

# AATCOMM TCRS™

## Tactical Communications Recording System



*Captures radio communications traffic missed by central dispatch systems . . . securely, reliably and in the background . . . automatically, without burdening field personnel . . . from the moment the command vehicle arrives at the scene until it returns from deployment.*

*Radio Frequency Agile - provides simultaneous coverage of many tactical radio channels . . .*

*Restores missing links in the communications time-line, leading to fact-based incident reconstruction in a manner simply not seen previously using commercial off-the-shelf products . . .*

**AATCOMM TCRS - Your Record on the Ground!**

## Key benefits of the TCRS - Tactical Communications Recording System Vehicular Component:

- The mobile recording system starts up and shuts down automatically according to the requirements of the agency and functions like a "black box" system. No human intervention is required for normal operation.
- A system status display located "up front" in the center console of the vehicle where it may be seen by a commander or his chauffeur confirms that the system is operational whether stationary or in motion. At any time on the way to – or during - deployment a portable or mobile radio may be "keyed up" and the status display confirms radio reception and recording.
- Up to eight (8) radio receivers can be embedded in the system, serving as an independent radio communications source for an all solid state tactical recorder module, such that eight or more tactical communications channels may be recorded simultaneously. Scanning receivers may be employed to provide coverage of a larger number of channels.
- Records voice communications as well as Unit ID, emergency or "Mayday" signaling and associated channel designator providing confirmation of the radio channel that the signal was received on as well as the unit originating the call.
- The system employs onboard wireless technology to upload voice and data to an agency LAN/WAN connected data network upon return from field deployment – or real-time from the field - when appropriate infrastructure is available.
- The mobile system contains auxiliary voice and data output interfaces for connection to third-party subsystems capable of providing an alternate or ancillary in-field link for real-time or "live" monitoring of an incident when desired - or for other systems that may need or benefit from such data.
- Control logic output port available to control external devices when desired.
- The mobile system provides 30 or more days of self-contained voice and data storage. Purging of data occurs on a first-in first-out basis.
- The system is designed to survive the rigors of rough field deployment. Housings and internal structural components use heavy-gauge welded and anodized aluminum. The TCRS is shock-mounted and RFI and surge protected. The system employs solid state memory; there are no conventional computer hard disk drives utilized.



In addition, each vehicular recording system or group of vehicular recording systems is associated with a companion intermediate server/computer workstation employed to collect voice and data from command vehicles via a wireless connection upon return to quarters after deployment - or from the field when supporting wireless infrastructure is available.

## The TCRS Companion Intermediate Server or Workstation - CIS/WS - a key subsystem

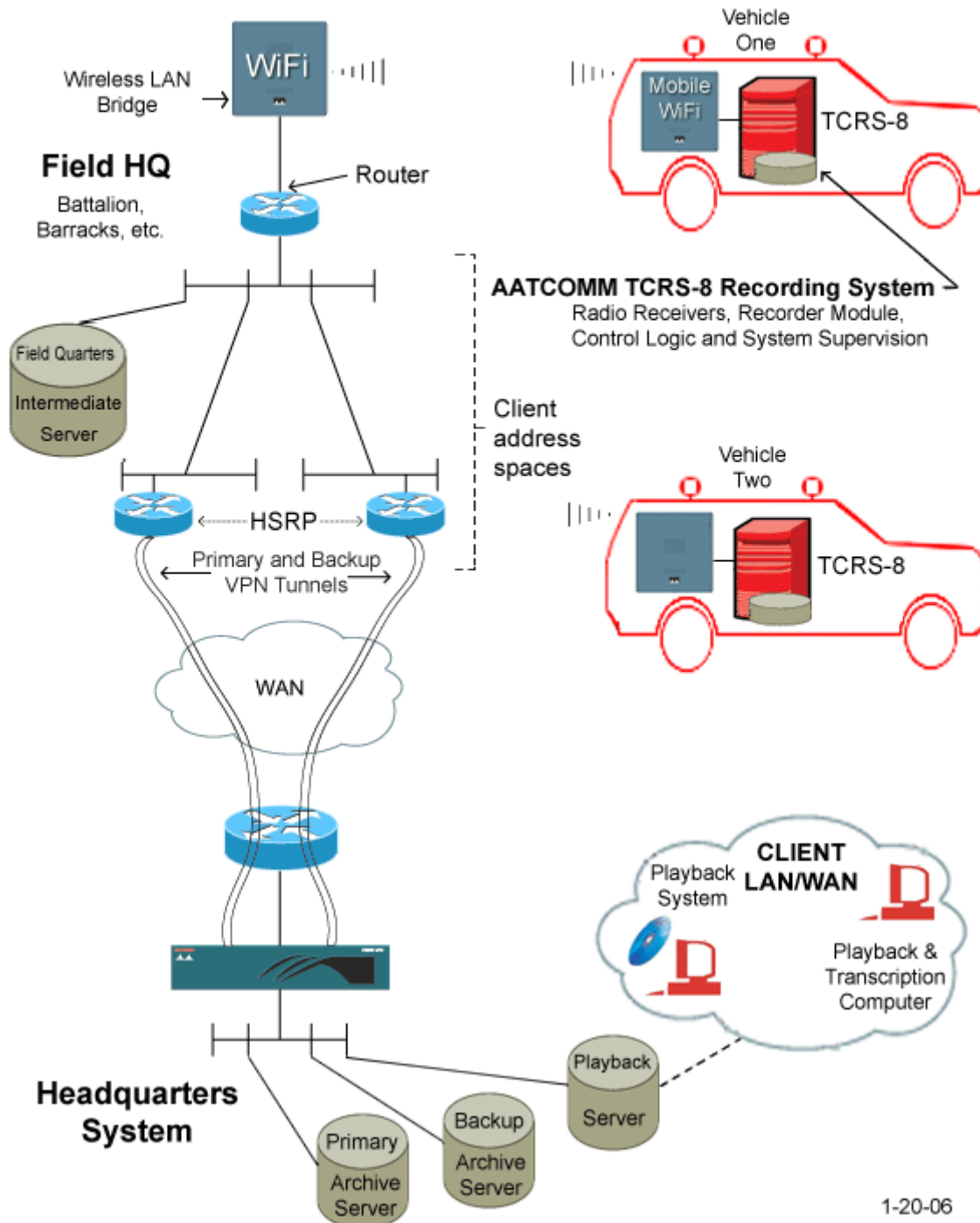
TCRS Companion Intermediate Server/Workstation highlights:

- Data collection, buffering and pass-through to a centralized archive server system when specified.
- Local playback of tactical communications recordings, optional.
- Local archive to secure and robust RAID1 mirrored or RAID5 disk array storage options.
- Archive to DVD-RAM removable media, optional.
- On-demand only, DVD-RAM removable media storage as backup to systems designed for centralized remote archiving.
- Secure wireless connectivity to the mobile tactical communication recording system.

Enterprise-wide solution:

## Enterprise Tactical Mobile Communications Recording System

Network Logical Schematic



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In an enterprise-wide system, the TCRS Companion Intermediate Servers located at each field headquarters, battalion or barracks may be networked via a LAN/WAN or protected **Virtual Private Network** to a fully redundant **Centralized Archive and Playback System – C.A.P.S.** - as shown above. **C.A.P.S.** systems are accessible for search, retrieval, playback and transcription activities using an intuitive remote access software application residing on client provided desktop computers.




Users of the playback software may search for recordings using a number of parameters, among them, date, time, duration of transmissions as well as battalion or troop and employee or Unit ID. Users may search and retrieve "Mayday" messages when these are preceded by the emergency button press or "man down" feature of a tactical radio. Playback software provides a "time clock" function indicating the time of first transmission of individual personnel as well as accumulation of transmission times and the time of the last transmission for a given incident by individual field personnel.

A National disaster on the scale of September 11<sup>th</sup> - or the more recent devastation of New Orleans by hurricane Katrina - each help to teach us the value of tactical communications recording systems that make good use of public infrastructure, when infrastructure remains intact, *but which are also designed to function as standalone systems when support infrastructure is no longer available.*

**AATCOMM TCRS System** mission-critical data resides simultaneously in up to four locations: at the vehicle for 30 to 60 days – or longer; within the robust companion intermediate server for a year or more, on removable DVD-RAM, when specified - and at the **C.A.P.S.** system for 3, 5 - or even more - years.

Retrieval options include secure wireless access to the vehicle system directly, access at the Companion Intermediate Server/Workstation or throughout the enterprise using a "thin client" application residing on PCs when a C.A.P.S. system is specified.

**AATCOMM TCRS** systems employ:

- Recording technology from 
- Tactical Radio systems by *MOTOROLA* 
- Wireless appliances and networking components from 
- TCRS vehicular system designed and built by **AAT CSC**

TCRS – a systems integration product of **AAT Communications Systems Corporation**

Interested in adaptation to unique client requirements? Please inquire.

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