

WELCOME TO PUBLIC SAFETY SPECTRUM MANAGEMENT



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CAPRAD System

User Training Program

COMPUTER ASSISTED PRE-COORDINATION RESOURCE AND DATABASE SYSTEM

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Sequence of Instruction

Session I: CAPRAD Overview

Lesson 1: Capabilities and Limitations of CAPRAD Lesson 2: Demonstration of CAPRAD Capabilities

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Session II: Regional Planning Lesson 3: Regions and Areas Lesson 4: Regional Planning Operations

Session III: FCC Application Process Lesson 5: New FCC Applications Lesson 6: Application Review and Editing Lesson 7: Applications Exercise

Session IV: Demonstration and Review Lesson 8: Application of Lessons Learned Lesson 9: Round-Table Discussion





Regional Map







State and Local Law Enforcement Wireless Communications and Interoperability: A Quantitative Analysis







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Interoperability Resource CD

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Fire and EMS Communications Interoperability

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A little background ...



Public Safety Radio Spectrum Bands





New Public Safety Spectrum

Existing Public Safety Spectrum





Problems Related to Regional Planning (identified during the 800 MHz planning process)

- Lack of interest, due particularly to not being able to inform the various services in a timely manner of the organizational meetings and of the issues involved.
- Lack of support from agencies to send representatives to meetings.
- Difficulty in finding persons willing to work on preparing a plan.
- Lack of funding to prepare, print and distribute Regional Plans.
- No uniform methodology for preparing plans and no uniform parameters.
- Lack of a centralized information resource.

National Coordination Committee

Wireless Telecommunications Bureau

The Public Safety National Coordination Committee (NCC)

- <u>Interoperability</u> the capability of public safety service providers to communicate with one another – a Primary Focus
 - provisions for both day-to-day and emergency interagency communications requirements
 - nationwide interoperability plan
- <u>Technology</u>
 - responsible for identifying where technical standards/requirements (including protocols) are necessary to ensure the most efficient, effective public safety communications systems possible
- Implementation
 - implementing the nationwide interoperability plan
 - assistance in the development of regional plans

National Coordination Committee

Wireless Telecommunications Bureau



700 MHz Regional Planning Guidebook

Produced by the National Public Safety Telecommunications Council (NPSTC)

For the Federal Communications Commission Version 2.01 July, 2002

A Plan for Planning...

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<u>Computer Assisted Pre-coordination</u> <u>Resource and Database</u> <u>System</u> for Public Safety Spectrum Management

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The Need for INFORMATION

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The Pre-coordination database for 700 MHz frequencies was built at the request of:

- The PSCC (Public Safety Communications Council) Coordinators
 - AASHTO (American Association of State Highway and Transportation Officials)
 - APCO (Association of Public-Safety Communications Officials-International, Inc.)
 - FCCA (Forestry Conservation Communications Association)
 - IMSA (International Municipal Signal Association)

NPSTC (National Public Safety Telecommunications Council)

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The Need for INFORMATION

Expansion and Enhancement of the database has occurred at the request of:

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- The Regional Planning Committees
- Statewide Interoperability Planning Committees
- Users from across the country

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Who has access to the database?

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- Regional Planning Committees
- The PSCC (Public Safety Communications Council) Coordinators
 - AASHTO (American Association of State Highway and Transportation Officials)
 - APCO (Association of Public-Safety Communications Officials-International, Inc.)
 - FCCA (Forestry Conservation Communications Association)
 - IMSA (International Municipal Signal Association)
- Statewide Interoperability Executive Committees (SIEC)
- Applicants / Proxy
- Authorized special users
- Public [view only in 700 MHz planning module]



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How is the database used?

- Frequency Pre-allotment (700MHz; 4.9 GHz; Interoperability channels)
 - National plan for proposed spectrum pre-allotment (700 MHz)
 - Modification options based on specific regional needs
- Development of State or Regional Plans
 - Assist in selection of "usable" frequencies
 - Resources for planning and managing the public safety spectrum
 - Accessible "living matrix" of planned channel use
 - Storage of Regional Planning documents
 - Mapping of planned usage and licensed sites
- Application for Frequency Use
 - FCC 601 forms
 - Attachments library
- Communications Assets Inventory
 - Inventory management / tracking
 - Attachments library



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What capabilities and features are included?

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- Web Site Access
 - Informational front page
 - Secure Access for Registered Users
 - Defined User Privileges
- Interactive Relational Databases
- Frequency Availability "Notebook"
- Interface to PSCC Automated Systems
 - Electronic Batch Format (EBF) protocol for data transfer
 - Nightly Data Comparison and Update



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What capabilities and features are included? (continued)

- On-Line Help Facilities
 - On-line users manual, context sensitive help, "frequently asked questions", planning resource documents/templates

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- Supplemental Information Storage
 - Regional / State Frequency Plans
 - Lists of Television Channels with Potential Impact
 - Final FCC Report and Order Frequency Table
 - RPC Chairpersons and Other Contacts
 - RPC Frequency Limitations by Region and Adjacent Region

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System Features

- Graphical User Interface
- Standard and ad hoc report capabilities
 - System Usage
 - Other Reports
- 5 second Response time (95% of the time)
- 24x7 operation
 - UPS
 - Mirrored Operation
 - Failsafe transfer to backup system
- Automated System and Data Backup
- Multi-Level Security



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Technical System Features Software

- Oracle 9i Enterprise
 - Oracle DBMS
 - Fail Safe
 - Oracle Diagnostics
 - Oracle Tuning
 - Oracle SQL+
 - Oracle IAS

SQL-Structured Query Language IAS-Immediate Access Storage MSCS-Microsoft Cluster Server

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- Windows 2000 Enterprise Server (includes MSCS)
- Veritas Backup

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Technical System Features Software

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- Application Software
 - Web Site and Site Navigation
 - User Registration and Sign-on
 - Frequency "Notebook"
 - Regional Pre-allotment Process
 - Forms (FCC 601) and attachments
 - Frequency License Application Process
 - Interface to frequency coordinator's systems
 - Browse / Query Protocols
 - Reporting

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Technical System Features Hardware

- 2 Dell Poweredge 6450
 - 700 MHz speed
 - 18 GB System Disk
 - SCSI Storage Connections
 - Private Internode Network Connection
 - Ethernet Hub Connection at 1GB speed
- PowerVault 20XS 72 GB Total Storage
 - RAID Disk Cluster
 - Four (4) 36 GB disks Mirrored
- DLT-4000 Rack Mount Tape (backup) System
 - Auto-loading 7 tapes 20/40 GB at 8 GB / hour

SCSI-Small Computer System Interface RAID-Redundant Array of Independent Disks

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CAPRAD <u>/S</u>:

- A tool to facilitate regional planning.
- An instrument to support inter-regional communications.
- A means to enhance inter-regional cooperation.



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CAPRAD <u>IS NOT</u>:

- A replacement for careful regional planning.
- A substitute for inter-regional communications.
- A substitute for inter-regional cooperation.
- Magic
 - it can only do what it is told to do with the information you give it.
- Self Maintaining
 - The Regional Planning Committee is the PRIMARY data manager and user.
 - YOU must ensure data is updated and correct.



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Resource Links

►AASHTO	
►AGILE	
►APCO	1
≻FCC	-
►FCCA	
≻IMSA	
►NLECTC	
►NPSTC	-

Sites Of Interest

▶Regional Planning ▶700 MHz Regions

Public Information





700 MHz Frequency Database System

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The FCC has allocated 24 MHz of spectrum for public safety services at 764-776 MHz and 794-806 MHz (referred to as the 700 MHz band). On August 6, 1998, the FCC adopted a *First Report and Order and Third Notice of Proposed Rule Making* that established a band plan and service rules for this spectrum. That plan was later modified three times with the current *Fourth Memorandum Opinion and Order* serving as the basis for current spectrum use and rules. The following table breaks out how the spectrum is planned on being allocated.

Designated Purpose	Amount of Spectrum	Narrowband (6.25 kHZ)	WideBand (50kHZ)
General Use	12.5 MHz	7.7 MHz	4.8 MHz
	(52.1%)	(1232 Channels)	(96 Channels)
Interoperability	2.6 MHz	0.8 MHz	l & MHz
	(10.8%)	(128 Channels)	(36 Channels)
Secondary Trunking	0.2 MHz (0.8%)	0.2 MHz (32 Channels)	-0-
State License	2.4 MHz (10.0%)	2.4 MHz (384 Channels)	-0-
Low Power	0.3 MHz (1.3%)	0.3 MHz (48 Channels)	-0-
Reserve	6.0 MHz	0.6 MHz	5.4 MHz
	(25.0%)	(96 Channels)	(108 Channels)
Total	24 MHz	12 MHz	12 MHz
	(100%)	(1920 Channels)	(240 Channels)

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RESOURCE LINKS

ы	AASHTO
ы	APCO
Я	FCC
ы	FCCA
ы	IMSA
ы	NARPC
Я	NIJ CommTech
Я	NLECTC
Я	NPSTC
Я	SAFECOM

PUBLIC INFORMATION



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4.9 GHz Frequency Database System

The telecommunications industry is on the verge of an exciting development in regards to providing classic digital services in the mobile environment. The changes will provide a list of services, applications, and features that will greatly impact the manner in which public safety is able to provide services. The potential of convergence of classic digital services will provide an opportunity previously unprecedented for public safety.

SIEC Database System

Interoperability is an essential communication link with public safety and public service communications systems, which permits units from two or more different entities to interact with one another. It also allows the exchange of information according to a prescribed method to achieve predictable results.

Each state is encouraged to create a Statewide Interoperability Executive Committe to address issues related to these issues. This CAPRAD tool provides automated features to assist in management, assignment and application for interoperability channels. TRAINING LOGIN HERE

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RESOURCE LINKS

ы	AASHTO
ы	APCO
Я	FCC
ы	FCCA
ы	IMSA
ы	NARPC
Я	NIJ CommTech
ы	NLECTC
Я	NPSTC
Я	SAFECOM

PUBLIC INFORMATION



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<u>Register</u>



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RESOURCE LINKS

🎽 AASHTO
M APCO
¥ FCC
¥ FCCA
MSA IMSA
MARPC
NIJ CommTech
NLECTC
NPSTC
≌ SAFECOM

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RESOURCE LINKS

ы	AASHTO
ы	APCO
ы	FCC
ы	FCCA
ы	IMSA
ы	NARPC
ы	NIJ CommTech
ы	NLECTC
ы	NPSTC
ы	SAFECOM

PUBLIC INFORMATION



Welcome to CAPRAD

700 MHz Frequency Database System

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Date Time	Status	By
11/24/2003 05:52 pm	Review by Adjacent RPCs	RPC7 Chair 1
02/14/2003 04:38 pm	Submitted for Coordination	Paul Bernard
02/14/2003 04:33 pm	Approved by RPC	RPC7 Chair 1
02/14/2003 03:59 pm	Review by Adjacent RPCs	Paul Bernard

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User Role	Information Area	Privileges
Regional Planning Committee Manager	1. Regional Plan	Full rights to enter/ modify/upload; set status; comment on plans of other regions
	2. FCC Applications	Review any; approve those in region if set as "always review" or those outside of allotments. Modify as necessary.
Regional Planning Committee Planner	 Regional Plan FCC Applications 	Full rights to review, enter/ modify; comment on plans of other regions Review any. Approve as assigned. Modify as necessary.
Frequency Coordinator	 Regional Plan FCC Applications 	Review all plans Review any; modify those assigned through coordination efforts.
Applicant / Regional Planning Committee Associate	 Regional Plan FCC Applications 	Review all plans Enter; modify those originated / co-owned

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Exercise:

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Basic Navigation in the CAPRAD System

Student Workbook [Tab 2] Page 2



General Use Channels

12.5 MHz of spectrum



- NCC Planning Guidelines
 - Some changes will be made to the guidelines as a result of recent FCC review of the Region 5 Plan
 - Changes will be available on the CAPRAD System Documents page and on the NPSTC website
- Responsibilities of the Regional Planning Committee.
 - Timely notification of public meetings
 - Inclusive invitation: All interested parties to include State, Native American Tribal and Local public safety as well as others
- Use of the CAPRAD system as a tool for regional planning and management of the 700 MHz band.

General Use Channels

12.5 MHz of spectrum



- Final FCC band plan
 - 6.25 KHz / 12.5 KHz / 25 KHz
 - Migration plan for movement to narrow band
 - 5th Report and Order [Docket 96-86]
 - Applications for General use and State channels filed <u>after</u> December 31, 2006 <u>must</u> operate with <u>1 V/P per 6.25 kHz</u>
 - Applications for General use and State channels filed <u>before</u> December 31, 2006 <u>may</u> operate with <u>1 V/P per 12.5 kHz</u> until December 31, 2016
 - Bans manufacture, importation and marketing of equipment which is capable of only 12.5 kHz operation after 12-31-06. Encourages dual-mode equipment.

State License Channels

2.4 MHz of spectrum



- Planning for the effective use of the geographically licensed state channels.
- Several planning options:
 - The New York Plan
 - The Missouri Plan
 - The Adjacent Region Negotiated Use Plan
- Each state license is granted subject to the condition that the state is providing or prepared to provide substantial service to 1/3 of their population or territory by January 1, 2012 and to 2/3 by January 1, 2017. [based on 5 year bench mark for construction and operation with starting calculation date of December 31, 2006]

Interoperability Spectrum 2.6 MHz of spectrum



- Not to be confused with State License spectrum.
- States <u>may</u> elect to manage the Interoperability spectrum.
- States <u>may</u> elect to establish an SIEC or manage the spectrum through an existing agency.
- Licensing for infrastructure only; mobile is "blanket license"

• Who will manage the Interoperability Spectrum in your region and how will they do it?

NATIONAL TASK FORCE ON INTEROPERABILITY







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Public Safety Interoperability Web Links:

CAPRAD SIEC Database New

Interoperability Continuim Brochure

<u>Join the SIEC General</u> <u>Discussion Group List Email</u> <u>Server</u>

SIEC Documents

FCC SIEC Web Page

NPSTC Docs Web Page SAFECOM (PSWN)

NTIA Public Safety Program

FCC/NCC Web Page

FCC 700 MHz Web Page

ICTAP

Interoperable Communications Technical Assistance Program

Public Safety INTEROPERABILITY RESOURCES SIEC: State Interoperability Executive Committees

Documents

- FCC 5th MO&O, 6th R&O, and 7th NOPR 05-9 (Response to NCC I/O mandated naming for I/O channels Para 57-61)
- DRAFT list of all standardized Public Safety Designated I/O Channels all bands (NCC)
- DHS Announces Office of Interoperability and Compatibility (OIC)
- <u>US Conference of Mayors Interoperability Study</u>
- NGA Interoperability Document
- Alaska State Interoperability Plan (ALMR)
- PSWN Case Study Washington State SIEC
- State of Missouri Interoperability Exec Comm FINAL VHF UHF Parameters (PDF) (Updated 3/25/03)
- Proposed IRAC Federal VHF/UHF Public Safety Interoperability Plan
- <u>NTIA Federal Frequencies "RED BOOK"</u>
- FCC 0D-348 3rd MO&O&3rd R&O WT Docket no. 96-86 Defining Part 90 VHF/UHF Interoperability Channels (see paragraph 82) THE DEVELOPMENT OF OPERATIONAL, TECHNICAL AND SPECTRUM REQUIREMENTS FOR MEETING FEDERAL, STATE AND LCOAL PUBLIC SAFETY AGENCY COMMUNICATIONS REQUIREMENTS THROUGH THE YEAR 2010, et al. (DK No. 96-86).
 FCC-00-348A1.pdf FCC-00-348A1.doc_ FCC-00-348A1.txt
- VHF VPC Maritime Channels for Public Safety Select Areas (47CFR Section 90.20(g) hint: Search page for "VPCS")
- Map of Authorized areas for above VPC/PS Frequencies
- List by County
 - PSCC Coordinator Plan for VHF/UHF I/O Channel Management and Nationwide Use Letter to FCC 7-3-2002
 - Montana Mutual Aid and Common Frequencies 1994 Handbook
 - Tennessee Statewide Interoperability Task Force MOU (Draft Word Document)
- Sec. 1. And the second sectors in the

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Incident Response System



- Who ever manages the Interoperability Spectrum is Responsible for:
 - <u>Developing an Interoperability Plan</u>
 - Identifying who will hold the license for the Interoperability spectrum
 - State or state level agency as sole licensee
 - Allow other eligible public safety entities to be licensees
 - <u>Resolving licensing issues</u>
 - Licensing approval process
 - <u>Creation and oversight of incident response protocols</u>
 - Creation of chains of command for incident response and reporting
 - Execution of Memoranda of Understanding and Sharing Agreements
 - <u>National Incident Management System (NIMS)</u>

Policies and Procedures



- Answers the questions of Who?, What?, When?, Where?, Why? and How?
- Identify how Coordination and Licensing in the 700 MHz band may affect your region's policies and procedures.
- Identify how the Regional Plan Approval and Amendment process will define how you "do business" in your region.

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FCC Application

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Valid passwords for CAPRAD must follow these rules:

- Be a minimum of 6 characters and a maximum of 10 characters long.
- Must contain at least one character from three of the following four categories:

Small letters: abcdefghijklmnopqrstuvwxyz Capital letters: ABCDEFGHIJKLMNOPQRSTUVWXYZ Numbers: 0123456789 Special characters: !#\$%&*_-+

- Samples of valid passwords: aBc132 or Iwas#1 or 1+2Is3
- Samples of *invalid* passwords: abc123 (only 2 categories) lam#1 (too short) 1+2=3 (too short, only 2 categories, invalid character =)