Outreach Plan

In addition to the below education and outreach activities, FloridaNet is planning ongoing communications with Local, State and Tribal representatives that includes:

- Regular newsletter communications of key actions and events
- A YouTube video on FloridaNet
- Continued development and enhancement of our website, forums and social media

We also will continue to support and provide State and National workshop participation

- FloridaNet Local, State and Tribal members participating in key national workshops, conferences and events to stay up to date on national developments
- Ongoing coordination with the Region IV states via regular meetings
- Develop a FloridaNet speakers bureau providing speakers and information to support all state-wide association gatherings in Florida

Specific SLIGP workshops under Phase I

- Coverage workshops to engage Local, State and Tribal representatives on LTE coverage, contract vehicles and current users
- Continued development of a governance with a focus on local control

Included In This Section:

- Regional Workshops
    - June 2013
        - Presentation
        - Meeting Summary
        - Meeting Minutes
    - July 2013
        - Presentation
        - Meeting Minutes
- Listening Sessions
    - Presentations
        - FirstNet
        - FloridaNet
        - Data Sharing
        - Participation
    - Sessions: February 2014
        - Jacksonville, FL

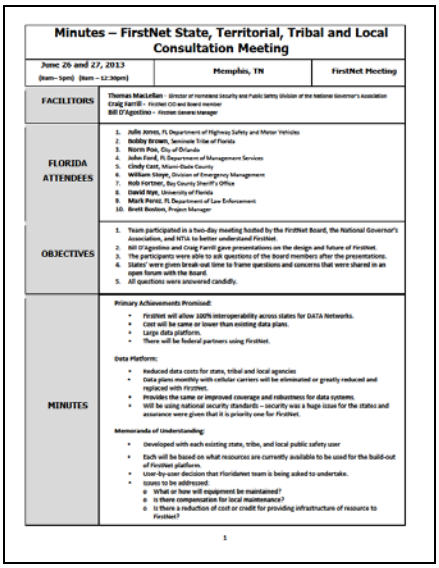
        - Tallahassee, FL
    - Sessions: March 2014
        - Pensacola, FL
        - Deer Field Beach, FL (West Palm Beach)
        - Tampa, FL
        - Punta Gorda, FL
        - Miami, FL
        - Orlando, FL
    - Sessions: April 2014
        - WebEx
- Website
    - FloridaNet.gov
    - Google Analytics
- Other Outreach
    - Brochure
    - Video
    - Senate Appropriations Committee

Regional Workshops

June 26-27, 2013 – Memphis, TN

Presentation: Vision for the Future *(For document, see Exhibit 33)*

Meeting Minutes *(For document, see Exhibit 34)*



Minutes – FirstNet State, Territorial, Tribal and Local Consultation Meeting

June 26 and 27, 2013 (8am–5pm) (8am – 12:30pm)	Memphis, TN	FirstNet Meeting

FACILITORS

Thomas MacLellan – Director of Homeland Security and Public Safety Division of the National Governor's Association
Craig Farrill – FirstNet CTO and Board member
Bill D'Agostino – FirstNet General Manager

FLORIDA ATTENDEES

1. **Julie Jones**, FL Department of Highway Safety and Motor Vehicles
2. **Bobby Brown**, Seminole Tribe of Florida
3. **Norm Poe**, City of Orlando
4. **John Ford**, FL Department of Management Services
5. **Cindy Cast**, Miami-Dade County
6. **William Steye**, Division of Emergency Management
7. **Rob Fortner**, Bay County Sheriff's Office
8. **David Nye**, University of Florida
9. **Mark Perez**, FL Department of Law Enforcement
10. **Brett Boston**, Project Manager

OBJECTIVES

1. Team participated in a two-day meeting hosted by the FirstNet Board, the National Governor's Association, and NTIA to better understand FirstNet.
2. Bill D'Agostino and Craig Farrill gave presentations on the design and future of FirstNet.
3. The participants were able to ask questions of the Board members after the presentations.
4. States' were given break-out time to frame questions and concerns that were shared in an open forum with the Board.
5. All questions were answered candidly.

MINUTES

Primary Achievements Promised:

- FirstNet will allow 100% interoperability across states for DATA Networks.
- Cost will be same or lower than existing data plans.
- Large data platform.
- There will be federal partners using FirstNet.

Data Platform:

- Reduced data costs for state, tribal and local agencies
- Data plans monthly with cellular carriers will be eliminated or greatly reduced and replaced with FirstNet.
- Provides the same or improved coverage and robustness for data systems.
- Will be using national security standards – security was a huge issue for the states and assurance were given that it is priority one for FirstNet.

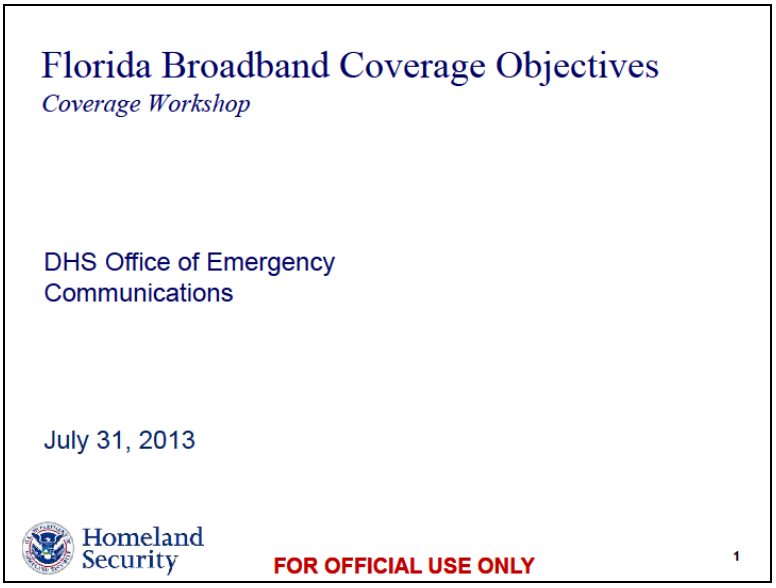
Memoranda of Understanding:

- Developed with each existing state, tribe, and local public safety user
- Each will be based on what resources are currently available to be used for the build-out of FirstNet platform.
- User-by-user decision that Floridanet team is being asked to undertake.
- Issues to be addressed:
  - What or how will equipment be maintained?
  - Is there compensation for local maintenance?
  - Is there a reduction of cost or credit for providing infrastructure of resource to FirstNet?

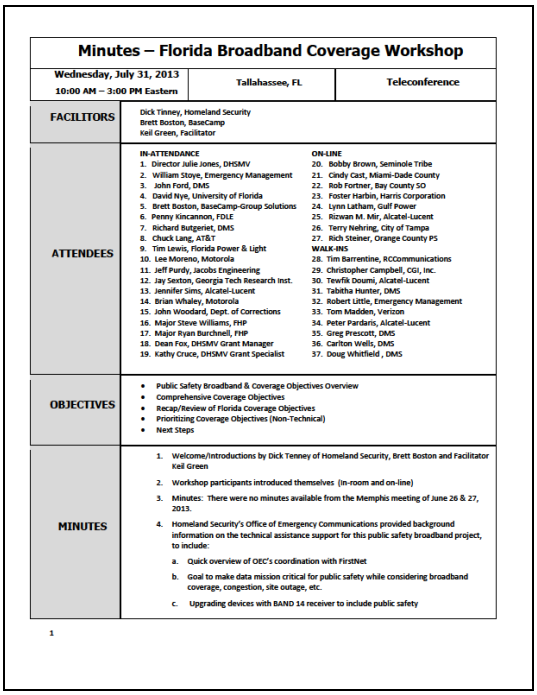
1

July 31, 2013 – Tallahassee, FL and WebEx

Presentation: Florida Public Safety Broadband Coverage Objectives *(For document, see Exhibit 35)*



Meeting Minutes *(For document, see Exhibit 36)*



Minutes – Florida Broadband Coverage Workshop

Wednesday, July 31, 2013 10:00 AM – 3:00 PM Eastern	Tallahassee, FL	Teleconference

FACILITORS	Dick Tinney, Homeland Security Brett Boston, BaseCamp Keil Green, Facilitator
ATTENDEES	**IN-ATTENDANCE** 1. Director Julie Jones, DHSMV 2. William Stoye, Emergency Management 3. John Ford, DMS 4. David Nye, University of Florida 5. Brett Boston, BaseCamp-Group Solutions 6. Penny Kincannon, FDLE 7. Richard Butgeriet, DMS 8. Chuck Lang, AT&T 9. Tim Lewis, Florida Power & Light 10. Lee Moreno, Motorola 11. Jeff Purdy, Jacobs Engineering 12. Jay Sexton, Georgia Tech Research Inst. 13. Jennifer Sims, Alcatel-Lucent 14. Brian Whaley, Motorola 15. John Woodard, Dept. of Corrections 16. Major Steve Williams, FHP 17. Major Ryan Burchnell, FHP 18. Dean Fox, DHSMV Grant Manager 19. Kathy Cruce, DHSMV Grant Specialist **ON-LINE** 20. Bobby Brown, Seminole Tribe 21. Cindy Cast, Miami-Dade County 22. Rob Fortner, Bay County SO 23. Foster Harbin, Harris Corporation 24. Lynn Latham, Gulf Power 25. Rizwan M. Mir, Alcatel-Lucent 26. Terry Nehring, City of Tampa 27. Rich Steiner, Orange County PS **WALK-INS** 28. Tim Barrentine, RCCommunications 29. Christopher Campbell, CGI, Inc. 30. Tewfik Dourni, Alcatel-Lucent 31. Tabitha Hunter, DMS 32. Robert Little, Emergency Management 33. Tom Madden, Verizon 34. Peter Pardaris, Alcatel-Lucent 35. Greg Prescott, DMS 36. Carlton Wells, DMS 37. Doug Whitfield , DMS
OBJECTIVES	• Public Safety Broadband & Coverage Objectives Overview • Comprehensive Coverage Objectives • Recap/Review of Florida Coverage Objectives • Prioritizing Coverage Objectives (Non-Technical) • Next Steps
MINUTES	1. Welcome/introductions by Dick Tenney of Homeland Security, Brett Boston and Facilitator Keil Green 2. Workshop participants introduced themselves (In-room and on-line) 3. Minutes: There were no minutes available from the Memphis meeting of June 26 & 27, 2013. 4. Homeland Security's Office of Emergency Communications provided background information on the technical assistance support for this public safety broadband project, to include: a. Quick overview of OEC's coordination with FirstNet b. Goal to make data mission critical for public safety while considering broadband coverage, congestion, site outage, etc. c. Upgrading devices with BAND 14 receiver to include public safety

1

Listening Sessions

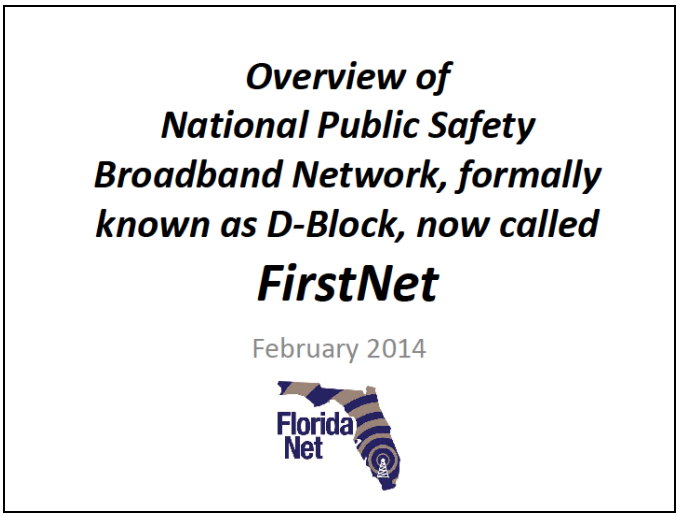
FloridaNet has hosted a series of statewide listening sessions to brief first responders, public safety technologists, and government leaders on FirstNet. The following shows the agenda, presentations and locations for the sessions.

The agenda for the three-hour sessions consisted of the following:

- Registration for non-preregistered participants
- Welcome and Overview
- Introductions to FloridaNet & Planning Process
- Questions from the Audience
- Overview of FirstNet
- Break
- Questions
- How can I Participate in FloridaNet?
- Adjourn

Presentations:

- FirstNet Overview *(For document, see Exhibit 37)*



- FloridaNet Overview *(For document, see Exhibit 38)*

Overview of FloridaNet

Project approach for designing a National Public Safety Broadband Network, formally known as D-Block, now called FirstNet

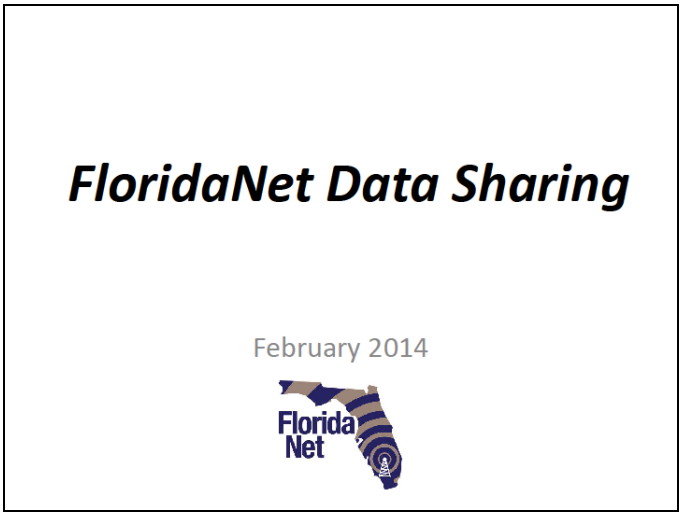
February 2014

- How to Participate *(For document, see Exhibit 39)*

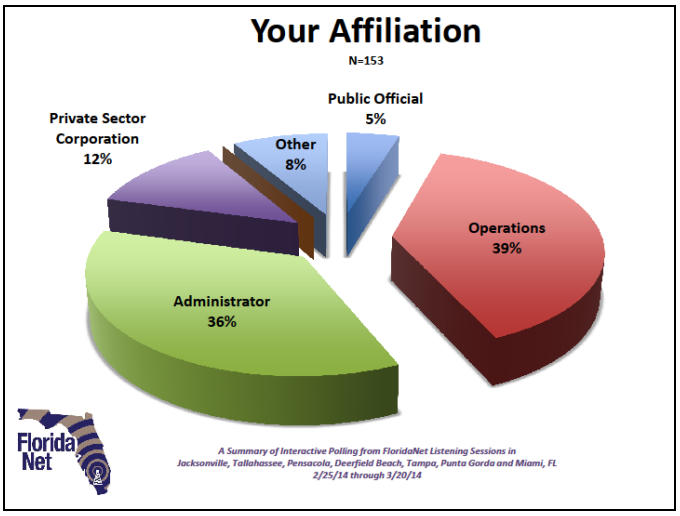
FloridaNet
How to stay connected.

February 2014

- Datasharing *(For document, see Exhibit 40)*



- FirstNet Audience Response Summary *(For document, see Exhibit 41)*



- Jacksonville, FL *(For document, see Exhibit 42)*

Jacksonville 2.25.14
Session 1

Participants

Contact	Representing	email
John Moorhouse	Alachua County	jmoorhouse@asco.us
Ryan Lee	Alachua County	rlee@alachuasheriff.org
Chris Parker	St. Johns County	cparker@sjso.org
Steve Hayner	Duval County	shayner@coj.net
Michelle Poole	Motorola	Michelle.poole@motorolasolutions.com
Bobby Calhoun	Hasty's Communication	b.calhoun@hastys.net
Bruce Windeshem	Hasty's Communications	BruceW@hastys.net
Kim Laidler	City of Jacksonville	Kiml@coj.net
Lee Mathis	St. John's County	lmathis@sjcfl.us

FloridaNet

- *The orientation slide deck materials were presented*
- *This process is bringing the entire state together to figure out how to build a public safety broadband network in FL. A technical needs assessment is needed to link this to a national network. Everybody has a chance to participate.*
- *Florida didn't set up a formal commission. They decided on a more decentralized and locally-focused entity for planning. It was understood that a top down from Tallahassee approach wasn't the way to go. The good news: everybody gets to participate. The bad news: Florida has 67 counties!*
- *The planning grant came out of Commerce: $4.9 mil over 2 years. We have the resources necessary to get a good data assessment.*
- *A broad mix of over 120 public and private organizations has participated so far. More are expected. We have active involvement from both Tribal partners.*

Summary Notes from Jacksonville, February 25, 2014 Session 1 *1*
Not Verbatim Comments

- Tallahassee, FL *(For document, see Exhibit 43)*

Tallahassee 2.27.14
Session 1

Participants

Name	Organization	Email
Carlton Whaley	Franklin County Sheriff's Office	whaley@franklinsheriff.com
Allen Ham	Franklin County Sheriff's Office	a.ham@franklinsheriff.com
Charles Radcliff	Florida Forest Service	Charles.radcliff@fredfromflorida.com
Christopher Sellio	FWC	Chris.sellio@myfcwc.com
Timothy Lee	Consolidated Leon County Communications	Timothy.lee@tlccoa.org
Billy Fair	Leon County Sheriff's Office	Fair2@leaocountyfl.gov
Nick Simoncini	FDLE	nicholassimoncini@fdle.state.fl
Burt Himmer	DFS, Insurance Fraud	Burt.himmer@myfloridacfo.com
Bobbie Jo Chambers	Gasden County Sheriff's Office	bobbiejchambers@tds.net
Samantha O'Brian	Gasden County Sheriff's Office	samanthaobrian@tds.net
Jon Erwin	FL Dept. of Health	Jon.erwin@flhealth.gov

FloridaNet

- *The orientation slide deck materials were presented*
- *Coverage is different in this world. Jay's here to help us clarify*
- *$7 billion is a nice starting point, but some perspective is required. Verizon INDEPENDENTLY, spends $11Bill on maintenance*

Summary Notes from Tallahassee February 27, 2014 Day 1 *1*
Not Verbatim Comments

- Pensacola, FL *(For document, see Exhibit 44)*

Pensacola 3.6.2014
Session 1

Participants

Name	Organization	Title	Phone	Email
David Musselwhite	Escambia BCC	IT	850-595-4890	DAmussel@myescambia.com
Chuck Good	Safety & Training	Pensacola Energy	850-474-5305	cgood@citofpensacola.com
Troy Dunphy	SMART Region1	COML	850-322-6499	
Michael Weaver	Escambia County Public Safety		850-471-6411	mdweaver@myescambia.com
Mary Sumner	FWC	LE Captain	850-595-8905	Mary.sumner@myfwc.com
Brian Lambert	FWC	LT	850-232-0475	brian.lambert@myfwc.com
Ben Burns	Office of Ag Law Enforcement	Captain	850-941-6011	En.burns@freshfromflorida.com
Dan Hahr	FWC	LT	850-595-8905	Daniel.hahr@myfwc.com

FloridaNet

Presented orientation slide deck materials

- *The grant went through Highway Safety because they had the funds to do the match*
- *FL is the only state to include the private sector in the planning process*
- *Both Tribal nations are actively involved in the planning effort*

Summary Notes from Pensacola March 6, Day 1 *1*
Not Verbatim Comments

- Deerfield Beach, FL – West Palm Beach *(For document, see Exhibit 45)*

Deerfield Beach
3.10.2014
Session 1

Participants

Name	Title	Organization	Phone	Email
Michael Twigger	Division Chief	Delray Beach Fire Dept.	561-243-7414	twigger@mydelraybeach.com
Mike Hans	Sgt.	Palm Beach County Sheriff's Office	561-267-4434	hansm@pbso.org
Edwin Harp	LT	FWC	954-654-1078	Edwin.harp@myfwc.com
Scott Caske	LT	FWC	954-668-9700	Scott.caske@myfwc.com
Jeff Moral	A. Chief	Tamarac, FL	954-597-3800	jeffmo@tamarac.org
Victor Williams	Asst. Chief	DBFR	561-243-7487	williamsve@mydelraybeach.com
Steve Anderson	Division Chief	Delray Fire Rescue	561-243-7440	andersons@mydelraybeach.com
Van Schoer	Specialist	Tamarac Fire	954-597-3805	Van.schoer@tamrac.org
Ashley Lee	Emergency Management Manager	Florida Hospital Association	561-972-6401	ashleyL@fha.org

FloridaNet

Summary Discussion Notes from Discussion in *1*
Deerfield Beach, FL Summary: March 10, 2014 Session 1
Not Verbatim Comments

- Tampa, FL *(For document, see Exhibit 46)*

Tampa 3.13.2014
Session 1

Participants

Name	Title	Organization	Phone	Email
Dennis Stahley	Detetctive Sgt.	Bradenton Police Dept	941-932-9307	Dennis.stahley@cityofbradenton.com
Terry Brigman	CIO	City of Lakeland IT	863-834-6051	Tony.brigman@lakelandgov.net
Gary Ballard	Fire Chief	Lakeland Fire Dept.	863-834-8200	Gary.ballard@lakelandgov.net
Patrick Katroscik	ASA	City of Tampa	813-274-5520 x5530	Patrice.katroscik@tampagov.net
Andrew Blankenship	Chief Engineer	Communications International	813-892-8214	ablankenship@ask4ci.com
Sylvia Camacho	Supervisor	Pinellas County Sheriff's Office	727-582-6181	scamacho@pcsonet.com
Sheila Sommer	Com Center Supervisor	Pinellas County Sheriff's Ovvice	727-582-6181	ssommer@pcsonet.com
Mindy Strwart	Radio Manager	City of Ocala	352-401-6000	mstewart@ocalafl.org
Donald Hall	Major	Clearwater Police Department	727-562-4352	Donald.hall@myclearwater.com
Joseph Lyons		Winter Haven Police Dept.	863-291-5705	jlyons@mywinterhaven.com
Jean Marie Heim	Program Manager	Harris CapRock	301-461-4846	jheim@harris.com

Summary Discussion Notes from Discussion in Tampa, FL Summary: March 13, 2014 Session 1
Not Verbatim Comments

1

- Punta Gorda, FL *(For document, see Exhibit 47)*

Punta Gorda
3.17.2014
Session 1

Participants

Name	Title	Organization	Phone	Email
Bob Finney	Technical Manager	Collier County Sheriff's Office	239-253-4989	Bob.finneiii@colliersheriff.org
Jim Kauffman	Director, Planning & Technology	Bonita Springs Fire & Rescue District	239-949-6200	jkauffman@bonitafire.org
Kevin Lombardo	VP/GM	RU	239-571-0335	klombardo@ru.com
John Barkley	Lt., Professional Standards	Naples Police Dept	239-213-4874	jbarkley@naplesgov.com
Bill R				
Andy Stadtler	Radio Manager	Lee County	239-533-3617	astadtler@leegov.com
Tom Foy	ASAC	FDLE	321-231-2727	tomfoy@fdle.state.fl.us
Scott Bialy	Detective/Bomb Squad	State Fire Marshall	239-278-2530	Scott.bialy@myfloridacfo.com
Mike Oler	Sgt/Bomb Squad Commander	Collier CO Sheriff's Office	239-253-4689	Paul.oler@colliersheriff.org
Mike Harrington	Sr. Account Manager	Motorola	239-574-8765	Michael.harrington@motorolasolutions.com
Bill Rule	Commander of Communications	Collier Sheriff's Office	239-252-9364	Bill.rule@colliersheriff.org

Summary Discussion Notes from Discussion in Punta Gorda FL, Summary: March 17, 2014 Session 1
Not Verbatim Comments

1

- Miami, FL *(For document, see Exhibit 48)*

Miami 3.19.2014
Session 1

Participants

Name	Title	Organization	Phone	Email
Greg Ruben		Miami Dade Fire		
Andy Pichs		Miami Dade Fire Rescue		
Freda Vaughan		FDOH Region 7		
John Meizoso		Miami Dade Fire Rescue		
Jose Estrella		City of Miami		
Russ Ryan		ATF-DOJ		
Jose Rivera		MDPD		
Jeff F				
Jason Swift		City of Coral Gables		
John Cracollici		Cisco		
Cindy Cast				
David Patlak		Miami Beach		

FloridaNet

- *The orientation slide deck materials were presented*
- *We'll tell you what's known and offer some speculation on*
- *Q: $4.9 million allocated to FL?*
- *A: Yes...for setting up governance and planning...not for building or equipment*
- *If you don't define your own jurisdiction someone else will do it for you. This is huge. Getting our preferences in early to this process offers the greatest chances for success.*

Summary Discussion Notes from Discussion in Miami, FL Summary: March 19, 2014 Session 1
Not Verbatim Comments
1

- Orlando, FL *(For document, see Exhibit 49)*

Orlando 3.31.2014
Session 1

Participants

Name	Title	Organization	Phone	Email
Tommy Barnes	Fire	Sanford Airport Fire Dept.		
David Charles	Deputy	U.S. Marshals Service		
Joshua Cordero	Comm Center Trainer	Highlands CO Sheriff's Office	863-301-6000	cordero@highlands.org
Crista Dexter	Comm Center Trainer	Lake CO Sheriff's Office	342-2101	Crista.dexter@lcso.org
Suzanne Garfinkel	Support Service Supervisor	Lake Mary Police Dept.	407-585-1322	sgarfinkel@lakemaryfl.com
Maureen Hatcher	Director of Communication	Lake CO Sheriff's Office	407-343-2101	Maureen.hatcher@lcso.org
Randy Jones		Lake CO Fire Rescue	352-267-7700	rjones@lackcountyfl.gov
Glenn Lopez	Comm Coordinator	Volusia County SO	386-248-1774	glopez@vcso.us
Anthony Merola	Training	UCF PD	407-456-5620	Anthony.merola@ucf.edu
Myra Merritt	Assistant Director of Communications	Lake CO Sheriff's Office	343-2101	mmerritt@lcso.org
Marcus Messura	Account Manager	Motorola	321-228-6800	Amm124@motorolasolutions.com

Summary Discussion Notes from Discussion in Tampa, FL Summary: March 31, 2014 Session 1
Not Verbatim Comments
1

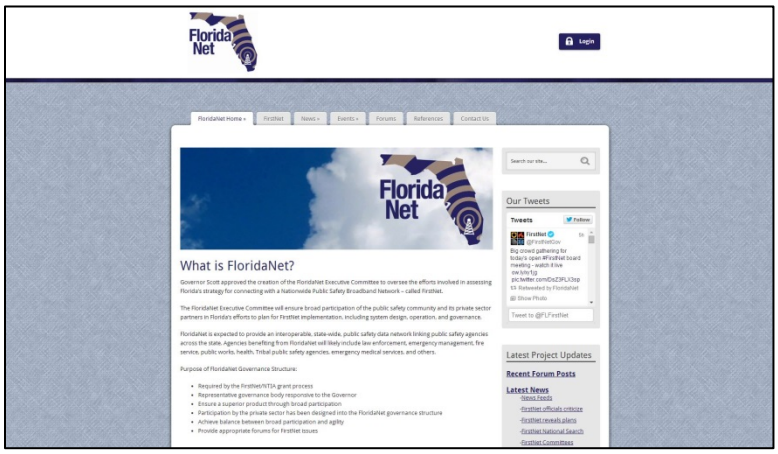
Sessions: April 2014

- WebEx

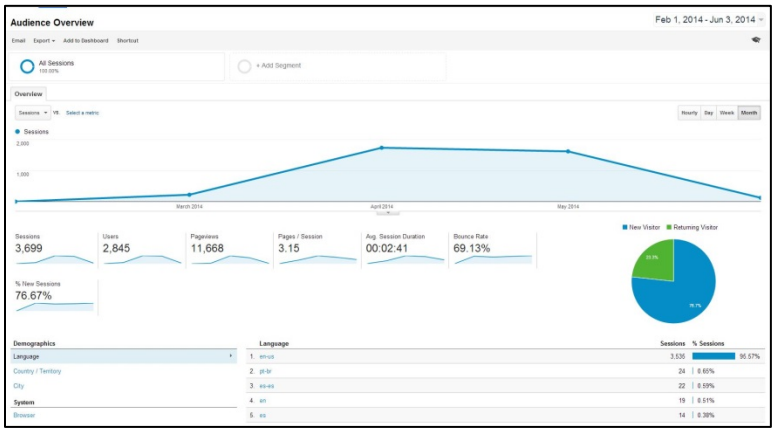
Website

FloridaNet has provided its own website to facilitate the process of informing and engaging the public safety community. To date the site has approximately 180 members, consisting of a range of disciplines, such as public safety officials, law enforcement, and fire department. The site is expected to grow over 500 members by July.

FloridaNet Home



Google Analytics



Other Outreach

FloridaNet is in the process of producing a brochure/pamphlet to distribute as well as a video to forward to the public safety community across the state to continue outreach efforts for FirstNet and FloridaNet.

On October 9, 2013, then Executive Director of Florida Department of Highway Safety & Motor Vehicles and Florida's State Single Point of Contact to FirstNet, Julie Jones, presented information to the Senate Appropriations Committee Meeting in Tallahassee, Florida about

FirstNet. All members of the committee received a copy and engaged in questions and answers with Director Jones. In attendance at the meeting were eight (8) Senate Appropriation Committeee Members and a minimum of 20 people in the audience. The meeting was televised, which was estimated to have a 50+ viewership, which brings the total to approximately 80 people viewing the presentation by Director Jones.

Presentation: FirstNet *(For document, see Exhibit 50)*

Exhibit 46

Tampa 3.13.2014

Session 1

Participants

Name	Title	Organization	Phone	Email
Dennis Stahley	Detetctive Sgt.	**Bradenton Police Dept**	**941-932-9307**	**Dennis.stahley@cityofbradenton.com**
Terry Brigman	CIO	City of Lakeland IT	863-834-6051	Tony.brigman@lakelandgov.net
Gary Ballard	Fire Chief	Lakeland Fire Dept.	863-834-8200	Gary.ballard@lakelandgov.net
Patrice Katroscik	ASA	City of Tampa	813-274-5520 x5530	Patrice.katroscik@tampagov.net
Andrew Blankenship	Chief Engineer	Communications International	813-892-8214	ablankenship@ask4ci.com
Sylvia Camacho	Supervisor	Pinellas County Sheriff's Office	727-582-6181	scamacho@pcsonet.com
Sheila Sommer	Com Center Supervisor	Pinellas County Sheriff's Ovvice	727-582-6181	ssommer@pcsonet.com
Mindy Stewart	Radio Manager	City of Ocala	352-401-6900	mstewart@ocalafl.org
Donald Hall	Major	Clearwater Police Department	727-562-4352	Donald.hall@myclearwater.com
Joseph Lyons		Winter Haven Police Dept.	863-291-5705	jlyons@mywinterhaven.com
Jean Marie Heim	Program Manager	Harris CapRock	301-461-4846	Jheim@harris.com

Tampa 3.13.2014

Session 1

Duane Carney	VP, Strategy	Harris Corporation	571-218-7950	dcarney@harris.com
Phillip Armiger	Operations Chief	Temple Terrace Fire Dept.	813-506-6705	parmiger@templeterrace.com
Thomas Wolf		Tampa Police Communications	813-231-61114	Thomas.wolff@tampagov.net
Hana Wader	LT	HCSO	247-0401	hwader@hrso.tampa.fl.us
Alan Herring	CAO	Pasco Co	813-235-6006	aherring@pascosheriff.org
Nick Kintner	Communication Supervisor	Polk County	863-519-7382	nickkintner@polk.fl.com
Richard Sharp	Radio System Specialist	Polk County	863-519-7384	richardsharp@polk.fl.com
Chris Peek	CIO	Hillsboro County	813-290-2221	cpeek@hsco.tampa.fl.us

FloridaNet

- *The orientation slide deck materials were presented*
- *What is the frequency allocation: (2 blocks; Jay can answer this)*

FirstNet

- *The orientation slide deck materials were presented*
- *Utilities are a big component of this.*
- *DoD is participating actively in the FirstNet Board. This is where a lot of very cool tools and capabilities reside*

Tampa 3.13.2014
Session 1

- *Lots of press about FirstNet being stalled can be found in the press. They're ramping up as they're able. Almost up to 35 folks within NTIA. (Very different in Homeland Security)*
- *Private vendors are testing products at the lab in CO. Harris is known for radio, but we also provide satellite connectivity to the military for special needs.*
- *Deployable hardened MRAP with portable data network has developed at GTRI.*
- *Cisco/IBM are flying in executives to be part of the planning process. There is a high level of interest in this at the national level.*
- *WE get to define what hardening looks like and define State specifications for what has to survive and where. This will be a trade-off that eilll be explored in the design phase.*
- *Break*
- *Harris Demo for CA: Script contained a NCA incident. Fire + Emergency Situation. In a remote area.No LMR/LTE coverage. Added a mobile vehicle with mobile capabilities. LMR/LTE/Satcomm devices were all available. How your information moves around shouldn't be a concern to your patrolmen and women. Applications should be able to handle this.*
- *Mission critical voice needs to meet high hurdles. 4G isn't dropping everything to get it complete. How you tune the network is different if it included voice….or if the network is solely a data network.*
- The assumption is the network is always there for many of us. Core/transport layer always has to be there. FirstNet really brings this together. Expensive to have this if it isn't being used. Where does it need to be?

- ***If I have a 50-user license for application X (Fire Stuff). Can I allocate licenses on the fly?***
- *If we have different CAD systems. When I arrice on the scene, will I have another web page that's a common website with common access to the event. Will there be a single map.*
- *The capability will exist. WEB DOC does this. If we have a national response everybody will have 3 key apps. These will be the ones we use in a disaster. SOPs*

have not been determined. <u>We need to have this conversation in interoperability councils.</u>

- *PSAC: Public Safety Advisory Council. Harlan McKewan, retired police chief NYC. Is framing a draft list of priorities for coverage/capacity/costs*
- So in Tampa we hand out a web-leased application and provide locations. All they need is a profile on a browser. FLNet is a big pipe. Anything we want to put on it is something we'll need to figure out on a local level.
- With Federal response concentrating on a survivable network we can start planning more broadly on the apps. Browser based apps will be part of the common core.
-
- ***Excess capacity vs excess spectrum.*** *Important distinction to make.*
- ***We're in a very positive position. We have rural areas in Fl. Western states have RURAL areas.*** *Expect we will get great cooperation and support from a logical and well designed plan.*
- ***$7bil is coming from lease of spectrum …*** *no tax dollars support it.*
- Katrina: what was available?
- Ham radio!
-

<u>Data Sharing</u>

- *The orientation slide deck materials were presented*

<u>How to Participate</u>

- *The orientation slide deck materials were presented*

Tampa 3.13.2014
Session 2

Participants

Name	Title	Organization	Phone	Email
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George Striker	Hillsborough County Sheriff	Hills	813-247-0021	gstriker@hcso.tampa.fl.us

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Session 2

FloridaNet

- *The orientation slide deck materials were presented*
- *Vendors want to do demos. Julie Jones is not the answer here. The Executive committee is building the list of people that are involved in the FloridaNet process. HSMV is facilitating this process, not running it.*
- **What is generally visioned for FirstNet? Are we creating a nationwide version of Verizon?**
- Yes
- There could be other solutions (i.e. P25). Stay with us for more answers.
- Verndors have lots of solutions. A core and network have been established in Boulder. This is not a technical problem. We can do it today. Politics and design will be the big choice points. This is a very do-able solution. Vendors have plenty of devices that can deliver these capabilities…and many more.
- **Verizon reference was confusing….**
- Stay tunes here and we'll clarify
- Consider building copper security into the cyber hardening requirements. Physical security of sites and routers will be necessary.
- *Watson can beat anybody in the world at quiz*
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FirstNet

Tampa 3.13.2014
Session 2

- *The orientation slide deck materials were presented*
- *Public safety doesn't neet all that spectrum all the time*
- *Leasing and trading out excess spectrum is how the project will be paid for.*
- *Florida has tremendous LTE infrastructure and coverage. What FirstNet needs to do is to get on all of these towers.*
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- *We see swapping at the county level as an important plan for managing collaborative capital. Everybody gives and takes with a win for everyone*
- *Dblock fight was about public safety or commercial site managing control over the network. The only financial model that makes any sense to make this network self-sustaining is leasing of unneeded capacity.*
- *This is the only way we build a network that includes remote/rural areas. Miami-Dade doesn't need this. Think Universal access model.*

Coverage is one of the biggest complaints I hear.

- Voice of LTE that is imperfect is better than nothing for many first responders.
- This is OK, but it won't have the same resiliency a dedicated system would
- *Devices with multiple capabilities will be the most likely migration path we can expect to see.*
- *SPOCs: State Points of Contact*

Tampa 3.13.2014
Session 2

Data Sharing

- *The orientation slide deck materials were presented*
- *Next steps will be smaller: 30-40 people (multi-day efforts) to build regional models.*
- *As we create the maps we'll post as much as possible that can be posted to the public domain.*
-

How to Participate

- *The orientation slide deck materials were presented*

Other Q&A From the Session

Tampa 3.14.2014
Session 3

Participants

Name	Title	Organization	Phone	Email
Philip Zion	Director	**General Dynamics**	**703-709-1521**	**Phil.zion@gdc4s.com**
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Betti Johnson	RDSTF Planner	RDSTF TBRPC	727-642-8051	betti@tbrpc.org
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Margaret Hamrick	RDSTF Region 4 IO Chair	Tampa Fire & Rescue	813-232-6802	Margaret.hamrick@tampagov.net
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Bill Skukowski	Telecom Admin	FWC	813-581-6930	Bill.skukowski@myfwc.com

FloridaNet

- *The orientation slide deck materials were presented*

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- *Larry emphasized the point that HSMV is the facilitator and convener of this dialogue…it is NOT a HSMV project.*
- *FloridaNet is retaining independent legal counsel to provide specific guidance, especially so private sector information can be protected in this dialogue.*
- *Vendor community has been looking for clarification on they need to be in communication with for product review. How best to target efforts to communicate with FloridaNet representatives. This representative group is being built now. Don't make the mistake of thinking there is a single person to target!*

FirstNet

- *The orientation slide deck materials were presented*
- *Physical security for sites needs to include copper thieves.*
- *Incident management regularly bumps up against the human brain's ability to manage 5 items simultaneously +/- 2. Big data will enable better management of this and smart policing. Ft. Lauderdale is testing this with IBM. Methods to do better policing with a broader frame of reference are resulting.*
- *Being able to feed data like this to marine patrol and game enforcement will be game changers too.*
- *We already have the devices to do this. They're there. While might look like the future for public safety, it's the past for DoD.*
- *CENTCOM drone patrols in Tampa are a great illustration of this. A younger generation is leveraging this naturally…while veterans aren't able to adapt as easily.*
- *Larry has done regular meetings with FEMA regional partners to link cross border issues and understand issues/concerns of border states.*
- *FirstNet won't be tuning towers for voice over data. 5-6 radios will be in the same device….not much bigger than a single smartphone. MAYBE my P25 is coming in a different package.*

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- ***If we need to drop the arm on the spectrum, do we get the full PS 20 MHz spectrum?***
- *YES. Everybody that isn't public safety would get shifted to conventional carriers. Different events will require differing priority 1 status: fire/traffic/hurricanes. Priorities are automatically reassigned by pre-determined status prioritization. If you've done your planning up front you'll be able to push out a specific priority schedule based on past history. Can also be overridden. PSAC is giving us this first cut at this to start the discussion.*
- *Opt-out is an option, however, making a revenue stream from isn't.*
- *…and we want these additional coverage*
- *…and we're willing to make additional private investment to expand capabilities (via P3)*
- *…but, some negotiations are likely*
- *Opt-out. We do something else.*
- *Unlikely since Florida has so many capabilities, so much infrastructure and this should be a relatively easy, quick win….and high willingness to work with FirstNet.*
- *Phillip confirms: FloridaNet is detailed, well developed and near the front of the pack.*

<u>Data Sharing</u>

- *The orientation slide deck materials were presented*
- *Sharing private sector data is crucial. How do we provide assurances sensitive/proprietary data can be shared?*
- *First cut was ISAAC. Good for disasters, but not well suited in our case*
- *PCII model is better. FOYA can trigger unintended consequences and provide a road map for bad guys. It's key to protect essential infrastructure, within the law.*
- *CGIS or HSIM requirements to access*

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Session 3

How to Participate

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Other Q&A From the Session

- *Regional Domestic Security Task Force Units will be our planning units*
- *Summer: orientation on how to use the tools*
- *Fall: we build the model*
- *1Q/15 frame options and recommendations*
- *Plenty of conference call and webinars: we'll communicate these via the FloridaNet site*
- *Will there be interoperability between the states?*
- *In an event everyone will share the same network: your data will travel with you on the same network everyone uses….or share it with someone else. Different states and regions may have different applications, but the NETWORK will be consistent for everyone.*
- *You'll see pilots roll out from Boulder lab.*
- *Expect widespread roll out to take some time*
- *Pilots are probably a great opportunity for FloridaNet to test some cool new stuff.*
- *We have the funds to do this right…why not assume things could go right and they like our plan. Chances of taking advantage of demonstration dollars is high for us on the front end. Let's leverage and be cautiously optimistic.*
- *Houston/Charlotte/Oak Ridge have been approved to build broadband networks. They're going to stumble on things. Lets focus on the learnings and innovations that work for us. We know the first edition will need improvements*
- *Look for lots of articles posted to the FloridaNet site and white papers on lessons learned. Dig in on whatever level you're comfortable.*
- *We're optimistic…but we aren't naïve. There are plenty of challenges*
- ***There s a strong possibility the result will be a much stronger link between the public and private sector.***
- *The better private sector partners, the greater their chances for long-term growth.*

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- *Public-private partnerships are the only way deploying this kind of technology makes sense. Both side need to share resources to achieve the level of coverage that will be necessary.*
- ***From a technical perspective: we are not leasing excess spectrum it's excess capacity this spectrum provides. Sole owner of this by law is FirstNet.***
- *History of Dblock fight: 20 MHz in a band. Dblock was an addition*
- *PS got more than anyone expected. Ownership and leasing rights. The switch belongs to us. It remains a locally-controlled network. The Statewide set of users will have to rationalize use. The more subscribers, the lower the excess capacity*
- *You won't run school/traffic cams over this network, but you can use this for key locations.*
- *Your subscriptions rates will b VERY high if you want to run video.*
- *Some mechanics need to be determined: a much higher degree of local control on response priorities will be made. Some overrides (RNC/AF1) will happen.*

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Session 2

Participants

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Other Q&A From the Session

Tampa 3.14.2014

Session 2

Participants

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Terry Cullen	Critical Infrastructure Planner	FDLE	813-878-7401	terrycullen@fdle.state.fl.us
Lisa Dubord	Regional Domestic Security Planner	FDLE	813-878-7269	lisadubord@fdle.state.fl.us

FloridaNet

- *The orientation slide deck materials were presented*

- *First time anybody has tried this anywhere in the world. Unprecedented.*

<u>FirstNet</u>

- *The orientation slide deck materials were presented*
- *Middle class tax relief and jobs creation act sanctioned a 15-person Executive Board*
    - *Homeland Security*
    - *Atty Gen*
    - *4 public safety reps*
    - *2 state and local gov't reps (CIO/*
    - *6 senior telecom executives who have built national networks*
- *Devices may merge…but voice/data networks will remain separate for a long time*
- *Is this a secure network?*
- *Absolutely. DoD tools that have been used for a long time are being made available. DoD research, satellite links, networks and applications and cyber security are being de-classified and being made available.*
- *All vendors told us that these devices are build and tested. Tools and apps you can imagine are on the shelf.*
- *Information assurance and information security are important components.*
- *You won't be on this network if you don't have some level of data security*
- *Wildfire response will be part of this network*
- *Application testing and vetting will be part of the cyber security and hardening process for data assurance*
- *What about he need to install more towers. With money and resources, won't this increase the load on local users.*
    - *No more than you have to for Verizon. You subscribe. If you are a subscriber infrastructure network will be just like Sprint or Verizon.*

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- *If we have an existing tower, FirstNet would be compensating FloridaNet in some way*
- *FloridaNet is state of Florida*
- *Who am I going to pay as a subscriber*
- *FirstNet is a quasi-governmental (Like TVA or post office). Ultimately your subscription will go to the FirstNet to pay for the network*
- *Band14 hardened public safety chips + cellphone devices are something we see coming. We'll pay one fee to one provider that they might manage for PS. AT&T/Verizon/TMobile would all develop packages.*
- *Motorola might have a P25 device with all of these things.*
- *Do you want to go there appliance-wise? How do we manage the data portion of this. FloridaNet is an effort to build and design this network*
- *FirstNet would then set the subscriber model?*
- *Possibly. If we can design it and have them*
- *Would a subscriber fee be uniform across the U.S.?*
- *We don't know. A universal acess approach probably makes sense here. Subsidies are build into all phone rates. Unlikely this will be different here.*
- *Will we pa the same rate as Montana? Don't know….they don't have a rate because they don't have any data. The real question is will they be able to offer something similar to what's being paid for now?*
- *It can't cost more than we're paying now or it can't be sold to my agency*
- *What about 5-110 years out? How much will it cost my agency in the future? We don't know. FirstNet understands clearly they need to be competitive with what's out there now. Shouldn't be worrying about this being out of wack*
- *But for Fire/EMS, they wan to be able to transmit over secure lines for HIPPA reasons.*
- *There wll be a value prop to determine if there is a need/willingness to pay a premium*

- *You keep saying public safety. Many gov't programs don't includepublic safety. (long list).*
- *They're all in there (Forest Service). Don't think there are too many users and they'll flood the network. Remember, there is a priority list for various incidents. Homeland Security, National Guard*
- *What about Power companies?*
- *They're in there too*
- *Private Security firms? Maybe…with proper credentials. Not the same as swat team and firefighters*
- *School resource officers have wi-fi,cameras run on fiber. They won't use this appliance for day to day. If they have an application to determine if a student belongs on campus or not. Who is this person (facial recognition). How often will they be at the front line? Not often*
- *Warehouse fire. Fire might lead with police directing draffic*
- *Bomber/ Police lead and fire dept is on standby*
- *Big data is going to change our responses on the ground and how we handle each and every emergency situation*

Why would commercial users let us put our stuff on their towers?

- *Spectrum!*
- *This is not a technology problem*
- *National Standards & Technology (NST) lab in Boulder is testing appliances right now.*

- *FirstNet is broken into FEMA regions, scheduling 1 meeting/month*
- *No radio to radio capability with LTE. If we lose the towers we lose the network. Unlike LMR for mission critical voice. Biggest reason LMR remains the choice for MCV for at least 10 years.*
- *This is going to happen whether we participate or not. There is a $5mil planning grant. Let's take maximum advantage to shape this to our needs and concerns*
- *We are a "have" state. FirstNet needs Florida in the game to help other states*

- *Appliances to track injured when they are transported during a disaster are needed. They bget put in authorized vehicles..but we lost them*
- ***If multiple counties are going together on p25….***
- *Do NOT let anyone tell you p25 is going away.*
- ***If the rural areas in eastern Manatee Co have trouble, can you use parish towers for coverage?***
- *Any available public assets should be part of our inventory*
- *How about a commercial radio tower?*
- *Absolutely inventory them*
- *We need those standeards for hardening quickly*
- *The issue of broadband in eastern part of the county*
- *Private or powerplant needs*
- ***FL Fire Dept Chiefs Meeting: August..45 min/hour block available***
- *Kevin Hearndon requested this for the summer*
- *Ft. Lauderdale (whenever)*

- ***Can we use the 911 towers be used in the network?***
- *With this system and satellite network be linked.*
- *Reverse 911 capabilities…How does satellite tie to this*

FirstNet is maintaining the infrastructure if we opt in. Nevera a cost to the State if a hurricane flattens everything. What about State towers.

- *Terry brought this up. If you want to use my tower(s) you need to pay for it. Access will equal x number of free air cards per year*
- *At the State level, the FIN network is a good learning exercise. If it doesn't show this will pay for itself and be sustainable, the Opt-out could be an option*
- *Big learning: don't build something you can afford to maintain!*
- *Even if you opt out you still have to connect to the core. This way our devices will still work in other states*

Data Sharing

- *The orientation slide deck materials were presented*
- *Can we see coverage maps?*

- *Yes….but not entirely. There will be some security credentials required to access all of these*

How to Participate

- *The orientation slide deck materials were presented*

Other Q&A From the Session

We have a lot of trouble with building access in some sites. What to do?

Denser, closer LTE need to be hung off lots of building. More towers = more penetration. This is where we will need t be making some tradeoffs and compromise.

GTRI does the theory and mapping. Private vendor actuall build the stuff

Where we start with the network will be a starting point. It will evolve over time based on commercial expansion and add-ons. Where do we need coverage NOW? Expect this will get better and better over time.

To access the dispatchers the recommendation was connecting with APCO/NINA conference in Orlandocj

MEETING SIGN-IN SHEET

Project:	FloridaNet Listening Sessions	**Meeting Date:**	March 14th, 2014 - Afternoon
Facilitator:		**Place/Room:**	Tampa

Name	Title	Company	Phone	Fax	E-Mail
Stephen Kennedy		Sumter County Fire & EMS			
Eugene Shuler		Plant City Fire Rescue			
Todd Bayley		Pasco County			
Ira Pyles	911 Director	Hillsborough County BOCC	813-744-5911		pylesi@hillsborughcounty.org
Philip Zion		General Dynamics			
Jean Marie		Harris CapRock			
Mark Dubina		Tampa Port Authority			
Jacqi Yeager	Manager	St. Petersburg Police	893-7873		jacquelyn.yeager@stpete.org
Phillip Armiger		Temple Terrace Fire Department			
Mary Collier	Comm supervisor	St. Petersburg Police	727 893-7065		mary.collier@stpete.org
Brenda Laukkanen	Comm Sup	Hillsborough County Fire Rescue	813-272-5665		LaukkanenB@HillsborughCounty.org
Matthew Balogh		Hernando Co Sheriff			
Alphonso Gordon		Marion County Public Safety			
Joe Balga	E911 Communications Systems Specialist	Hernando Co Sheriff	352-797 3776		JBALGA@HERNANDOSHERIFF.ORG
Jean Marie Heim		Harris CapRock			
Bruce Van de Gohm		Pinellas County Sheriff's Office			
Garry Lisiewski	HOMELAND SECURITY GRANT SUPERVISOR	TPD-UASI	813-276 3541		GARRY.LISIEWSKI@TAMPAGOV.NET
Terry Cullen	Critical Infrastructure Planner	Florida Dept of Law Enforcement	813-878-7401		terrycullen@fdle.state.fl.us
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Todd Bayley		Pasco County			
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Philip Zion	Director	General Dynamics	703 769 1521		phil.zion@gdc4s.com
Jean Marie		Harris CapRock			
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Paul Keller		FDOT			
Phillip Armiger		Temple Terrace Fire Department			
James Walters		Dade City Police Department			
David Duff		Dade City Police Department			
Ray Velboom	Chief	Dade City Police Department	352 521-4455		RVelboume@DadeCityPD.com
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3/14 EM Tampa

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Brett Pollock	Deputy Chief	West Manatee Fire & Rescue	941-761-0555		brett.pollock@wmfr.org
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Oliver Gillette	EM Planner	COT EM	813 274-7553	-	Oliver.Gillette@TampaGov.net

3/14 AM

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Steve Simpson		Manatee County Emergency			
CHRIS PEEK	CIO	HILLSBOROUGH CTY SHERIFFS OFFICE	813 290 2221		CPEEK@ HCSO.TAMPA.FL.US
Bill SKuKowski	Telecom Adm	Florida Fish & Wildlife	863 581-6930		MYFWC.COM Bill.SKuKowski@

☒ Fix FLA Net + Devices!

MEETING SIGN-IN SHEET

Project:	FloridaNet Listening Sessions	**Meeting Date:**	March 13th, 2014 - Afternoon
Facilitator:		**Place/Room:**	Tampa

Name	Title	Company	Phone	Fax	E-Mail
Frank Canovaca		Bartow Police Department			
Joe Hall		Bartow Police Department			
Dennis Stahley		Bradenton Police Department			
Brian Sell		Florida Department of Health in			
Rick Parrish		Motorola			
Terry Brigman		City of Lakeland IT			
Gary Ballard		Lakeland Fire Dept			
Dean O'Nale		Oldsmar Fire Rescue			
Jason Biggers	Coordinator Automation	Hillsborough County	8132725482		biggersj@hillsboroughcounty.org
Bill LePere		City of Lakeland			
John Ganio	DIRECTOR of IT	Pasco County Sheriff's Office	813-235 6014		JGANIO@PASCOSHERIFF.ORG
Ruthie Doles		Pinellas County SES/Regional 911			
Matthew Henderson	SENIOR AREA MGR	Motorola	813 421-0716		MHENDERSON@MOTOROLASOLUTIONS.com
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Dennis Fodi		Pasco County Communications			
Steve Lawton		Hillsborough County Fire Rescue			

3/13 TAMPA PM

Name	Title	Company	Phone	Fax	E-Mail
Steve Simpson		Manatee County Emergency			
Michael McDonald		St. Petersburg Police Department			
Bill LePere		Lakeland Police Dept			
Clyde Eisenberg	MAJOR	Hillsborough SO	8500		CEISENBERG@HCSO.TAMPA.FL.US
Robert Austin	MGR	City of Tampa	813-274-5541		ROBERT.AUSTIN@TAMPAGOV.NET
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Matthew Balogh		Hernando Co Sheriff			
Joe Balga		Hernando Co Sheriff			
Jean Marie		Harris CapRock			
~~Brad Herron~~ CHRISTIAN BUCKLER	Instructor	Hillsborough County Sheriff's Office	813 247 8240		cbuckler@hcso.tampa.fl.us
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Joshua Taylor		Pasco County Fire Rescue			
Paula Coleman		Pasco County Fire Rescue			
Phillip Armiger		Temple Terrace Fire Department			
Dave Pooran		Polk County Fire Rescue			
Sally Jackson		Polk County Fire Rescue			
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3/13 TAMPA FL

Name	Title	Company	Phone	Fax	E-Mail
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Name	Title	Company	Phone	Fax	E-Mail
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Ray Velboom		Dade City Police Department			
Alphonsc Gordon		Marion County Public Safety			
Bill Skukowski		Florida Fish and Wildlife			

MEETING SIGN-IN SHEET

Project:	FloridaNet Listening Sessions	**Meeting Date:**	March 13th, 2014 - Morning
Facilitator:		**Place/Room:**	Tampa

Name	Title	Company	Phone	Fax	E-Mail
Frank Canovaca		Bartow Police Department			
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Rick Parrish		Motorola			
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Dean O'Nale		Oldsmar Fire Rescue			
Jason Biggers		Hillsborough County			
Bill LePere		City of Lakeland			
John Ganio		Pasco County Sheriff's Office			
Ruthie Doles		Pinellas County SES/Regional 911			
Matthew Henderson		Motorola			
Gary Dempsey		Pinellas County Radio & Technology			
Donna Beim		Pinellas County Safety & Emergency			
Jacqueline Weinreich		Pinellas County Radio & Technology			
Joseph Sekula		Pasco Sheriff's Office			
Dennis Fodi		Pasco County Communications			
Steve Lawton		Hillsborough County Fire Rescue			

3/13 AM TAMPA

Name	Title	Company	Phone	Fax	E-Mail
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Stacie Wilder		Pinellas County Sheriff's Office			
Sheila Sommer	Comm Center Supervisor	Pinellas County Sheriff's Office	727 582-6181		ssommer@pcsonet.com
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Duane Carney	VP, Strategy	Harris Corporation	571 218 7950	—	dcarney@harris.com.
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Christopher Giokas		Tampa Airport Police Department			
Laura Rozansky		Tampa International Airport Police			
James Walters		Dade City Police Department			
David Duff		Dade City Police Department			
Ray Velboom		Dade City Police Department			
Alphonso Gordon		Marion County Public Safety			
Don Hermey (sick)		Manatee County Emergency			
Bill Tinsley		Datapath Tower			
Thomas Wolff	Tom Wolff	Tampa Police Communications	(813) 231-6114	231-6122	thomas.wolff@tampagov.net
Kim Carls		Tampa PD			

THUR 3/13 AM

Name	Title	Company	Phone	Fax	E-Mail
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Exhibit 47

Punta Gorda
3.17.2014
Session 1

Participants

Name	Title	Organization	Phone	Email
Bob Finney	Technical Manager	**Collier County Sheriff's Office**	**239-253-4989**	**Bob.finneiii@colliersheriff.org**
Jim Kauffman	Director, Planning & Technology	Bonita Springs Fire & Rescue District	239-949-6200	jkauffman@bonitafire.org
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Bill R				
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Mike Oler	Sgt/Bomb Squad Commander	Collier CO Sheriff's Office	239-253-4689	Paul.oler@colliersheriff.org
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Bill Rule	Commander of Communications	Collier Sheriff's Office	239-252-9364	Bill.rule@colliersheriff.org

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Jerry Mallot	Coordinator	Charlotte County Emergency Mgmt.	941-833-4000	Gerard.mallet@charlottefl.com
Dan Anderson	Commander	Collier SO	239-278-7080	danderson@fdle.state.fl.us

<u>FloridaNet</u>

- *The orientation slide deck materials were presented*
- *Bob Finney: regional meeting with gulf coast states in January was the first opportunity to see what other states were thinking. FL is good at grants. When we had the ATL meeting we recognized FL was out in front. Others are taking await and see approach. We think being in front makes more sense. We know we need this and are going to build this one way or another.*
- *1/7 meeting made it clear that Florida is taking action and moving out.*
- *DSOC is our governing body. Other alternatives were considered for tech committees. RDSOC seems like our best bet.*
- *Bob's glad to see we are considering the public-private partnership. CA isn't going this route. On large scale events….does everyone really understand what a broadband network is going to do for us? Air cards are great, but at a football game we're overloaded. Commercial networks are OK…until we have a big event. Charlie is our last big event. Times have changed so much. If we had a similar event to what we had in 2004 we've lost some perspective for what a major infrastructure hit might look like.*
- *This is why it's important to have commercial partners here.*
- *Bomb squad connectivity is a great example of having key perspective represented. Julie told us how we can leverage the input of commercial providers. We're all in this together. Hope we can maintain the positive momentum because other states don't seem to be getting this message.*
- *RFI's have given us some terrific models to consider. FL is one of the first states to think about partnering and thinking NATIONALLY. Vendors understand that if*

they participate in design they're precluded from bidding, but we are figuring this out. A good partnership so far.

- *What's the benefit for commercial users to participate if they're precluded from bidding*
- *A: they only know what they read in the press. For them, it's about the learning curve. The response has been: I understand, feel better linked to the State planning process and perceptions about P25. With the RFI they have been more than generous sharing business model alternatives we need to be considering. This is very helpful to our planning and deployment. If they didn't feel they were getting benefit, we wouldn't be seeing national accounts managers participating in these discussions.*
- *Once we get to concrete design, you won't see commercial reps sitting in.*
- *Motorola is here as an observer in this area. I actually don't know much about what Brian's doing. Acting as a regional advocate for this planning effort.*
- *Q: What about the roles of other states? Will their inactivity affect our long-term ability to roll out a program?*
- *A: It will have an enormous POSITIVE impact. FL's opportunity is to build the model and get strong support for it. We'll be likely to get the resources we need to launch this. Bottom line is FirstNet needs Florida to build a successful national network. We expect a high level of cooperation from FirstNet because we plan to play fair and fast.*
- *Q: is it really a national network if other states are dragging their feet?*
- *A: FirstNet is going to be built. The question is do you want to be part of the design or have something imposed? What could go wrong? Hard to determine. What could go RIGHT? Lots. Let's move on while everyone is sitting on the sidelines. It puts us in a very advantageous position.*
- *Q: will this wind up being a "hurry up and wait" proposition?*
- *A: FirstNet is going to be built. NC/GA/TN have one person on this. Other states are not moving out on this. They're tied up getting their match the 80/20 grants.*

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FirstNet

- *The orientation slide deck materials were presented*
- *Once it's built out how will subscribes have to pay?*
- *A: This is a brand new data provider. You decide. This is unlike the p25 standard. If there isn't a comparable value prop you aren't compelled to sign on.*
- *The way to think about this is commercial carriers understand in a major event their customers will get it when service goes out. This is precisely the time public safety HAS to have a robust network.*
- *We expect a lot of tradeoffs between existing towers and capacity providers. We do not expect to see a need for building many new towers. There is decent coverage in FL that can be leveraged. We expect much more effort will be going into hardening existing sites.*
- *Skype/Google + voice apps will be possible, but don't think about a unit to unit coverage like LMR for 10 years or until universal standards get developed and accepted.*
- *Q: What do you envision the LTE data rate will be?*
- *A: 10 meg under the tower? This will be range dependent. We need to decide where we want higher speeds….this is where we'll need to have higher data coverage and where we'll need to prioritize where coverage is most needed*
- *One day you will be able to do what DoD responders are able to do. Everything we're talking about is already here. We need the high-speed data network to run it on.*
- *Who is the arbiter of the public safety switch? Does it even need to be manual?*
- *A: These issues will be determined in the PSAC recommendations. We'll be seeing a set of recommendations soon to frame the kinds of local needs and how it will be done. The ability to do this at a very granular level gives us tremendous flexibility*
- *A: much of the ability to control bandwidth is build into the standard.*
- *How much data access do you get for an air card? If there was a mission critical app (i.e. a camera) you might choose to subscribe at a higher data rate.*

- *A: On spectrum sharing…conceptually there are some pretty good models, but everything is very fluid right now. The lease of excess capacity to build the network is the only/best option for building out the network.*
- *This was stated publically in the Board meeting last week. Not in their powerpoints or written materials.*
- *It's up to specific counties to determine which towers and assets they want to put into the discussion mix. This is where tradeoffs and negotions lie ahead.*
- *Q: have there been discussions about cross-state subsidies for this?*
- *A: Florida already subsidizes Montana on national defense. This is built into the process implicity. Haves and have nots are going to be negotiating very different issues. It's unlikely we'll be subsidizing construction of towers in Alaska, but it is probably we'll be subsidizing their satellite subscription rates. Pricing means we're already doing a lot of this.*

Data Sharing

- *The orientation slide deck materials were presented*

How to Participate

- *The orientation slide deck materials were presented*

Other Q&A From the Session

How is technology refresh being addressed?

- *5G is being built into the business model (via Craig Holcomb). By the time this gets rolled out we know it will be here*

Criterial for robustness: how is private microwave being evaluated?

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Microwave will HAVE to be a critical component of this. All sorts of transmission alternatives will be examined in the next phase.

If we can determine what the coverage needs and inventory the public/private infrastructure in the next step some of these answers will become a lot clearer.

We need Florida to be the solutions instead of the problem in the next phase. We're cautiously optimistic. Don't anticipate there will be a lot of second guessing of well thought out plans. FL isn't a state they want to have to worry about.

70	Choice #		All Participants	
		Your Affiliation?		
8	**1**			
	1	First Responder	3	30.0%
	2	Public Official	0	0.0%
	3	Operations	1	10.0%
	4	Administrator	5	50.0%
	5	Private Sector Corporation	1	10.0%
	6	Private Citizen	0	0.0%
	7	Press/Media	0	0.0%
	8	Other	0	0.0%
		N	10	
		If You're a FIRST RESPONDER…What Best Describes Your Function?		

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5 **2**

1	Fire	0	0.0%
2	Law Enforcement	3	75.0%
3	Incident Command	1	25.0%
4	EMS	0	0.0%
5	Other	0	0.0%
	N	4	

How Did You Learn About Today's Workshop?

6 **3**

1	Conference	0	0.0%
2	Newsletter	0	0.0%
3	Email	7	70.0%
4	Colleague or Boss	1	10.0%
5	Press Release	0	0.0%
6	Other	2	20.0%
	N	10	

I'm Knowledgeable About FirstNet

5 **4**

1	Strongly Agree	2	20.0%
2	Agree	3	30.0%
3	Neutral/Not Sure	3	30.0%
4	Disagree	2	20.0%
5	Strongly Disagree	0	0.0%
	N	10	

I'm Knowledgeable About FloridaNet

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5 **5**

1	Strongly Agree	2	18.2%
2	Agree	0	0.0%
3	Neutral/Not Sure	5	45.5%
4	Disagree	4	36.4%
5	Strongly Disagree	0	0.0%
	N	11	

I'm Interested in Being Involved in FloridaNet Planning Efforts

5 **6**

1	Strongly Agree	3	27.3%
2	Agree	4	36.4%
3	Neutral/Not Sure	3	27.3%
4	Disagree	1	9.1%
5	Strongly Disagree	0	0.0%
	N	11	

I Support Building a Nationwide High-Speed Wireless Broadband Data Network Dedicated to Public Safety

5 **7**

1	Strongly Agree	8	72.7%
2	Agree	3	27.3%
3	Neutral/Not Sure	0	0.0%
4	Disagree	0	0.0%
5	Strongly Disagree	0	0.0%

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N	11

Punta Gorda
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Session 2

Participants

Name	Title	Organization	Phone	Email
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Jerry Wagner		Sarasota County Sheriff's Office		
Gary Hubbard	Operations Manager	Charlotte County Utilities		ghubbard@charlottefl.com
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Harvey Willis				
Sandi Chernoff	911 Coordinator	Collier County Sheriff's Office	239-252-9380	
Paula Carter				
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Punta Gorda
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Bailey	ations Administrat or	County Sheriff's Office		
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<u>FloridaNet</u>

- *The orientation slide deck materials were presented*
- *Dblock/Bank 14*
- *FirstNet is building a brand new high-speed data network for the nation. One way to think of this is as a new cellular company.*
- *First meeting in Atlanta this January. Lots of discussion since the Dblock discussion, but there hadn't been a lot of movement in a year. When Bob attended the meeting in Atlanta (FEMA Region 4) all states presented an overview of where their states were.*
- *Some of the States had 1 person + very little support. "We took the funds and are taking a wait and see attitude to see what happens. Florida took a different path.*
- *This network is going to be guilt one way or another. We recognize the need and the opportunity. Stakeholders in this state have worked together very well.*
- *10 years ago we weren't as reliant as we are on data now.*
- *Bill D'Agonistino has a big challenge. Will be looking to FL as a model of what can be accomplished. FL is really leading the way on getting the planning process complete.*
- *Vendors are asking a lot of questions about doing demos. 4/9 Executive Committee will establish a representative body to do demos that can be shared with the entire project….not just one or two known individuals*

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Session 2

FirstNet

- *The orientation slide deck materials were presented*

How will this connect to the internet?

- *Directly. Assume you're responding to a school incident. School plug-in will be available.*

So will appliances be specific to this network?

- *LTE appliances will need to be specific*
- *IPhone/iPad won't let you log on. This will be a public safety*
- *All we're talking about is your iPhone. You'll probably have an integrated public safety secure tool. You'll need background check and security to access the network. Your iPhone won't get you in.*
- *Harris is working on that option*
- *It will be your choice to subscribe (or not) to convert over. For most of us it's about data.*
- *CGIS secure comms will be on these.*
- *As soon as your application is CGIS security compliant. Can you pass a security clearance with the device? If you can you'll be able to screen the appliance and software. Much work to be done to link pieces to the core.*
- *Still a lot of work to be done*

Data Sharing

- *The orientation slide deck materials were presented*

How to Participate

- *The orientation slide deck materials were presented*

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Session 2

Other Q&A From the Session

- *SWFRPC.org has done a bunch of this work*
- *Check website of FL*
- *Broadband plan for Charlotte/Lee/Collier*

		All Participants	
Your Affiliation?			
First Responder		3	20.0%
Public Official		0	0.0%
Operations		8	53.3%
Administrator		4	26.7%
Private Sector Corporation		0	0.0%
Private Citizen		0	0.0%
Press/Media		0	0.0%
Other		0	0.0%
	N	15	
If You're a FIRST RESPONDER…What Best Describes Your Function?			
Fire		0	0.0%
Law Enforcement		3	33.3%
Incident Command		1	11.1%
EMS		0	0.0%
Other		5	55.6%
	N	9	

Punta Gorda
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Session 2

How Did You Learn About Today's Workshop?

Conference		0	0.0%
Newsletter		0	0.0%
Email		13	81.3%
Colleague or Boss		2	12.5%
Press Release		0	0.0%
Other		1	6.3%
	N	16	

I'm Knowledgeable About FirstNet

Strongly Agree		0	0.0%
Agree		4	26.7%
Neutral/Not Sure		8	53.3%
Disagree		3	20.0%
Strongly Disagree		0	0.0%
	N	15	

I'm Knowledgeable About FloridaNet

Strongly Agree		1	6.3%
Agree		2	12.5%
Neutral/Not Sure		9	56.3%
Disagree		4	25.0%
Strongly Disagree		0	0.0%
	N	16	

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I'm Interested in Being Involved in FloridaNet Planning Efforts

Strongly Agree		2	12.5%
Agree		3	18.8%
Neutral/Not Sure		10	62.5%
Disagree		1	6.3%
Strongly Disagree		0	0.0%
	N	16	

I Support Building a Nationwide High-Speed Wireless Broadband Data Network Dedicated to Public Safety

Strongly Agree		8	50.0%
Agree		7	43.8%
Neutral/Not Sure		1	6.3%
Disagree		0	0.0%
Strongly Disagree		0	0.0%
	N	16	

Today's Workshop Addressed My Questions About FloridaNet

Strongly Agree		2	12.5%
Agree		12	75.0%
Neutral/Not Sure		2	12.5%
Disagree		0	0.0%
Strongly Disagree		0	0.0%
	N	16	

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Session 2

Today's Workshop Addressed My Questions About FirstNet

Strongly Agree		2	13.3%
Agree		13	86.7%
Neutral/Not Sure		0	0.0%
Disagree		0	0.0%
Strongly Disagree		0	0.0%
	N	15	

I Understand My Options for Participating in FloridaNet Planning Efforts

Strongly Agree		3	18.8%
Agree		10	62.5%
Neutral/Not Sure		3	18.8%
Disagree		0	0.0%
Strongly Disagree		0	0.0%
	N	16	

Today's Workshop Was a Good Use of My Time

Strongly Agree		1	6.3%
Agree		10	62.5%
Neutral/Not Sure		5	31.3%
Disagree		0	0.0%
Strongly Disagree		0	0.0%
	N	16	

Punta Gorda
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Session 2

The Workshop Was Well-Designed

Strongly Agree		3	21.4%
Agree		11	78.6%
Neutral/Not Sure		0	0.0%
Disagree		0	0.0%
Strongly Disagree		0	0.0%
	N	14	

Today's Workshop Was Well Facilitated

Strongly Agree		5	31.3%
Agree		11	68.8%
Neutral/Not Sure		0	0.0%
Disagree		0	0.0%
Strongly Disagree		0	0.0%
	N	16	

Punta Gorda
3.18.2014
Session 3

Participants

Name	Title	Organization	Phone	Email
Bob Finney				
Larry Leinhauser		FDLE		
Bill Quigley	Radio Manager	SORAS	861-5283	
Aaron Deerey	Supervisor/Airport Comms	Lee County Port Authority	239-590-4696	amdeerey@flylcpa.com
Willfredo Miranda	Radio Manager	Manatee County	941-799-1211	Wilfredo.miranda@mymanatee.org
Damien de Andres		Collier CO Sheriff's Office	239-252-0567	Damian.eandres@collieriff.org
Mike		Motorola		
Larry Vavrek	Manager /IT Comm	Lee County Port Authority	239-890-4514	jvavrek@flylcpa.com
Devin Bosch	COO	Alpha Omega Communication	941-718-0337	devinbosch@gmail.com
Jim Eatrides	CEO	Alpha Omega Communications	941-350-9618	jime@alpha-omega.com

<u>FloridaNet</u>

- *The orientation slide deck materials were presented*
- *When spectrum becomes available other industries tend to want to get involved (oil and gas; aviation, etc.) How is this line being drawn?*
- *A: Can't answer this specifically. Utilities have been seen as necessary partners as they have a lot of complimentary infrastructure that can be utilized. They are first responders in many cases (cutting gas/water off….turning it back on). We've heard zero about aviation….doesn't mean this isn't being considered.*
- *This network will be for public safety…and for people with background checks.*

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Session 3

- *Rationale is the more the better….this drives down per-unit cost.*
- *So who are primary, secondary responders…and occasional other responders (i.e. corrections/schools/college security) Not necessarily full time access, but options for critical access*
- *In the beginning hospitals/utilities weren't part of the conversation (Willie). They needed to elbow their way in.*
- *Tracking tools/data access for monitoring patients (facial/DNA/picture/thumbprint that can match up medical records or other tracking capabilities we don't currently have*
- *Met with regional partners in January. FL was anxious to get things moving*
- *Difficult to tell what's really happening from monitoring blog traffic: each state provided a SPOC to do research/planning. Quite a few states elected to sit on grants until they see what's going with other states.*
- *Dialogue we hear online vs. what FL is doing are really two different worlds. We're moving out. Our plan is to get this done and win fast or lose fast. We know what we need. We're doing it differently here: bottom up instead of top down.*
- *FloridaNet is hosting our own 3rd-party site. FloridaNet.gov hasn't been turned on yet…but will be shortly*
- *Q: Did the state finally make a decision on opting in/out? EARLIEST we see this call will be late 4Q/15 or 1Q16. FirstNet has a lot of ramping up a Nationwide LTE network.*
- *A: Technically this could be up in 18 months. Other considerations mean this is likely to take longer.*
- *Common sense says FirstNet needs to report progress back to Congress. We believe FL can and will be an early win for them. What they'd like to do is to complete the planning of what we have and what we need. Opt-in/Opt-out should include our best thinking.*
- *Does FirstNet already know what they want to do? Maybe*
- *Bob doesn't see this as a likely possibility*

- *Risk of FL opting out is more for FirstNet. Why mess this up? Whatever we put forward will be subject to some negotiation….but what emerges should be recognizable.*
- *Southeast is the largest of the FEMA regions. We believe this puts us in a strong position to design and get what we want/need. At a minimum, we'll put forward a strong, well thought out proposal.*
- *Of course there is some risk that this is pre-cooked.*

FirstNet

- *The orientation slide deck materials were presented*
- *Motorola sees the average price of devices dropping over time. Integration of applications and synthesizing data is where they see things moving.*
- *Is there still discussion about leasing non-priority spectrum to the commercial sector?*
- *A: absolutely. It's clear that spectrum leasing will be part of future business models to sustain FirstNet.*
- *Q: Commercial networks are designed to make money. Most likely we'll be sharing backhaul with them. If the network goes down will there be procedures to determine which networks get repaired first?*
- *A: Key is commercial will build to 95% uptime. They won't be hardened to the degree public safety is. We anticipate a vast majority of dollars FloridaNet receives will be focused on hardening. Tower maintenance will become cheaper for FN to harden commercial towers AND provide spectrum they wouldn't have access to otherwise.*
- *The negotiation part of the process will be key: how will we determine if a generator has adequate fuel and partners are living up to commitments? 100% accountability will be a big topic of negotiation.*
- *Does Miami-Dade need a single tower? NO. Where existing hardened public safety can be used, it will be leveraged.*

- *Enforcement/accountability and site selection for hardened/resilient sites will be crucial.*
- *FirstNet is planning for 2 generations of upgrade to LTE (i.e. 5G/6G)*
- *Q: could you state what the technical issues are with Mission Critical Voice and LMR?*
- *1). NIPSTIK (sp?) isn't even close to defining a standard for this. 2) Tower tuning. 3) Device capabilities*
- *1:10 on LMR to LTE coverage is a pretty good number*
- *Q: Homeland Security was requesting minimum requirements. It this continuing?*
- *Yes. BWS example….this (and other areas) are missing persistent data would make a lot of sense. No cameras/no data. ID this type of vulnerabilities in our planning process.*
- *Q: How will spectrum sharing be allocated…. nationally or statewide?*
- *A: Undetermined…there will be some natural affinities and wins between providers. Looks like Verizon will be an easy win. Backhaul deals will need to be completed. Utilities offer a promising place for some of these needs. We see negotiations with many parties.*
- *A: Unlikely there will be one national agreement. Word on the street is there will likely be 4-6 models that emerge. Expect a variety of packages…but assume there will be universal access. Expect significant subsidization for counties that don't have emergency 911. Pricing models are likely to have pretty consistent levels across bigger areas.*
- *A: good news is we don't have to worry about this. Different partners have different capabilities.*
- *Bob's opinion: I don't see this different from what we're doing now. Some will participate..Some won't. We're looking for funding/partnerships just like we have been all along.*
- *Push to talk (Nextel) was simple and loved by many.*
- *Battery life on new devices will be a challenge that needs to be figured out.*

- *Can we leverage towers? Could the cost of applications be zero?*
- *Might be….*
- *Change slide…FirstNet and FloridaNet are going to the Governor together.*
- *Opt out notion was compelling to some…why?*
- *They wanted to move forward and they had VTOP money in TX.*
- *MS story was very different.*
- *Failure in Charlotte was they had a sustainability plan. There was no FirstNet when the original plan was rolled out. Sustainability model was where things ran into trouble. Legalistic call. Bill/TJ were overruled by NTIA in this case. Think about the messages this sends to Governors in the SE. NC is still pretty unhappy about the outcome.*
- *Opt-out/Private equity option. MAYBE there is a model that keeps FL resources here and avoids financing others. The hurdles to this are significant.*
-

Data Sharing

- *The orientation slide deck materials were presented*

How to Participate

- *The orientation slide deck materials were presented*

Other Q&A From the Session

Punta Gorda
3.18.2014
Session 3

13	Question #	Choice #	Correct Answer		All Participants	
0						
			Your Affiliation?			
8	**1**					
		1	First Responder		1	12.5%
		2	Public Official		0	0.0%
		3	Operations		2	25.0%
		4	Administrator		3	37.5%
		5	Private Sector Corporation		1	12.5%
		6	Private Citizen		0	0.0%
		7	Press/Media		0	0.0%
		8	Other		1	12.5%
				N	8	
			If You're a FIRST RESPONDER…What Best Describes Your Function?			
5	**2**					
		1	Fire		0	0.0%
		2	Law Enforcement		2	33.3%
		3	Incident Command		1	16.7%
		4	EMS		0	0.0%
		5	Other		3	50.0%
				N	6	
			How Did You Learn About Today's Workshop?			

Punta Gorda
3.18.2014
Session 3

6 **3**

1	Conference	0	0.0%
2	Newsletter	1	11.1%
3	Email	4	44.4%
4	Colleague or Boss	2	22.2%
5	Press Release	0	0.0%
6	Other	2	22.2%
	N	9	

I'm Knowledgeable About FirstNet

5 **4**

1	Strongly Agree	1	11.1%
2	Agree	3	33.3%
3	Neutral/Not Sure	4	44.4%
4	Disagree	1	11.1%
5	Strongly Disagree	0	0.0%
	N	9	

I'm Knowledgeable About FloridaNet

5 **5**

1	Strongly Agree	1	11.1%
2	Agree	1	11.1%
3	Neutral/Not Sure	4	44.4%
4	Disagree	3	33.3%
5	Strongly Disagree	0	0.0%
	N	9	

I'm Interested in Being Involved in FloridaNet Planning Efforts

5 **6**

1	Strongly Agree	0	0.0%
2	Agree	3	37.5%
3	Neutral/Not Sure	2	25.0%
4	Disagree	3	37.5%
5	Strongly Disagree	0	0.0%
	N	8	

I Support Building a Nationwide High-Speed Wireless Broadband Data Network Dedicated to Public Safety

5 **7**

1	Strongly Agree	3	33.3%
2	Agree	5	55.6%
3	Neutral/Not Sure	1	11.1%
4	Disagree	0	0.0%
5	Strongly Disagree	0	0.0%
	N	9	

Today's Workshop Addressed My Questions About FloridaNet

5 **8**

1	Strongly Agree	3	37.5%
2	Agree	5	62.5%
3	Neutral/Not Sure	0	0.0%
4	Disagree	0	0.0%
5	Strongly Disagree	0	0.0%
	N	8	

Today's Workshop Addressed My Questions About FirstNet

5 **9**

1	Strongly Agree		1	12.5%
2	Agree		7	87.5%
3	Neutral/Not Sure		0	0.0%
4	Disagree		0	0.0%
5	Strongly Disagree		0	0.0%
		N	8	

I Understand My Options for Participating in FloridaNet Planning Efforts

5 **10**

1	Strongly Agree		0	0.0%
2	Agree		7	87.5%
3	Neutral/Not Sure		1	12.5%
4	Disagree		0	0.0%
5	Strongly Disagree		0	0.0%
		N	8	

Today's Workshop Was a Good Use of My Time

5 **11**

1	Strongly Agree		1	12.5%
2	Agree		6	75.0%
3	Neutral/Not Sure		1	12.5%
4	Disagree		0	0.0%
5	Strongly Disagree		0	0.0%
		N	8	

The Workshop Was Well-Designed

5 **12**

1	Strongly Agree		0	0.0%

2	Agree		8	100.0%
3	Neutral/Not Sure		0	0.0%
4	Disagree		0	0.0%
5	Strongly Disagree		0	0.0%
		N	8	

Today's Workshop Was Well Facilitated

5 **13**

1	Strongly Agree		2	25.0%
2	Agree		6	75.0%
3	Neutral/Not Sure		0	0.0%
4	Disagree		0	0.0%
5	Strongly Disagree		0	0.0%
		N	8	

Punta Gorda
3.18.2014
Session 4

Participants

Name	Title	Organization	Phone	Email
Sal D'Angelo		North Naples Fire Control		
Nolan Sapp		East Naples/Golden Gate Fire Rescue		
Rich Dorazio		Collier County EMS		
Gerald Shackelford	IT Director	Hardee County		
Dianne Flanigan		Collier CO Sheriff's Office		
Rich				
Matt		Motorola		
Bob Finney				
Cesar L Lozada	Information Services Advisor	Charlotte SO		
John Gibbons	Planner	SWFRPC		
Matt Hall	ACM	Motorola Solutions		

<u>FloridaNet</u>

- *The orientation slide deck materials were presented*
- *Gasparilla case. The data network didn't enable public safety to get on the network and log open container tickets….they didn't have priority access, just like the GA ice jam and dozens of other situations where demand overwhelms the ability of networks. Unacceptable for future responders.*

- *Q: will this utilize part of the SLERS?*
- *What's available will need to be identified. Where nothing is available, we'll be looking to do new construction. Public access and towers will be needed. These will be evaluated in the inventory step.*

FirstNet

- *The orientation slide deck materials were presented*
- *What about areas like Babcock Ranch that may be considering their own LTE networks?*
- *Needs vs. gaps can unintentionally provide a window we don't want to bad guys. We need to be careful about this in our next steps. Secure access to our inventory sites will be part of this process. Expect as the mapping gets more precise smaller teams will be participating on how the "big picture" gets seamed together.*
- *AHA! This explains why we were approached on selling towers we own back to network providers.*
- *This will be public-private partnership! Using existing infrastructure is the way to go. We don't need to reinvent the wheel to make this work*
- *5mil users at $40/month = $2billion. This doesn't get us there*
- *What does local control mean? To be determined. PSAC just issued a draft white paper of what control looks like. Local control changes when AF1 lands. Day to day, local control will determine how the spectrum gets allocated.*
- *When lives are at stake you'll take what you need….*

Data Sharing

- *The orientation slide deck materials were presented*
- *Secure data will be protected; sunshine date will be available there*
-

How to Participate

Punta Gorda
3.18.2014
Session 4

- *The orientation slide deck materials were presented*

<u>Other Q&A From the Session</u>

1 3 0	Question #	Choice #	Correct Answer		All Participants	
			Your Affiliation?			
8	**1**					
		1	First Responder		2	28.6%
		2	Public Official		0	0.0%
		3	Operations		0	0.0%
		4	Administrator		4	57.1%
		5	Private Sector Corporation		1	14.3%
		6	Private Citizen		0	0.0%
		7	Press/Media		0	0.0%
		8	Other		0	0.0%
				N	7	
			If You're a FIRST RESPONDER…What Best Describes Your Function?			
5	**2**					
		1	Fire		2	100.0%
		2	Law Enforcement		0	0.0%
		3	Incident Command		0	0.0%
		4	EMS		0	0.0%

5	Other		0	0.0%
		N	2	

How Did You Learn About Today's Workshop?

6 **3**

1	Conference	0	0.0%
2	Newsletter	0	0.0%
3	Email	4	57.1%
4	Colleague or Boss	3	42.9%
5	Press Release	0	0.0%
6	Other	0	0.0%
	N	7	

I'm Knowledgeable About FirstNet

5 **4**

1	Strongly Agree	0	0.0%
2	Agree	1	14.3%
3	Neutral/Not Sure	3	42.9%
4	Disagree	1	14.3%
5	Strongly Disagree	2	28.6%
	N	7	

I'm Knowledgeable About FloridaNet

5 **5**

1	Strongly Agree	0	0.0%
2	Agree	0	0.0%
3	Neutral/Not Sure	3	50.0%
4	Disagree	1	16.7%
5	Strongly Disagree	2	33.3%
	N	6	

Punta Gorda
3.18.2014
Session 4

I'm Interested in Being Involved in FloridaNet Planning Efforts

5 **6**

1	Strongly Agree	0	0.0%
2	Agree	4	57.1%
3	Neutral/Not Sure	3	42.9%
4	Disagree	0	0.0%
5	Strongly Disagree	0	0.0%
	N	7	

I Support Building a Nationwide High-Speed Wireless Broadband Data Network Dedicated to Public Safety

5 **7**

1	Strongly Agree	6	85.7%
2	Agree	1	14.3%
3	Neutral/Not Sure	0	0.0%
4	Disagree	0	0.0%
5	Strongly Disagree	0	0.0%
	N	7	

Today's Workshop Addressed My Questions About FloridaNet

5 **8**

1	Strongly Agree	6	75.0%
2	Agree	2	25.0%
3	Neutral/Not Sure	0	0.0%
4	Disagree	0	0.0%
5	Strongly Disagree	0	0.0%
	N	8	

Punta Gorda
3.18.2014
Session 4

Today's Workshop Addressed My Questions About FirstNet

5 **9**

1	Strongly Agree	5	62.5%
2	Agree	3	37.5%
3	Neutral/Not Sure	0	0.0%
4	Disagree	0	0.0%
5	Strongly Disagree	0	0.0%
	N	8	

I Understand My Options for Participating in FloridaNet Planning Efforts

5 **10**

1	Strongly Agree	3	37.5%
2	Agree	4	50.0%
3	Neutral/Not Sure	1	12.5%
4	Disagree	0	0.0%
5	Strongly Disagree	0	0.0%
	N	8	

Today's Workshop Was a Good Use of My Time

5 **11**

1	Strongly Agree	4	50.0%
2	Agree	4	50.0%
3	Neutral/Not Sure	0	0.0%
4	Disagree	0	0.0%
5	Strongly Disagree	0	0.0%
	N	8	

Punta Gorda
3.18.2014
Session 4

The Workshop Was Well-Designed

5 **12**

1	Strongly Agree	1	12.5%
2	Agree	7	87.5%
3	Neutral/Not Sure	0	0.0%
4	Disagree	0	0.0%
5	Strongly Disagree	0	0.0%
	N	8	

Today's Workshop Was Well Facilitated

5 **13**

1	Strongly Agree	5	62.5%
2	Agree	3	37.5%
3	Neutral/Not Sure	0	0.0%
4	Disagree	0	0.0%
5	Strongly Disagree	0	0.0%
	N	8	

MEETING SIGN-IN SHEET

Project:	FloridaNet Listening Sessions	**Meeting Date:**	March 18th - Afternoon
Facilitator:		**Place/Room:**	Punta Gorda

Name	Title	Company	Phone	Fax	E-Mail
Denise Hawkins-Garland		Charlotte County fire/EMS			
~~Andrew Stadtler~~		~~Lee County Public Safety~~			
Lynne Stickley		Charlotte County Emergency			
Bob Finney		Collier County Sheriff's Office			
Rich Dorazio	R Dorazio	Collier County EMS			
Darren White		Fort Myers Beach Fire Control District			
Nolan Sapp	Nolan Sapp	East Naples/Golden Gate Fire Rescue			
Bijan Razilou		Naples Police			
Sal Dangelo		North Naples Fire Control			
Dianne Flanagan	Dianne Flanagan	Collier County Sheriff's Office			
Gerald Shackelford	IT- Dir.	HARDEE county			
~~Sal D'Angelo~~		~~North Naples~~			
CESAR L. LOZADA	Information Svcs Admin	Charlotte SO			
Matt Hall	ACM	Motorola			
John Gibbons	Planner	SWFRPC			

MEETING SIGN-IN SHEET

Project:	FloridaNet Listening Sessions	**Meeting Date:**	March 18th - Morning
Facilitator:		**Place/Room:**	Punta Gorda

Name	Title	Company	Phone	Fax	E-Mail
Lester Yeates		Okeechobee Sheriff's Office			
Karl Holtkamp		Okeechobee Co Fire/Rescue			
Damian De Andres		Collier County Sheriff's Office	239 252-0567		DAMIAN.DEANDRES@ COLLIERSHERIFF.ORG
~~Andrew Stadtler~~		Lee County Public Safety			
Bob Finney		Collier County Sheriff's Office			
Gerald Wheeler		Sarasota County Emergency Services			
Jake Strawn		Sarasota County Govt			
Larry Leinhauser		FDLE			
Dianne Flanagan		Collier County Sheriff's Office			
WILFREDO MIRANDA	RADIO MANAGER	MANATEE COUNTY. IT	941 799-1211		wilfredo.miranda @mymanatee.org
Devin Bosch	COO	Alpha Omega Communications	941-718-0337		Devin Bosch @ gmail.com
Jim Eatrides	CEO	" "	941-350-9618		jim@alpha-omega com.com
Bill Quigley	Radio manager	SERGO of Co.	861-5285		Bquigle@sergo.net
AARON DEEREY	Supervisor Airport Comm.	LEE COUNTY PORT AUTH.	(239)590-4696		amdeerey@flylcpa.com
LARRY VAVREK	MGR IT Comm	LEE County Port Auth	(239) 590-4514		NVAVREK@Flylcpa.com

MEETING SIGN-IN SHEET

Project:	FloridaNet Listening Sessions	**Meeting Date:**	March 17th - Afternoon
Facilitator:		**Place/Room:**	Punta Gorda

Name	Title	Company	Phone	Fax	E-Mail
Andrew Stadtler		Lee County Public Safety			
Doug Blevins	Radio Manager	Charlotte County	941-628 4861	941-833 4120	doug.blevins@charlotteFl.com
Sherman Robinson	CAPTAIN	Charlotte Co Sheriff's Office	911 575-5255	911 833 5601	robinson@ccso.org
Tony Camps		Collier County EMS/Department			
David Cambareri		San Carlos Park Fire / Rescue District			
Melanie Bailey	Communications Administrator	Charlotte County Sheriff's Office	941-833-1885	941-575-5334	mbailey@ccso.org
Jake Strawn		Sarasota County Govt			
Bob Finney		Collier County Sheriff's Office			
Paula Carter	Paula M Carter	Cape Coral Police Department			
Terri Couture		Charlotte County Utilities			
Joshua Cordero		Highlands County Sheriff's Office			
Jim Kauffman		Bonita Springs Fire-Rescue District			
Gary Hubbard	Operations Manager	Charlotte County Utilities			ghubbard@CharlotteFl.com
Sandra Pavelka		FGCU			
Patrick Fuller		FL Division of EM			
Sandi Chernoff	911 Coordinator	Collier County Sheriff's Office	(239) 252-9380		
Laurene Anderson		Charlotte County Sheriff's Office			
Jerry Wagner		Sarasota County Sheriff's Office			
Jennifer Pellechio	Network Admin	Southwest Florida Regional Planning	239-338-2550		jpellechio@swfrpc.org

Nina Gala 3/17

Name	Title	Company	Phone	Fax	E-Mail
Paul Anderson		Immokalee Fire Control District			
KL Van Houten Kristie Van Houten	Comm Manager	Cape Coral Police Dept			kvanhout@capecoralpd
JP Fane		Highlands Co Sheriff			
Scott Wirth		City of Fort Myers FD			
Randy Jordan		City of Fort Myers FD			
J Michael Gorgas		City of Fort Myers FD			
Christine Hodges		Lee County Sheriff's Office			
Adam DuBois	Program Manager	Florida Department of Health -	941 627 7281	941 624 7277	Adam.DuBois@FLHealth.gov
Linda Landry		Fawcett Memorial Hospital			
Joseph Dote		Fawcett Memorial Hospital			
Paul Morrison		DOH-Manatee			
Ryan Oliver RD		DOH-Manatee			
Harvey Lewis		Collier County Sheriff's Office	239-252-0573		harvey.lewis@collierSheriff.org
Greg Johnson		Harris CapRock	404-862-5793		greg.johnson@harris.com
Joshua Hughes		Florida Department of Health - Charlotte	941-624-7276		Joshua.Hughes@flhealth.gov
~~David Cambareri~~					

3-17-2014 Page Gordon I AM

Name	Title	Company	Phone	Fax	E-Mail
Jim Kauffman	Director, Planning + Technology	Bonita Springs Fire-Rescue Dist.	239 949.6200		jkauffman@bonitafire.org.
Bill Rule	COMMANDER of Communications	COLLIER S.O.	239 252-9364		Bill.Rule@colliersheriff.org
Jerry Mallot	Coordinator	CHARLOTTE CO EMER MNGMNT	941 833-4000		gerard.mallet@charlottefl.com
Mike Oler	SGT/Bomb Squad Commander	Collier County Sheriff's Ofc	239-253-4689		paul.oler@colliersheriff.org
Scott Bialy	Detective Bomb Squad	State Fire Marshal	239 278 7530		Scott.Bialy@myfloridacfo.com
Bob Finney	Technical Mgr.	Collier County Sheriff	239 253-4989		Bob.Finney.iii@CollierSheriff.org
John Barkley	Lt. Prof. Standards	Naples Police Dept	239 213-4874		jbarkley@naplesgov.com
Andy Stadtler	Manager Radio	Lee County	239 533-3617		astadtler@leegov.com
Dan Anderson	Commander ~~Collier S~~	Collier SO	239 278-2080		danandersone@fdle.state.fl.us
Tom Foy	ASAC	FDLE	321 231 2727		tomfoy@fdle.state.fl.us
Mike Harrington	Sr. Acct. Exec.	Motorola	239 574-8765		michael.harrington@motorolasolutions.com
K. Lombardo	VP/GM	RCI	239-571-0333		klombardo@rci.com
3-17-2014 Pg II PM					

MEETING SIGN-IN SHEET

Project:	FloridaNet Listening Sessions	**Meeting Date:**	March 17th - Morning
Facilitator:		**Place/Room:**	Punta Gorda

Name	Title	Company	Phone	Fax	E-Mail
Andrew Stadtler		Lee County Public Safety			
Bernard Milosky		CHARLOTTE COUNTY UTILITIES			
Dan Anderson		Collier Co. SO			
Tony Camps		Collier County EMS/Department			
David Cambareri		San Carlos Park Fire / Rescue District			
Tom Storrar		Region 6 Fusion Center			
Jake Strawn		Sarasota County Govt			
Mike Kessie		New College of Florida Police			
Richard Fimbel		DBi Services			
Thomas Foy		FDLE			
Joshua Cordero		Highlands County Sheriff's Office			
Jim Kauffman		Bonita Springs Fire-Rescue District			
John Barkley		Naples Police Department			
Scott Bialy		state fire marshal - eod			
Bob Finney		COLLIER COUNTY SHERIFF'S OFFICE			
Scott Titus		North Port Fire Rescue			
Jeffrey Nickell		Lehigh F.D./ MARC 6			
Benhamin Abes		Lee County Public Safety			

Exhibit 48

Miami 3.19.2014
Session 1

Participants

Name	Title	Organization	Phone	Email
Greg Ruben		Miami Dade Fire		
Andy Pichs		Miami Dade Fire Rescue		
Freda Vaughan		FDOH Region 7		
John Meizoso		Miami Dade Fire Rescue		
Jose Estrella		City of Miami		
Russ Ryan		ATF-DOJ		
Jose Rivera		MDPD		
Jeff F				
Jason Swift		City of Coral Gables		
John Cracolici		Cisco		
Cindy Cast				
David Patlak		Miami Beach		

FloridaNet

- *The orientation slide deck materials were presented*
- *We'll tell you what's known and offer some speculation on*
- *Q: $4.9 million allocated to FL?*
- *A: Yes…for setting up governance and planning…not for building or equipment*
- *If you don't define your own jurisdiction someone else will do it for you. This is huge. Getting our preferences in early to this process offers the greatest chances for success.*

Miami 3.19.2014

Session 1

<u>FirstNet</u>

- *The orientation slide deck materials were presented*
- *The standards set by the Steering Committee: will they push subscribers off the network*
- *Questions about public/private capacity*
- *Key point; the way bandwidth are allocated are different…we have to think differently about prioritization. FN will have the capability to transmit.*
- *Technology exists to mitigate many existing concerns. Will discuss more in this program*
- *PSAC is looking at the prioritization and pre-sets for network configuration*
- *Users should be more knowledgeable on this process. Too often things get forced down our throats that fail because obvious faults weren't identified*
- *Local control/local input and local discussion are keys to building this infrastructure.*
- *FloridaNet totally understands that DC/Tally control is NOT the way to build a successful program with wide understanding and buy-in. Lots of local involvement and participation is.*
- *Key point: nothing is carved in stone at this stage. YOU have the opportunity to drive this discussion more than anyone else.*
- *Priorities will be different depending on scenarios: fire/plane crashes/traffic emergencies will require different leaders and followers.*
- *<u>AirCards</u>*
- *Think of FirstNet as the net carrier for a nationwide high-speed secure network.*
- *Remote response; your device follows your profile.*
- *I understand the reserve spectrum for PS. Still limited by technology of the private carrier. This is still limited by capability right?*
- *A: right now it is limited to 4G, but they're writing how to upgrade to future 5-6G capabilities as they come down the pike. Evolution of specifications and*

capabilities will follow as they become available. Better utilization of the spectrum that's there.

- *Mobile data devices used 13x the data that existed on the Internet in 2001.*
- *Average data use:*
- *By 2018 users are expected to be at 8 gig/month.*
- *To be clear: are we only talking about network technology, right?*
- *Yes*
- *LTE standard was an int'l standard. This will enable interoperability. 4G/5G is more of a marketing term right*
- *Because it got pressured 2 years back some of the standards slid a bet*
- *Whatever's out there will be leveraged*
- *Closed network or open to some standard?*
- *Primarily closed, but we must be able to access public webcams*
- *CD-PD network.*
- *More like a Verizon card.*

Will my facilities have to drop a connection..or will this be internet routing?

- *Routing. This involves a high level of cyber security.*
- *Hence why mission critical voice can't be part of it*
- *Will we be able to control our cards and the access they have?*
- *Yes*
- *Will devices be purchased through FirstNet?*
- *Think apple model: A approves the device to connect to the network (security chips, etc.) and an app store. Question is if FN establishes a GSA price every single location wouldn't have to negotiate separately.*
- *Is this the goal?*
- *We had dinner with Bill. In pure speculation mode on this*

- *If PS wants to drive costs out on the appliance side more buying power would clearly be an advantage. Some solution that addresses this needs to be part of our thinking.*
- *The business model hasn't been set in stone. FN has learned to be a little careful about making public announcements. They are definitely paying attention to this.*
- *FN goal is to cover every square meter of the country.*
- *Great example where we have to get to places with sketchy coverage and increased bandwidth*
- *Derek Orr Boulder lab director. 7500 ft. in the air. Tether broke on National UFO day! Great story. Understanding where we need to STAGE SOWs/COWs in case they become needed.*
- *FWC has been in most meetings. They have big coverage needs in remote areas. In our planning efforts this is where we need input/perspective to identify persistent coverage needs. The planning step needs to*
- *<u>What's the timeline between planning this and standing up a network?</u>*
- *Bill's perspective: FN CEO said we'll be ready to stand up state plans and bringing them to Governor around 4Q/15.*
- *Cindy: That's not deployment!*
- *Miami: 3-5 years. 6-8 years (chief)*
- *We're figuring all of this out. They won't be ready to start until 1/19*
- *Whatever the schedule FL will be on the front edge.*
- *Yes but, sometimes the bleeding edge is the bleeding edge.*
- *Lots of dysfunction and blur on FirstNet. Governance isn't believed to be that good in Miami. It's tough to be out front when the locomotive is coming behind.*
- *Brett: It's a mess, but the issue isn't FN.*
- *J: FN will operate as a quasi gov't within NTIA. Attorneys disagree on what this means. Board and body could really run this, but NTIA has kept a high level of control. 6 months to hire people. Dissembling VTOPs is one example. Real delays in rolling out a network aren't the problem. Politics are.*

- *J: thinks first deployments might be 3. LA-Ricks/TX have been building these out.*
- *Physical deployment is more likely to come from suppliers*
- *Chief: anyone who's tried to build out a network (we're one of them) NIMBY means it's really hard to stand up a site. Relying on suppliers will be crucial.*
- *Brett: why FL will be successful: we'll get plan in quickly, good interstate infrastructure, coverage where population is. We have great saturation. Our issue is getting cooperation in the tower world.*
- *It's not about building a lot more towers…it's about negotiating good agreements with existing network providers.*

Already seeing some things I was skeptical about I'm more about

- *Do your know most carrier towers don't have generators??*
- *Yes we do*

LTE: managing expectations will be key for FL in-building penetration

New building construction with energy saving functions block signals coming in

West coast has some so

NFPA-1 requires these standards for fire-fighting

FN is looking at 1-wall penetration for a starting point

How big is the wall?

1. *Attenuation and DAQ for voice need to be consider*
    a. *Without a benchmark you have to achieve required BIR?*
2. ***Bit Air Rate** (at what frequency?)*

When should we start specifying 4.9 ( ) in buildings?
This fall
We have 4.9; used for multi-sites

More LTE/LMR discussion

Add LTE antennas until you can't add any more to existing towers. Not good/bad. Just have to ask questions

J: we're not selling for FN. We have funding to do the grant. Let's get our plan out so we don't get a Kansas plan imposed on us. Executive Board is skeptical too. This is why we have auditors on the technical and financial sides. Let's spot flaws BEFORE a plan gets presented to Governor

Based on history we had a band that shared carrier/PS service.

How can we avoid another Nextel?

Nextel's problem was interleaving. LTE offers a better way to get around this.

This type of network will be a hacking target

How will you control individual security?

You'll have applications that are sensitive…may not want to offer

Internet

FirstNet core with internet (big WAN)

Within that you'll want access to Miami-Dade files

So well set up agency VPNs within it

Encryption/VLAN are all possible ways to do this

NSA has issues CFFC (commercial systems cryptology chip-based solution) for standards

A lot of questions remain to be answered.

Technology solutions exist…

Lots of blowback to FN's message: we'll design the core…we got it; don't worry.

They have ability to leverage Federal assets, but are they listening to PS in terms of what we need and the real issues.

The core is always the loud conversation (Cisco)

AT&T/Verizon need local data domains. We will too

This data will be encrypted back to local/region 3-4 years out. Products will shrink in cost and size. There will be registered applications.

If you build in encryption to the card we won't need VPN

Miami 3.19.2014

Session 1

Card is a piece of hardware

10 major applications: Federal/State/Local/County. These registered apps may be encrypted or not at some level.

We don't know what the rules will be for providing public/private access

Likely that at the first major POP the public goes one way and PS goes another (Cisco)

Encryption for public activity

What happens to the physical box: switches and routers with public and private access? This is the first technology that's IP end to end. You can leave the base station 30 different ways.

Take VPNs out of the picture. How tight are the channels?

Internet now has no dedicated anything. Everybody is on the same network. We have ways to segment and direct traffic. Multiple ways to secure and dedicate access are available.

We're building something that will be utilized 10 years from now by a new generation

Clumsiness of how this is set up is a major constraint

Deploying a national network with 35 people? Another

Didn't we have to give up 470 Band? To get this

Never designed to be a total solution. Unless this FN work we expect Tband may be back.

We had to sacrifice some voice to get data started. With the right data tools the need for voice drops significantly.

Maintain your LMR systems! They will remain mission critical for 10 years or so

Our hope is to maintain this together

We need to make a recommendation on what we think local control looks like

What's the date for having an opinion on local control?

We need an opinion quickly. We'll launch interim working groups as soon as FN lets us begin collecting. Waiting on them to say yes

Standards are crucial: in –building coverage/priority coverage areas/others

Miami 3.19.2014
Session 1

<u>We need to have an informed opinion on this!</u>

This will be our driving force at the end of the day

West Coast system at $150/month is DOA. Affordability will be the driving factor

Nobody on the FN Board DOESN'T understand this. It will either be compelling value-added service,

$37.50 up to 5 GB unlimited here in Miami

We need to pull financial benchmarks in FL. If we give them the data in advance, we won't be surprised. Let's get out first and state our case, and have some input.

<u>Data Sharing</u>

- *The orientation slide deck materials were presented*
- *Say His-sim (HISM)*
- *Concentrated intel on data needs to be protected*

<u>How to Participate</u>

- *The orientation slide deck materials were presented*
- *Broadband coverage: keep this in mind. If you ask Miami you'll get an AT&T answer; dofferent county will give you a Verizon answer. This step will produce a BASE map that shows us an approximation of where coverage exists.*
- *We'll also have the info from the carriers…you'll get to tell us where applications work (or don't)*
- *Often carrier maps show us where signals are good, but there is interference in between. Is anyone looking developing an app that would provide some form of RSS logging to track this.*
- *Carriers made Apple take this app down as it was considered proprietary.*

- *Something like this for drive testing would be a great idea. If the legal questions can be resolved this could help out with in-field sniffing. FirstNet has some clout that might make this a diferent discussion.*
- *RootMetric App? This does exactly what we're discussing.*
- *Once we have this, the next step is identifying gotta haves for high-speed data access across the state.*
- *Between now and then, technical working groups will be tackling the*
- *What is hardening?*
- *What in-building converages*

<u>Other Q&A From the Session</u>

Miami 3.19.2014

Session 2

Participants

Name	Title	Organization	Phone	Email
John Cracolici		Cisco Systems		
Vernon Jones		Kendall Regional Medical Center		
Martha Oliver	Infrastructure Mgt.	Miami Dade CO		
Gary Gray		City of Ft. Lauderdale		
Mirtha Conzalez		Miami Dade Emergency Management (MDEM)		
Mike Arnold		City of Miami		
Dave Patton	Miami Emergency Management			

FloridaNet

- *The orientation slide deck materials were presented*
- *What do we need in terms of high-speed broadband coverage?*
- *Where can we get by with aircards? Where do we need extra capacity?*

FirstNet

- *The orientation slide deck materials were presented*
- *Why can't we do mission critical voice if we can send data/video and pictures over the network?*
    - *VOIP requires very high standards for network performance (latency, etc.)*

Miami 3.19.2014

Session 2

-

Will voice be recorded?

- *This is a decision that local users will make.*

  Miami-Dade UHF radio site has about 40 sites LTE will need many more (maybe 10x) and lower elevation. We think it might be easier to get these sites because they won't be as high as ratio towers. Rooftops will be an option

  The county is developing an application with a GIS overlay to map responses for their own requirements. Likely it will be useful in other areas.

  GA Ice jam shut down trooper's MDT terminals dead. Overload situations using existing networks just doesn't work in these situations for PS. Gasparilla/RNC/other major events are prime examples of why a dedicated PS network is necessary.

  Help us define the right hardenings requirements: physical security/wind speed/water levels/cyber security

  Opt-in as users…and add providers were discussed

  We should design this network. Let's leverage the planning dollars that have been allocated to do the best job possible and design the network that meets our needs.

  What happens if we opt-out? We still have to maintain this, get the security and get rural areas covered. It may be possible we could meet these requirements cheaper than FirstNet can. Unlikely, but possible.

<u>Data Sharing</u>

- *The orientation slide deck materials were presented*

Miami 3.19.2014
Session 2

How to Participate

- *The orientation slide deck materials were presented*

Other Q&A From the Session

When will the plan be completed?

DC/TX regions are moving ahead.

By this time next year we should be in pretty good shape. The faster, the better.

The more developed our business plan, the greater the likelihood they will be adopted. '

How will input from public works be collected?

We need to be certain your public works and utilities folks are part of the conversation. HISM certification credentialing will be needed.

For utilities, we may need to explore credentialing.

We'll find a way to make this work

Utilities are putting in a network for water monitoring. Is this group potentially one that should be included here? (i.e. water/sewer pump stations?)
Worth a thought. If you can plug pieces into the infrastructure it makes sense to plug in.

The more pumping stations you put out, the more subscriptions you'll add to support the network.

Health Care Preparedness Coalition has asked Cindy to present on FloridaNet this Friday. ESInet (WebEOC) does EMtrack. They're attempting to merge two systems. Another capability we hope to see on the health care side

Power and sustaining it is a big issue in S FL. Once fuel is gone we're out of business.

Railroads? Huge fiber capacity here too?

Q: Have we considered the logistical requirements of positioning supplies outside emergency zones? (water/gas/chain saws). All are equipped with GPS.

A: might not be part of the core, but connecting essential provisions in might get more subscribers on the network. Food/Oil-Gas. We might want to strongly suggest these folks be part of the network.

Band14 capable doesn't necessarily put them on the core. Everyone that has a critical logistical profile might be able to access under category3. Cisco gets called in on just about every emergency situations. There must be 100 companies. If you do business with the state you might want to mandate coverage for executive teams…the people that can put teams together. From an ego perspective, many execs would love to be on this network. Low hanging fruit for subscribers in the supply chain.

They wouldn't be on the network until we threw the switch.

As a region, we might have an interest in knowing where hazardous materials are within the state.

Miami seaport/airport are central transportation hubs….be sure they are included in critical infrastructure planning and discussions. Likely entry points for a range of potential emergency situations.

Counties have been participating in the Smarter City initiative. Portions of this might be useful to include in our next steps for integration.
Investigate
Facial recognition that can trigger calls to police.

Assume stadiums will be critical infrastructure that will need lots of additional coverage. This is where we extract value of the spectrum from the providers. This increases capacity for everyone. This is a potential tradeoff for commercial partners.

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Session 3

Participants

Name	Title	Organization	Phone	Email
Edward Pidermann	Asst. Fire Chief	City of Miami Fire	305-960-4901	epidermann@miamigov.com
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Bernado Carralde	Director of IT	Miami Jewish Health Systems	305-606-3703	bcarralde@mjhhq.org

FloridaNet

- *The orientation slide deck materials were presented*

FirstNet

- *The orientation slide deck materials were presented*
- *Will FirstNet decide what kinds of data get transmitted?*
- *NO. It will be a secure high-speed network. If it's a browser based world they won't care. If an application is involved, some level of security will be required. The Boulder lab will be testing out security. Stated goal is to make this as open and innovative as possible.*
- *Telemedicine with streaming video will be part of the future*
- *Middle of the Everglades: how do respond with 350 KB coverage?*
- *Public Safety Communications Lab component of NIST in Boulder is testing deployable solutions.*
- *Who is the "we" you're referring to in emergency response/resilience?*
- *DoD/FEMA/Homeland Security/Coast Guard will have deployable assets that can be brought to bear on future emergencies.*
- *Will the network be encrypted? Yes*

Miami 3.20.2014

Session 3

- *How much extra equipment will I need to buy for something I'd only be using a small part of the time (i.e. hospital)?*
- *This would be a competitive carrier for public safety you can choose to subscribe to or not. This would be focused on REPLACING existing air cards in some of your offices/cars/vehicles. You might have a few responder vehicles with this capability. It's totally up to subscribers how they want to connect.*
- *When first responders land in FL, they need to be able to connect to the FloridaNet network. You don't need to buy the device if it doesn't make any sense.*
- *Verizon/Sprint cards don't provide coverage in all parts of the region.*
- *How will coverage issues be addressed in small locations? We're too little to talk to the networks?*
- *That isn't going to happen. We get to design priority design needs. Then FirstNet will respond to the map. If they don't respond you have the same options available you have now…you're still free to move providers as necessary.*
- *The idea is great, but at the end of the day it's about dollars. Budgets are a constant challenge.*
- *Right, but FirstNet has a huge incentive in the form of commercial leases. Executive Board understands they will ultimately need to win business. Will they be able to? Unknown. They're still struggling with this means in terms of what comparative pricing means. Is a premium for reliable service something users will pay for (if performance and reliability increases)?*
- *$40/month is the baseline we're hearing. We just want to collect price points across the state and validate this.*
- *Is the plan to ride on the existing network of commercial carriers?*
- *Absolutely! This is the only way to go*
- *5million @ $40/month = $2 billion/year: best case adoption*
- *Carriers are desperate for spectrum. They wanted the spectrum with the understanding they'd lease it to PS in emergencies. PS won this battle.*

- *Best part is this spectrum can be dynamically segmented.*
- *Doesn't matter if you have a dedicated network if the towers are overwhelmed*
- *A: LTE is different. With non-voice data there is a LOT more flexibility in how these priorities come into play. In an event (evacuation) everyone is on the phone. The networks get overwhelmed with 3 people in every car using devices. A prioritization scheme will be set to override the PS chunk of the spectrum turning this back to public safety.*
- *NFL is requiring stadiums to upgrade each site to add capacity.*
- *Concerns expressed that if you can't guarantee 1 meg per user we run out of spectrum quickly*
- *How will rural coverage issues get addressed?*
- *Extreme rural areas will try to leverage all existing tower coverage they can ($150k/apiece easy), but will have to be balanced with satellite coverage.*
- *Miami-Dade is likely trading out access to towers with application and device needs. PG has been wondering why vendors have been trying to buy towers. This is why.*
- *NIPSTIC: responders created the criteria for mission critical voice. LTE doesn't meet many of them.*
- ***What do you see as the timeline?***
- *Fast moving states (top 5) 9/15 would be the earliest the State plans might get delivered to the Governor.*
- *When do I get my FirstNet AirCard*
- *TX/LA-RICs/Mackinac-MD are piloting.*
- *Flip this and sell capacity to vendors; make plenty of money and go back and help the front line responders.*
- *FirstNet isn't self-funded. HUGE skepticism that this won't be taken over by the private sector. HUGE skepticism that bandwidth will be available to allocate.*
- ***Create this in a way that's cost-neutral to end users (or better) that provide operational enhancements***

Miami 3.20.2014
Session 3

- ***Legislation putting mandates/guidelines should have been put in***
- *It's the value of the spectrum that floats (or doesn't) the business model.*
- *There are lots of business model.*
- *We will plan actively and offer a map of Miami-Dade with build out strategies. The question set is being developed. You'll be asked to view and verify the coverage is right*
- *We'll test some priorities and price points*
- *Ask "how can we do this differently"*
- *Could we build this ourselves?*
- *2 levels of opt-in/out/; State and whether to subscribe or not*
- *Opt in AND (additional data/hardening requests); Opt in BUT (we have other private equity options with more control)*
- ***Is there a deadline for States to decide to opt in/out?***
- *Governor gets 90 days to go/no-go; X + 180 days if FL opts out*
- ***Are rates going to be determined locally or nationally/***
- *All part of the business model development. NTIA proposed a $100/month value-added cost unfunded mandate. Reaction was skepticism from FN.*
- *What's happening is PS community is re-capturing some of this effort. FirstNet is hearing from people on the front lines and learning the realities of local funding and willingness to pay.*
- *FN Executive Board absolutely, positively understands the realities of the marketplace. Whether or not they will be able to deliver in a gov't mandated process remains to be seen.*
- *Hardening/priority coverage; virtual working groups will be assembled. What are the big questions:*
    - *Price point discussion group*
    - *What additional value would we be willing to pay for*

- *Cyber security/hardening requirements*
- *Priority coverage areas*

Data Sharing

- *The orientation slide deck materials were presented*

How to Participate

- *The orientation slide deck materials were presented*

Other Q&A From the Session

Miami 3.20.2014

Session 4

Participants

Name	Title	Organization	Phone	Email
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FloridaNet

- *The orientation slide deck materials were presented*

Miami 3.20.2014

Session 4

- *Is this being run by DMS?*
- *No. We are a virtual organization, specifically to be your staff to lay out this process. We are here to drive the local component of this project.*
- *Mark Filla is Cindy Cast's counterpart in PB.*
- *$5million for implementation?*
- *NO. Just for planning*
- *NEW GUY: I've had some front end planning experience when this was being conceptualized. Surprised you'd have FPL and private sectors involved. Thought this was supposed to be public safety. Never in any presentations have those players.*
- *Fiber/backhaul capabilities will be huge.*
- *Concerns about the spectrum being able to support this expressed for 5 million.*
- *Completely different uses are being proposed and discussed. Heavy video is what I thought was being discussed. In Orlando we had several FN presentations from Andrew Seabold who's done multiple studies. He's expressed concerns about the network being overwhelmed with video.*
- *How are we doing it now?*
- *We aren't using it now.*
- *Point isn't to solve all problems….it's to do something better.*
- *Utilities will likely be a priority 9. PSOC will have a shot at defining what the priorities will be in certain situations. Spectrum will be allocated based on the incident: Fire/SWOT/Emergency Services. This is where these priorities will be set.*
- *FDOT IS THE LEAD?*
- *NO! HSMV…because they were able to supply the matching grant*
- *Hospitals/Utilities aren't going to use this day in and day out. Correct observation that video will be the Achilles heel. Live stream will be something we can tunnel into. Many legit concerns and we have the technology to address them. PSAC will set these priorities.*

- *SCIP meeting addressed this*

<u>FirstNet</u>

- *The orientation slide deck materials were presented*
- *Where will the approval level reside for apps? NTIA? State?*
- *Everybody runs their own proprietary GIS systems. We have almost no consistent standards. We can't even agree on CAD systems between counties!*
- *If you take the Apple model, somebody will have to check the apps for basic security. Where? This is to be determined.*
- *Some approvals of where these devices will be manufactured (and how) will have to be part of the approval for secure devices. Not just LTE.*
- *This is about building a road. What gets to run on the road will have some standards. Prediction: FN will probably not impose a lot of restrictions*
- *Predictions: browser-based apps will be a lot easier*
- *NIM/Global XML are global exchange models (developed at GTRI). These solutions exist..translating to policy is the challenge*
- *Question: If I see this competing against us (VERIZON/CEO) won't they drop prices to the pint they'll undercut FN? They know if they aren't competitive price wise they're out of this market*
- *There's also been talk about mandated subscription. Lawsuits would take a long time.*
- *20 MHz of spectrum is probably the key to this discussion. Prime real estate that's incredibly valuable*
- *How will you sell the difference between FN and what I can buy now?*
- *Tampa Gasparilla scenario: data overwhelmed….no access from the commercial side. If we as PS are going to need data.*
- *So you're talking about some kind of pre-emption. Capabilities exist that eliminate this from being an issue.*

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Session 4

- *Is there a business case that can be made on some base level of spectrum, leasing some portion of the spectrum? Can FN build the business case for this? We don't know yet.*
- *Undercutting this? Here's a reason why this doesn't make sense. We are talking about data only. How many people want a cell phone without voice? Not many.*
- *Agency provided cell phone with a band class 14 session. Still a subscriber, but now 5 million providers (only on data) would give them access to zillions of voice subscribers. Unlikely they'd undercut.*
- *The more commercial users have access to the towers the greater the probability they pick up the slack on maintaining towers and generators.*
- *From FLNet perspective: there are huge issues that need to be addressed. We aren't waiting. Let's design a FL net with our design and standard. FirstNet: this is what Florida wants from an economics and technology perspective.*
- *Not about whether this happens or not…let's plan it and articulate what we want.*
- *We have a fair amount of clout with Senators on NTIA oversight and Commerce Committees.*
- *How will we get out on the water with this system?*
- *FWC is at the forefront of this challenge: we need voice to go with 2,000 miles of coastline going out 20 miles. FL is a coastal state*
- *CONCERNS: Put it under Homeland Security and call it a grant. We're concerned this will be imposed on us from above. If this is going to happen it's going to happen regardless of how we plan. Let's leave this to the lawyers. Strong concerns/fears expressed this will turn into an unfunded mandate from DC.*
- *What would be the point of opting out?*
- *State SLERS system is a great example. Harris went out with the the RFP. Harris-owned structures. Lots of friction on tower ownership. State could decide to offload it all to the private sector.*
- *So do we just let it happen….or do we actively plan?*

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Session 4

- *Does it make sense to plan and specify what we want….or not?*
- ***As a network admin, there shouldn't be an exit plan in 10 years. They need to fund it and own it…or be able to privatize it.***
- *Legislation says operators can't make a profit on the network. This is an unlikely outcome. We should be able to cut out the State extortion model. Things can change with a new Governor.*

Data Sharing

- *The orientation slide deck materials were presented*
- *We will establish working groups to examine hardening/coverage/cyber-security needs*
- *We will have taken a proactive approach. There are advantages to going first. BTOPs are ahead of us.*

How to Participate

- *The orientation slide deck materials were presented*

Other Q&A From the Session

Commercial providers will be providing the the RF capability?

Yes…IT will be a large component of the loal deployment

LMR hesitate to bring IT folks into these discussions…but we need them now. This is their world. When it comes to radio users in the field we need this perspective too. The 2 are starting to come together.

This is a complex scenario that would be hard enough if it was just private sector. Adding multiple gov't agencies makes this 100x more complicated. Much more chaotic and less ability to do phased-in deployments.

The politics and business segment will be where the complexity lies.

Miami 3.20.2014

Session 4

$7 billion is scary to some…even leveraging existing wireless carriers there are tremendous assets and nodes tht will be needed. That money will be quickly allocated and spent. Early movers will have the advantages of moving fast.

Big concerns we get halfway into this deployment and it gets abandoned expressed.

Nextel experience….some see this running out of monety…..what it cost to build out nationwide. Cut a check or get a refund.

We are committed to look at the opt-out model. It may be our best way to go.

Now is a better time to boost our interoperability capabilities around planning. When we're done we'll have reinvigorated the SCIP that can be leveraged even if the Federal side fails.

MIAMI IV

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Mark Filla	Radio Mgr	Palm Bch Cty	561-233-0537		mfilla@pbc.gov.org
Clarise R Ferguson	Com Mgr	MB	786-296 1119		CFerguson@miamibeachfl.gov
Harrison Atkins	IT/RADIO	MB	305-992 8519		harrisonatkins@miamibeachfl.gov
STEVE DETWILER	PLANNER	MIAMI DADE CTY	305-468 5423		STEVE@MIAMIDADE.GOV
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Cyne Wright	PHMP Coord	FDOH MONROE	305-289-2729		cyne.wright@flhealth.gov
Gastinde Tassy	GOC	FDOH-MD	305-470-6996		gastinde.tassytoussaint@flhealth.gov

Miami Day II - Session III

Name	Title	Company	Phone	Fax	E-Mail
Edward Pidermann	Asst Fire Chief	City of Miami Fire	305 960-4901		epidermann@miamigov.com
Woody BAHR	LIEUTENANT	"	" 4902		WBAHR@MiamiGov.com
Bernardo Carralde	Director of IT	Miami Jewish Health Systems	305-604-3703		bkarralde@mjhha.org

First Net 3/19 - 3/20/14 EOC

Name	~~Title~~ Badge #	Company	Phone	Fax	E-Mail
Dwight Clodfelter		Florida Highway Patrol			
Patricia Byers		University of Miami			
Cyna Wright		FDOH Monroe			
(OK) Mirtha Conzalez	140	Miami-Dade Emergency Management (MDEM)			
Mark Filla		Palm Beach County			
(OK) Andy Pichs	139 ✓	Miami-Dade Fire Rescue			
Freda Vaughn		FDOH Region 7			
(OK) Russel Ryan	43 ✓	DOT			
Jerry Sexton	130	DHMS			
(OK) Jose Rivera	105 ✓	MDPD			
Cindy Cast	94 ✓	MDC			
Vesr Herr	154	HSMV			
Lawrence Gowen	151	HSMV			
Charles Boston	33	HSMV			
(OK) Gary Gray	941	Citrot Ft Lauderdale			
(OK) Martha Olivia	250	MDC			
Darrel Patlak	121	Miami Beach			

FIRST NET 3-19-20
MIAMI

Name	Badge#	Company	Phone	Fax	E-Mail
John Cracolici	120	Cisco Systems			
Woody Bahr		City of Miami Fire Rescue			
Edward Pidermann		City of Miami Fire Rescue			
Sean MacDonald		City of Miami Police Department			
Steve Lamson		FDOH			
John Meizoso	117 ✓	Miami Dade Fire Rescue			
Gastrude Tassy		FDOH-MD			
Harrison Atkins		City of Miami Beach			
~~[illegible]~~		~~Miami-Dade Fire Rescue~~			

FILE NET 3-19/20
MIAMI

Name	Title	Company	Phone	Fax	E-Mail
~~John Cancelier~~		~~Cisco Systems~~			
(OK) Michael Arnold	105 ✓	CITY OF MIAMI			
Natasha Strokin		Florida Department of Health M-D			
(OK) Jason Swift	117	City of Coral Gables			
(OK) Jose Estrella	140 ✓	city of miami			
~~John Meinecke~~		~~Miami-Dade~~ Fire ~~Rescue~~			
(OK) Vernon Jones	43 ✓	Kendall Regional Medical Center			
Martha Casero		Florida Department of Health in Miami-Dade County			
~~Steve Fiorito~~		Miami-Dade Fire Rescue			
Mirtha Gonzalez		Miami-Dade Emergency Mgmt.			
Nancy Acebal		South Miami Hospital			

FIRST AID 3-19/20

MIAMI

Name	Badge #	Company	Phone	Fax	E-Mail
~~John Gracciolci~~		~~Cisco Systems~~			
Frank Betancourt		Miami Beach FD			
Jean Arias		Baptist Health South Florida			
Kenneth Morton		Baptist Health South Florida			
Rajesh Maragh		Baptist Health South Florida			
(CR) Greg Rubin	121 ✓	Miami-Dade Fire			
(CR) Ray Vaughan	250 ✓	Miami-Dade Fire			
Lisa Jacobs		Miami-Dade Fire			
~~John Herzog~~		Miami Dade Fire Rescue			
~~Andy [illegible]~~		Miami-Dade Fire Rescue			
Steve Lamson		FDOH			
Richard Whitehurst		Baptist Health South Florida			
Dwight Clodfelter		Florida Highway Patrol			

Exhibit 49

Orlando 3.31.2014

Session 1

Participants

Name	Title	Organization	Phone	Email
Tommy Barnes	Fire	Sanford Airport Fire Dept.		
David Charles	Deputy	U.S. Marshals Service		
Joshua Cordero	Comm Center Trainer	Highlands CO Sheriff's Office	863-301-6000	cordero@highlands.org
Crista Dexter	Comm Center Trainer	Lake CO Sheriff's Office	342-2101	Crista.dexter@lcso.org
Suzanne Garfinkel	Support Service Supervisor	Lake Mary Police Dept.	407-585-1322	sgarfinkel@kalemaryfl.com
Maureen Hatcher	Director of Communication	Lake CO Sheriff's Office	407-343-2101	Maureen.hatcher@lcso.org
Randy Jones		Lake CO Fire Rescue	352-267-7700	rjones@lackcountyfl.gov
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Anthony Merola	Training	UCF PD	407-456-5620	Anthony.merola@ucf.edu
Myra Merritt	Assistant Director of Communications	Lake CO Sheriff's Office	343-2101	mmerritt@lcso.org
Marcus Messura	Account Manager	Motorola	321-228-6800	Amm124@motorolasolutions.com

Orlando 3.31.2014

Session 1

Poe Norm	Radio Systems Administrator	City of Orlando		
Andrew O'Mara		University of Central FL		
William Penland		Sanford Airport Fire Department		
Debbie Smith	Assistant Commander	Volusia County SO	386-295-5900	dsmith@vcso.us
Shawn Collins		FDEM	850-519-6734	Shawn.collins@em.myflorida.com
Andy Lang	Captain	Osceola County SO	407-340-1136	alang@osceola.org
Ryan Potts	IT	Osceola SO	407-709-9083	rpot@osceola.org
Vonda Jones	Comm Manager	WPPD	407-599-3460	vjones@cityofwinterpark.org
Greg Holcomb				

FloridaNet

- *The orientation slide deck materials were presented*
- *Greg Holcomb shows up! We have had these meetings scheduled for June of last year. Scheduled and unscheduled twice. We've had to wait for the Federal contracting process to catch up.*
- ***How Do We Define Public Safety? Julie Jones***
- *This is the last piece from the 911 commission that identified gaps and identified a prioritized system for public safety. States need a single POC. Julie was selected by the Governor to ensure the process is transparent, inclusive and open. We've made an effort to be inclusive in our planning phase to contact as many people*

as possible to ID who will use the system, how, and what the data gaps are. <u>This is about all users in the state.</u>

- *Gov't can come up with anything…but this is YOUR network. It may not work. Let's be realistic about the tendency for them to tell us what we need vs. listening to real world requirements.*
- *Technical meetings are coming this summer.*
- *19 RFIs have been received from the private sector. We're hoping we can take initial plans from vendors, remove proprietary chunks and have a solid starting point for comparing potential business models and technical scenarios.*
- *Julie is hoping to be out in front of this. Cautiously optimistic.*

<u>How will a bid system work, if private sector have already submitted information?</u>

- *The RFI piece is focused on advice, consent and identifying capabilities. Vendors aren't (and won't be) in the room when discussions get to procurement or purchasing. We see nothing worse than designing a system that nobody can deliver….or missing out on next generation capabilities that weren't widely known or shared.*

<u>FirstNet</u>

- *The orientation slide deck materials were presented*
- *Nothing on this system will change how you operate now. You will not be forced to add any applications. You will not be forced to subscribe.*
- *This is about the next generation of responders…it may take a 10-year timeline. Kids coming up will be ready to use the capabilities this will incorporate. Current users probably will be less equipped to take advantage of new ways of leveraging spatial data.*
- *If we opt out and select a hybrid model, FirstNet still owns the network/core. It's important to stress that an opt-out strategy would still restrict Florida's ability to charge for profit.*

- *If we opt out and don't participate, we could find ourselves in the worst possible outcome…a process that doesn't work for us, imposed by other states with completely different requirements.*
- *The Business modeling step will identify users and coverage areas. We need individual departments to identify business models and assumptions that work for your method of operations. The summer workshop is intended to gather this.*

Wouldn't it make sense that what we deliver to FirstNet will reflect our recommendations?

- *Yes…but there are a lot of skeptics*
- *FirstNet is comprised of private side partners working within a Federal construct. The learning curve is pretty steep*
- *JJ: we have a lot of State leaders that don't want Federal dollars. Our message needs to be:* ***this is going to be built regardless of FL's participation.*** *Our best alternative is active participation to shape this in ways that work for us.*
- *Also no taxpayer dollars are being spent.*

No profit driven model? What is the view on upgrading industry standards?

- *Craig Farrel, CTO is already writing in the standards how to integrate 5G (and beyond) into future editions. They know this is part of the current business modeling and planning.*

Do you envision an agreement with suppliers to prioritize PS access?

Yes! By definition Public Safety can use a lot of existing tower capacity. PS has tended to trail 2-3 generations behind current technology. The private sector tends to take better care of their equipment than PS is able to. On scenario is a heavy investment in tower hardening private towers that PS can piggybacking on. It's likely more specs will have to be upgraded to enable extended generator operation. Sheer speculation at this stage

More Speculation:

If you have a decent PS infrastructure and your towers are well positioned there is a high likelihood access/subscriptions may be part of discussion/negotiation.

Orlando 3.31.2014
Session 1

We plan to write a series of white papers detailing assets and potential negotiating positions. Sharing these papers on MOUs will provide some alternatives for how assets might be combined.

Greg: On the local side, when we started First Net's assumptions was there was an existing network. We laughed! Missions at Federal/State/local levels differ significantly. Requirements are different. Vital for the white papers to show these differences from the bottom up. 8,000 potential state users need to

Data Sharing

- *The orientation slide deck materials were presented*
- *Central FL Fire Chiefs: Greg will be presenting*
- *Web-X is a better alternative (Kevin Herndon) for Fire Chiefs…their meeting agenda is pretty covered up.*

How to Participate

- *The orientation slide deck materials were presented*

Other Q&A From the Session

Support for local/regional levels….delivery of goods/hardware…where will this be handled?

1. *Coverage in area needs to be supported. Opt-in, Feds would manage. FirstNet will be a wireless provder. One scenario might be resellers. AT&T might have a target group of 5 million PS users. They might offer a device with voice chip in it. Data might be FirstNet. They might offer a payment to FirstNet with upgraded PS data. How they choose to provide devices, but we'd be surprised if providers don't target additional voice users*
2. *A GSA contract would enable assured pricing for apps and services*
3. *Nothing has been built out yet. All speculation*

Orlando 3.31.2014

Session 2

Participants

Name	Title	Organization	Phone	Email
Bill Clausen		**Volusia CO IT**		
Dennis Devoe	911 administrator	Citrus CO Sheriff's Office	352-249-2710	
Steve McConnell				
Miller Norton	EOC Communications	Duval County Emergency Management	904-255-3121	mnorton@coj.net
Jerome Kenon		Orlando Police Dept.		
Justin Hopman		Brevard County Emergency Management		
Shane Strickland				
Gerome				
Kimberly Processor		Brevard County Emergency Management		
Lizzet Ruiz		Brevard CO Emergency Management		
Amy Campbell		OCSo		
Rodney Crane		Orange CO Information Systems		
Thomas Crosskey		Orange CO Fire Rescue		
Richard Dishneau		University of Central FL		

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Session 2

Name	Title	Organization	Phone	Email
Mike Hammer		USMS		
Hope Cunningham		Brevard Co Sheriff's Office		
Greg Holcomb		Lake County Public Safety		
Nicole Lloyd		University of Central Florida		
Christi Mullis		Osceola CO Sheriff's Office		
Terry Myers		Brevard CO Sheriff's Office		
Poe Norm		City of Orlando		
Trent Skille		City of Volusia		
Bryan Rintoul		Orange Co Sheriff's Office		
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Steven Strickland		Clermont Police Department		
Shannon Wilson		Brevard CO Board of County Commissioners		
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Steve McConnell	Technology Analyst	Seminole CO Sheriff	407-665-6713	smcconnell@seminolesheriff.org
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Orlando 3.31.2014

Session 2

<u>FloridaNet</u>

- *The orientation slide deck materials were presented*

Private Sector includes who?

Motorola, Alcatel, Harris, Lucent. Participation and perspective from the private sector has been beneficial to both sides to understand capabilities and business models. This will lead to a better informed plan.

- *Phase 1 ends tomorrow!*

<u>FirstNet</u>

- *The orientation slide deck materials were presented*
- *NIST: National Institute for Science and Technology has been testing devices, applications and systems. We aren't talking about future. We're talking about applications and systems DoD have been using in the field for years that are being declassified and made available to public safety*
- *FirstNet will absolutely be a target for hackers. DoD and other Federal cyber security experts are actively participating in design and specification discussions.*
- *Major event data overloads on exiting networks are a problem everywhere. Gasparilla/Super Bowl/Ice storms in Atlanta all have created overload situations that current networks are unable to withstand.*

What about a system in RI? Will it use the same apps FL uses?

- *Could be. They will be on the same network. What's being done on other states won't affect what we do here. They'll approve the apps that work for them. Florida will do the same. What's the only common app on your current iPhone? Web-browsers! No matter who links we thing browser based apps will be huge.*
- *First we need secure, well-designed apps. There will be some gateway to screen new apps. Core will be able to get to the internet (via a VPN).*
- *Speculation: When the Feds come in they are likely to have their own specs.*

- *Profiles will link users to the network. When we have a hurricane in Duval/Brevard those counties do thinigs differently. To achieve more standardization we need more agreement between counties.*

Greg: This is likely to trigger discussions on statewide applications that can. Maybe we'll have to download an app for scene X/Y/Z.

- *Users might be able to turn on a map (digital tools for street mapping, i.e. after Andrew when signs are gone).*

Could we preclude someone from using apps?

- *Absolutely. Your team/your apps. The core is a set of security standards. Facebook analogy; can everybody see everything*
- *FN is neutral on who sees your data.*
- *Command Center may be able to tap into other responders*
- *NEEM (National Emergency Exchange Model) shows standards for how applications can be shared.*
- *FN is bringing in Federal partners at all levels.*
- *Downside of this is many of the towers aren't locally owned here*
- *We can leverage the advantage of combined maintenance in exchange for access to spectrum capacity. There may need to be needs for deals on specific sites. Leveraging current assets on towers*
- *A collaborative capital model should enable everyone to identify potential wins. They can use our towers in exchange for spectrum. We can use their towers for expanded coverage. The best part is FN board understands networks well.*
- *How many approaches have been made to purchase existing towers?*
- *Plenty! Towers and spectrum will be the currency for barter in this new system*

Can public health ramp up more (i.e. pandemic) they're the smallest users in the system. What about a case where PH might flip to the top.

- *Different scenarios need to be determined for priority usage by event. PSAC is providing a starting point of priority by incident. Greg will do some technical review of this starting poing*

Orlando 3.31.2014
Session 2

Will FN authorize a local gov't to do tower deals on their own?

- *Stay tuned for this discussion. M*

How will they cover the cost of backhaul? How will costs be apportioned?

- *This will be part of the business model that is to be determined. Good news is Florida is fiber-rich.*

<u>Has FN or FL NET looked at including public safety tower coverage?</u>
There is probably not enough specificity to discuss requirements at this stage. The apps are different from AT&T and Verizon. Common definitions and assumptions around coverage need to be nailed down.

<u>Data Sharing</u>

- *The orientation slide deck materials were presented*

For those of us who weren't able to register on basecamp will other options be provided to register on the site?
Yes.

<u>How to Participate</u>

- *The orientation slide deck materials were presented*

<u>Other Q&A From the Session</u>

Orlando 4.1.2014

Session 3

Participants

Name	Title	Organization	Phone	Email
Jason Biggers		**Hillsborough County**		
Priscilla Mallory		Orlando Fire Dept.		
Chris King				
Todd Jordan		Orlando Fire Dept.		
Debbie Weber		Orlando Fire Dept.		
Alan Harris		Seminole County		
Leyland Greek	Fire Chief	Sumter County Fire & EMS		
Norm Poe		City of Orlando		
Tom Rossi		Bombardier/Sunrail		
Scott Watzlawick	Detective	Jacksonville Sheriff's Office		Scott. Watzlawick @jaxsherifflrg
Chris King	Sergeant	Jacksonville Sheriff's orffice	904-630-3645	Christopher.king@jaxsheriff.org
Dan Denton	Safety Manager	Bombardier/Sunrail		

<u>FloridaNet</u>

- *The orientation slide deck materials were presented*
- *You'll see the planning roll out in regional meetings soon (Norm)*
- *Public Safety needs access to data at exactly the time everyone else is using it.*
- *Tampa beer drinkers dissent!*
- *Phase 1 ends at 4:00 today!*

Orlando 4.1.2014

Session 3

FirstNet

- *The orientation slide deck materials were presented*
- *With 2-3 carriers, am I on target that FirstNet is intended to be the one carrier for public safety? Yes, one carrier on all towers (AT&T/Verizon/others).*
- *One provider for public safety that leverages the statewide capacity*
- *We won't need to build a lot of towers in FL. We will need to harden them..but we don't need a lot more of them.*
- *Estimate FN will need 35,000 towers nationwide*
- *Most of this is east-coast.*
- *We have plenty of towers that can be leveraged here. No shortage of them here*
- *So the Federal gov't is starting a cell/data company?*
- *Yes…a data company*
- *So you aren't doing away with my cell coverage?*
- *Feds aren't touching your air card*
- *How long has LTE been in the country? First deployment in 2006?*

How will the Feds keep this up to date and ensure it won't be obsolete before it's deployed?

- *We're already planning for 5G and beyone*
- *Assume FN will purchase space on existing towers?*
- *Wireless mobile data needs are exploding (13x) what was on the internet in 2001*
- *8x more in 2018 data will be needed by consumers*
- *PS will have the network, the priority and the switch to lease space to the commercial sector*
- *The pitch: Let us on your towers and you can use our spectrum. Trade out towers for access. This will be a negotiated horse-trading network.*

Orlando 4.1.2014

Session 3

- *Is this an assured thing? No way! Consider though, the FN Board has extensive experien*
- ***FN owns the technology and the switch and the decision to throw it***
-

<u>Data Sharing</u>

- *The orientation slide deck materials were presented*

<u>How to Participate</u>

- *The orientation slide deck materials were presented*

<u>Other Q&A From the Session</u>

Orlando 4.1.2014

Session 4

Participants

Name	Title	Organization	Phone	Email
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Rich Steiner				
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Austin Blake		City of Kissimmee Police		
Jasonn Biggers		Hillsborough County		
Susan Nelson		Cassidian Communications		
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Scott Coker		UF & Shands		cokers@shands.ufl.edu

Susan Nelson

<u>FloridaNet</u>

- *The orientation slide deck materials were presented*
- *County/region/state involvement is crucial*

Orlando 4.1.2014

Session 4

- *Public and private coverage maps will be shared. We will be able to aggregate these with GIS. No need to have exact agreement between city/county/state…we just need to get it all in.*
- *60-80 ft buildings will be great assets*
- *We want to complete a coverage may by 1Q 2015*
- *Will carriers willingly provide their search rings and coverage maps? (yes)*
- ***Will this be a complete stand-alone system….or will we have to rely on the Verizons of the world?***
- *This will be a complete stand alone high speed data network for public safet*

<u>FirstNet</u>

- *The orientation slide deck materials were presented*

IS LTE 700 MHz?

LTE can operate in multiple frequencies FN will be 700 MHz. Verizon's are right below this.

Will FN be a Multi-carrier, or single carrier system. Has this been determined?

There will be one carier and it will be FN. FN will need to artner with multiple partners to gain access to towers. FN will have access and priority to the network. They will have partnering and access agreements with a wide variety of providers to rovide service. This will be multi-carrier on FN's spectrum license.

Will capacity be shared with outside public users?

Yes

Is the $7bil tangible?

$2 bil of this has been allocated. The remaining $5 bil will come from the lease of the spectrum

Vendor's and carrier's sites will follow critical infrastructure guidelines?

Orlando 4.1.2014

Session 4

Our guess is some hardening will be required. Will ALL sites have to be hardened to the maximum extent? NIPP hardening standards? Or Something else? Our best guess is that some baseline capabilities will have to be hardened to withstand maximum impact. Unlikely it will be everything.

Bluetooth direct exists now to do point to point VOIP

Problem right now is a 30 ft range! Other limitation is BT can't do many to many

Could there be a point in time when FN offered mission critical voice?

Maybe. All speculative now, but it seems likely this could be possible. 8-10 yrs out

What's the dollar value of the spectrum valuation? I've heard $26 billion

Maybe the hardest question we've heard so far….this is really "beachfront property"

Because each LTE tower is broadcasting every channel, local control can be determined on much more of a site by site basis.

Data Sharing

- *The orientation slide deck materials were presented*

How to Participate

- *The orientation slide deck materials were presented*

Other Q&A From the Session

MEETING SIGN-IN SHEET

Project:	FloridaNet Listening Sessions	**Meeting Date:**	April 1st, 2014 - Afternoon
Facilitator:		**Place/Room:**	Orlando 4

Name	Title	Company	Phone	Fax	E-Mail
Jason Biggers		Hillsborough County			
Austin Blake		City of Kissimmee Police			
David Charles		US Marshals Office			
Scott Coker		ShandsCair Flight Program			
Rodney Crane		Orange County Information			
Eric Ferrari		Reedy Creek			
Zach Hale		ShandCair Flight Program			
Mike Hammer		USMS			
Todd Hockert		Nature Coast EMS			
Bo Jones		Reedy Creek			
Anthony Merola		UCF PD			
Donald Nagle		LR Kimball Consulting			
Susan Nelson		Cassidian Communications			
Miguel A Pagan		Port Canaveral Police Department			
Jim Roberts		Florida Division of Emergency Mgmt			
Warren Shepard		Kissimmee Police Department			
Shawn Treloar		Sanford Fire Department			
JOE SILVESTRI		CLERMONT FD			JSILVESTRI@CLERMONTFL.

FN CAN 2MORROW

MEETING SIGN-IN SHEET

Project:	FloridaNet Listening Sessions	**Meeting Date:**	April 1st, 2014 - Morning
Facilitator:		**Place/Room:**	Orlando 3

Name	Title	Company	Phone	Fax	E-Mail
Jason Biggers JB		Hillsborough County			
David Charles		US Marshals Service			
Mike Hammer		USMS			
Alan Harris		Seminole County			
Stephen (Skip) Kerkof		Mount Dora Fire Rescue Department			
Andy Lang		Osceola County Sheriff's Office			
Priscilla Mallory	PAM	Orlando Fire Deparment			
Anthony Merola		UCF PD			
Marcus Messura		Motorola			
Donald Nagle		LR Kimball Consulting			
Poe Norm		City of Orlando			
Tommy Oliveras		Seminole County Dept Public Safety			
Ryan Potts		Osceola County Sheriff's Office			
Tom Rossi JR	COMM	Bombardier/sunrail			
Debra Weber DBW		Orlando Fire Department			
Todd Jordan		Orlando Fire Dept.			
LELAND GREEK	FIRE CHIEF	SUMTER COUNTY FIRE & EMS			Leland.Greek@SumterCountyFL.gov
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Chris King	Sergeant	Jacksonville Sheriff's office	904-630-3645		Christopher.King@JAXsheriff.org

ORLANDO 3

Name	Title	Company	Phone	Fax	E-Mail
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MEETING SIGN-IN SHEET

Project:	FloridaNet Listening Sessions	**Meeting Date:**	March 31st, 2014 - Afternoon
Facilitator:		**Place/Room:**	Orlando #2

Name	Title	Company	Phone	Fax	E-Mail
Bruce Bonner		Osceola County BOCC			
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David Charles		US Marshals Service			
Bill Clausen		Volusia County I.T.			
Paul Cook		Greater Orlando Aviation Authority			
Joshua Cordero		Highlands County Sheriff's Office			
Rodney Crane		Orange County Info Systems			
Thomas Crosskey		Orange Co Fire Rescue			
Hope Cunningham		Brevard County S.O.			
Richard Dishneau		University of Central Florida			
Robert Durant		Seminole County			
Steve Earls		Lake County BCC			
Christopher Evan		Citrus County Sheriff's Office EM			
Suzanne Garfinkel		Lake Mary Police Department			
Raymond W Gray		Seminole Co EOC ESF-6 Red Cross			
Mike Hammer		USMS			
Greg Holcomb		Lake County Public Safety			
Justin Hopman		Brevard County Emergency Mgmt			
Jerome Kenon		Orlando Police Dept			

ORLANDO SESSION 2

Name	Title	Company	Phone	Fax	E-Mail
Nicole Lloyd	NL	University of Central Florida			
Glenn Lopez		Volusia County S.O.			
Anthony Merola		UCF PD			
Marcus Messura		Motorola			
Lisa Morgan		Brevard County Emergency Mgmt			
Christi Mullis	CM	Osceola County Sheriff's Office			
Terry Myers		Brevard County S.O.			
Donald Nagle		LR Kimball Consulting			
Poe Norm	NP	City of Orlando			
Tommy Oliveras		Seminole County Dept Public Safety			
Andrew O'Mara		University of Central Florida			
Kimberly Prosser	KP	Brevard Emergency Management			
Maria Resto		Indian River County Emergency Services			
Lizette Resto		Osceola County SO			
Bryan Rintoul	BR	Orange County SO			
Lizzet Ruiz	LR	Brevard County EM			
Trent Skille		County of Volusia			
Debbie Smith		Volusia County S.O.			
Richard Steiner	Supervisor	Orange County Government	407 836 2810		
Steven Strickland		Clermont Police Dept			
Robert Urie		Brevard County S.O.			
Kimberly Westberry		Volusia County I.T.			

ORLANDO SESSION 2

Name	Title	Company	Phone	Fax	E-Mail
Shannon Wilson		Brevard Co Board of Co Commissioners			
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R1					
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ORLANDO SESSION 2

Name	Title	Company	Phone	Fax	E-Mail
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~~Wayne Kreher~~	~~PM~~	~~Carrier~~	~~407-500-4192~~		~~wayne.kreher@carrier.utc.com~~

MEETING SIGN-IN SHEET

Project:	FloridaNet Listening Sessions	**Meeting Date:**	March 31st, 2014 - Morning
Facilitator:		**Place/Room:**	Orlando (S1)

Name	Title	Company	Phone	Fax	E-Mail
Tommy Barnes	Fire	Sanford Airport Fire Department			
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Donald Nagle		LR Kimball Consulting			
Poe Norm	RADIO System ADMINIST	City of Orlando			
Stephen O'Conor		Synergem Technologies			
Tommy Oliveras		Seminole Co Dept of Public Safety			
Andrew O'Mara	@	University of Central Florida			

ORLANDO S1

Name	Title	Company	Phone	Fax	E-Mail
William Penland		Sanford Airport Fire Department			
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Lizette Resto		Osceola County SO			
Robert Rowe		FWCC			
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Shawn Collins		FDEM.	850 519.6734		SHAWN.COLLINS@EM.MYFLORIDA.com
Andy Lang	Captain	Osceola County S.O.	407-348-1136		alang@osceola.org
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Ronda Jones	Comm Manager	WPPD	407-599-3460		RJones@City of Winterpark.org

Exhibit 50

National Public Safety Broadband Network (FirstNet)

October 2013

Introduction to FirstNet

- The first high-speed wireless, broadband network dedicated to public safety
- Ensures seamless communication for public safety use
- Dedicated network was a recommendation of the 9/11 Commission
- U.S. Dept. of Commerce is lead federal agency
- Congress has allocated $7 Billion for the build-out
- 15 member FirstNet Board created to run process within Dept. of Commerce.
- Florida has been awarded $4.9 Million through a State and Local Implementation Grant. Grants are to assist states with planning efforts.

What Will Be Possible with FirstNet?

- FirstNet will be used to send data, video, images and texts as well as make voice calls.
- FirstNet will <u>not</u> replace Florida's Land Mobile Radio System (SLERS).
- Users will get fast access to information they need to meet their mission.
- Unlike commercial wireless networks, FirstNet will allow for priority access among public safety users.

Key Understandings

VISION & GUIDING PRINCIPLES

FirstNet will provide dedicated spectrum, a single technology and funding to create a nationwide network dedicated to public safety.

Public Safety Effectiveness

- Dynamic Priority Access
- Force Multiplier

Public Safety Grade

- Reliable
- Hardened
- Redundant
- Security

Public Safety Applications

- 4G data for video and web
- Non mission-critical voice

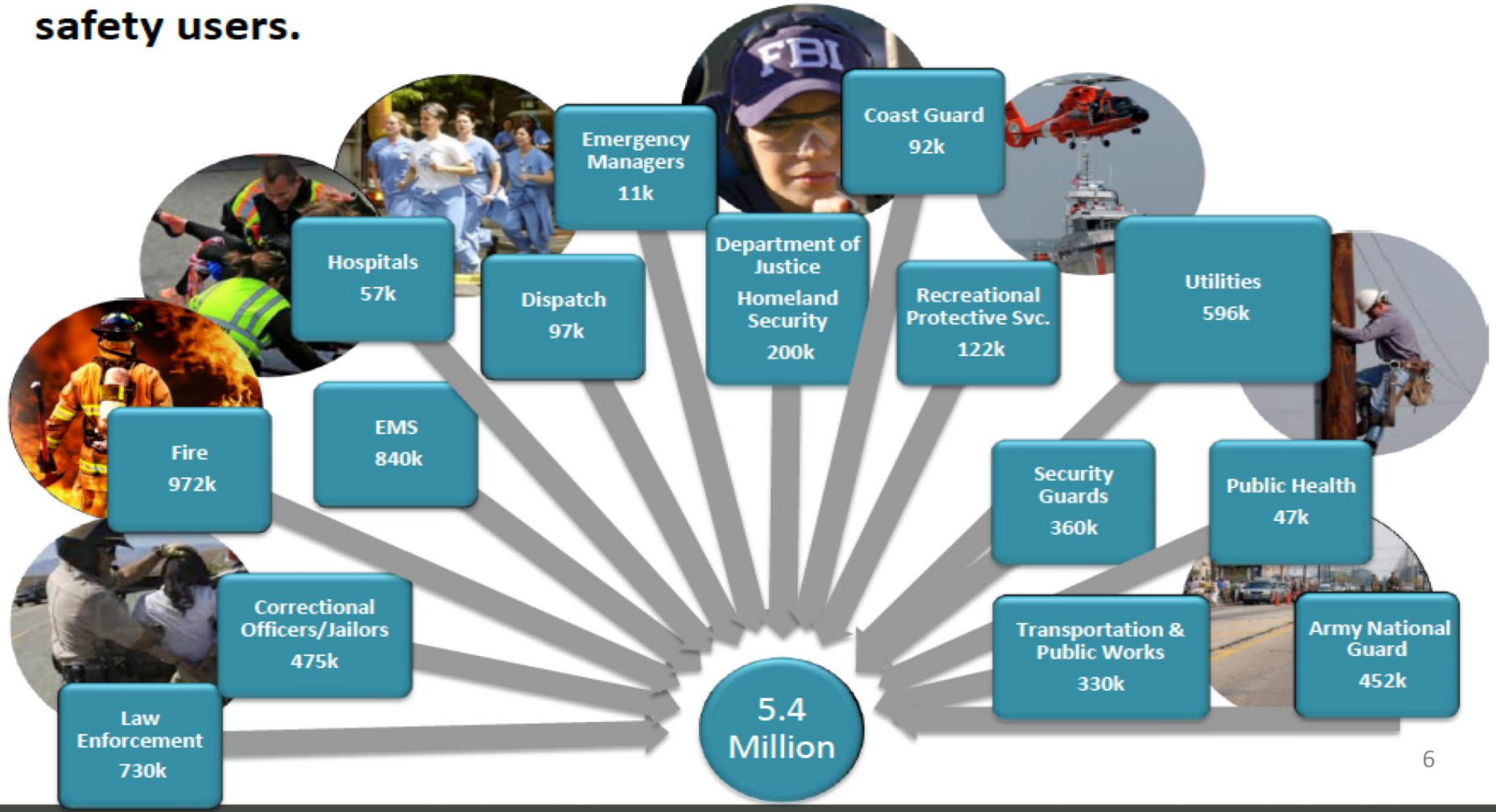
Key Understandings

- Given the spectrum's value, excess capacity will be leased to the commercial sector to underwrite the public safety build-out.
- This will facilitate FirstNet partnering with the private sector but does not require piggy-backing on the private sector network.
- FirstNet will be a dedicated service. Priority and management will be given to and driven by public safety (local control).

Key Understandings

VISION & GUIDING PRINCIPLES

FirstNet has the potential to support a broadly defined set of public safety users.



How Will FirstNet Work?

How will states and agencies participate in the build out of FirstNet?

- ✓ To make FirstNet a nationwide network, all states must have a local radio access network (RAN) that connects to the FirstNet core.
- ✓ The FirstNet core is a common data sharing architecture.
- ✓ FirstNet is responsible for working through the designated state point of contact to consult with states, local communities, tribal governments and first responders to gather requirements for developing its RAN deployment plan.

What will users pay for FirstNet services?

- ✓ FirstNet intends to offer services at a compelling and competitive cost to attract millions of public safety users and make FirstNet self-sustaining.
- ✓ The use of FirstNet services and applications will be voluntary.
- ✓ <u>The costs for FirstNet services and devices have not yet been set.</u>

The Process for Working with FirstNet

State Visits

- FirstNet will work through the designated state point of contact to arrange a visit, agree on the agenda and identify participants.
- Timing will depend on state readiness, the State and Local Implementation Grant Program (SLIGP) Phase 1 award and how quickly FirstNet can staff up its outreach team.
- This meeting will pave the way for ongoing collaboration that will culminate in the development of a plan from FirstNet for constructing state RAN.

Tribal Outreach

- FirstNet plans to create an education and outreach program to engage tribal members in discussions about the network and their public safety needs.
- FirstNet will encourage state governors to include tribal nations in the local FirstNet consultation process.

State Decision Process

State Decision Process

FirstNet will collaborate with states to develop and deliver a RAN plan that meets their needs.

Consultation
- Regional Workshops
- State Visits
- Ongoing Dialogue

RFP Process

FirstNet Presents Plan to Governor

State Decision 2 Options

90 days to decide and notify FirstNet, NTIA and the FCC

Opt Out

State seeks approval to construct its own RAN

State Requirements:
- Notify FirstNet, NTIA and the FCC of intention to build within 90 days of receiving FirstNet Plan
- Submit alternate plan to FCC and gain FCC approval
- Complete an RFP
- May apply for grant funding from NTIA
- Must apply to NTIA to lease FirstNet spectrum

Accept FirstNet Plan

FirstNet builds the RAN. FirstNet intends to cover the cost to construct, operate, maintain and improve the RAN.

State Decision Process – Funding the Build-Out

OPT-IN

- State accept FirstNet Plan;
  - ✓ FirstNet builds the RAN.
  - ✓ FirstNet intends to cover the cost to construct, operate, and maintain and improve the RAN.

OPT-OUT

- If the state's plan is approved by the FCC, the state may apply for grant funding from NTIA.
- To obtain federal funding to construct a RAN, a state must:
  - ✓ Demonstrate the technical capability to operate and fund the RAN;
  - ✓ Maintain ongoing interoperability with the FirstNet network;
  - ✓ Complete the project within specified comparable timelines;
  - ✓ Execute its plan cost effectively; and
  - ✓ Deliver security, coverage and quality of service comparable to the FirstNet network

FloridaNet Governance

Purpose:

- The FirstNet grant process requires a representative governance body
- Florida expects broad participation to develop a superior product

Provide full participation by a diverse range of stakeholders

Achieve balance between broad participation and agility

Provide appropriate forums for relevant issues

FloridaNet Advisory Board

FloridaNet Advisory Board

- Consensus body for major Planning Decisions

Executive Committee

- **Chair: Julie Jones**
- Critical and timely decision-making
- Representatives from each Committee and major stakeholders

Finance Committee

- **Chair: David Nye**
- Develop Business Plans to formulate Opt-in/Opt-out Strategies
- Establish grant and contract guidelines, complete grant applications, and support ongoing grant contract management
- Develop financial components to support proposed Model

Technical Committee

- **Chair: Holcomb**
- Evaluate technical specifications and needs
- Provide subject-matter expertise
- Establish sub-committees, as needed, to develop detailed assessments
- Integral to leveraging Public-Private Committee recommendations

Public-Private Committee

- **Co-Chair: Sole/Denney**
- Assess partnership opportunities
- Determine partnership models and make recommendations
- Align Public-Private cooperation
- Develop plans and actions that leverage existing infrastructure investments

Deliberative Review

40+ representative organizations

Expert organizational reps for Committees & Sub-committees

FloridaNet
Executive Committee Members

- Governor's Office – Jason Allison, CIO
- Homeland Security Advisor – Mark Perez (FDLE)
- Police Chiefs Association– Amy Mercer, Executive Director
- Tribal Representative – Bobby Brown (Seminole Tribe of Florida)
- Sheriffs Association – Steve Casey, Executive Director
- DMS – Stacy Arias
- DEM – Bill Stoye
- Department of Health – Mike McHargue
- Technical Committee Chair – Greg Holcomb (Lake County SO)
- Finance Committee Chair – Dr. David Nye (UF)
- Department of Economic Opportunity – Sherri Martin
- Public-Private Sector Co-Chair – Mike Sole, FP&L
- Public-Private Sector Co-Chair – Colin Denney, Verizon
- Fire Chiefs – Being recruited

Status

- $4.9M awarded September 1, 2013
- Team working on grant implementation
  - ✓Working groups forming for action
  - ✓3-year budget being created
  - ✓Work plan for achieving the 7 grant goals nearly complete

FloridaNet Today

- Deliverables in Phase I
  1. Establish governance structure for Florida efforts
  2. Develop procedures to engage local and tribal governments
  3. Create education and outreach process
  4. Identify potential FirstNet users and coverage issues
  5. Develop MOA to work with locals, tribes and private sector (and identify barriers)
- Additional deliverables in Phase II
  6. Develop staffing plan for State and Local Implementation Grant Program (SLIGP) effort
  7. Enhance Statewide Communications Interoperability Plan (SCIP) to address broadband

Next Steps

- FirstNet will provide additional guidance (e.g. Business Plan, MOA's)
- FirstNet Team will meet with FloridaNet Executive Board in Tallahassee in coming months
- FloridaNet will proceed with coverage workshops and state-wide meetings with local first responder network
- Florida is the only State including private sector partners in the discussions