Implementation of a Thin Client Traffic Control System

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October 1, 2013
City of Santa Monica

- 8.3 Square Miles
- 13 Miles West of Downtown Los Angeles
- 8 Miles North of LAX
City of Santa Monica

- 8.3 Square Miles
- 13 Miles West of Downtown Los Angeles
- 8 Miles North of LAX
- Bounded by Pacific Ocean and City of Los Angeles
City of Santa Monica

- World Class & Regional Destination
  - Santa Monica Pier
City of Santa Monica

- World Class & Regional Destination
  - Santa Monica Pier
  - Third Street Promenade
City of Santa Monica

- World Class & Regional Destination
  - Santa Monica Pier
  - Third Street Promenade
  - Beaches
City of Santa Monica

- Technology & Media Hub

Map courtesy of represent.la
By the Numbers

- 91,000 Residents
- 100,000 Employees/day
- 20,000 Visitors/day
Traffic!

- Then
Traffic!

Now
Traffic Signals

- 175 Traffic Signals
  - 2070 Controllers
  - McCain 2033 Firmware
  - Cisco Network Switches
## Traffic Signals

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- 58 Iteris Video Detection Locations
- 100 Wireless AP’s
Traffic Management – i2TMS

- Installed i2TMS in 2004
- Traditional “thick” server-client architecture
  - Excellent GUI
  - Lengthy Install Process
  - Multiple Servers
  - Large GIS Map
  - Non-uniform Updates
  - Resource Heavy
  - Complicated process to add new intersections
Traffic Management – MaxView

- Installed MaxView in August 2013
- “Thin” server-client architecture
- Microsoft Silverlight
- Microsoft .NET 4.0 Framework
- Windows and Apple OS X workstations
- Simultaneous clients
- Office for ATMS
Thin Client Advantages

- Minimal IT expertise needed
- Web-Based with Standalone Application Option
- Silverlight plug-in installs with 1-click
- Single physical server deployment
  - Database
  - Field Communications
  - Application Framework
  - Cost Effective
- Automatic upgrade of all client workstations by refreshing web browser
Thin Client Advantages

- Simple GUI
  - Responsive and Intuitive
  - Looks and feels like other MS Office Applications
  - Great for engineers and technicians

- Mapping
  - Out of the box Bing Maps
  - Road, aerial, or graphic
  - Real-time traffic and incident data

- Intersection Configuration
  - Drag and drop indications
MaxView Demo 1

- Scheduling
MaxView Demo 2

- Demo Live Traffic & Group Plan View

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Questions?

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