

California Planning Area Tactical Interoperable Communications Plan Guidelines

Draft

Executive Overview

This document establishes a Tactical Interoperable Communications Plan (also referred to as TICP or TIC Plan) template for use by CA's Planning Areas. It is a tailored version of the City Urban Area Security Initiative (UASI) TICP model. The TICP is intended to document what interoperable communications resources are available within the tactical region being studied, who controls each resource, and what rules of use or operational procedures exist for the activation and deactivation of each resource.

The creation of UASI TICP's originated as a requirement of the Office for Domestic Preparedness 2005 UASI grant program.

Motivation To Act

Criteria For Tactical Interoperable Communications Planning and Statewide Communications Interoperability Planning

Purpose of Criteria

According to Section I.C.5 of the 2006 Homeland Security Grant Program, all states are required by December 2007 to develop and adopt statewide communications interoperability plans. To assist this process and to ensure California, and its constituent tactical interoperable planning areas and regions, include the essential components of regional and statewide plans, the fundamental criteria of what must be included in the regional interoperable communications plans are included herein in preliminary form subject to modifications where appropriate. The criteria have been, and continue to be, formulated with input from local and state practitioners. The sections below outline the criteria.

All-Inclusive Approach

The Department of Homeland Security (DHS) requires that all grant recipients submit by the end of 2007 statewide communications interoperability plan. The SAFECOM program within the DHS Science and Technology Directorate recommends that states, through their governors, other state and local policy makers, and local emergency responders, use a statewide strategic planning process that gathers the perspectives of all emergency responders. By using a practitioner-driven approach that involves local, tribal, state and Federal stakeholders, a strategic plan will be developed to meet the needs of end users. They are therefore more likely to adopt such a plan. The criteria for the statewide plan provide an opportunity for partnership among local, tribal, state and federal entities. Each has a critical role to play in the development of a strong statewide, locally driven interoperability plan that has the best chance of success for improving interoperability. The governor's office, or its designee, should act as an umbrella organization that plays a vital role in leadership, coordination, management, and support for the statewide planning process. Local jurisdictions play an equally important, but different, role in further developing the interoperability within their region, identifying ways to build out their current systems to become interoperable with the neighboring

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jurisdictions, and providing significant input into the development of the statewide plan that builds on efforts already underway.

Interoperability Continuum Framework

SAFECOM recommends applying its Interoperability Continuum, shown below, as a comprehensive framework to address critical elements for planning and implementing statewide interoperability solutions. These elements include governance, standard operating procedures, technology, training and exercises, and usage of interoperable communications.

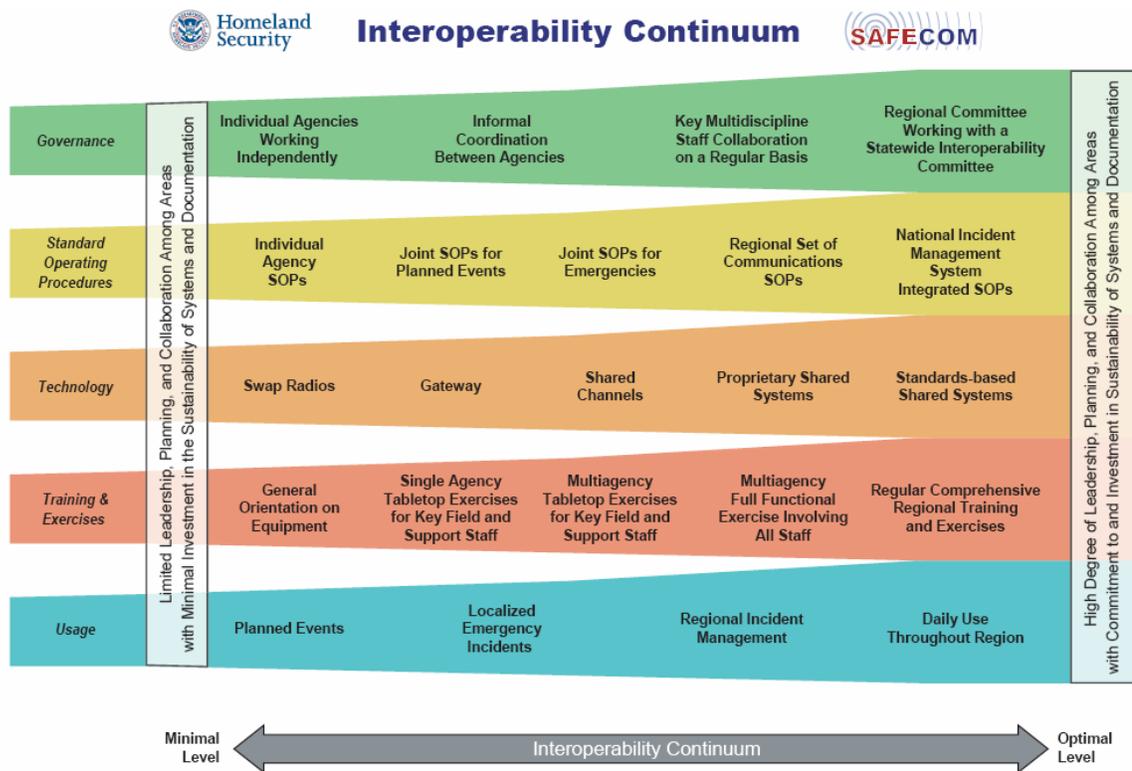


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1 Regional Service Area Information

1.1 Existing Conditions & Challenges

PROVIDE A BRIEF OVERVIEW OF INFORMATION ON YOUR REGIONAL (MULTI-JURISDICTIONAL/MULTIDISCIPLINE SERVICE AREA AND ITS EFFORTS TO DATE ADDRESSING INTEROPERABLE COMMUNICATIONS.

1.1.1 Overview & Background Info

PROVIDE AN OVERVIEW AND BACKGROUND INFORMATION ON YOUR PLANNING AREA'S REGION(S).

1.1.2 Geographic & Demographic Info

INCLUDE GEOGRAPHIC AND DEMOGRAPHIC INFORMATION.

1.1.3 Existing Communications & Interoperability Environment

DESCRIBE YOUR EXISTING COMMUNICATIONS AND INTEROPERABILITY ENVIRONMENT AS EXPERIENCED WHEN CONDUCTING CURRENT EMERGENCY RESPONSE EFFORTS.

1.1.4 Challenges in Achieving Interoperability

INCLUDE A PROBLEM DEFINITION AND POSSIBLE SOLUTIONS THAT ADDRESS THE CHALLENGES IDENTIFIED IN ACHIEVING INTEROPERABILITY WITHIN THE SAFECOM INTEROPERABILITY CONTINUUM.

1.2 Included Agencies

LIST THE AGENCIES REPRESENTED IN THE TACTICAL INTEROPERABLE COMMUNICATIONS PLAN. THIS MUST INCLUDE ALL AGENCIES INCLUDED IN THE REGIONAL SERVICE AREA.

Appendix A provides detailed Point Of Contact (POC) information. *THE APPENDIX A TABLES ARE FOR AGENCY POCs AND GOVERNING BODY POCs.*

SUPPLY A MAP OF THE TICP REGION. IF AVAILABLE, SUPPLY REGIONAL SERVICE AREA MAP(S) FOR EACH PARTICIPATING AGENCY.

1.3 TIC Plan Point of Contact

The primary point of contact that can be reached for questions regarding the Plan is:

Name:
Title:
Address:
Phone:

After Hours:
E-Mail:

SUPPLY A TIC POC CONTACT LIST WITH THE ABOVE INFORMATION FOR EACH OF THE REGIONAL SERVICE AREA PARTICIPATING AGENCIES.

2 Governance

2.1 Overview

PROVIDE A BRIEF OVERVIEW OF THE GOVERNANCE STRUCTURE THAT OVERSEES INTEROPERABLE COMMUNICATIONS POLICY.

This TICP has been developed under the authority of the ??????

There are # existing *REGIONAL SERVICE AREA AGENCY PARTICIPANTS*:

The *?????* shall provide all governance and coordination for the development and implementation of this TIC Plan.

2.2 Membership

COMPLETE APPENDIX WHICH PROVIDES A TEMPLATE BY WHICH TO PROVIDE POC INFORMATION ON MEMBERS OF THE GOVERNING BODY.

Appendix B provides POC information

2.3 Responsibilities of the Governing Body

IDENTIFY WHO HOLDS (OR WILL HOLD) THE FOLLOWING RESPONSIBILITIES:

2.4 Meeting Schedule (TBD)

2.5 Agency Responsibilities and Rights

AGENCIES WILL RETAIN THE FOLLOWING RIGHTS AND RESPONSIBILITIES:

2.6 Regional Authority Structure

IDENTIFY REGIONAL AUTHORITY STRUCTURE FOR COORDINATION AND ASSIGNMENT OF INTEROPERABILITY ASSETS

2.7 Maintenance of TIC Plan

THIS SECTION SHOULD INCLUDE:

- *AGENCY/PERSON HAVING THE RESPONSIBILITY FOR REVIEWING AND UPDATING THE TIC PLAN*
- *HOW OFTEN THE PLAN IS TO BE UPDATED*
- *WHOM REQUESTS FOR MODIFICATIONS/ADDITIONS TO THE DOCUMENT SHOULD BE SUBMITTED TO*

-
- *IDENTITY OF ANY ADDITIONAL GROUPS OR SUBCOMMITTEES WHO CAN RECOMMEND UPDATES*
 - *RECOMMENDED TIME-FRAME FOR FORMALLY NOTIFYING PARTICIPATING AGENCIES OF ANY MODIFICATIONS OR ADDITIONS TO THE TIC PLAN*

3 Interoperability Equipment

This section describes all interoperable equipment in the regional service area for which the TICP is being prepared.

3.1 Swap (Cache) Radios

“Swapping radios” refers to maintaining a cache of standby radios that can be deployed to support regional incidents. These radios may be from a regional cache, or from a participating agency. These caches allow all responders to use a common, compatible set of radios during an incident. Specific caches within the region are listed in Table 1 below. More detailed information on each radio cache is documented in Appendix C.

- **Table 1. Radio Caches in the Regional Area**

Jurisdiction	Agency	Units	Description

3.2 Shared Channels

“Shared channels” refer to common frequencies or channels (such as those of a participating agency) that have been established and are programmed into radios to provide interoperable communications among agencies. Specific shared interoperable communications channels available within the region are listed in Table 2 below. More detailed information on each channel is documented in Appendix D.

- **Table 4. Shared Systems in the Regional Area**

Name	Service Area	Radio System	Public Safety Agencies Supported

4 Policies and Procedures for Interoperable Equipment

4.1 Swap/Cache Radios

4.1.1 Cache Provider Responsibilities

PROVIDE BACKGROUND INFORMATION ON SWAP/CACHE RADIOS AND THEIR ROLE IN THE REGIONAL PLAN.

For a radio cache to be an effective shared resource, it should have the following characteristics:

All VHF radio caches are required to have the following channels programmed:

Primary Use	Name	Description	Frequency	CTCSS

If possible, the following channels should also be programmed into VHF cached radios:

Primary Use	Name	Description	Frequency	CTCSS

All 800 MHz radio caches are required to have the following channels programmed:

Primary Use	Name	Description	Frequency	CTCSS

4.1.2 Cache/Swap Radio Rules of Use

DEVELOP A STANDARD SET OF RULES FOR USE FOR RADIO CACHES AND DOCUMENT THEM IN THIS SECTION.

- National Incident Management System - Use of an Incident Command System compliant with the National Incident Management System is recommended for use of any regional interoperability resource.
- Plain language - All Communications shall be in plain language. Radio codes, acronyms and abbreviations are to be avoided as they may cause confusion between agencies. Requests for assistance or backup should clarify the reason for the request.
- Unit Identification - Agency name shall precede unit identifier, i.e., operations, logistics, command, information, liaison.

4.1.3 Interoperable Communications Request

DETAIL THE PROCESS THAT WILL BE FOLLOWED WHEN AN INCIDENT COMMANDER DETERMINES THAT AN INTEROPERABILITY RESOURCE IS REQUIRED AND A RADIO CACHE IS DETERMINED TO BE THE APPROPRIATE RESOURCE.

4.1.4 Swap/Cache Radio Activation

DETAIL THE PROCESS THAT WILL BE FOLLOWED DURING THE ACTIVATION OF A RADIO CACHE.

4.1.5 Swap/Cache Radio Deactivation

DETAIL THE PROCESS THAT WILL BE FOLLOWED DURING THE DEACTIVATION OF A RADIO CACHE.

4.1.6 Problem ID and Resolution

DETAIL THE PROCESS THAT WILL BE FOLLOWED FOR PROBLEM IDENTIFICATION AND RESOLUTION ASSOCIATED WITH THE USE OF A RADIO CACHE.

4.2 Shared Channels: Mutual Aid Channels

The procedures in Section 4.2 apply to the Mutual Aid channels as shown in Table 5

- Table 5. Mutual Aid Channels in the Regional Area

Name	Description	Frequency	CTCSS

4.2.1 Definitions

4.2.2 Overview Mutual Aid Channels

PROVIDE BACKGROUND INFORMATION ON MUTUAL AID CHANNELS AND THEIR ROLE IN THE REGIONAL PLAN

4.2.3 Mutual Aid Channels Rules of Use

PROVIDE A DETAILED SET OF RULES OF USE FOR MUTUAL AID CHANNELS

4.2.4 Mutual Aid Channels Procedures

DETAIL THE PROCESS THAT WILL BE FOLLOWED WHEN AN INCIDENT COMMANDER DETERMINES THAT AN INTEROPERABILITY RESOURCE IS REQUIRED AND A SHARED CHANNEL IS DETERMINED TO BE THE APPROPRIATE RESOURCE.

4.2.5 Problem ID and Resolution

DETAIL THE PROCESS THAT WILL BE FOLLOWED FOR PROBLEM IDENTIFICATION AND RESOLUTION ASSOCIATED WITH THE USE OF A MUTUAL AID CHANNEL.

4.3 Shared Channels: All Other Shared Channels

The procedures in this section apply to all other shared channels not addressed in Section 4.2. These include the channels listed in Table 6. See **Error! Reference source not found.** for a list of shared frequencies/talkgroups, name/designation and agencies supported.

- Table 6. All Other Shared Channels in the Regional Area

Use	Primary	Name	Description	Frequency	CTCSS

4.3.1 Shared Channels Rules of Use

PROVIDE A DETAILED SET OF RULES OF USE FOR MUTUAL AID CHANNELS

4.3.2 Shared Channels Procedures

DETAIL THE PROCESS THAT WILL BE FOLLOWED WHEN AN INCIDENT COMMANDER DETERMINES THAT AN INTEROPERABILITY RESOURCE IS REQUIRED AND A SHARED CHANNEL IS DETERMINED TO BE THE APPROPRIATE RESOURCE.

4.3.3 Problem ID and Resolution

DETAIL THE PROCESS THAT WILL BE FOLLOWED FOR PROBLEM IDENTIFICATION AND RESOLUTION ASSOCIATED WITH THE USE OF A MUTUAL AID CHANNEL.

4.4 Fixed Site Gateways

PROVIDE BACKGROUND INFORMATION ON FIXED SITE GATEWAYS AND THEIR ROLE IN THE REGIONAL PLAN.

This document provides guidance on how to request and use the fixed gateways in the *Regional* Area.

4.4.1 Participating Agencies

Appendix E lists the agencies supported by each fixed site gateway device and detailed information on all fixed site gateways available for use within the region.

4.4.2 Fixed Site Gateway Rules of Use

PROVIDE A DETAILED SET OF RULES OF USE FOR FIXED SITE GATEWAYS.

4.4.3 Fixed Site Gateway Communications Request

DETAIL THE PROCESS THAT WILL BE FOLLOWED WHEN AN INCIDENT COMMANDER DETERMINES THAT AN INTEROPERABILITY RESOURCE IS REQUIRED AND A FIXED SITE GATEWAY IS DETERMINED TO BE THE APPROPRIATE RESOURCE.

4.4.4 Fixed Site Gateway Activation

DETAIL THE PROCESS THAT WILL BE FOLLOWED DURING THE ACTIVATION OF A FIXED SITE GATEWAY.

4.4.5 Fixed Site Gateway Deactivation

DETAIL THE PROCESS THAT WILL BE FOLLOWED DURING THE DEACTIVATION OF A FIXED SITE GATEWAY.

4.4.6 Problem ID and Resolution

DETAIL THE PROCESS THAT WILL BE FOLLOWED FOR PROBLEM IDENTIFICATION AND RESOLUTION ASSOCIATED WITH THE USE OF A FIXED SITE GATEWAY.

4.4.7 Fixed Site Gateway Limitations

PROVIDE A DETAILED SET OF LIMITATIONS FOR FIXED SITE GATEWAYS.

4.4.8 Fixed Site Gateway Test Procedures

PROVIDE A DETAILED SET OF TEST PROCEDURES FOR FIXED SITE GATEWAYS.

4.5 Mobile Gateways

This section provides guidance on how to request, deploy, and use the mobile gateways during emergency responses in the Regional Area. Detailed information on all gateways available for use within the region is listed in Appendix E.

4.5.1 Participating Agencies

Appendix E lists the agencies supported by each mobile gateway device.

4.5.2 Mobile Gateway Rules of Use

PROVIDE A DETAILED SET OF RULES OF USE FOR MOBILE SITE GATEWAYS.

4.5.3 Mobile Gateway Communications Request

DETAIL THE PROCESS THAT WILL BE FOLLOWED WHEN AN INCIDENT COMMANDER DETERMINES THAT AN INTEROPERABILITY RESOURCE IS REQUIRED AND A MOBILE SITE GATEWAY IS DETERMINED TO BE THE APPROPRIATE RESOURCE.

4.5.4 Mobile Gateway Activation

DETAIL THE PROCESS THAT WILL BE FOLLOWED DURING THE ACTIVATION OF A MOBILE SITE GATEWAY.

4.5.5 Mobile Gateway Deployment Procedure

DETAIL THE PROCESS THAT WILL BE FOLLOWED DURING THE DEPLOYMENT OF A MOBILE SITE GATEWAY.

4.5.6 Mobile Gateway Deactivation

DETAIL THE PROCESS THAT WILL BE FOLLOWED DURING THE DEACTIVATION OF A MOBILE SITE GATEWAY.

4.5.7 Problem ID and Resolution

DETAIL THE PROCESS THAT WILL BE FOLLOWED FOR PROBLEM IDENTIFICATION AND RESOLUTION ASSOCIATED WITH THE USE OF A MOBILE SITE GATEWAY.

4.5.8 Mobile Gateway Limitations

PROVIDE A DETAILED SET OF LIMITATIONS FOR MOBILE SITE GATEWAYS.

4.5.9 Mobile Gateway Test Procedures

PROVIDE A DETAILED SET OF TEST PROCEDURES FOR MOBILE SITE GATEWAYS.

4.6 Shared Systems

PROVIDE BACKGROUND INFORMATION ON SWAP RADIOS AND THEIR ROLE IN THE REGIONAL PLAN.

4.6.1 Shared System Rules of Use

PROVIDE A DETAILED SET OF RULES OF USE FOR SHARED SYSTEMS.

4.6.2 Shared System Procedures

PROVIDE A DETAILED SET OF TEST PROCEDURES FOR SHARED SYSTEMS.

4.6.3 Problem ID and Resolution

DETAIL THE PROCESS THAT WILL BE FOLLOWED FOR PROBLEM IDENTIFICATION AND RESOLUTION ASSOCIATED WITH THE USE OF A SHARED SYSTEM.

5 Plans for Tactical Communications During an Incident

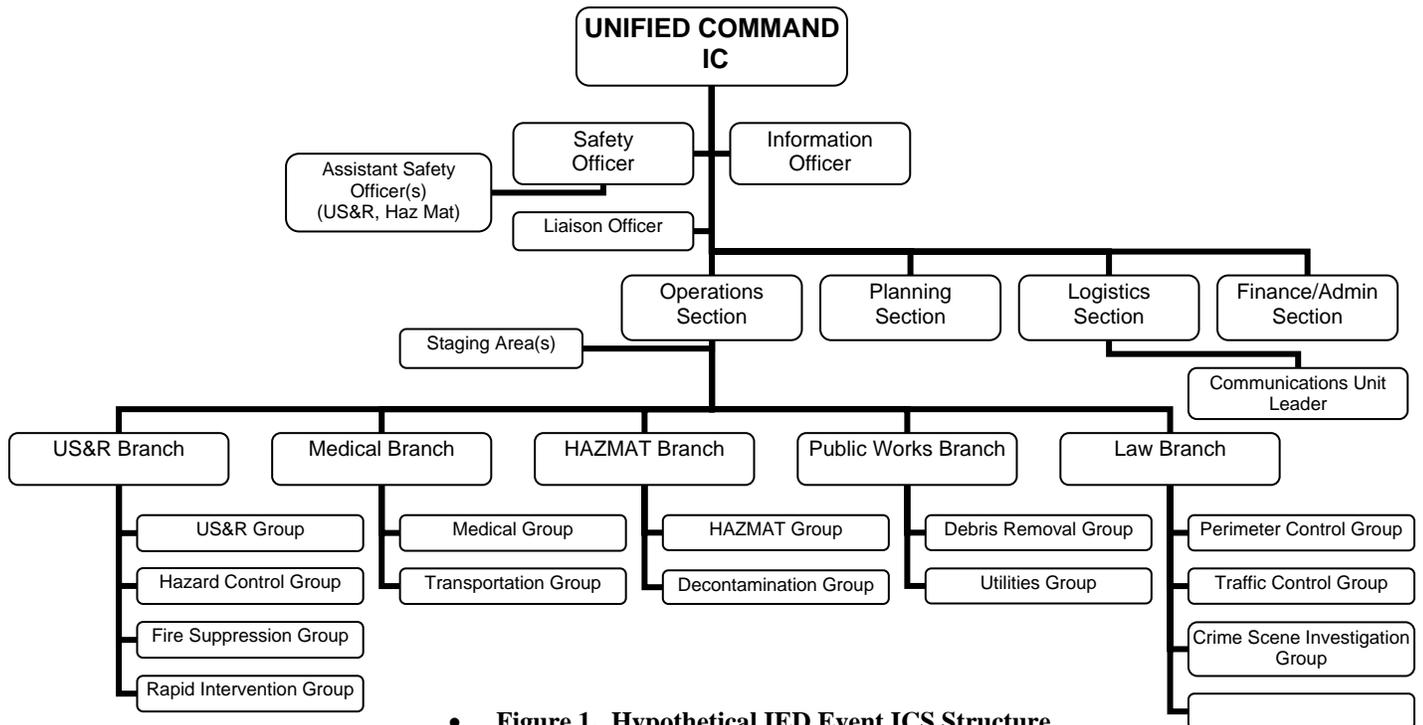
5.1 Event

5.2 Participating Functional Disciplines

IN RESPONSE TO AN EVENT, THE FUNCTIONAL DISCIPLINES INVOLVED IN THE INITIAL INCIDENT-SCENE RESPONSE ARE EXPECTED TO INCLUDE:

5.3 Incident Command Structure

Figure 1. shows a hypothetical Incident Command System structure that would be generally appropriate for the level of incident addressed by this plan.



• **Figure 1. Hypothetical IED Event ICS Structure**

Appendix J includes sample ICS forms (ICS 201, ICS 202, etc.) for functional assignments of resources such as:

- Incident Command Staff
- Operations Section
- Planning Section
- Logistics Section
- Finance Section

5.4 Prioritizing Interoperable Communications

Because interoperable communications resources will be limited, a priority order must be established.

5.4.1 Priority Users

5.4.2 Priority Assignment of Mutual Aid Channels

5.5 Event Interoperable Communications Requirements

5.5.1 Unified Command Staff

5.5.2 Operations Section Command and Branch Directors

5.5.3 Medical Care Group

5.5.4 Fire Service Branch

5.5.5 Law Enforcement Branch

5.5.6 Hospital Coordination

5.6 Communications Unit Leader Responsibility

6 NIMS Communications Unit Leader Training

6.1 Training Requirements and Certification (TBD)

6.2 Communications Unit Leaders (TBD)

6.3 Communications Unit Leader Training Review

- **Table 7. Training Objectives**

Training	Objective
Communication Unit Leader	To familiarize Communications Unit Leaders with their role within the NIMS model & the regional TIC Plan
Policies/Procedures for Interoperability Equipment	To familiarize Communications Unit Leaders with Regional Interoperability Standard Operating Procedures
Shared Channels	To familiarize Communications Unit Leaders with technical specifics on the region's shared channel systems
Fixed Site and Mobile Gateways	To familiarize Communications Unit Leaders with technical specifics on the region's fixed site and mobile gateways
Shared Systems	To familiarize Communications Unit Leaders with technical specifics on the region's shared systems

Appendix B. Governance Contacts

In this appendix, the region should include points of contact for governance entities as well as any individuals appointed for regional coordination of interoperability resources. The examples used in this document would be supported by the following list of contacts:

- Public Safety Communications Board
Joe Smith
Director, Public Safety Communications Board
(909)555-1111
joe.smith@email.com
- Regional Interoperability Committee
Henry Block
Director, Regional Interoperability Committee
(909)555-2222
henry.block@email.com
- Regional Interoperability Coordinator(s)
Susan Lee
Regional Interoperability Coordinator
(909)555-3333
susan.lee@email.com

In the event an incident exceeds a PSAP's ability to effectively manage the necessary interoperable communications or experiences a significant communications systems failure, the following emergency managers can be contacted for additional assistance:

- **Table 8. Emergency Managers**

Jurisdiction	Agency	Contact	Email	Phone

Appendix C. Swap/Cache Radios

Detailed information on all swap/radio caches available for use within the region are listed in subsequent pages of Appendix C.

- **Table 9. Emergency Managers**

App	Jurisdiction	Agency	Units	Description

C.1 Equipment Location

The location of the radio cache will be entered in this section. For example, “This radio cache is maintained at the City A Police Department Headquarters at 75th & State Street.”

C.2 Responsible Agency

The agency and point of contact responsible for this Radio Cache will be entered in this section. For example, “This radio cache is operated by the City A Police Department. The contact for this system follows.”

The contact for this system follows.”

City A Police Department
 Communications Manager
 (909) 555-5555

C.3 Service Area

Information regarding the area in which this radio cache is available to be deployed would be entered in this section. For example, “This system is available for use throughout Alpha, Bravo and Charlie counties.”

C.4 Cache Description

The number of radios and spares will be provided in this section. Additionally, a description should be provided of the radio type and programmed channels. For example, “This radio cache consists of 100 VHF radios with 100 fully charged battery spares. The radios support 16 channels. The following channels are currently programmed:

Channel 1 - City A Tactical 1 (156.265)

Channel 2 - City A Tactical 2 (156.280)
 Channel 3 - City A Tactical 3 (156.295)
 Channel 4 - National Fire Mutual Aid (154.265)
 Channel 5 - National Fire Mutual Aid (154.280)
 Channel 6 - National Fire Mutual Aid (154.295)
 Channel 7 - The National Law Enforcement Emergency Channel (155.475)
 Channels 8 through 16 – Unassigned

PROVIDE DETAILED SWAP/CACHE RADIO DESCRIPTION

Table 10 lists the frequency/system/talkgroups, name/designation and description of swap/cache radios in the area.

- **Table 10. Channels Programmed into Swap/Radio Cache**

Item	Frequency (Tx/Rx) or System/Talkgroup	Name or Designation	Description
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			

Appendix D. Shared Channels

Detailed information on all shared channels available for use within the region is listed in Table 11.

- **Table 11. Index of Emergency and Mutual-Aid Frequencies**

App	Primary Use	Name	Description	Frequency	CTCSS

CTCSS – Continuous Tone Coded Squelch System

E.1 Equipment Location

The location of the radio cache will be entered in this section. For example, “This radio cache is maintained at the City A Police Department Headquarters at 75th & State Street.”

E.2 Responsible Agency

The agency and point of contact responsible for this Radio Cache will be entered in this section. For example, “This radio cache is operated by the City A Police Department. The contact for this system follows.”

City A Police Department
 Communications Manager
 (909) 555-5555

E.3 Service Area

Information regarding the area in which this Radio Cache is available to be deployed would be entered in this section. For example, “This system is available for use throughout Alpha, Bravo and Charlie counties.”

E.4 System Type and Capacity

Information regarding the number of users that can be interconnected at a given time would be included in this section. For example, “This gateway system can support up to 24 active channels involved in up to 7 interconnects.”

E.5 Participating Agencies

Information on the agencies and channels supported on the particular gateway system will be included in this section.

Agencies and channels supported on the particular gateway system are:

- **Table 14. Participating Agencies on ????**

Agency	Frequency or System/Talkgroup	Channel Designation
-		-
-		-
-		-
-		-
-		-
-		-
-		-

Appendix F. Shared Systems

Detailed information on all shared systems available for use within the region is listed in subsequent pages of Appendix F.

Table 15 below lists the jurisdictions, name, system, type of shared systems in the Urban Area. The appendix section corresponding to each gateway is also listed.

- **Table 15. Index of Shared Systems in the Regional Area**

Appendix	Jurisdiction	Name	System Type

F.1 System Designation

Identify how the system is designated or referred to. For example, “This system is referred to as the County A Trunked Radio System.”

F.2 System Type

List the make and model of the shared system used within the region.

F.3 Responsible Agency

List the agency or entity responsible for the shared system, along with point of contact information. For example, “This radio cache is operated by the City A Police Department. The contact for this system follows.”

F.4 Service Area

Describe in general terms the area served by the shared system. The service area may be described with a statement such as, “The shared system serves three of the four counties surrounding the metropolitan core area.”

F.5 Participating Agencies

Agencies and channels supported on the particular gateway system are listed in Table 16:

- **Table 16. Participating Agencies on ????**

Agency	Frequency or System/Talkgroup	Channel Designation
-		-
-		-

Agency	Frequency or System/Talkgroup	Channel Designation
-		-
-		-
-		-

F.6 Shared Frequencies or Talkgroups

Table 17 lists all the frequencies or talkgroups on the shared system that have been established for interagency communication.

- **Table 17. Shared Frequencies/Talkgroups**

Shared Frequency (Tx/Rx) or Talk Group	Name or Designation	Agencies Supported

Appendix G. Certified Communications Unit Leaders

This appendix lists the contact information and discipline of all certified Communications Unit Leaders. Table 18 contains contact information for Certified Communications Unit Leaders in the area.

- **Table 18. Certified Communications Unit Leaders**

Jurisdiction	Agency	Contact	Email	Phone

Appendix H. Example Scenario (TBD)

Appendix I. Acronym List (TBD)

Appendix J. Incident Command System Planning

THIS APPENDIX CONTAINS FORMS FOR INCIDENT COMMAND SYSTEM PLANNING WHICH ARE EXCLUDED IN THIS PRINTING.