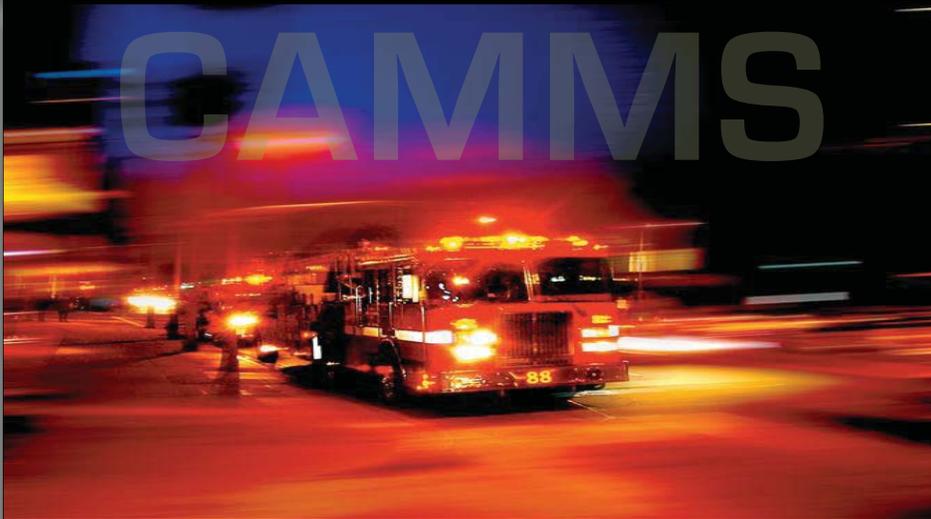


# Global Mesh Technologies



**Command  
Anywhere  
Media  
Management  
System**

# CAMMS™



Communication Anywhere

**Global Mesh Technologies**

[www.globalmeshtec.com](http://www.globalmeshtec.com)

# COMMAND ANYWHERE MEDIA MANAGEMENT SYSTEM



## CAMMS™ Software Features

- **Mesh Formation**
- **IP Camera Discovery**
- **Whiteboarding**
- **File Sharing**
- **TerraViewer Mapping**
- **GPS - AVL**
- **Instant Messaging**
- **Resource Management**
- **Video Call / Conference**
- **VoIP Phone Connectivity**
- **CAMMS™ Link**
- **Mesh Structure**
- **Connection Meter**
- **Internet Sharing**
- **Web Operation**

## Command Anywhere **CAMMS™**

CAMMS™ is a communications software application designed to enable the sharing of data between computers in a variety of wired or wireless environments.

When used in conjunction with off-the-shelf mesh networking hardware, CAMMS™ can be used to establish and control an ad hoc, self-forming, self-healing mobile mesh network; thus, enabling the sharing of data without the use of servers, fixed access points or Internet access. The computers can still communicate should infrastructure be nonexistent or become unavailable.

Additionally, when infrastructure is available, CAMMS™ users can interact and securely share data via the Internet. All of CAMMS™ features are fully accessible using this mode and any computer running CAMMS™, regardless of location, can share and exchange data with the other CAMMS™ users.

CAMMS™ enables interoperable communications for first responders, local, state or federal agencies who need to share incident-specific information and implement response coordination from mobile and/or remote locations.

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A variety of software and hardware offerings comprise the CAMMS™ product range: from field deployable kits and limited duration licenses for contingent users, to full mesh networking solutions.

CAMMS™ Software may be purchased as a stand-alone, web-based communications tool or can be used with a variety of mesh hardware products to enable the formation of an ad hoc mesh network.

CAMMS™ Mesh System is a hardware/software mesh communications solution utilizing a dual radio access point (802.11a 4.9 GHz or 5.0 GHz and 802.11b/g 2.4 GHz) to enable computers as well as handheld WiFi clients to securely send, receive and route data through the mesh.

# CAMMS™ FEATURES

## IP CAMERA DISCOVERY

CAMMS™ IP camera discovery is automatic. No on-site configuration is required. Camera functions such as pan, tilt and zoom are all available via CAMMS™. Wireless or wired cameras may be used.

Live video and audio from deployed IP cameras can be shared over the entire mesh or restricted to selected users. Video can also be recorded to available storage media. Deployed cameras link to CAMMS™ whiteboard, allowing visual reference to camera locations.



Actual video from deployed IP camera

## TERRA VIEWER with GPS-AVL

Active mapping and location solution provides expanded mapping functions including roof top geo-coding, push pin functions and standard road mapping with hybrid street name overlays. The CAMMS™ TerraViewer application allows for individual unit GPS plotting and tracking with time sequenced polling to track movement.

Additionally, remote users (via the Internet) can connect to and map the mesh to display locations of individual users locations in the mesh. Users can mouse over the meshed users (push pin) to display name/ID of vehicle, on-board resources and the distance from one vehicle to another.



Various viewing modes provide further situational awareness:

- Bird's eye view imagery- also pan across map in this view
- Aerial imagery
- Traffic flow

Save map images to share over the mesh, enabling collaboration, tactical planning and decision making. CAMMS™ provides an active GPS-AVL application which ties directly to the CAMMS™ TerraViewer to enable unit movement and tracking as well as positive unit identification.

## WHITEBOARDING

Interactive whiteboarding provides a real time collaboration tool for graphic display of tactical information.

Users can whiteboard over maps, plans or other digital images and can also annotate upon a blank whiteboard.

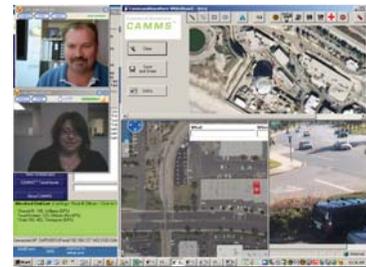


- Multiple whiteboards can be used simultaneously in multi-user modes and single-user modes
- Multiple users can work simultaneously on the same whiteboard

## VIDEO CALL

CAMMS™ supports ad hoc video calling and conferencing. Each user can run multiple concurrent video conference sessions. Calls can be one to one or one to many and each call utilizes only 115kB of bandwidth.

Any user in the mesh can initiate the video call and communicate face to face with others over the mesh.



This feature also allows editing of documents, sharing of applications and desktops among users and the ability to record each call. One-click connect and the option to accept call or decline the call. Using CAMMS™ Web, the Internet gateway feature of CAMMS™, any remote PC which has accessed the local mesh (with authentication) may be called.

## INSTANT MESSAGING

Keeps radios clear for mission critical communications by allowing users to IM to all users or individuals in the mesh. Messages are auto-saved for later review and reporting. The system offers text-to-voice capability and displays sender's call sign and time. An audible tone alerts the recipient of in-coming/new messages.

## FILE SHARING

Any file- text, jpg, digital video, PDF- can be shared over the mesh using "drag & drop" function. Files can be shared with all users in the mesh or restricted and accessed via password. Files are automatically categorized on the CAMMS™ GUI, i.e. shared images, shared video, shared files (other).

## RESOURCE MANAGEMENT

CAMMS™ provides several methods to aid in dynamic resource management, response coordination and situational awareness.

Upon activation, CAMMS™ graphically displays and identifies all users as they enter or exit the mesh. Users are identified by call sign, name, vehicle ID. Identification elements are able to be customized or changed by user.

CAMMS™ TerraViewer and GPS provide situational awareness and enable resource management using active mapping and location applications.

## VoIP PHONE CONNECTIVITY

Built-in PBX allows wireless or wired VoIP phones to communicate using the mesh network.

When no other infrastructure or Internet access is available, the VoIP phone can still provide dynamic communication over the mesh.

Using CAMMS™ Web to broadcast the local mesh to the Internet, VoIP phones enable communication between 'local mesh' users and remote users (with authentication).

# COMMAND ANYWHERE MEDIA MANAGEMENT SYSTEM

Command Anywhere  
**CAMMS™**

<b>CAMMS™ Mesh System</b>
CAMMS™ Software
AP-4900M dual radio access point
12v-5v power supply
<i>Optional accessories:</i>
Low profile multi band antenna (4.9, 2.4, GPS)
Crossover cable 5', 10', 15', 20', 25'
Antenna cable 5', 10', 15', 20', 25'

Command Anywhere  
**CAMMS™  
LITE**

<b>CAMMS™ Lite</b>
CAMMS™ Lite Software, use with 2.4 GHz hardware

Command Anywhere  
**CAMMS™  
LITE 48**

<b>CAMMS™ Lite 48</b>
CAMMS™ Lite 48 Software, via USB flash drive, 48 hr time-out, deployable on scene

Command Anywhere  
**CAMMS™  
WEB**

<b>CAMMS™ Web</b>
CAMMS™ Web Software, web enabled

Operating requirements: Windows 2000, Windows XP, Windows Vista with suitable hardware

## CAMMS™ Hardware

<b>CAMMS™ DFK - Deployable Field Kit</b>
<ul style="list-style-type: none"> <li>▪ Rugged, self-contained mesh repeater / camera system for rapid deployment of surveillance or mobile communication devices</li> <li>▪ Allows direct connection of computer system</li> </ul>
<b>CAMMS™ View Building Security Surveillance Module</b>
<ul style="list-style-type: none"> <li>▪ Enables CAMMS™ users to connect wirelessly to building/location's existing surveillance system and view digital files of building floor plans and video from existing surveillance system over the mesh</li> </ul>
<b>CAMMS™ CommPack</b>
<ul style="list-style-type: none"> <li>▪ Wearable IP video camera/sensor system</li> </ul>
<b>CAMMS™ Barn Mode</b>
<ul style="list-style-type: none"> <li>▪ Wireless centralized data backup</li> </ul>



Command Anywhere  
**CAMMS™**



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