

# California Prison Health Care Services



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Information Officer

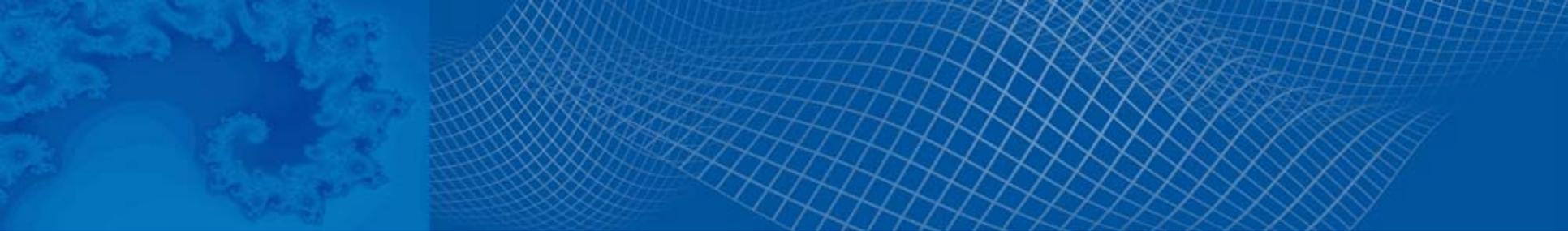


CALIFORNIA PRISON  
HEALTH CARE SERVICES

May 2010

# BROADBAND ACCOMPLISHMENTS

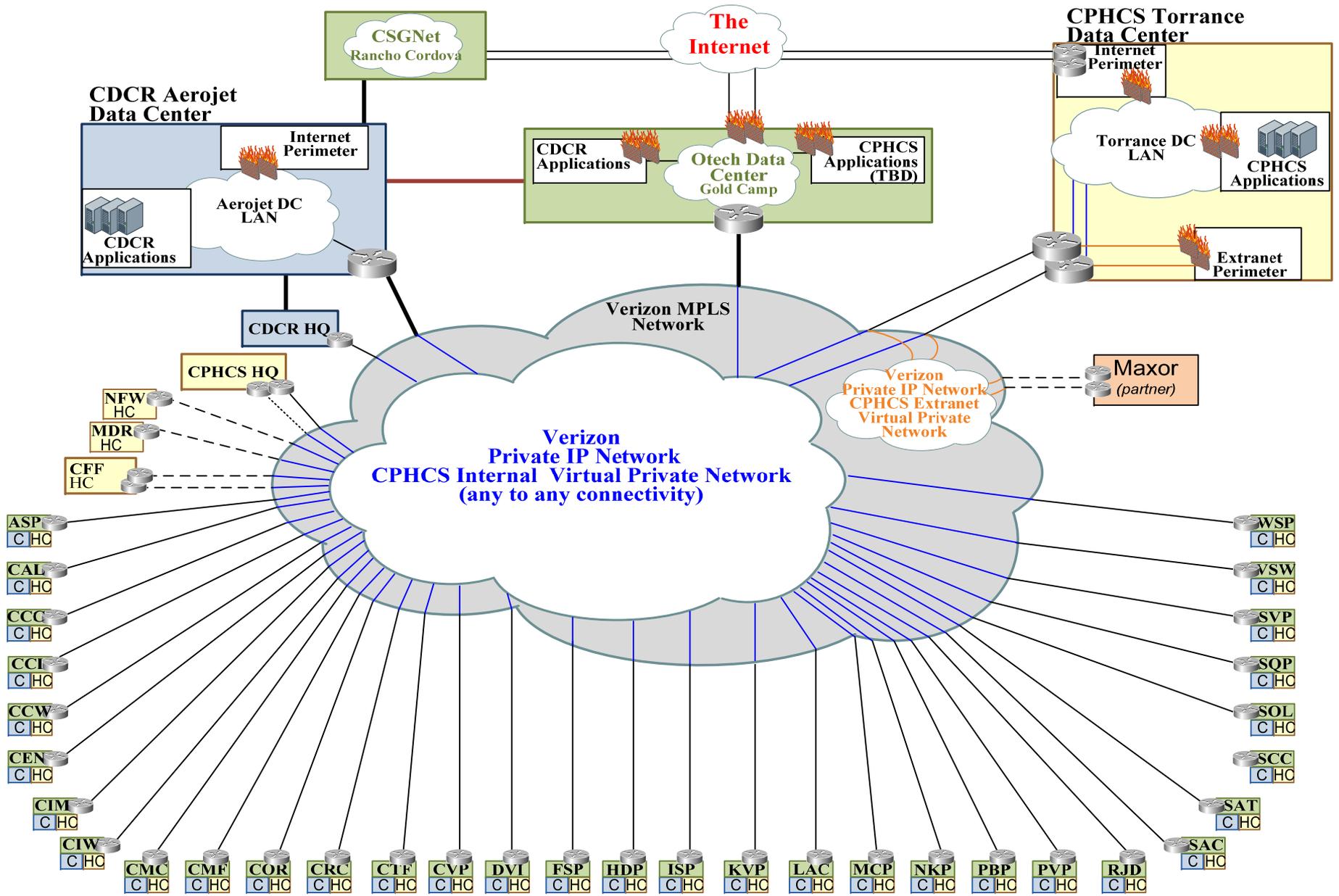
- Contracted with a Telecommunications Vendor to provide CPHCS a MPLS Wide Area Network (WAN)
- Installed 847 wireless access points at 13 Institutions and 1 Headquarters Office
- Developed and in the process of implementing a new Telemedicine Video Conferencing IP Network



 **MPLS Wide Area Network Update**

# MPLS versus Point to Point

- Allows for any-to-any connectivity and is engineered so that the internal connections (hops) are invisible to the end site connections.
- Provides high availability; MPLS network 'mesh' internally, this provides a high availability network inside the 'cloud' that automatically re-routes traffic based on network conditions.
- Most telecom companies are migrating their WAN offerings to MPLS technology and away from other legacy WAN technologies such as Frame Relay and ATM.



# DESIGN

- Adds flexibility to the WAN implementation. The current design allows any site connected to the CPHCS Internal WAN to communicate directly to any other site connected to this WAN.
- Allows CPHCS to take advantage of Virtual Private Networks in the WAN. CPHCS is using this feature to present a logically separate WAN network and connect to trusted partners from the Torrance Data Center.
- Uses the Quality of Service features of the PIP network and has 5 traffic queues enabled along with a real time queue in support of VoIP and/or Video over IP.

# STATUS

- Completed configuration and delivered OC3's at 28 of 33 sites.
- Scheduled the remaining configuration and cutover work: 4 Sites – June 1st and the fifth site (Pelican Bay) - July 2nd.



# Wireless Update

# WIRELESS

- **GOAL:** Provide a LAN-Based wireless solution at all 33 Institutions and 4 HQ Locations
- **BENEFIT:** Provide Health Care Clinicians the ability to perform patient point of care services at areas that either hard wire is unavailable or require increased mobility (e.g. tablets, computers on wheels)
- **STATUS:**
  - Implemented Wireless Hardware at 13 Institutions
  - Finalized Security Design
  - Performed an Independent Black Box Test
  - Performed Institution Pilot at SQ
  - Scheduled a HQ Pilot for May 2010 (501 J Street)
  - In Process of Performing Application Testing



# Video Conferencing Update

# VIDEO CONFERENCING

## ➤ Implemented TelePresence Pilot

- ❖ Connected 3 conference rooms
  - CPHCS and EIS (CDCR) Headquarter Offices
  - North Freeway (CPHCS Contracts and Procurement)

## ➤ Converting TeleMedicine

- ❖ Current State - ISDN with limited bandwidth/quality
- ❖ Future State
  - ❖ Migrate to the MPLS cloud
  - ❖ Implement an Enterprise Telemedicine Data Center Solution
  - ❖ Implement Store and Forward Technologies
  - ❖ Estimated Completion Date – December 2010