



AASHTOWare® Trns•port Materials™ Update to the Subcommittee on Materials

August 2009

**By:
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AMRL Liaison to the
Trns•port Materials Technical Review Team**



What Is AASHTOWare?

- AASHTOWare is software developed, supported and maintained through an economical, not-for-profit, pooled-fund process known as the “AASHTOWare Cooperative Software Development” program
- www.aashtoware.org





Who uses AASHTOWare?

- 50 state highway agencies, plus the District of Columbia and Puerto Rico license one or more AASHTOWare products
- 3 Canadian provinces, numerous foreign countries, counties, cities, universities, and consulting firms



AASHTO Trns•port Functional Areas

- Cost estimation
- Contract letting
 - Proposal preparation
 - Electronic bidding
 - Pre-award analysis
- Contract administration
- Construction management
- **Materials management**
 - Incl. Laboratory Management Information System (LIMS)
- Historical contract analysis
- Civil Rights and Labor Management



Materials Management Functionality

- Current software
 - Client/server based Trns•port SiteManager
- Future software
 - web based Trns•port Materials



Trns•port SiteManager



Trns•port SiteManager

- **Materials Management**
 - Establish Material, Producer/Supplier/Manufacturer, Laboratory, Qualifications, and other reference data
 - Sampling & Testing entry & tracking
- **Integration with Construction Management**
 - Establish Item/Material relationships
 - Maintain Global and Contract specific Sampling & Testing Requirements and Frequencies
 - Report Contract Sampling and Testing Deficiencies
- **Laboratory Information Management System (LIMS)**
 - **Released in June 2008**
 - Manage lab workflow attributes for individual labs and users
 - Manage the samples and tests based upon the workflow attributes



SiteManager LIMS Functionality

- Developed and donated by NYSDOT to AASHTO
- Multi-year, multi-million dollar effort
- Client/server platform
- Multiple agencies contributed funding to incorporate LIMS into the generic Trns•port SiteManager product
 - Prime example of member agencies working together for the benefit of all to share costs



Trns•port Materials



What is web Trns•port?

- An initiative to move the Trns•port product line from the client/server environment to the web environment
- Current functional areas already developed:
 - Trns•port Preconstruction™ (Proposal, Letting, Award)
 - Funded through existing license revenue
 - Released: November 2008
 - Trns•port CRLMS™ (Civil Rights and Labor Management System)
 - Funded through project solicitation (12 AASHTO member agencies contributed)
 - Released: May 2009
- Functional areas to follow:
 - Construction, **Materials**, Estimation, Contract Monitoring



Trns•port Materials™

- To include existing client/server based materials management and LIMS functionality in a web based environment
- Technical Review Team (TRT) formed in November 2007 to develop software requirements
 - Participants: FL, KY, LA, MI, MN, NY, OK, SC, TX
 - AMRL representative (Bob Lutz) asked to participate in requirements definition phase
 - On-site meetings at software development contractor's headquarters quarterly, weekly conference calls



Materials TRT Members

- Tim Lindberg (Chair) – South Carolina
- Cindy VonNyvenheim – South Carolina
- Bruce Smith – Florida
- Beth Roberts – Louisiana
- Stewart DeWitt – Texas
- Daryl Bushika – New York
- John Thomas – Oklahoma
- Jim Kochsiek – Minnesota
- Mark Higdon – Kentucky
- Marty Foster - Michigan



Trns•port Materials™

- Schedule:
 - August 2009: Planned conclusion of requirements definition phase
 - Fall 2009: Preparation of project work plan by software development contractor (Info Tech)
 - January 2010: Project solicitation to be released including work plan and business case seeking funding from AASHTO member agencies
 - Spring 2010: Commence development of web based Trns•port Materials project
 - Project end: To be determined by the Trns•port Task Force based on requirements defined by the Technical Review Team (work plan will define start and end dates)



Project Funding

- Two main sources of funding
 - Existing license fee revenue received from the Trns•port product line
 - Method used to fund web Trns•port Preconstruction™
 - Project solicitation
 - Method used to fund web Trns•port CRLMS™ (12 agencies)
 - Amount requested per agency will be based on the project work plan and administrative costs
 - Request to agencies will include option to split contribution over two or more fiscal years



Request to Subcommittee

- Support for project solicitation
- Support for agency staff to participate in the ongoing work of the Technical Review Team as they guide the project through the conclusion of the requirements definition phase and to the end of development



Other Recent AASHTOWare Project Solicitations

- Turbo Relocation – Right of way relocation payment calculations
- DARWin-ME – Pavement design and analysis software based on mechanistic-empirical methods



Questions

- Please contact:
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