

# CASE STUDIES



## US Forestry Services - Emergency Response

**Client:** US Forestry Service

**Project type:** Emergency Response

10/25/03 - 11/7/03      El Cajon and Ontario, CA  
7/15/04 - 7/18/04      Carson City, NV

### Requirements

- Provide high-speed internet connectivity and wireless local area network that is mobile and rapidly deployable and fast to set up in the field to assist US Forestry department's efforts to fight level 1 forest fires in continental US.
- 24X7 on-site and technical support.

### Challenges

- Site conditions range from fixed facility with permanent power and existing structural wiring to mobile command center with no climate control, no permanent power and no existing structural wiring.
- Governmental data security requirements also had to be met.

### Solution

- VSAT Ku based hub-spoke network providing high speed internet connectivity with satellite phones for interlocation telecommunications.
- Used 3DES Encryption hardware and software to secure data.
- All applications routed via CISCO 2750 router and used WiFi access points to provide wireless network.
- Secure, ruggedized fax copier printer capabilities.
- Wireless laptops.

### Results/Outcome

- **California** - Deployed 2 technicians and all equipment from FT facility in Atlanta, GA to fixed facility in Ontario, CA within 24 hours of initial contact. Once on site, system operational within 2 hours of arrival. 2Mbs/614kbs connectivity wired into existing facility switch/hub to assist 60+ USFS reps for 13 days.
- After success of initial deployment, USFS requested additional command center to be deployed closer to level 1 fire. Same technicians deployed to East Cedar Ridge base camp in El Cajon, CA. Within the tent-city command center, interconnected to over 135 USFS reps and users. 2Mbs/614/kps connectivity provided for 11 days.
- **Nevada** - Deployed 2 technicians and all equipment from FT facility in Atlanta, GA to remote location in Carson City, NV within 24 hours of initial contact. Once on site, system operational within 2 hours of arrival. 2Mbs/614kbs connectivity wired into existing facility switch/hub to assist 15+ USFS reps for 2 days



Images



Emergency Response POD



DPAS system built to offer 60 USFS users network connectivity



East Ridge Campsite in El Cajon CA. Provides 20 users with high speed data connections.