Improving Traffic Flow Through Agency Collaboration in Florida, South Carolina and California using ATMS.now.

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• Proven, Scalable Central Management Platform
• Command post for real-time traffic operations
• Multi-user Client-Server Application
• Proven and reliable (over 200 deployments)
• Interagency Tools and Collaboration
System Architecture

- Microsoft .NET framework
- Communications using TCP/IP, RS-232 (serial)
- SQL Database format
- GIS (ESRI) controls
- Bing™ Maps
- Embedded Crystal Reports
- XML Data exporting
Overview

Interface

Functionality

Modules

Goals

Examples

Summary
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- Controllers
- Video Detection
- PTZ Cameras
- CMS
- Network switches
- Road temperature sensors

- Opticom
- Wavetronix Radar
- School zone flashers
- Adaptive signal control
- Transit Priority
- Emergency response
Goals as Traffic Signal Operators

- Safely Operate/Manage Traffic Signals
- Efficiently Time Traffic Signals
  - Reduce Travel Time, Delay, Stops
  - Reduce Emissions, Fuel Consumption
- Troubleshoot and Maintain Signal System
- Archive Data for Analysis
- Generate Performance Measures
- Flow of Information is a Major Impediment
Flow of Information Related to ATMS.now

- Signal Timing Data, Settings, Performance
- Real-Time Information and Status
- Real-Time Plans and Patterns
- Monitoring and Surveillance
- Asset Management and Dispatch
- Provide Jurisdictional Permissions
Example 1: SunGuide (Florida)

- SunGuide (FDOT D6) and City of Jacksonville
- Incidents are Processed by SunGuide
- SunGuide can Authorize Alternative Routes
- SunGuide can Enable Plans on the City’s ATMS
- Plans Facilitate Diverted Traffic
Example 2: SCDOT

- Seven (7) District SCDOT ATMS.now System
- 2,500+ Intersections Online; Potential for 4,000
- All ATMS.now Data Housed in One (1) Location
- SCDOT can Monitor Traffic Signals Statewide
- Integrates with Asset Management System
- Jurisdictional Restrictions
- Ensures Interagency Coordination and Sharing
Example 3: Santa Clara, CA

- Santa Clara & Santa Clara County
- 50 Central Masters Operate Traffic Responsive
- Patterns are Forwarded to the City’s ATMS.
- City Initiates Compatible Patterns
- Ensures Best Possible Interagency Coordination
• Information and Data Flow is an impediment
• ATMS.now is a flexible software platform
• ATMS.now makes sharing simple and secure
• Several ways to customize ATMS.now
• Results are better signal operations
  • Reduced Stops, Delays and Emissions
  • Helps attain regional environmental initiatives
• Can generate regional performance measures