

Innovative Approaches to Real-Time System Management Information



T3 Webinar
21 May 2014

Ray Murphy, FHWA



Operations
Discipline

SAFETEA-LU 1201

Real-Time System Management
Information Program

23 CFR Part 511



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Real-Time System Management Information Program

SAFETEA-LU, Subtitle B, Section 1201

- Establish a real-time system management information program in all States
- Monitor traffic & travel conditions of the major highways
- Share information to address congestion problems through enhanced operations & facilitate traveler information
- Codified as Part 511 of Title 23 of the United States Code of Federal Regulations – *23 CFR Part 511*

Provisions of 23 CFR Part 511 (1 of 2)

- **Implementation Dates**

- All Interstates within 4 years (November 2014)
- Other metropolitan “Routes of Significance” as identified by States in collaboration with local agencies within 6 years (November 2016)

- **Information to be gathered**

- Construction lane and road closures
- Road- or lane-blocking traffic incidents
- Hazardous conditions & road or lane closures due to adverse weather
- Travel times in Metropolitan areas (“Metropolitan” = greater than 1 million MSA)

Provisions of 23 CFR Part 511 (2 of 2)

- **Regional ITS Architecture Update**
 - Regional architectures to be reviewed & updated as appropriate to ensure addressing RTSMIP provisions
- **Timeliness (age) of information**
 - Construction & Incident information within 20 minutes / within 10 minutes in Metro areas
 - Adverse weather conditions within 20 minutes
 - Travel times within 10 minutes
- **Quality measures**
 - Accuracy of 85%
 - Availability of 90%

Real-Time System Management Information Program (RTSMIP)

- “Kick-off” workshops offered by FHWA Resource Center
 - Not required; about 12-15 conducted so far
 - Help gather appropriate agencies & gain clearer understanding of regulation’s relevance in State, and next steps toward compliance
- Compliance determined by FHWA division offices
 - Use procedures appropriate for State’s processes
- In general, States progressing toward compliance determinations by the end of the year

Data Exchange Format Specification

- **Data Exchange Format Specification (DXFS) completed**
 - Required to be developed by SAFETEA-LU §1201(b)
 - Available on Operations' 1201 web site:
<http://www.ops.fhwa.dot.gov/1201/>
 - DXFS establishes a standards-based specification of key RTSMIP interfaces
 - TMDD, NTCIP, TCIP & other standards referenced
 - DXFS can be used to define the information exchanges across a system-to-system interface to help interoperability of the systems.
 - In addition to DXFS, a Guide is available on how to use the DXFS for specifying implementation of RTSMIP at a State or regional level

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Poll Question #3

Have you been involved with a real time review or do you have a role in this program in your state?

- Very involved
- Somewhat
- Not at all