Public Safety Radio Strategic Planning Committee
May 14, 2024

Cal OES **(PSRSPC CHAIR)**
California Highway Patrol
Department of Corrections & Rehabilitation
Department of Technology
Emergency Medical Services Authority
Department of Finance
Department of Fish & Wildlife
Department of Forestry & Fire Protection
Department of Justice
Military Department
Department of Public Health
Department of Parks & Recreation
Department of Transportation
Department of Water Resources

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PSRSPC – August 15, 2023

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Item 3: Legislative Update

Cal OES Legislative and External Affairs will provide information regarding legislation that impacts Emergency Communications in California

Item 4: NG 9-1-1 Update

CA 9-1-1 Branch will provide an update on the migration to NG 9-1-1

Item 5: California Radio Interoperable System (CRIS)

Cal OES Public Safety Communications built the California Radio Interoperable System (CRIS) for interoperability and enhanced operability of public safety and first responder communications systems. CRIS removes the barriers of disparate radio systems that make it difficult for a responder on one system to communicate with another responder on another system and replaces antiquated systems.

CRIS Update

- Total of 56 sites installed, 54 in wide-area trunking.
- Scheduled to have 59 sites online by end of this fiscal year
- Currently working on CRIS VHF expansion in Mono and Lassen Counties and 700 MHz installations in various locations throughout the state
- Developing partnerships for CRIS expansion with an additional four rural counties
- Challenge: Acquiring leases and facility upgrades at radio sites owned by partnering state agencies
- Funding model moving forward is dependent upon Public Safety Radio Modernization FY 2024-25 BCP

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Item 5: California Radio Interoperable System (CRIS)

What is needed by agencies for transition to CRIS?
- Forms 115, 601, 606, 607 to start
- Phase II P.25 capable radios

Can my agency use CRIS for primary dispatch?
- CRIS/Cal OES does not have a dispatch center.
- Agencies can connect their own consoles to the core via CSSI.
- Control Stations can be used for dispatching small groups of users.

How does CRIS provide a resilient land mobile radio solution?
- CRIS includes two separate system cores, each with capacity to support all users.
- In a catastrophic event at the primary core, the secondary core will take over.
- All sites are backhauled to both cores.

PSC is working with client agencies to understand the needs as CRIS grows out.

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Item 6: CAPSNET Update

Moises Lopez will provide an update on the deployment of CAPSNET in the State of California

CAPSNET Current State:
1. Currently, 222 sites have MPLS installed
2. Planning for an additional 72 MPLS site installations
3. 58 additional sites expected to be installed by the end of the calendar year
4. Prioritizing installations to support CRIS deployments
5. Planning and implementing circuit cutovers to decommission analog/TDM circuits and infrastructure

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Item 6: CAPSNET Update

CAPSNET Future State

1. Support IP based systems (CRIS, EEW, NG9-1-1, Consoles)
2. Integrate additional backhaul transport beyond MW to include: fiber, private LTE, and satellite
3. Provide secure transport networks
4. Software defined networking routing using MPLS
5. Fully integrated GIS data to include: hardware, software, procedures, staff, and traffic data

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Item 7: Committee Member Briefings

Each PSRSPC committee member will have the opportunity to provide updates regarding public safety communication projects including approved FY 2023/24 Budget Change Proposals (BCPs)

Department of Fish and Wildlife

- Legislation impacting public safety communications - Possible LE encryption requirements

- CRIS Update - CDFW is moving forward with CRIS testing of 20 trunked APX radios statewide

- Anticipated Budget Constraints - No funding source to purchase trunking features for additional CDFW APX radios

Department of Transportation

- Deploy new replacement radios for Districts 3, 4, and 8
- Continue LMR/LTE testing
- Continue to help preserve the 4.9 GHz spectrum for public safety use
- Provide guidelines for use of the 5.9 GHz spectrum
- Deploy LEOS technology
- Assist with MMBN and CAV implementation

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Department of Parks and Recreation

- Working with vendors to seek PTT communication capabilities in specific areas of the state for aquatic operations.
- Working through the radio refresh to equip each officer with an APX8000, will be completed within the calendar year. Will need additional radios for all PY's.
- CRIS deployment: CRIS Talk-Groups have been programmed on the center consoles. Working through programming issues with PSC for portables and mobiles.
- Entered into IAA for dispatching services for 25 Cal-Fire LEO's.
- Anticipated budget constraints: DPR's telecommunications budget.

Department of Forestry and Fire Protection

- Expanding use of CAL FIRE LE Interoperability
- CAL FIRE Law Enforcement on PSEC, SRCCS, CRIS, Parks LE Dispatching
- Evaluating CAL FIRE Interoperability for Incident Management
- MCC Vehicles equipped with APX8500 - membership to CRIS Evaluating need for All Band capabilities in a wildland firefighting environment – Will test BKR9000 and APX8000 series
- New PSC project to utilize CRIS for CAL FIRE intercoms traffic

Department of Corrections and Rehabilitation

Emergency Medical Services Authority

Department of Technology

Department of Water Resources

Department of Justice

California Military Department

Department of Public Health

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California Highway Patrol

Department of Finance

Item 8: Technology Innovation Discussion

Cal OES PSC will lead a discussion on PSRSPC committee member preparations and planning for technology innovations related to public safety communications.

Item 8: Technology Innovation Discussion

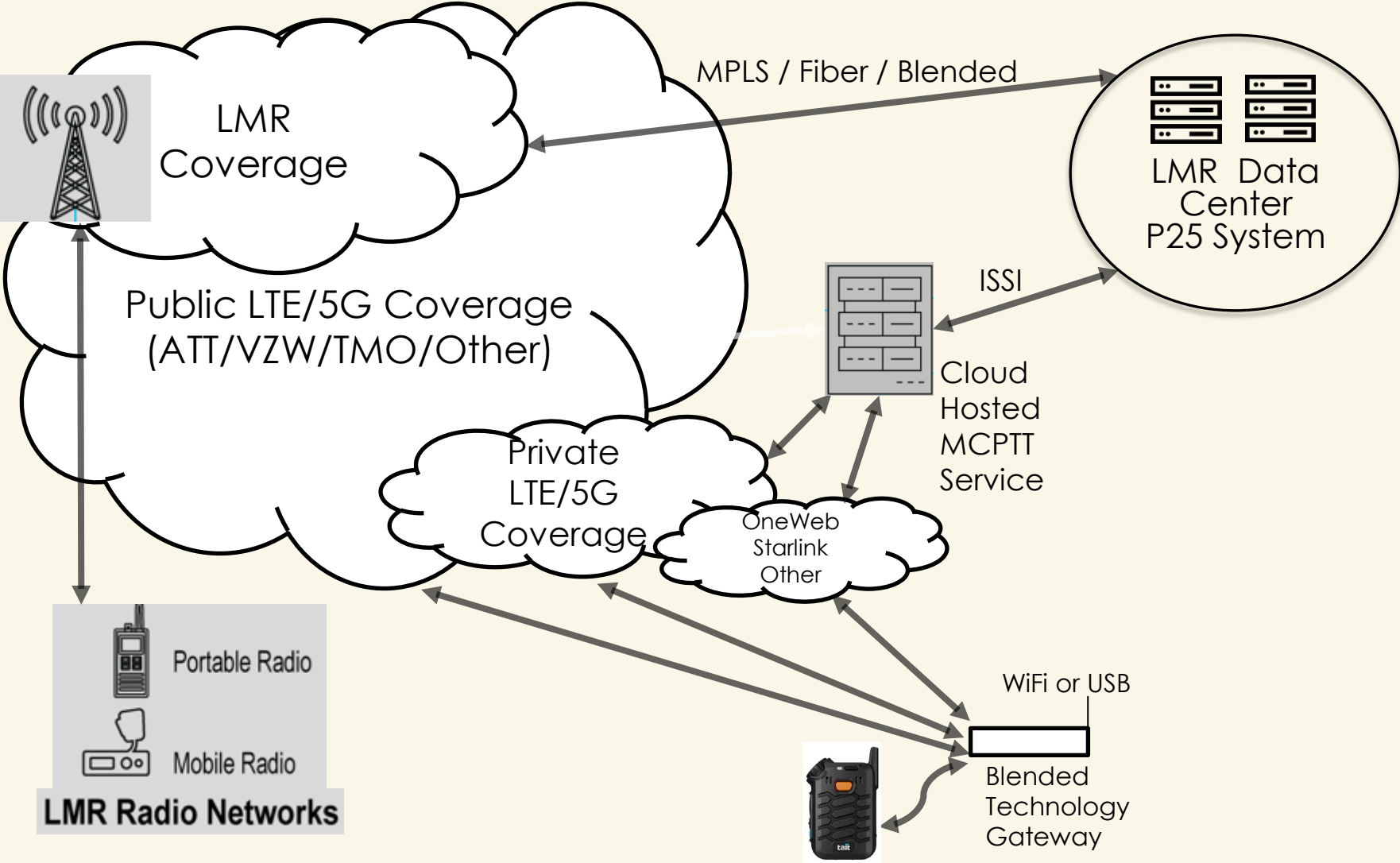**The new BCP – Public Safety Radio Modernization -0690-105-BCP-2024-A1**

What is the long-term objective?
- Statewide radio system that supports operational needs of all agencies
- An equal access radio system that supports state and local agencies
- Expand radio and network coverage to improve radio communications
- Connecting front-line responders to centralized command and dispatch
- BCP provides PSC the resources needed to build out CRIS over next 4 years

What are the implications going forward?
- Need to understand the operational needs of all state agencies
- Adjust the PSC workflow and billing to support transition to CRIS

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Item 8: Future Technology Discussion

- Primary Connectivity is LMR
- Coverage is extended using:
  - Public LTE/5G
  - Private LTE/4G
  - OneWeb/Starlink
  - Other Technologies
- ISSI is used to connect other technologies to CRIS Cores
- Blended Technology Gateway manages multiple connection path in active/active mode to maintain connectivity.
- Opportunity to use additional bandwidth of Blended Technology for other applications.
- Solution must automatically switch between each solution without user intervention
- Solution has been tested and validated

MPLS / Fiber / Blended

LMR Coverage

Public LTE/5G Coverage (ATT/VZW/TMO/Other)

Private LTE/5G Coverage

OneWeb Starlink Other

LMR Data Center P25 System

ISSI

Cloud Hosted MCPTT Service

Portable Radio

Mobile Radio

LMR Radio Networks

WiFi or USB

Blended Technology Gateway

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Item 9: FY 2023 / 24 PSC Billing Rates

Budge Currier will provide an update on FY 2023/24 billing rates and projections for FY 2024/25

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Item 10: Agenda Items for Future Meetings

Board requests for matter to be placed on a future agenda.

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Item 11: Public Comment

Public Comment for matters not on the agenda.

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Item 12: Adjourn

Thank you for attending this joint CalSIEC / PSRSPC meeting.

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