



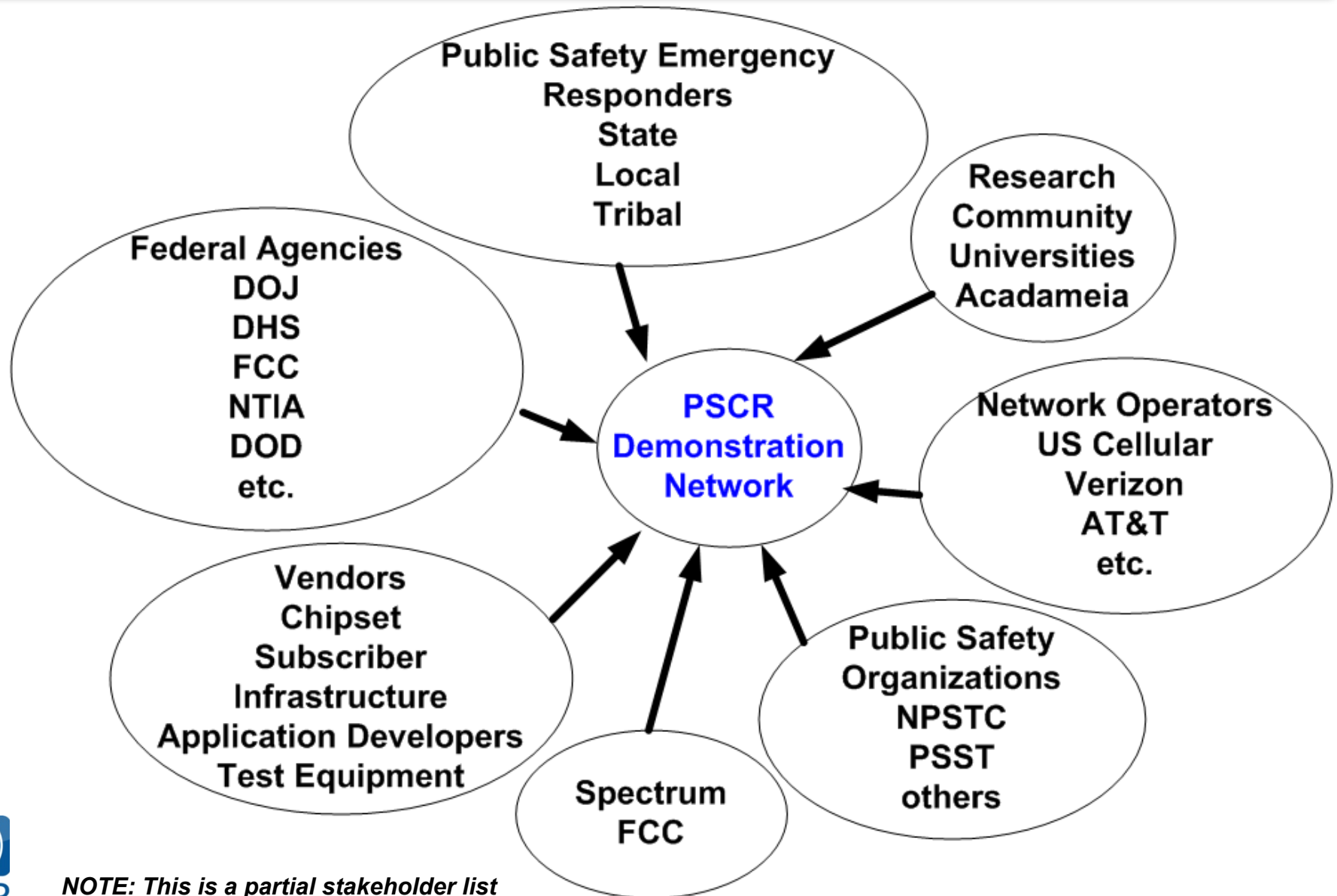
Public Safety Communications Research
(PSCR)

Department of Commerce – Boulder Labs

Why Are You Here?

- Told by boss to come... or else
- Con-(vinced) by Emil to attend
 - Thought this was the seminar for the timeshare condo and free ski vacation
- Want to participate in the PSCR 700 MHz Broadband Demonstration Network

Who's Here - Stakeholders



NOTE: This is a partial stakeholder list

PSCR Team

- **Overall Lead** – Emil Olbrich
- **Management** – Dereck Orr, Jeff Bratcher
- **Test & Evaluation** – Kameron Behnam, Chris Behm, Rob Stafford, John Ewan
- **Standards Development** – Andy Thiessen
- **Network Planning** – Jeff Bratcher
- **Support Staff** – Alan Pentz, Ron Prater, Corey Reynolds
- **OCTO** – Ken Boley, Bob Pavlak, Chris San Gaspar

Why is this necessary?

- Public Safety has been licensed to use this spectrum but there are currently no government or independent laboratory facilities in the United States to test and demonstrate the public safety specific LTE implementation requirements
 - PSCR is creating this network to provide manufacturers with a site for early deployment of their systems, an opportunity to evaluate them in a multi-vendor environment, and create integration opportunities for commercial service providers.

PSCR Demo Network Project Plan

- **Obtain, Procure and generate interest from broadband vendors to develop a 700 MHz broadband equipment ecosystem - including Band Class 14 (D Block & Public Safety Block), Long Term Evolution (LTE)**
 - Stimulate early development for public safety systems
 - Support the commercial 3GPP standards process with public safety requirements
- **Demonstrate broadband air-interface and core network capabilities**
 - Proof of concept, Improve quality for future systems, Create new technology and requirement benchmarks
 - Evaluate broadcast capabilities for wide area, simultaneous data delivery
- **Interoperability with existing cellular, broadband and LMR technology**
 - Roaming functionality with LTE and non-LTE systems
 - How QoS, billing, priority, pre-emption and applications work when roaming
- **Validation of key public safety functionalities and requirements**

What Is the Demonstration Network?

- What it is:
 - Allows us to see in practice how features of the national broadband network would work--before it is constructed
 - A tool to help in creating templates for an RFI or responding to an RFI
 - A marketing tool for Industry
 - Exposes public safety to new industry partners
 - Up to you...
- What it isn't:
 - A comparison of Vendor A to Vendor B
 - A live system with live users

Logistics

- Main meetings to take place in the auditorium
- Track 1 and Track 2 meetings take place in the rooms directly behind the auditorium
 - Track 1 meetings are intended for public safety users, organizations and non-vendors
 - Track 2 meetings are intended for vendors and technical contributors
- Track 1 and 2 meetings are open to all attendees

Lunch and Breaks

- Meeting Agenda is tight and we would prefer to try to keep everyone on campus for lunch and breaks.
 - Lunch will be catered both days in the NIST Café down the stairs behind the auditorium
 - Refreshments during breaks will be offered in the lobby
- PSCR cannot pay for your lunch and we ask that for both days a \$24 fee be paid to the NIST Café - *If you participate in the lunch and break*

Meeting Flow

- Meetings will be led by someone on the PSCR team and there will be moderators in the meetings to keep on task.
- Meeting actions and notes will be taken by PSCR team. Intend to distribute or post them on PSCR portal and/or website.
- Conference call setup for meeting participants – please use the mic to ensure everyone online can hear you.
 - When talking please introduce yourself - name and the organization your representing.

Agenda – Day 1

Conference Bridge # / PIN

Day 1 Tuesday, April 20	9:00 AM	9:30 AM	Registration & Check-In		
			<i>Lobby</i>		
	9:30 AM	9:45 AM	Opening Remarks		
			<i>Auditorium</i>	<i>1-866-654-0742 / 9864043</i>	
	9:45 AM	10:00 AM	Overview of PSCR		
			<i>Auditorium</i>	<i>1-866-654-0742 / 9864043</i>	
	10:00 AM	10:30 AM	Project Agenda, Overview, & Meeting Logistics		
			<i>Auditorium</i>	<i>1-866-654-0742 / 9864043</i>	
	10:30 AM	10:45 AM	Break		
	10:45 AM	11:30 AM	Track 1 Project Expectations & Issues – Public Safety Perspective	Track 2 Project Expectations & Issues – Industry Perspective	
			<i>Room 1103/1105</i>	<i>1-877-491-0547 / 1373200</i>	<i>Room 1107</i>
	11:30 AM	12:00 PM	Project Expectations & Issues – Discussion		
			<i>Auditorium</i>	<i>1-866-654-0742 / 9864043</i>	
	12:00 PM	1:00 PM	Lunch		
1:00 PM	1:15 PM	Test Plan Overview – BBTF Recommendations & Demonstration Versus Evaluation Tests			
		<i>Auditorium</i>	<i>1-866-654-0742 / 9864043</i>		
1:15 PM	3:00 PM	Demonstration Tests			
		<i>Auditorium</i>	<i>1-866-654-0742 / 9864043</i>		
3:00 PM	3:15 PM	Break			
3:15 PM	5:00 PM	Track 1 Public Safety Voice & Security Requirements	Track 2 Technology Evaluation Tests		
		<i>Room 1103/1105</i>	<i>1-877-491-0547 / 1373200</i>	<i>Room 1107</i>	<i>1-888-834-9071 / 3867142</i>

Agenda – Day 2

Day 2 Wednesday, April 21	8:45 AM	9:00 AM	Registration & Check-In	
			<i>Lobby</i>	
	9:00 AM	9:15 AM	Welcome & Recap Day 1	
			<i>Auditorium</i>	<i>1-866-654-0742 / 9864043</i>
	9:15 AM	9:45 AM	Network Planning & Design Overview – Boulder & Washington DC	
			<i>Auditorium</i>	<i>1-866-654-0742 / 9864043</i>
	9:45 AM	10:45 AM	Track 1 Public Safety Requirements	Track 2 Network Architecture, Link Budget, & Roaming
			<i>Room 1103/1105</i> <i>1-877-491-0547 / 1373200</i>	<i>Room 1107</i> <i>1-888-834-9071 / 3867142</i>
	10:45 AM	11:00 AM	Break	
	11:00 AM	12:00 PM	Track 1 Public Safety Roaming, Priority, & Pre-emption Requirements	Track 2 Priority, Pre-emption, & QoS
			<i>Room 1103/1105</i> <i>1-877-491-0547 / 1373200</i>	<i>Room 1107</i> <i>1-888-834-9071 / 3867142</i>
	12:00 PM	1:00 PM	Lunch	
	1:00 PM	2:00 PM	Track 1 Standards Work Overview & SDO Participation (ATIS & 3GPP)	Track 2 Device Requirements & BC14 Requirements
		<i>Room 1103/1105</i> <i>1-877-491-0547 / 1373200</i>	<i>Room 1107</i> <i>1-888-834-9071 / 3867142</i>	
2:00 PM	2:45 PM	Track 1 Cooperative Research and Development Agreement (CRADA) Overview	Track 2 PSCR Lab Tour	
		<i>Auditorium</i> <i>1-866-654-0742 / 9864043</i>	<i>Lobby</i>	
2:45 PM	3:00 PM	Break		
3:00 PM	4:00 PM	Schedule – Equipment Deliveries, Working Groups, Demo Days		
		<i>Auditorium</i>	<i>1-866-654-0742 / 9864043</i>	
4:00 PM	4:30 PM	Closing Remarks		
		<i>Auditorium</i>	<i>1-866-654-0742 / 9864043</i>	

Meeting Outcomes

- This is an informational gathering for PSCR on how to structure the overall network
 - PSCR has final say on network structure – meetings and resolution are not consensus based
- Working groups will be created as necessary to carry on the actions identified

Questions?