OrbCAD
Computer Aided Dispatch and Automatic Vehicle Location System

The OrbCAD Advantage:
- Quicker response to disruptions in service
- Extensive information collected for informed planning and operation decisions
- Increased safety for operators and passengers
- Improved dispatch and operational efficiency
- Improved overall reliability of service increases ridership
- Takes the guesswork out of schedule and resource allocation
- Resolve customer complaints

A fully integrated CAD/AVL solution

Xerox provides public transit agencies with a fully integrated real-time solution featuring GPS-based computer-aided dispatch (CAD), automatic vehicle location (AVL) systems with mobile voice and multi-modal wireless data communication, and two-way messaging capabilities.

Our OrbCAD application is the central core of our solution that agencies can use to manage their fleets 24 hours a day, seven days a week. Designed specifically for transit operations, OrbCAD has proven stability and reliability, a fault-tolerant design with redundant communications, multi-modal fleet support, scalable architecture, support for large fleets, complete restoration features, and a large number of features and capabilities that can help agencies move into the future. Major system features include, real-time performance and incident management, route schedule adherence, voice capabilities, remote vehicle health monitoring, and analytics.

Our system design allows for third-party integration and data extraction to provide robust and dynamic reporting, allowing transit agencies to make better informed decisions.

Our open and modular architecture is compatible with industry standards, allowing for growth in functionality, performance, fleet size, future communication options, and new technology insertion.
Computer Aided Dispatch:
- Two-way data messaging to minimize voice traffic
- Vehicle status for schedule and route adherence, deadhead, and operator log-on
- Incident form templates with auto-fill option
- Extensive reporting tool for historical data review, documentation, trend analysis
- Sorting and filtering of performance and incident queues
- Emergency alarm/monitoring
- Schedule modifications and extra work
- Flexible call processing capabilities
- User-defined priority, color, and audible characteristics of incidents
- Voice and message calls to single or multiple vehicles
- Support for multiple/simultaneous fleet types (e.g., fixed route, rail, paratransit, maintenance, supervisor)

Automatic Vehicle Location:
- Real-time vehicle locations
- Ability to create and save customerized map views
- Display vehicle route information
- Zoom in/out to selected routes and vehicles
- Dedicated automatic emergency alarm map
- View landmarks, street names, time-points, exact latitude/longitude coordinates
- Voice and data calls to vehicles in a geographic area
- Create detours

Systems Integration:
- Voice and data communications systems
- Advanced Traveler Information Systems
- Planning and scheduling systems
- Maintenance systems
- Automatic Passenger Counters (APC)
- Google General Transit Feed Specification (GTFS)
- Fare collection systems
- Security and surveillance systems
- 511 Integration

Contact us.
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