

OFFICE OF THE STATE CHIEF INFORMATION OFFICER



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Public Safety Microwave Network

AUTHORITY

Government Code Section 14931.1

PURPOSE

- ⇒ Provides voice service between dispatch centers and remote radio sites in support of public safety communications.
 - Many points of service are not serviced by any commercial provider.
 - System is designed for higher reliability than is typical for commercial providers.
- ⇒ Provides an operational telephone network that is independent of commercial networks.

Public Safety Microwave Network (Continued)

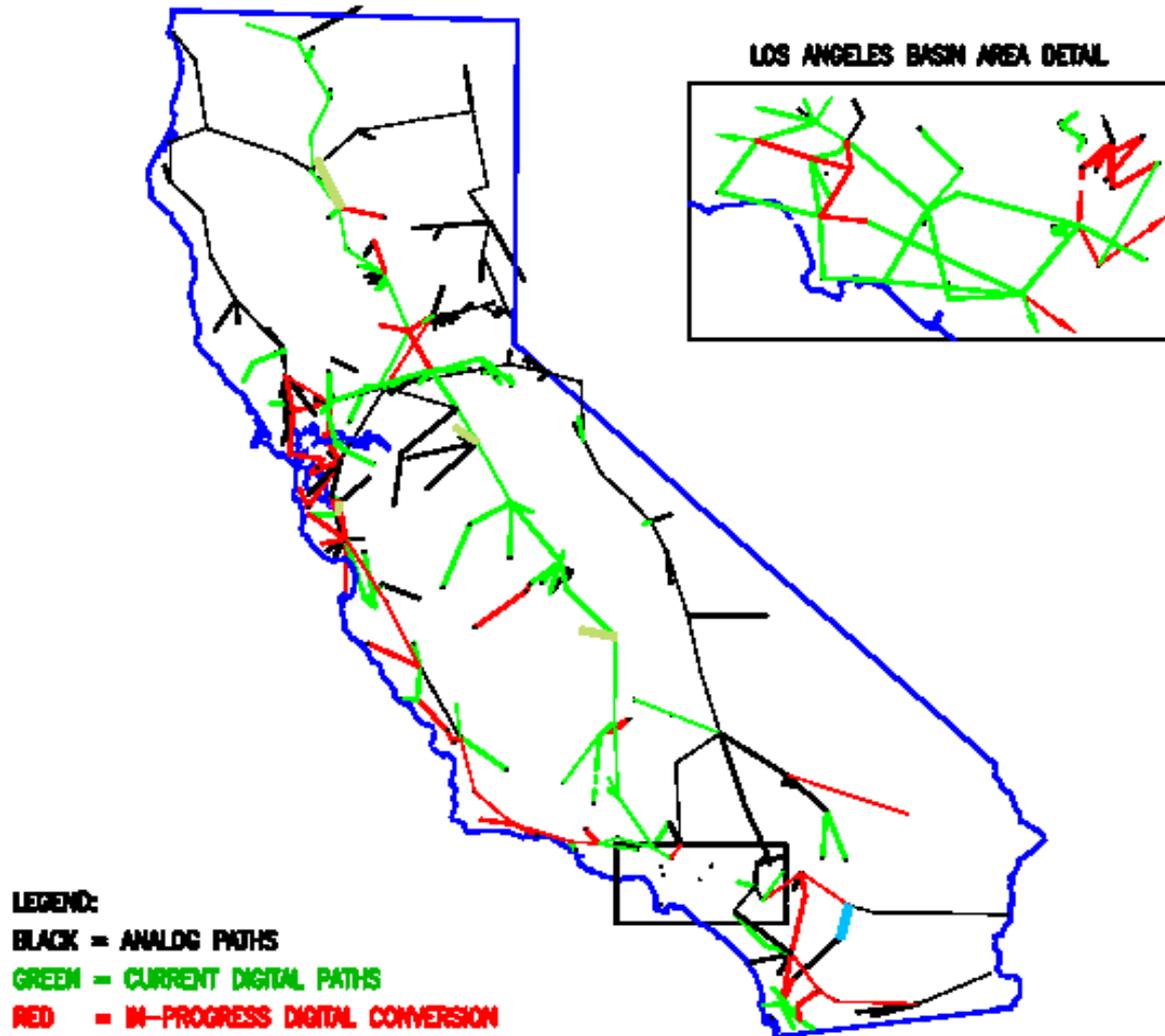
Microwave Subscriber Service

- ⇒ Statewide system with over 260 physical sites.
- ⇒ Integrated network of analog and digital transmission systems.
- ⇒ Carries 1,300+ circuits serving State, Federal, and County clients.
- ⇒ Approx. 8,000 path miles & 101,000 circuit miles.

Major Projects

- ⇒ On-going upgrade to digital service.
- ⇒ Upgrade backbone to OC-3 level service.
- ⇒ Convert to MPLS-based multiplexing.

CALIFORNIA STATE MICROWAVE NETWORK



Current Challenges

Radio Vault Management Issues

- ⇒ Many of the sites cannot be converted to digital operations unless the antenna tower is upgraded
- ⇒ Radio vaults/towers are not managed by OCIO
 - Most are owned and/or managed by CHP, CDF, or DOT
 - Some are leased from private entities
 - Must gain cooperation from these agencies (i.e. they must plan, budget, and execute the tower upgrade)
 - Each agency has other projects that also compete for limited budget dollars. Not all of those projects are communications-oriented.

Current Challenges (cont.)

Funding Issues

- ⇒ All operating costs must be recovered in year expense is incurred
- ⇒ Existing OCIO funding allows for replacement of existing service only
- ⇒ System expansion must be funded by the agency requesting new service (high “buy-in”)
 - Equipment must be funded at time of purchase
 - Labor must be funded at time of installation
- ⇒ Low usage results in high “per circuit” costs