

# Mobile Data System Solutions

## IQ Mobile Server™



RadioMobile's proprietary mobile data system is an end-to-end private conventional two-way data network that handles exchange of dispatch, status and other necessary information between hosts and mobile subscriber devices. The system can work in conjunction with other public & private data networks of varying bandwidth. The system also supports interfaces with other hosts including Computer Aided Dispatch (CAD), Automatic Vehicle Location (AVL) services and mapping solutions. The end-user subscriber devices can include mobile data computers (MDCs), tablets and smart phones. This mobile data system design varies by implementation depending on factors including network speed, coverage, utilization, subscriber base and backhaul availability.

The IQ Mobile Server Suite forms the core of RadioMobile's mobile data system solutions offering. It is built on a highly scalable platform with open interfaces and a robust database design capable of processing thousands of transactions per second.

IQ Mobile Server functions can be classified into three main categories:

- **Operations** (network control, site selection, gateway, interface and link operations)
- **Monitoring** (site equipment, server health and subscriber devices)
- **Management** (administrative management functions and configuration of the mobile data system components)



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## Mobile Data System Operations

- End-to-end mobile data system traffic routing (from host to mobile)
- Network control of traffic between the various network types (private, public, other)
- Site selection mechanism based on single/multi frequency single/multi site combinations
- Gateway services for mobile data traffic
- Interface(s) with single/multiple hosts (CAD, AVL, Mapping)
- Internal communication across servers via shared database and/or TCP/IP connections
- Network health check data exchange across devices
- Multi-threaded link operations of various sites/channels of mobile data system

## Mobile Data System Monitoring

- Web-based monitoring of all aspects of the mobile data system
- Provides information about alarms generated from various equipment including: base stations, backhaul and any other network devices
- Provides key statistics across the system at a channel and/or mobile and/or link level
- Accessible via internal customer private network such as intranet

## Mobile Data System Management

- Management of system alarms generated due to equipment malfunction and/or data flow interruption
- Administrative system control options for resetting base stations, maintenance and troubleshooting
- Ability to control post-alarm actions such as email, page and text alerts based on sequence of events

### Mobile Data Hardware Solutions



Competitive pricing  
Public/private network compatibility  
Ruggedized design for in-vehicle use

### Mobile Data Software Solutions



CAD and mobile software  
Customized layouts and interfaces  
Network efficiency independent