



DCMS.2

Data Collection and Management Service

Data Collection and Management Service (DCMS.2) Specifications

The Data Collection and Management Service (DCMS) shall facilitate a secure Internet-based traffic data collection and distribution system in order to automate the real-time and archived traffic data management process. The DCMS.2 service shall convert intersection, mid-block, tunnel, or freeway detection systems into automated, virtual count stations that gather and display traffic data in real-time – without interruption.

The advanced DCMS.2 network system shall utilize open-architecture software, including Microsoft® Server technology that complements the Autoscope® Pro line and Autoscope Terra Technology video vehicle detection systems. DCMS.2, when combined with Autoscope, is designed for use on an extensive list of freeway, intersection, bridge, tunnel, railroad, traffic monitoring, incident prevention, and transportation system applications.

The System Process may include:

- Providing site surveys to determine the best type of communications link, type of communications required, hardware requirements, and power requirements, and to evaluate the present detection configuration
- Procure communications modems, acquire IP addresses, initialize modems, and forward this information to authorized personnel
- Implementation of the DCMS.2 website with vehicle data information and maps
- Installation of necessary communications devices as required (modems, connections, or protocol compliance), initiate, and maintain the communications service for each site

DCMS.2 shall provide system configuration updates, reporting tools, software updates, and system backups, as well as technical support (at an additional cost, as defined in the terms of the annual service agreement).

The DCMS.2 server shall be able to generate the following details:

- Custom, automated reports (PDF, MS Excel, Word), and system communication alarms
- Push XML data via FTP
- Push traffic management data dictionary TMDD data using FTP
- ITS Center-to-Center (C2C) architecture
- Rich Internet or Intranet Application (RIA) via Internet Explorer 7.X and Firefox 2.X
- Site administrative management widgets to create user profiles and access privileges
- Data detector management using administrative widgets
- Automated Autoscope detector information updates
- Geo-coordinated sensor locations
- Interactive mapping using Navteq map data
- Web2.0 Internet Platform
- Web based controls for user-definable widgets to customize data browsing and reporting
- Microsoft® .NET Framework, including support for ASP.NET
- Microsoft® Excel®, SQL, XML, Jscript database technology



Specification



CONTROLLERS

SYSTEMS

AUTOSCOPE

ACCESSORIES

SIGNALS

Technical Support by the service provider shall include:

- Administrative documentation
- E-mail correspondence
- Less than .1% data gaps
- Less than 1% web server down time

Security of the DCMS service provider shall include:

- Multiple secure Internet connections
- Daily server backups
- UPS power backup
- 12/5 PST network monitoring