



Public Safety Spectrum Trust

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Chairman Public Safety Spectrum Trust



Chairman

Communications & Technology Committee
International Association of Chiefs of Police

**National Public Safety
Telecommunications Council**

NPSTC

Key Bridge Marriott, Arlington, Virginia
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Public Safety Spectrum Trust

06/06/07 - the Public Safety Spectrum Trust (PSST) was created in the District of Columbia as a not-for-profit Corporation

Formed by the Association of Public-Safety Communications Officials-International (APCO), the International Association of Chiefs of Police (IACP), and the International Association of Fire Chiefs (IAFC) and the International Municipal Signal Association (IMSA)

The Public Safety Spectrum Trust (PSST) is governed by a voting board of fifteen members - one representative from each of the following organizations:

1. AASHTO - American Association of State Highway Transportation Officials
2. AHA – American Hospital Association
3. APCO - Association of Public-Safety Communications Officials-International
4. FCCA - Forestry Conservation Communications Association
5. IACP - International Association of Chiefs of Police
6. IAFC - International Association of Fire Chiefs
7. ICMA - International City/County Managers Association
8. IMSA - International Municipal Signal Association
9. NASEMSO - National Assn of State Emergency Medical Services Officials
10. NASNA – National Assn of State 9-1-1 Administrators
11. NEMA – National Emergency Management Association
12. NENA - National Emergency Number Association
13. NFOP – National Fraternal Order of Police
14. NGA - National Governors Association
15. NSA - National Sheriffs' Association

FCC Second Report & Order – 07/31/07

Creates a Public/Private Partnership for a Shared Wireless Broadband Network (SWBN)

Issues a single nationwide broadband license to a Public Safety Broadband Licensee (PSBL)

- Assigns significant responsibilities to the PSBL

 - PSBL must negotiate a Network Sharing Agreement

 - PSBL must oversee the Narrowband Relocation

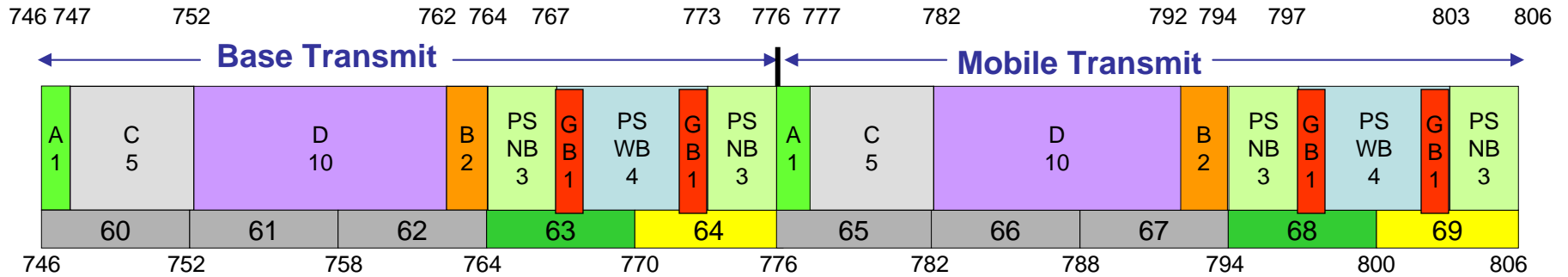
 - PSBL must represent entire Public Safety community

Combined spectrum assets of the PSBL and D Block Licensee(s) are the basis for the shared network

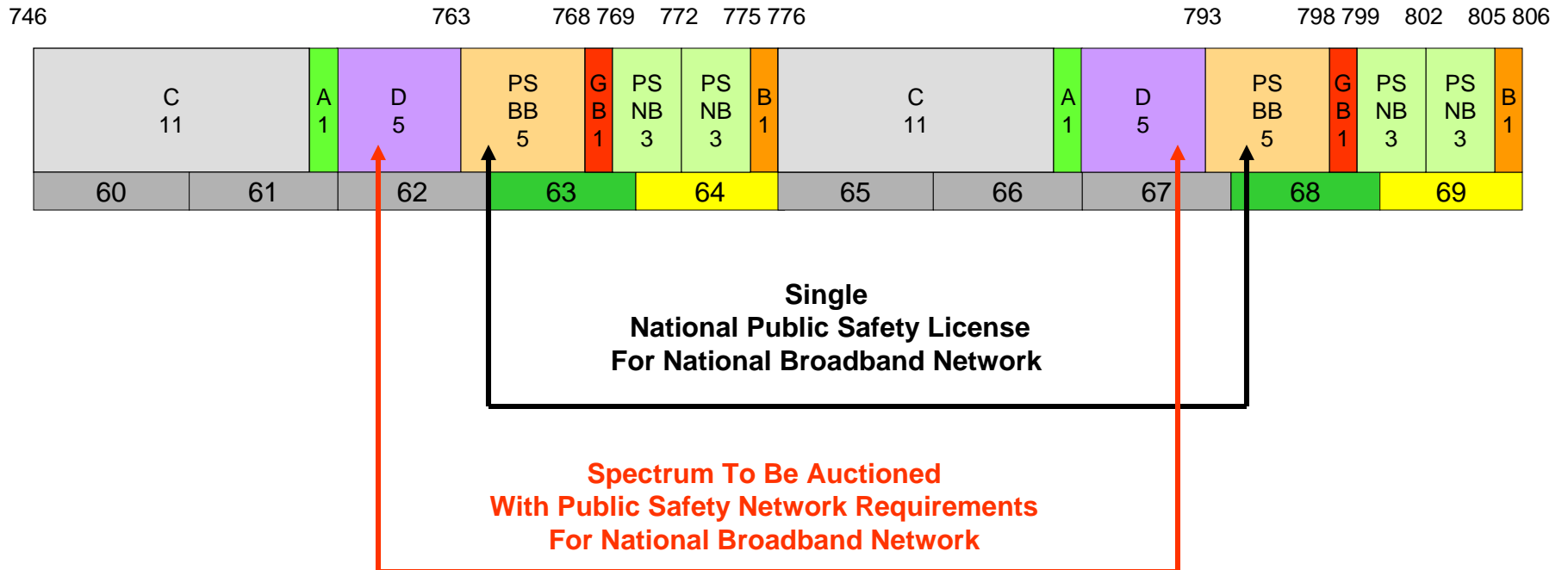
Gives public safety access to 10 MHz of contiguous commercial spectrum (D Block)

The D Block licensee must build the network to public safety specifications

Previous Band Plan - Upper 700 MHz



New Band Plan - Adopted by FCC on July 31, 2007



Proposed SWBN Network Requirements

Sufficiently robust to meet reliability and performance requirements of Public Safety

Hardening of transmission facilities

Antenna towers and cell sites built to withstand harsh weather and disaster conditions such as flooding, wildfires, hurricane force winds, earthquakes

Backup power sufficient to maintain operations for extended periods of time

Enhanced battery backup with generators at primary sites

Fuel supplies for several days/weeks

Comprehensive battery/generator service plan

Proposed SWBN Network Requirements

Sufficient capacity to meet requirements of Public Safety

Every day but also during large events, disasters and catastrophic situations

Automatic **Priority Access** with “**Ruthless Pre-emption**”

Operational capabilities consistent with features typical of Public Safety systems

PSBL has right of approval of all public safety network devices

PSBL can purchase subscriber equipment from any manufacturer for use on the network

Proposed SWBN Network Requirements

State-of-the-art Security and Encryption

At least one “dual mode” handset capable of operating on either 700 MHz or satellite frequencies

Mobile voice, video, and data capability that is seamlessly interoperable across agencies, jurisdictions, and geographic regions



Public Safety Spectrum Trust

10/10/07 - the PSST submitted its application to the FCC requesting it be named the Public Safety Broadband Licensee (PSBL)

11/02/07 - the newly constituted Board of Directors of the Public Safety Spectrum Trust met in Washington, DC.

The Board elected officers for a two year term:

Harlin McEwen, IACP, Chairman

Kevin McGinnis, NASEMSO, Vice-Chairman

Alan Caldwell, IAFC, Secretary-Treasurer

11/19/07 - the FCC named the PSST as the nationwide Public Safety Broadband Licensee (PSBL)

The Proposed Nationwide Public Safety Shared Wireless Broadband Network - SWBN -

Chief Harlin McEwen has said -

“Having served in a national leadership role of public safety communications for more than 30 years, it is my view that if this proposal does not succeed, in one form or another, public safety and the citizens we serve will lose a one time opportunity to dramatically improve public safety communications.”

Public Safety has never had any spectrum assigned for wide area robust data communications until the allocation of spectrum at 700 MHz. With the FCC requirement to further narrow current voice channels, the wireless exchange of robust data in those channels becomes even more impractical.

Building a new nationwide Public Safety Shared Wireless Broadband Network presents an opportunity to bring commercial technologies to the public safety community, to bring them much needed wireless data services, and to provide Voice over Internet Protocol (VoIP) voice services that can backup traditional public safety mission critical voice services.

Benefits for Public Safety

A Public/Private Partnership that will facilitate building a nationwide shared wireless broadband network (SWBN)

Commercial investment to build out and maintain the infrastructure

Network reliability & security greater than currently provided by commercial carriers

Public Safety access to latest commercial technologies

Priority access for public safety

Coverage greater than currently provided by commercial carriers

A satellite component that will provide coverage when terrestrial service is disrupted or not available

Timeline

01/24/08 - 03/18/08 – 700 MHz Auction #73. Auction raised almost \$20 billion. Only one bid for the D Block spectrum which did not meet the minimum bidding requirement of \$1.33 billion.

03/20/08 – FCC Order Delaying Further D Block Action until further notice

07/30/08 – FCC Hearing, Brooklyn

09/25/08 – FCC voted unanimously to issue the Third Further Notice of Proposed Rulemaking (Third FNPRM).

11/12/08 – Due date for Third FNPRM Comments & Replies.

11/26/08 – FCC Chairman Martin did not circulate a draft Third Report & Order after Congressional leaders requested all matters be deferred to the next Administration.

03/06/09 – Cyren Call notified PSST it would no longer be its advisor

Timeline

Waiver requests for approval for an early build using the Public Safety spectrum licensed to the PSBL (PSST)

12/11/08 - Boston

03/24/09 - San Francisco Bay Area

04/03/09 - State of New Jersey

District of Columbia (Temporary License in NB Spectrum)

New York City (Plan to File Waiver Request)

Proposals to get legislation directing the FCC to remove the D Block from Auction and allocate it for Public Safety

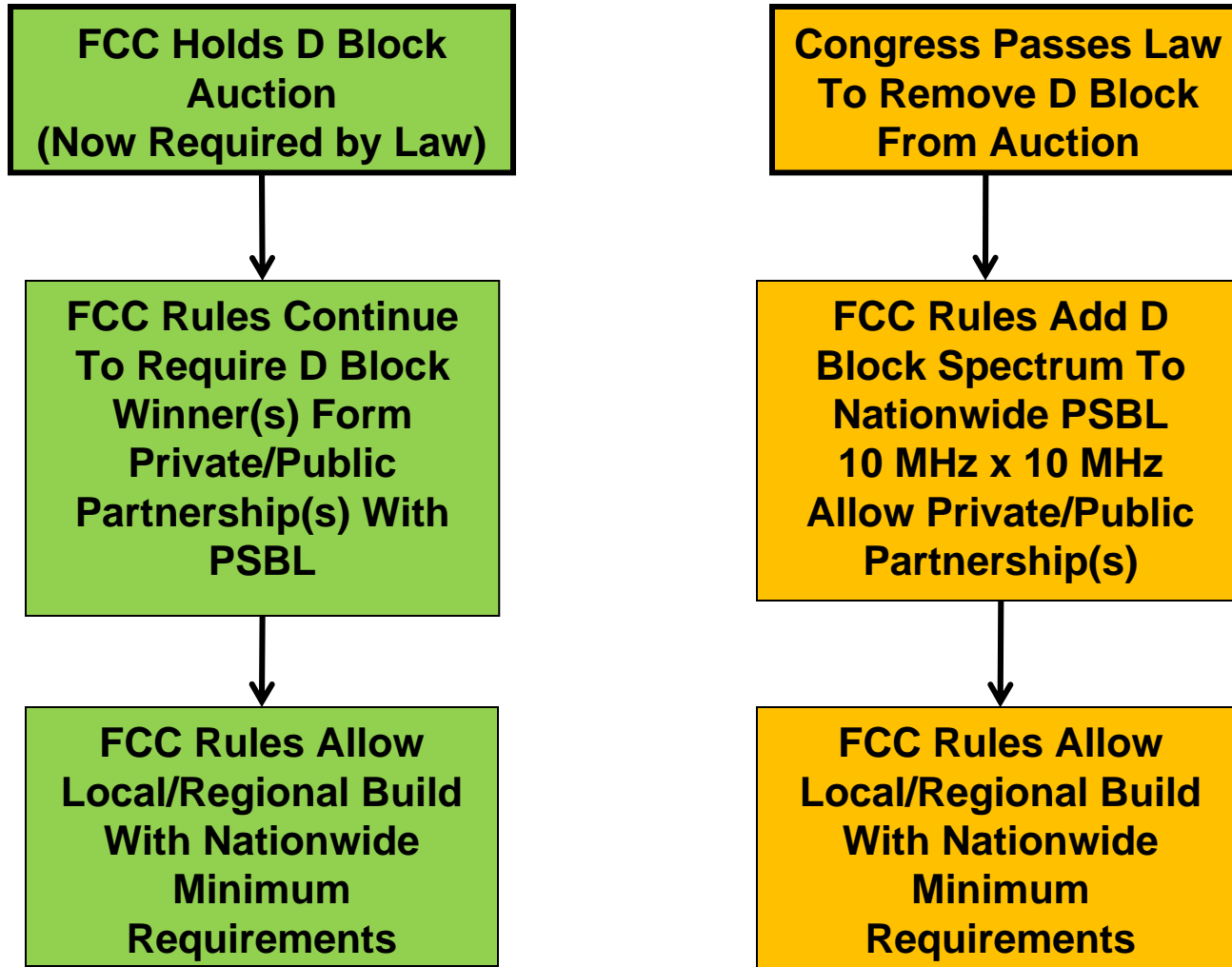
Major Cities Police Chiefs

Verizon Wireless

AT&T

Note: If Congress passes such a law, a different business model must be adopted by the FCC to assure a nationwide public safety network is built and maintained

700 MHz Broadband Spectrum Options



Timeline

03/09/09 - Major Cities Police Chiefs (MCC) 700MHz Working Group held meeting in San Francisco

04/20/09 - MCC hosted meeting in Washington, DC, to discuss their concerns with a goal to promote consensus within the public safety community

Major Cities Police Chiefs, Major County Sheriffs, International Assn. of Chiefs of Police (IACP), National Sheriffs' Association (NSA), Association of Public-Safety Communications Officials-International (APCO), International Assn. of Fire Chiefs (IAFC), Metropolitan Fire Chiefs

05/07/09 - PSST filed Waiver Response

05/28/09 – APCO hosted follow-up meeting in Washington

06/10/09 - NPSTC Meeting, Washington, DC

Nationwide Minimum Requirements

We need to begin the discussion of the basic Nationwide Minimum Requirements that will be necessary to have a Nationwide interoperable network but also allow local/regional government build out and/or regional public/private Partnerships

The issue of a Common Air Interface (CAI) is becoming more important for the Public Safety community.

Many believe It is now time to decide on our preference for LTE or Wi-Max

We need help from knowledgeable people on the options for manage roaming capabilities/services