


700 MHZ – WHAT IT MEANS TO YOUR ORGANIZATION: DO YOU REALLY WANT TO SIGN THAT LONG-TERM WIRELESS CONTRACT?

PRESENTATION AT THE CACP INFORMATICS CONFERENCE
FEBRUARY 24, 2012




Presented by...

Members of the Tri-Services Special Purpose Committee on 700 MHz Broadband for Mission Critical Public Safety Data (struck Dec. 2010)

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INTRODUCTION

The Basics...

- 700 MHz spectrum available now that analog broadcast (over-the-air) television services across Canada switched to the new digital broadcast standard in August 2011
- 700MHz spectrum is the “sweet spot” — radio waves can travel extended distances and penetrate buildings and other obstacles
- This is about wireless broadband, NOT land mobile radio
- Many entities are vying for this very valuable natural resource
- Public safety agencies in Canada are united in their call for a designation of 20 MHz of 700 MHz spectrum dedicated to public safety
- Public safety’s voice must be heard — responders need the right tools to protect and save lives!




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INTRODUCTION

Potential Uses...

- Law enforcement will access data and video networks (i.e., streaming video, surveillance networks, criminal records, automated license plate recognition, etc.) to prevent and respond to criminal activities
- Fire services will access to building blue prints, health-monitoring sensors and GPS tracking systems in order to save lives
- Emergency medical services will access telemedicine, high-resolution video and patient records to reduce the time it takes to deliver medical services at the scene of an incident such as a car crash on a highway



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INTRODUCTION

Breaking News...

On February 17, 2012, US Congress agreed to allocate the D Block to public safety and support the development of a mission-critical, nationwide public safety broadband network





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YOU SHOULD KNOW

In Canada — Work done to date...

- Delivered the written response for the IC consultation -- broad-based public safety response
- Monitored and advised on the issue, inform stakeholders and identify responder spectrum needs and potential opportunities
- Engaged with industry, public safety providers and different levels of government to put forward a position that makes sense for Canadian public safety and Canadians in general
- Worked with CSS and PS to produce report entitled 700MHz Spectrum Requirements for Canadian Public Safety Interoperable Mobile Broadband Data Communications
- Conducted in partnership with CATA a report entitled Answering the Call: Survey report of Canadian Stakeholders
- Many presentations and awareness raising



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YEAR IN REVIEW

Recent Workshop...

- February 6 to 9, 2012 in Montreal
- Participants: F/T/P, FCM, Emergency Responder Associations, RCMP, CITIG, with advisory participation by industry, Industry Canada and subject matter experts
- Goal: reach consensus on and develop a governance model and charter for the national public safety broadband licensee and define oversight mechanism to ensure network interoperability

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Participants Agreed...

- Historic opportunity to improve the safety and security of Canada
- Aligns with CISC and stakeholder priorities
- Spectrum designated to public safety is the only viable option for a national interoperable public safety broadband network
- Commercial carriers will be integral partners in building reliable, robust, functional and resilient networks for public safety
- In the near term, wireless broadband will complement land mobile radio (LMR), not replace it (in the distant future, broadband may support mission-critical voice when technical requirements are met)

An investment in the safety and security of Canadians!

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Public Safety Wireless Broadband Network

- End-goal is a public safety interoperable mobile broadband meets the following conditions:
 - Nation-wide interoperability
 - CAN-US public safety interoperability
 - Interoperable with commercial networks, when necessary
 - Supports applications designed to meet first responders' requirements
 - Public safety requirements for:
 - Coverage, availability and restoration of broadband service
 - Network resiliency and reliability
 - Security and admission control
 - Priority, quality of service and congestion management
 - Sustainability and network management

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Governance Model

- Respects jurisdictional responsibilities
- Provides the legal requirements required by Industry Canada to hold a primary and subordinate licenses
- Establishes national standards for an interoperable public safety broadband network
- National Entity representative of F/P/T, municipal and first responder interests
- Regional Service Delivery Entities used to deliver services regionally to end users

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A Unique Canadian Network

The map shows Canada divided into 13 regions, each with a black dot representing a Regional Entity. A larger dot in the center represents the National Entity. The regions are: Yukon, Northwest Territories, Nunavut, British Columbia, Alberta, Saskatchewan, Manitoba, Ontario, Quebec, New Brunswick, Nova Scotia, and Prince Edward Island.

- Federally incorporated Not-for-Profit Corporation
- Mission: To develop and operate a national interoperable public safety wireless broadband network
- Purpose: Specific Stewardship: Development and operation of the Core, Standards, Interoperability
- Membership: Voting Members with legal, financial, operational and/or technical interest
- Board of Directors: Represents a diverse spectrum and does not to oversee the activities of the Corporation in accordance with its purpose
- Executive Director: Appointed by the Board of Directors to lead and manage the day-to-day operations

Regional Entities (Subsidiary Licence)

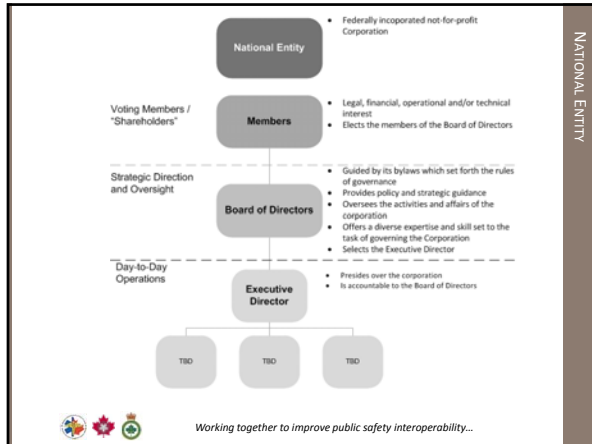
- Structure of each of the 13 regional entities will vary between jurisdictions to reflect regional diversity
- May leverage existing structures

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The National Entity

- Federally incorporated not-for-profit organization created to apply for, acquire and hold a licence(s) for allocated 700 MHz band
- Provide stewardship over the public safety broadband spectrum
- Establish national standards for an interoperable public safety broadband network
- Enter into agreements for the construction, maintenance, and operation of the national core components of the network
- Administer roaming agreements with commercial/public safety owners/operators of 700 MHz broadband services and infrastructure
- Administer a cost allocation and recovery model for services

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NATIONAL ENTITY

Regional Service Delivery Entities

- Potential for varied service areas (municipal, regional, provincial, etc.) — flexible models to meet specific jurisdictional needs
- Hold subordinate licence to establish and operate a public safety broadband network in its respective region
- Adhere to national standards for an interoperable public safety broadband network

Logos and slogan at the bottom.

WORKSHOP

Business Model Assumptions

- National & Regional PS Entities will likely be registered as not-for-profit corporations
- Start up funding likely necessary for initial 5 year period with potential contribution from various sources (including private Industry)
- Least cost solution – likely a service agreement with existing network operators rather than separate PS network build
- Annual contributions by users on cost recovery basis i.e. annual adjustments +/-
- Cost elements: operating costs of regional / national entities and provision for contingencies and capital replacement

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WORKSHOP

Next Steps for Governance Model

- Stakeholder review and comments
- SOREM endorsement by March 31, 2012
- Finalize proposal for next round of IC consultations (governance and business model, charter of incorporation)
- Continue work for IC consultation; establish four 700 MHz PMT Work Groups :
 - Governance structure
 - Legal framework
 - Funding model
 - Technical requirements

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WAY FORWARD

What It Means to Your Organization: Do You Really Want to Sign That Long-Term Wireless Contract?

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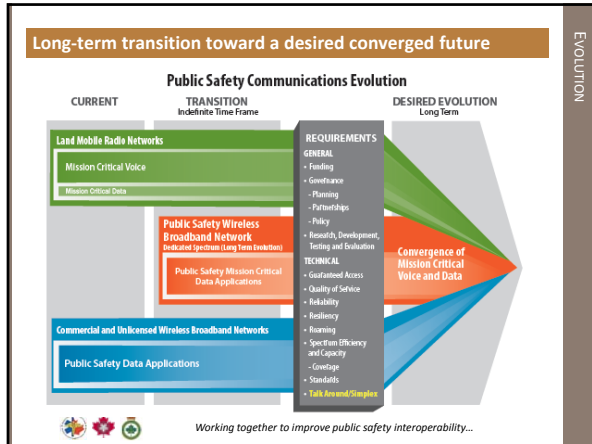
SO...

Resources

- Review this publication from DHS
- Some copies available here, but also available for download from www.citig.ca

Logos and slogan at the bottom.

RESOURCES



Use CITIG as your Resource!

- Your source for Interoperability information!
- Now led by first responder associations

- Meant to accelerate public safety agency interoperability
- A vehicle for the exchange of information and ideas
- Ultimate goal to improve the ability of public safety providers to do their job

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Don't forget...

Sixth Canadian Public Safety Workshop

Toronto Dec 2nd to 5th

Details available soon at www.cacp.ca and www.citig.ca

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Questions...

- Why should I care?
- What does this mean for the future of my Land Mobile Radio system?
- What's in this for small to medium size communities?
- What do I need to do in order to prepare for this new capability?
- How am I going to pay for this "new" technology when I can't afford to upgrade my old equipment?

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www.action700.ca

- Web site created by the Associations to provide a focal point for communications efforts:

www.action700.ca

(download basic information, including sample support letter, media release, presentations and sign up for e-mail updates)

- Inquiries — send e-mail to:

action700broadband@gmail.com

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Discussion

Questions?

www.action700.ca