



U.S. Department
Of Transportation

Federal Highway
Administration

Memorandum

6300 Georgetown Pike
McLean, Virginia 22101

Subject: **ACTION:** LTPP Directive TDP-54
Release of LTPP Traffic Analysis Software Version 2.0

Date: August 10, 2011

From: Deborah Walker *Deborah Walker*
Long Term Pavement Performance Team

Reply to
Attn of: HRDI-30

To: Dr. Frank Meyer, PM - LTPP North Atlantic Regional Contract
Dr. Frank Meyer, PM - LTPP North Central Regional Contract
Mr. Mark Gardner, PM - LTPP Southern Regional Contract
Mr. Kevin Senn, PM - LTPP Western Regional Contract

Attached is the Long Term Pavement Performance (LTPP) Program Directive TDP-54. This directive announces the official release of the web-enabled version of the LTPP Traffic Analysis Software (LTAS). Details of the functionalities for this new web-based system along with instructions for validating the system are included in the directive. Full implementation of version 2.0 shall begin Wednesday, August 10, 2011.

Please ensure that all personnel involved with the Traffic Program are aware of this new directive. Should you have any questions or would like to discuss this directive, please do not hesitate to contact me at 202-493-3068.

Attachments (2)

FHWA:HRDI-30:DWalker:mad:493-3068:08/10/11

File: c:/mdeaney/directive/traffic/tdp54dir.doc

cc:

Jonathan Groeger
Debbie Walker
Directive Binder
LTPP Team
Official file
Chron

LONG-TERM PAVEMENT PERFORMANCE PROGRAM DIRECTIVE



For the Technical Direction of the LTPP Program

Program Area:	Traffic	Directive Number:	TDP-54
Date:	August 10, 2011	Supersedes:	TDP-53
Subject:	<i>Release of LTPP Traffic Analysis Software Version 2.0</i>		

Purpose

The purpose of this directive is to authorize the release of the LTPP Traffic Analysis Software (LTAS) Version 2.0, which is the first official release of the web-enabled program for processing and reviewing monitored traffic data. The LTPP Regional Support Contractors (RSCs) are to begin using this new program to load, process, and review traffic data effective immediately. However, the RSCs are to continue to use version 1.8a until the end of the validation period (see Validation Process below).

Changes

LTAS now runs using a web-browser. With the release of this version, processing and data storage will now occur on a central processing workstation. The other major functionality changes include the following:

- Flat files are now output to a central location for transfer to the Ancillary Information Management System
- New template access with the minimum requirements for creating agency packets
- Ability to print four graphs per page is available for some graphs

Note: Reports and graphs each open in a new browser window with paging only available for the individual report or graph. They can be printed or exported in Acrobat Portable Document Format (PDF), Microsoft Word or Excel, Rich Text Format (RTF), Comma Separated Values (CSV), or Extensible Markup Language (XML) file formats.

Although the following functionalities are included in 1.8a, they are not included in this version:

- LTPPFILETRACKER is not available because it is no longer applicable to processing
- Agency Graphs (11 Not Available)
 - 4-card vs. 7-card – Yearly; Multi-year
 - 4-card vs. 7-card – Monthly; Month by Day of Week
 - GVW – Weekly; Yearly; Multi-year
 - GVW – Monthly; Month by Day of Week
 - Vehicle Distribution – Weekly; Multi-year
 - Vehicle Distribution – Monthly; Month by Day of Week (%)

- Vehicle Distribution – Monthly; Month by Day of Week (avg)
- Vehicle Distribution – Yearly; Year by Day of Week (%)
- Vehicle Distribution – Yearly; Year by Day of Week (avg)
- Axle Distribution – Weekly; Yearly; Multi-Year
- Axle Distribution – Monthly; Month by Day of Week
- SPS Graphs (9 Not Available)
 - 4-card vs. 7-card – Monthly; Month by Day of Week
 - GVW – Weekly; Week
 - GVW – Weekly; Week by Day of Week
 - Vehicle Distribution – Weekly; Week (%)
 - Vehicle Distribution – Monthly; Month
 - Axle Distribution – Weekly; Week
 - Axle Distribution – Weekly; Week by Day of Week
 - Axle Distribution – Monthly; Month
 - Axle Distribution – Monthly; Month by Week
- STAT_QC Graphs (16 Not Available)
 - A-axle – None Available
 - BC-axle (weight) – None Available
 - BC-axle (space) – Yearly; Year
 - BC-axle (space) – Monthly; Multi-year
 - Class 9 A-axle – Monthly; Month by Date
 - Class 9 A-axle – Multi-year; Years by Date
- 13-Bin Graphs (None Available)

Attachment 1 lists the functionality available in this web-enabled program.

Validation Process

Parallel processing of data using this version of LTAS and version 1.8a should continue to September 28, 2011. This will serve as the validation period to make sure the web-based system is functioning properly. At the end of the validation period (August 10 – September 28, 2011), the RSCs will send the data processed in version 1.8a to the Technical Support Services Contractor (TSSC) so that the processing outputs between versions 1.8a and 2.0 can be compared. The data must be sent on a universal serial bus (USB) drive to the TSSC by October 2, 2011. The TSSC will send the scripts for exports and guidance on the sample of flat files to be used to the RSCs by September 23, 2011. Processing of data using LTAS 2.0 will be suspended from September 29 – October 4, 2011 while the results are compared.

Data Processing Access

LTAS users have individual passwords and roles associated with their responsibilities, as well as individual storage locations on the data processing workstation. Requests for additional passwords should be sent to the Data Processing Workstation Database Administrator.

Distribution of Web-based Software

The web-based software will be available August 10, 2011 in the production instance with individual user passwords. The log-in information for accessing this new web-based system will be provided by the database administrator by the close of business August 9, 2011. Access to the test instance of LTAS for training and testing purposes will continue indefinitely.

Manual Revisions

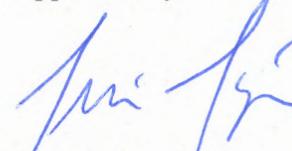
The manuals that explain the software, describe the database structure, and define the quality control and codes information are available in LTAS 2.0 under the Users Manuals menu option. The versions are dated and with the release of this software, notification of updates to any of these manuals will now be sent by e-mail to the users.

Questions or Issues

Questions concerning this directive should be addressed to the FHWA LTPP program office. If there are problems implementing this directive, please submit a Software Performance Report (SPR) according to the current Information Management System SPR related directive.

Prepared by: FHWA/TSSC

Approved by:



Aramis López, Jr.
LTPP Team Leader

ATTACHMENT 1

Software Functionality

User Interface

- ◆ Loading Data
- ◆ QC Data
- ◆ Summarize Data
- ◆ Purging
- ◆ Modify Record Status
- ◆ Copy Data
- ◆ Remove Data
- ◆ Reset IMS Date
- ◆ User Manuals

Table Updates

- ◆ Traffic Analysis Tracker
- ◆ File Tracker
- ◆ SHRP Information
- ◆ Site Equipment Information
- ◆ Sheet 7

Reports (13 Available)

- ◆ Agency Annual Summary Report
- ◆ Annual Estimate Statistics
- ◆ Annual Summary Cover Sheet
- ◆ Annual Summary – Class by Lane
- ◆ Annual Summary – Weight by Lane
- ◆ SPS Summary
- ◆ Sheet 10 Traffic & IMS
- ◆ Sheet 16
- ◆ Reprocessing Report
- ◆ SHRP Information
- ◆ Site Equipment Listing
- ◆ QC / Record Status reports
- ◆ Viewing loading results and saving to a Microsoft Word document

Graphs (22 Available)

- ◆ Agency 4-card vs. 7-card – Weekly; Week by Date
- ◆ Agency 4-card vs. 7-card – Monthly; Month by Date
- ◆ Agency GVW – Monthly; Month
- ◆ Agency GVW – Monthly; Month by Week
- ◆ Agency Vehicle Distribution – Monthly; Month (avg)
- ◆ Agency Vehicle Distribution – Monthly; Month by Week
- ◆ Agency Vehicle Distribution – Yearly; Year by Month (avg)
- ◆ Agency Axle Distribution – Monthly; Month
- ◆ Agency Axle Distribution – Monthly; Month by Week

- ◆ SPS 4-card vs. 7-card – Weekly; Week by Date
- ◆ SPS 4-card vs. 7-card – Monthly; Month by Date
- ◆ SPS GVW – Monthly; Month
- ◆ SPS GVW – Monthly; Month by Week
- ◆ SPS Vehicle Distribution – Monthly; Month by Week
- ◆ Classification Errors: Missing Hours
- ◆ Classification Errors: 1 am Volume > 1 pm Volume
- ◆ Classification Errors: 8+ Consecutive Zeroes
- ◆ Classification Errors: 4+ Consecutive Non-zeroes
- ◆ ESALs per Vehicle – Yearly; Year by Month
- ◆ ESALs per Vehicle – Multi-Year; Years by Months
- ◆ STAT_QC B-C axle Spacing – Yearly; Year by Months
- ◆ STAT_QC Class 9 Steering Axle – Yearly; Year by Date