 500 Verizon mobile to Verizon Mobile minutes No charge for: Long distance Intrastate roaming Interstate roaming

State SmartPhone Data Plan	
	Unlimited Smartphone Data Plan: $30.00 – monthly access (with any voice plan)

State Aircard / Tablet Data Plan	
	• Unlimited Mobile Broadband Data Plan: $39.99- monthly access • 5 GB Mobile Broadband Data Plan: $35.99- monthly access (Overage charge $10/GB) • 2 GB Mobile Broadband Data Plan: $30.00-monthly access (Overage charge $10/GB)

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Outreach Plan:

The following is Wisconsin's Outreach and Education plan which will change during the planning and implementation process.

Project Purpose:
1. Prepare the State of Wisconsin and its public safety communications governance structure for the Wisconsin/FirstNet consultation.
2. Equip the State with the necessary information to engage in a fruitful consultation with FirstNet that accurately supports the needs of its stakeholders while ensuring network sustainability.
3. Perform the Wisconsin-FirstNet consultation process required under The Act.
4. Facilitate the deployment of the NPSBN in the state of Wisconsin.

Project Goals:
1. The network is deployed in a manner consistent with all stakeholder requirements.
2. The network achieves a universal or near-universal level of adoption throughout the state.
3. The network is financially and technically sustainable at a cost level which does not unreasonably burden Wisconsin taxpayers.
4. Interoperability is enhanced in the state as a product of adoption of the network.
5. The network and its services substantially enhance first responder ability to protect human life and property.
6. The network and its services increase responder personal safety.

Specific Outreach Mechanisms:
1) Presentations and Meeting Attendance- Will be planned and tracked by Broadband Planner and SWIC/RICs.
   a. Ongoing meetings between Broadband Planner and EM directors around the state.
   b. Regional SCIP Implementation Councils
   c. Interoperability Council Meetings
   d. WI State Fire Chiefs Association Meetings
   e. WI Chiefs of Police Association Meetings
   f. Badger State Sheriff's Association Meetings
   g. Wisconsin State Firefighters Association Meetings
   h. Wisconsin EMS Association Meetings
   i. Wisconsin Emergency Management Meetings
   j. WIPSCOM Meetings
   k. MABAS Meetings
2) Web-based outreach and newsletter

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a. Broadband Planner creates WI PSBN webpage on WI interop site.
b. WI FirstNet Facebook Group and Twitter feed
    i. Distribute formal invites at interoperability meetings and presentations
    ii. Post quarterly newsletter
c. Quarterly newsletter
    i. Broadband Planner will create quarterly newsletter released July 2014, followed by October 2014, January 2015, April 2015. Re-evaluation after this period.
    ii. Newsletter will be sent to individuals identified via individual outreach by Broadband Planner.
    iii. Newsletter will include, but not be limited to, the following topics:
        1. New announcements from FirstNet
        2. Current live and BTOP network status
        3. One selected story related to either devices, cellular standards development, or public safety communications.
        4. Profiles and contact information for WI PSBN personnel (SPOC, BB Planner, RICs, PSWBG members, etc)
        5. Current progress in Wisconsin.
        6. FAQ

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Barriers:

At this time Wisconsin has not identified any specific legal barriers that would impede its ability to participate fully in the consultation process.

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Questions for FirstNet:

Wisconsin requests formal answers in writing from FirstNet on the following questions:
Opt-in / Opt-out Questions

1. When will states and territories need to make an opt in/opt out decision? The law identifies that the states will have 90 days to decide once they're notified about the details of FirstNet's plan for the state/territory and FirstNet's RFP process. When does FirstNet intend to conclude these processes.?

2. If states or territories want to not opt-in or opt-out to the FirstNet plan, but instead wait and see, or do nothing at all, what is the process?

3. There has not been clarification of who retains "control" or "ownership" over existing local/state/tribal infrastructure assets such as the statewide LMR infrastructure in the event FirstNet decides to utilize the existing assets or state-built NPSBN sites. Is FirstNet then a:

    a. Partner with mutually shared colocation of equipment
    b. Lease paying tenant at a local or standardized national rate
    c. Controlling authority over existing infrastructure they utilize.
    d. Owner of the infrastructure they utilize

4. If a state/local/tribal agency invests in additional RAN site(s) to add coverage in areas that have poor coverage:
    a. Will there be any financial credits from FirstNet for the investments that were made with non-FirstNet/federal dollars for the network.
    b. Who owns the additional RAN that is added by local/state/tribal investments to the FirstNet network?
    c. Are there additional costs for the new RAN to be added to the network (network integration costs) other than local/state/tribal support for the new RAN?

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Spectrum

5. What is FirstNet's plan on how the PSST / D-Block spectrum and Backhaul bandwidth are to be used?
   a. Public Safety users only, no other use?
   b. Commercial use allowed with Public Safety having priority via a ruthless preemption mechanism?
   c. Consumer + Commercial use allowed with Public Safety having priority via a ruthless preemption mechanism?
   d. How does FirstNet envision the workings of the Ruthless Preemption and Local Control mechanism(s)?

6. If FirstNet builds into an area with no existing cellular / LTE coverage, will Consumer / Commercial traffic be allowed on that portion of the system?

7. How does FirstNet plan to address LMR systems that were operating in the current broadband spectrum before the FCC realigned the 700MHz band to accommodate the NPSBN? This would involve:
   a. Costs to reprogram / modify / upgrade / replace equipment
   b. Timelines to move the current LMR incumbents.

8. Regardless of Opt-in/Opt-out status will a State, or other entity, need to execute a spectrum manager lease agreement? If so, why?

Commercial Carriers

9. Does FirstNet envision requiring Public Safety users to leave their current commercial networks and/or LMR systems and join the FirstNet service?

10. How are Federal, State and local cellular taxes going to be affected if a governmental NGO is doing the billing?

11. Will FirstNet be required to also charge for a States' "Police and Fire Protection Fee"?

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12. Will there be different rate plans for local governmental agencies based upon data rates?

13. Will FirstNet have a sharing or Pooled data plan per governmental agency or city entity?

14. Will FirstNet provide our state with guaranteed assurance that the FirstNet commercial carrier system will be better than our current mission critical, public safety grade system at no cost greater to our public safety users than they are paying per month today with complete coverage of our state?

15. How will FirstNet communicate planned and unplanned system and localized outages to public safety?

16. Is FirstNet currently working with any carriers to design the network architecture in advance of the state planning process?

FirstNet Consultation with States and Territories

17. How will FirstNet address the concerns of transparency in all of their efforts (planning, data collection, outreach, design, RFP, contractor solicitation, etc.) to ensure public safety supports the FirstNet direction?

Inventory and data collection for communication assets

18. What Data is FirstNet requiring we collect?

19. Will Federal communications assets as well as commercial carrier assets within our state boundaries be provided to us as part of our inventory, or will each 56 state and territory need to go to each carrier and each federal government agency to secure that information?

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Financial/Legal

20. What does FirstNet envision the contractual / billing structure to be?

   a. Individual Agencies contract with a Federal organization like FirstNet, The Federal organization contracts with the Vendor
   b. Individual Agencies contract with the State, the State contracts through FirstNet to the Vendor, or the State contracts with the Vendor directly.
   c. Individual Agencies contract with the Vendor directly

21. Does FirstNet envision a complaint or appeals process for service and billing issues?

22. Does FirstNet have any draft contracts, Service Level Agreements, or other documents available for review?

23. Will the States be expected to indemnify FirstNet or any other party?

24. Will local/state/tribal entities be able to or be responsible for maintaining FirstNet RAN within the states?

25. The law states that FirstNet will be responsible for constructing, managing and maintaining the nationwide network, but what impact will that have on state and local procurement for infrastructure that may be added or partnered to meet local requirements, or any state and local zoning restrictions?

26. To which degree do states have the ability to broker novel partnerships and explore innovative business models without completely opting out of FirstNet's proposal and building its own RAN? Is this a topic FirstNet will explore in its consultation with the states?

27. What financial value, if any, is FirstNet assigning to incumbent public safety infrastructure and human resources that FirstNet may utilize to deploy networks in each state?

28. Will funding be available for terminal devices from FirstNet? Products used today by Public Safety are usually subsidized by the commercial carrier they utilize.

29. What is the recapitalization approach for FirstNet? How does FirstNet plan to fund future improvements?

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Technology

30. Public Safety communications systems are often rendered ineffective due to their reliance on third party backbones. The current FirstNet model is asking states to utilize this model for the nationwide system. What lessons learned have been taken away and documented from past events, and what design changes could minimize these impacts?

31. What involvement will states have in monitoring FirstNet infrastructure within their states or in bordering states?

32. How do we ensure that end users not using a FirstNet solution will be assured of connectivity with end users on FirstNet? Will there be a central standards body to certify network compliance?

33. If not cost, what ultimately will compel an end user to switch from their current solution to a FirstNet solution? Are there going to be value-added services (applications) that are only available to FirstNet users?

34. Does FirstNet plan to supply applications and services, or will this be a straightforward wireless data transport network? Will FirstNet provide:
    a. End-user applications and operate an applications "store"?
    b. Standardized network services (e.g., a push-to-talk service or a location service) which is agnostic to end-user applications and which any end-user application may interface with?
    c. Hosted services to support interoperability, such as a CAD or emergency call-taking services?

35. What is FirstNet's strategy to protect the public safety broadband market from very small economies of scale which have made public safety equipment so expensive in the past?

36. What is FirstNet's strategy for early deployments of locally-owned infrastructure on the nationwide network? Outside of BTOP entities, there are many jurisdictions in the country that may wish to begin building RAN immediately and provide those resources to the NPSBN once FirstNet later deploys in that area.

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37. What is FirstNet's strategy to respond to RAN additions? Sites are often necessary to add due to coverage or capacity following the initial system construction or the relocation of a site.

38. What specific system performance data will FirstNet share with local stakeholders?

39. Does FirstNet have any specific guidelines for projecting, and communicating to stakeholders, initial coverage and traffic loading performance?

Other

40. Will the FirstNet network be considered a federal network, or is it seen as 56 interconnected state and territorial networks?

41. What overarching strategy does FirstNet have to manage the myriad and complicated technical and operational obstacles to ensuring interoperability using the network?

42. What is the deployment timeline for FirstNet? This needs enough detail to provide stakeholders with planning information to begin replacement/augmentation budget preparation well in advance. This timeline should also include base system, data appliance, and voice appliance.

43. Please clarify who will fund, build, own, operate, and maintain FirstNet in Wisconsin.