

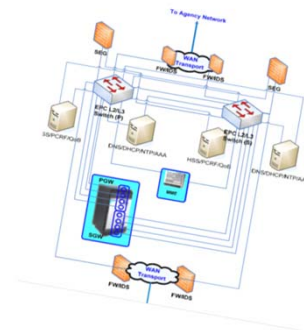
BAYRICS TECHNICAL ADVISORY COMMITTEE (TAC) UPDATE

Michelle Geddes, TAC Chair
Barry Fraser, BayRICS GM

June 12, 2014

INTRODUCTION TO TAC

- ▶ Background and History
- ▶ Purpose and Goals
- ▶ Current Initiatives
 - Technical Support for CalFRN and FirstNet
 - Voice Interoperability–Regional Fleetmap Coordination
 - BayLoop Maintenance, Use and Sustainability
- ▶ Status and Accomplishments



TAC MEMBERSHIP AND MEETINGS

Member	Hub
- Michelle Geddes, San Francisco (Chair) - Tom Meyers, San Mateo County	West Bay
- Dennis Smiley, Sonoma County - Shelly Nelson, Marin County	North Bay
- Mark Anderson, Santa Clara County - VACANT	South Bay
- Ahsan Baig, Oakland (Vice-Chair) - Tim Stuart, Concord (EBRCS)	East Bay
- John Lemmon	State of California

- ▶ Meets on 3rd Thursday of each Month (1:30 PM)
 - www.bayrics.net/tac-meetings.html

TAC HISTORY

- ▶ Prior to BayRICS: Technical Advisory Group
- ▶ Early Efforts
- ▶ Formally Stood Up as a BayRICS Committee at the Board's 1st Meeting
 - Required in JPA Charter Section 3.01
- ▶ Role under BayWEB and BOOM
- ▶ Integration of Fleetmap Planning & BayLoop Work Group
- ▶ Voice Interoperability Assessment

TAC PURPOSE AND GOALS

- ▶ TAC Purpose: “To review and recommend to the Board policies and procedures related to Systems performance, maintenance and other technical issues” [Charter Section 3.09].
- ▶ “Systems” Defined: “A regional, interoperable, public safety broadband communications system and other advanced information systems for interoperable public safety communications” [Charter, Recital A].
- ▶ BayRICS is “committed to cooperatively addressing the challenges of sustaining and managing shared interoperability assets and projects specific to voice and data communications, while looking for opportunities to enhance interoperability and increase the effectiveness and resiliency of existing and emerging technologies” [Charter, Recital E].

MAJOR INITIATIVE: TECHNICAL SUPPORT FOR CALFRN AND FIRSTNET

- Background:
 - From BTOP/BayWEB, the TAC has developed a level of broadband technical expertise not available to other agencies and regions.
- Need:
 - Respond to CalFRN and PSAC technology requests
 - Review FirstNet Program Roadmap and system design elements
 - Make recommendations to BayRICS Board
- Status and Accomplishments:
 - CalFRN: Survey
 - CalFRN: Technology Advisory Group
 - PSAC: Public Safety User Definitions and Use Cases
 - FirstNet: Reviewed State consultation process and public elements of FirstNet design

MAJOR INITIATIVE: VOICE INTEROPERABILITY– REGIONAL FLEETMAP COORDINATION

- Background:
 - BayRICS endorsed Fleetmap Channel Guide as the blueprint for regional channel coordination in 2012.
 - BayRICS published Voice Communications Assessment Report in May 2013.
- Need:
 - Report identified significant accomplishments and ongoing needs for regional interoperability
- Status and Accomplishments:
 - TAC developed a three-phase project plan to address the needs identified in the Report
 - Status on following slides

MAJOR INITIATIVE: BAYLOOP MAINTENANCE, USE AND SUSTAINABILITY

- Background:
 - BayLoop is a point-to point digital microwave network connecting 18 Bay Area Sites, originally installed at a cost of \$6.7 million
 - In 2010, reserved for backhaul connectivity for BayWEB
 - BayRICS receives funding for BayLoop maintenance and monitoring
- Need:
 - Termination of BayWEB project requires reassessment of BayLoop
 - Currently no network sustainment plan
 - Agencies have proposed a variety of alternate uses
 - Probable future need exists for ISSI or FirstNet
- Status and Accomplishments:
 - TAC developed a three-phase project plan to address the use and sustainability issues

TAC PROJECT PLAN FOR P25 VOICE & BAYLOOP

PHASE 1 (Jan. – July 2014)	
P25 VOICE (BAYRICS)	MICROWAVE (BAYLOOP)
Solicit Requirements from Stakeholders– <ul style="list-style-type: none"> Identify key participants (technical, operations, policy, etc.) BayRICS GM to set up Advisory Group Purpose, goals and timeline GM to facilitate initial meetings of the advisory group 	Solicit Requirements from Stakeholders– <ul style="list-style-type: none"> Identify key participants (radio technical, IT technical, operations, policy, etc) BayRICS GM to set up Advisory Group Purpose, goals and timeline GM to facilitate initial meetings of the advisory group
Manage Fleetmap – <ul style="list-style-type: none"> Establish and maintain repository for fleetmap (i.e. SharePoint server, Dropbox, etc.) Provide support process for agencies for system wide fleetmapping questions 	Complete Network Optimization Process Begun in 2013
	Develop and Test Regional Applications (Voice & Data)

Green text = Task Complete

Black text = On Target

Red text = Task Behind Schedule

TAC PROJECT PLAN FOR P25 VOICE & BAYLOOP

PHASE 2 (July- Dec. 2014)	
P25 VOICE (BAYRICS)	MICROWAVE (BAYLOOP)
Develop Inter-System Use Agreements	Develop System Use Agreement
Usage Guidelines: <ul style="list-style-type: none"> who can use when can use how to use Controls Roles and responsibilities 	Usage Guidelines: <ul style="list-style-type: none"> who can use when can use how to use Controls Roles and responsibilities
Develop procedure for System Key distribution <ul style="list-style-type: none"> Determine Manufacturers and Models of radios allowed on the various systems Determine Talkgroups and Radio IDs allowable for interop programming Work with BayRICS agencies to develop template MOUs with partner agencies on allowable use of system for interop, roaming, fees (if any), etc. Develop method of ID activation (i.e. points of contact, timeline) 	Develop Applications Guidelines and Approval Procedure <ul style="list-style-type: none"> Identify existing guidelines (ex. ECOMM) Solicit feedback from working group on additional needs and approvals Develop approval process for stakeholders
Develop and Implement Fleetmap Dispatch Center/End User Education and Training Opportunities	Develop System Use and Sustainability Strategy <ul style="list-style-type: none"> Identify existing guidelines (ex. ECOMM) Solicit feedback on additional needs and approvals Develop approval process for stakeholders

TAC PROJECT PLAN FOR P25 VOICE & BAYLOOP

PHASE 3 (2015)	
P25 VOICE (BAYRICS)	MICROWAVE (BAYLOOP)
Approve and Deploy Use Agreements	Approve and Deploy Use Agreements
Formally Activate Regional Talk Group usage	Deploy <u>interim</u> applications? <ul style="list-style-type: none"> • PSAP to PSAP voice connectivity • Disaster telephone • Info sharing(Aries, CopLink, etc) • WebEOC
ISSI planning <ul style="list-style-type: none"> • Technical requirements • Develop regional deployment plan • Develop regional interconnect plan (BayLoop, etc.) 	ISSI Planning <ul style="list-style-type: none"> • Incorporate BayLoop into regional interconnect plan
Implement Fleetmap Dispatch Center/End User Education and Training Opportunities	
Develop and Implement Training and Exercise for mutual aid (Urban Shield 2015?)	Develop and Implement Training and Exercise for BayLoop Applications (Urban Shield 2015?)

NEXT STEPS

- ▶ Current Initiatives funded through 2015
- ▶ TAC will continue to identify and solve issues
 - Focus on 2016 Super Bowl – will require seamless interoperable communications
- ▶ Begin planning for Inter-Sub-System Interface solutions
 - This technology allows roaming on disparate systems
 - i.e. San Francisco PD officer can drive to Santa Clara County and seamlessly operate on SVRCS system, and still be heard at SF Dispatch
- ▶ Continue to lead efforts with State and FirstNet
 - Prepare for pilot opportunities