Cost Effective Implementation Of The New Real-Time System Management Information Program (RTSMIP)

TexITE

September 15, 2011
RTSMIP – The Early Days

- Section 1201 of SAFETEA-LU (signed by Pres. Bush August 10, 2005) “requires the Secretary to establish a RTSMIP that provides, in all states, the capability to monitor, in real-time, the traffic and travel conditions of the major highways of the United States and to share these data with State and local governments and with the traveling public.”
RTSMIP – Now A Rule!

• 23 CFR Part 511 effective December 23, 2010
• Interstates shall be completed no later than November 8, 2014
  • 20 minutes or less reporting
• State-designated metropolitan area routes of significance shall be completed no later than November 8, 2016
  • 10 minutes or less reporting
• Metropolitan areas (MSAs) greater than 1M population
  • Dallas-Fort Worth-Arlington, TX
  • Houston-Sugar Land-Baytown, TX
  • San Antonio-New Braunfels, TX
  • Austin-Round Rock-San Marcos, TX
RTSMIP – The Details

• Eligibility for Federal funding
  • Planning, deployment and operation, including preventative maintenance
    • National Highway System (NHS)
    • Congestion Mitigation and Air Quality Improvement (CMAQ)
    • Surface Transportation Program (STP)
  • Development and implementation
    • Statewide Planning (SPC)

• Match
  • Solely for Interstate – 10% (90% Federal share)
  • Non-Interstate highways – 20% (80% Federal share)
RTSMIP – The Details

• Provisions for traffic and travel conditions reporting
  • Minimum requirements
    • Construction activities that close or reopen roadways or lanes
    • Roadway or lane blocking incidents
    • Roadway weather observations
      • Hazardous driving conditions and roadway or lane closures or blockages
    • Travel time information (metropolitan areas)
    • Information accuracy
    • Information availability
RTSMIP – The Details

• Provisions for traffic and travel conditions reporting
  • May be established using:
    • Legacy monitoring mechanisms
    • A statewide incident reporting system
    • New monitoring mechanisms
    • Value-added information products
    • A combination of monitoring mechanisms and value-added information products
RTSMIP – The Details

• Data quality
  • States shall develop the methods by which data quality can be ensured
  • States shall receive FHWA’s concurrence that methods provide reasonable checks of the quality of the information made available

• Participation
  • Highway agencies
  • Public safety agencies
  • Transit operators
  • Other operating agencies necessary to sustain mobility

• Update of Regional ITS Architecture
  • Determine whether Regional ITS Architectures explicitly address real-time highway and transit information needs and the methods to meet such needs
  • If necessary, Regional ITS Architectures shall be updated to address coverage, monitoring systems, data fusion and archiving...
RTSMIP Coverage Today?
INRIXTraffic.US – What Is It?

- Public-private partnership available to all public sector agency staff and operations contractors
- Register at http://inrixtraffic.us/Register.aspx
  - Takes about 24 hours to approve your account, so it is not like signing up for a “regular” website.
- Please tell your partners – City, County, MPOs, fire, police, emergency management, etc.
INRIX Traffic.US – Coverage
INRIX Core Coverage – 9,141 centerline miles
INRIX Traffic US
INRIX Core Coverage – 1,780 centerline miles
INRIXTraffic.US
First Free Traffic Operations Service for Transportation Agencies Nationwide

• Over 700 agency personnel in over 45 states accessing the site
• Unique access to traffic flow data in cities, statewide & across state lines
• Provides a complete, real-time picture of current traffic speeds and confidence parameter for 200,000+ miles of roads nationwide
• Provides statewide and over-the-border views of traffic flow of value particularly in times of crisis or during heavy travel periods
• Used daily / weekly by most agencies
• Agencies say data reflects actual conditions and is useful to them
• Feedback received on suggested improvements
  • Updated base map to address some items
INRIX Traffic US Closures

Automated Process (XML Schema) Available
# Agency Partner Program

<table>
<thead>
<tr>
<th>Partner Provides to INRIX</th>
<th>INRIX Provides to Partner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor data in real time</td>
<td>Sensor Health</td>
</tr>
<tr>
<td>CCTV feeds</td>
<td>Image direction label and distribution</td>
</tr>
<tr>
<td>Incident feed in real time</td>
<td>Distribution and crowd source ratings</td>
</tr>
<tr>
<td>Planned Roadway Closures</td>
<td>Aggregation platform and distribution</td>
</tr>
</tbody>
</table>

![Map of traffic conditions](image)
INRIX Smart Driver Network – North America

Billions of real-time GPS probe reports per month (15-minute time slice below)

May 2011
INRIX Smart Driver Network
INRIX Key Customers

Automotive & Portable Navigation

BMW
Fleet & Enterprise

GARMIN
Ford
ASUS
ATX
Nav N Go
 Land Rover
MINI
TWEDDELE GROUP TECHNOLOGIES
TomTom
Siemens VDO
Navigon
Mercedes-Benz
Clarion
DElphi
JVC
Continental
Harman/Kardon

Mobile

telenav
INFOxx
At&t
Bellsouth
MobileGates
Telmap
INNYSync
Motorola
TCS
Prompt
ALK Technologies
Sprint

Internet & Media

WDT
ANWB
mq
mapquest
Yellowbrix
BeaTheTraffic.com
Total Traffic Network
Microsoft
Pennsylvania Department of Transportation

Public Sector

ITIS Holdings
SEH
Senoza
PBSJ
SCDOT
Cambridge Systematics

Fleet & Enterprise

UPS
Tracker
GeoDecisions
SuperShuttle
Tracker
TrakIt
InterGIS
Our Vision

Revolutionize the way people travel from place to place by providing the best traffic information and driver services.
THANK YOU!

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