

## RELEASE HISTORY

RELEASE NUMBER	REVISION NUMBER	REASON
I	6.00	<ul style="list-style-type: none"> <li>• New V6 release of TrafMan to customers. This version fixes all known bugs as well as adds full WIM (Weigh-In-Motion) data support to the popular TrafMan software.</li> <li>• DET recommends all customers update to this latest version at their earliest convenience.</li> </ul>
J	6.00 Build 0002	<ul style="list-style-type: none"> <li>• Adds support for the <b>Internal</b> and <b>External</b> temperature sensors of the WIM board, and also adds support for the second RS232 port on the WIM board (used to output vehicles).</li> <li>• In addition, multiple changes and improvements for the State of New York to handle to remote server application of TrafMan.</li> </ul>
K	6.00 Build 0003 – 0004	<ul style="list-style-type: none"> <li>• Adds the new “Repair Database” function to fix corrupted or otherwise problem database data (press &lt;F8&gt; from the Site Select list to access this function).</li> <li>• Also made the following additional changes: <ul style="list-style-type: none"> <li>○ All changes and bug fixes to support V2.80 EPROM's dated 01/02/03 or later.</li> <li>○ Added the “New York CVL Export Format”. This is the same as the VOL file export except it (a) Exports all tagged files without asking any information and (b) puts all files in CVL sub-directory.</li> <li>○ Added an “Auto Skip &amp; Note Overlays” option. When enabled, this option writes the overlay Site and Date/Time range to a text file named “OVERLAY.TXT” in the TRAFMAN directory (the user is notified when this occurs).</li> </ul> </li> <li>• Minor changes and updates for TCC-540 8 Channel WIM.</li> <li>• In addition, several bugs with the Monthly Classification report have been fixed and the reliability and speed of accessing database data has been improved.</li> </ul>
L	6.00 Build 0008	<ul style="list-style-type: none"> <li>• Minor maintenance release: <ul style="list-style-type: none"> <li>○ Fixed problem saying data overlays when it doesn't on certain import files. Problem caused by scanning for import location routine and large gaps in data file.</li> <li>○ Fixed date problem with Monthly Axle Class Report date line at very top of page.</li> <li>○ Made a variety of corrections to CREAD function for Connecticut DOT (including UPLOAD.DAT fix).</li> <li>○ Fixed problem not showing V2.80 counter serial numbers.</li> </ul> </li> </ul>
M	6.00 Build 0010;	<ul style="list-style-type: none"> <li>• Minor maintenance release: <ul style="list-style-type: none"> <li>○ Fixed problem in Card W export format for New York.</li> <li>○ Fixed several Connecticut DOT problems (printing problem and CLA file exports).</li> </ul> </li> <li>• Adds support for High Speed 115.2KB downloading with the</li> </ul>

	<p>6.01 Build 0001;</p> <p>6.02 Build 0001,</p> <p>6.02 Build 0003;</p>	<p>Unicorn-Limited, Apollo, and Argos traffic counters.</p> <ul style="list-style-type: none"> <li>• In addition, support for 15 classes has been added to the TMG Card 4 and Card C exports for all users instead of just specific customers.</li> <li>• Both of the above features can be enabled/disabled in the Setup menu.</li> <li>• Variety of bug fixes and changes as follows:</li> <li>• Added a check to Start and Stop times so that they must match the beginning of an interval.</li> <li>• Eliminated error message that appears when connecting to a Sprite with no data files.</li> <li>• Fixed problem importing data from TT-501 counters.</li> <li>• Fixed menu being off when Retrieving files from a UPP5 with TAM installed.</li> <li>• For the UAA counters data retrieval: <ul style="list-style-type: none"> <li>○ Cleaned up and improved the high speed data retrieval.</li> <li>○ Eliminated problems with retrieving multiple files and fixed problem with large (8MB) file showing up at end of download.</li> <li>○ Also improved communications on NT/2000/XP machines to eliminate errors (although throughput is still lower in some cases).</li> <li>○ Changed the "Get All Unretrieved" to "Get All Files" if there are not any unretrieved files in the counter.</li> <li>○ Added some additional messages and status display to the download and post processing to aid in troubleshooting.</li> </ul> </li> <li>• Fixed a problem with not allowing double digit lane numbers in the Raw and WIM database editor Lane Setup window.</li> <li>• Fixed a problem with the Basic Binned Print when selecting fixed 24:00 intervals.</li> <li>• Noted that Win NT/2000/XP users should not select the "Set Computer from Counter Time" option (it is not supported under these operating systems).</li> <li>• Put the "FLORIDA.SPD" and "FLORIDA.LEN" into Windows installer (was already in the DOS install).</li> <li>• Variety of bug fixes and changes for New York as follows:</li> <li>• Fixed problem with Weights being in 4 digit instead of three digit format</li> <li>• Added a "2<sup>nd</sup> Dir Code" for setting the NYS Direction for AXL, VOL, SPD files (entered in the Station Setup screen).</li> <li>• Changed the input NYHEADER format specified by Allen Pooler in the 04/14/03 EI 01-001.</li> <li>• Changed the AXL/SPD/VOL file as follows: (a) Added display of the Route Signing, Railroad Cross, Number, and Speed Limit to the convert window. (b) Changed Version number from 3.50 to 4.00 (c) Made various format changes as per 04/14/03 EI 01-001</li> <li>• Added "DEFAULTA.AXL" to the TABLES directory.</li> </ul>
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	6.03	<ul style="list-style-type: none"> <li>• Fixed corrupted output file problem with Card W.</li> <li>• Fixed problem with Repair function not keeping Info Line 1 and Info Line 2 correctly.</li> <li>• Variety of bug fixes for New York, WIM output, and adds changes necessary for the Unicorn-Limited V1.28 EPROM.</li> <li>• Issues with New York State Export Format.</li> <li>• Fixed problem with TC-501 import/convert.</li> <li>• Created a second ".CSV" file to hold all values from WIM capture function as comma separated values (for easy Excel import).</li> <li>• Changed WIM gain ranges to allow gains from 1-7 (instead of 1-5)</li> <li>• Added pressing either the &lt;F4&gt; or &lt;F9&gt; to exit Counter Link screen without doing the Hangup &amp; F7 function (must be used with Telecom V3.90 or later).</li> <li>• Added some ability to link to System Sentry (more features and functions to come).</li> <li>• Fixed "Total Flash Size" numbers for UAA counters V1.28 and later.</li> <li>• Fixed a problem retrieving last RAM file in UAA counters (could cause a very large disk file).</li> </ul>
N	6.05	<ul style="list-style-type: none"> <li>• Variety of changes as follows:</li> <li>• Added "Less than 5% Class 3+" into the New York Data Integrity check.</li> <li>• Added support for UPP5 V2.82 EPROM (adds ADC trip point sets and small car max axle weight check).</li> <li>• Added Florida Custom Download File Name system.</li> <li>• Fixed problem with Autocal Value and Gain not updating when a change is made during the actual monitor.</li> </ul>
O	6.05 Build 0002 – 0005	<ul style="list-style-type: none"> <li>• Variety of changes as follows:</li> <li>• Fixed several issues for New York TMG exporting and changed the Cleanup &amp; Repair utility to match Info Line 1 from the &lt;F7&gt; (Station Setup).</li> <li>• Added additional System Sentry functionality.</li> <li>• Increased the maximum single database size to 2GB.</li> <li>• Made multiple minor WIM changes including: <ul style="list-style-type: none"> <li>○ Changed "ADC" to "AGC".</li> <li>○ Fixed problem setting piezos on old piezo boards when counter using a 2.8x EPROM.</li> <li>○ Added "Match To This Channel" command to WIM Autocal Setup and WIM Channel Setup (Alt+M).</li> <li>○ Moved the Vehicle Output under the Port 0 section to better indicate the location of the data.</li> </ul> </li> <li>• Changed Datahog processing to post-process files retrieved from Unicorn-Limited with Flash.</li> </ul>
P	6.06	<ul style="list-style-type: none"> <li>• Contains the following changes:</li> <li>• Fixed problem importing multiple MMC card files from a single disk file.</li> <li>• Increased delay time for start of retrieve for a MMC file.</li> <li>• Fixed bug in retrieving range of files on UAA counters.</li> </ul>
Q	6.07 Build	<ul style="list-style-type: none"> <li>• Variety of general changes and changes for the WIM system.</li> </ul>

	0002	<ul style="list-style-type: none"><li>• Increased from 50 to 60 max file handles.</li><li>• Fixed problem on importing or converting Pres-Pres data in Raw storage.</li><li>• Changed to allow GVW of 144000/65317KG.</li><li>• Changed WIM database editor to use rounded values when displaying Kips.</li><li>• Eliminated the "Sensor Type" from displaying in all places (counter link, editor, print outs).</li><li>• Fixed problem updating Autocal Value while in Monitor Mode.</li><li>• The following changes for New York were also made:<ul style="list-style-type: none"><li>• Binned reports default to just Axle class</li><li>• Retrieve functions auto-scrolls to first unretrieved file.</li><li>• Peek imports now specify 241B.SPD table.</li><li>• Changed the D.I. check to list the start time for 6 Hours of SnMis on a lane.</li></ul></li><li>• On the VOL, SPD, AXL, and all CVL equivalent files:<ul style="list-style-type: none"><li>○ Default operator initials now DGV.</li><li>○ Continuous Station Number defaults to first 4 digits of the 12 digit Site ID.</li><li>○ Recorder Serial Number defaults to "0000".</li><li>○ Changed the "Total Number Of Lanes" value (last record in line #5) to be based on the value in the first field and the actual number of lanes.</li><li>○ Fixed problem with specifying CVL directory.</li><li>○ Changed the "Lane Notes" value to be the entire Lane Info line instead of from the third character.</li></ul></li><li>• Concurrent changes to WIM F/W (Rev C) and TCc-540 EPROM (v. 2.86)</li></ul>
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R	6.09 Build 0004	<ul style="list-style-type: none"> <li>• Added support for GVW Adjust Values</li> <li>• Added Data Integrity Checks as follows: <ol style="list-style-type: none"> <li>1) Flags any hour that the total for all lanes combined is zero and occurs from 6AM-9AM or 3PM-6PM.</li> <li>2) Flagged any day that the combined lane total from 00:00-00:59 exceeds the total from 12:00-12:59.</li> <li>3) Added selectable number of consecutive zero hours (default is set to 3).</li> <li>4) Flagged any lane which has user selectable number of hours that contain the same value (unchanging count).</li> <li>5) Flagged any hour which has a directional split percentage that exceeds a user specified value (default 75.0%).</li> <li>6) Flagged any day which has a directional split percentage that exceeds a user specified value (default 66.6%).</li> <li>7) Added additional hourly check for combined lanes where the total class 4-13 exceeds a user specified percent (defaults to 25%).</li> <li>8) Flagged any hour or day where a lane or combined lanes has more vehicles in class 3 than class 2. Must have more than 10 vehicles each class to check this.</li> <li>9) Flagged any hour or day where a lane or combined lanes has more vehicles in class 8 than class 9. Must have more than 10 vehicles each class to check this.</li> <li>10) Flagged any hour or day where a lane or combined lanes has more vehicles in class 11-13 than class 9. Must have more than 10 vehicles each class to check this.</li> </ol> </li> <li>• Added Data Integrity Options menu</li> <li>• Increased GVW limit to 999999 kg</li> <li>• Concurrent changes to WIM F/W (Rev C1) and TCC540 EPROM (v2.87)</li> </ul>
S	6.18 Build 0002	<ul style="list-style-type: none"> <li>• Fixed bugs handling SnMis's in Special Speed Study.</li> <li>• Made some minor changes to the V2.8x file directory function (to allow for pauses and other MMC issues).</li> <li>• Fixed problem displaying internal temperature values from 2.8x version EPROMs when reading from motherboard or MDK.</li> <li>• Fixed problem in Single Channel Monthly not ending months correctly when breaks in data across a month line.</li> <li>• Changed the Archive function to first to a repair of the Binned, Count, &amp; WIM databases before archiving.</li> <li>• Added support for new V2.89 EPROM's and the additional WIM and other new features</li> <li>• Install includes new RAM code files for V2.44 &amp; V2.45.</li> <li>• Added support for the UPP5 V2.90 EPROM (includes two new WIM settings: Auto Cal on Class 2 class Range &amp; Default Axle Weight Value).</li> <li>• Changed setting WIM AGC Trip points to an easier to use percent value.</li> <li>• Fixed bug deleting data from database when a very large number of imports exists.</li> <li>• Added a "NOHELP" command line option to increase usable memory when help system not needed.</li> <li>• Fixed bug in repairing Raw &amp; WIM data which caused some</li> </ul>

		<p>files to be ended early after a Repair call.</p> <ul style="list-style-type: none"> <li>Added ESAL calculation to Basic WIM Print Report. You can select one of 3 basic formula modes (Flexible Pavement, Rigid Pavement, and UK Mode) and also enter in values such as the Terminal Serviceability, Structural Code, and Pavement Thickness.</li> <li>Added support for the V2.92 EPROM as follows: <ul style="list-style-type: none"> <li>Detects MDK boards and notes it in top of screen.</li> <li>Allows setting WIM Channel Store in Set Other WIM options menu.</li> <li>Supports High Speed Downloading with MDK boards.</li> </ul> </li> </ul> <p>Enabling loop Pairing function (has new setup option which allows users to turn this on/off</p>
T	6.19 Build 0003	<ul style="list-style-type: none"> <li>Fixed Test Sensors display issue (location of % values)</li> <li>Changed Monitor Lanes to automatically update the % values before entering the change setting screen (pressing the Z key)</li> <li>Fixed a problem setting threshold values (two lines would be highlighted and neither could be set)</li> <li>Added "round weight value" option to enable/disable rounded weights</li> <li>Added "use displayed weights" option to allow GVWs to be calculated based on rounded axle weights if enabled in "round weight value" option</li> </ul>
U	6.24 Build 0001	<ul style="list-style-type: none"> <li>Fixed problem setting the directional lane with Uni-Lim (was using Lane 9 instead of 3, 10 instead of 4).</li> <li>Added "Use Displayed Weights" option (default to Yes) to force reports and exports to use the displayed resolution of the weight for GVW calculations.</li> <li>Added a "Round Weight Values" option (default to Yes). When enabled all weights are rounded to the nearest 100kg or 100lb during printing and exporting. (otherwise they are truncated).</li> <li>Added a WIM check &amp; fix function to the WIM database editor to scan the data and change data that is Class 13 to Class 5 when it has two axles (press Ctrl+F8 in the database edit window).</li> <li>Fixed a problem converting Uni-Lim Sensor data (was using a 153600 clock instead of a 184320 clock). Also changed to reset sensor clock at the beginning of each day.</li> <li>Made some changes to the Single Channel Monthly to repeat site header info at the beginning of each month (NY Only).</li> <li>Added three new binned report formats for the India Toll</li> </ul>

		<p>Station. Also made various other changes to support these functions.</p> <ul style="list-style-type: none"> <li>• Moved some of the WIM settings to their own screens (such as WtCls limits) and changed some setting colors.</li> <li>• Fixed problem with Adjustment factors report quitting before end of data (added fflush to creation of temp file).</li> <li>• Changed New ASCII with Raw Date add to use two digit lane number.</li> <li>• Added setting % value to Piezo V4 channels (in addition to setting normal piezo gain and threshold values).</li> <li>• Modified the retrieve command to not send another ACK after first time to prevent slow links from missing blocks. Also increased delay time on ACK/NAK response.</li> <li>• Changed Add Dates to Raw ASCII to also apply to WIM.</li> <li>• Fixed a problem handling PRN files with characters in the Station ID field.</li> <li>• Changed to allow spacings down to 0.2' (6cm).</li> <li>• Added support for the UAA V1.45 tailgating detect function.</li> <li>• Fixed a problem in the NY SPD file output when missing a bin value (was putting in 65535's).</li> <li>• Added Collect Independent Volume Data Feature</li> <li>• Added Dynamic Sensor Assign Feature</li> </ul>
V	6.25 Build 0001	<ul style="list-style-type: none"> <li>• Changed to force axle count range to be from 0-16. This fixed some bizarre behavior when corrupted files were processed.</li> <li>• Eliminated Verify Power Off function when connected to MDK.</li> <li>• Fixed bug in Special Speed study on really huge averages.</li> <li>• Added option to only do monitor with TrafMan links (enabled by placing a file named TRAFMAN.N4L in the TrafMan main directory).</li> <li>• Added new DI check for New York to report if 10 or more vehicles in a row have 2 axles and a spacing which matches the total length (indicating a bad piezo).</li> <li>• Added new DI check for New York to report a "possible" bad piezo. This will report if <math>\geq 25\%</math> of 2 axles vehicles in any lane have a spacing that matches their length.</li> <li>• Added DI check for New York to report if any lane has a day total for Class 1-3 that is <math>\geq 95\%</math> of the total traffic.</li> <li>• Added support for setting the UPP5 V2.96 TG Detect values.</li> <li>• Added support for UPP5 V2.97 Dynamic Sensor Assign.</li> <li>• Added support for UPP5 V2.97 Collect Independent Volume. This includes support for the data in the binary file.</li> <li>• Fixed problem connecting to a Datahog if baud rate has been set to less than 19200.</li> <li>• Added support for the new Binary File Security option.</li> <li>• Made changes to support new Loop Class system. Includes running the windows LoopClsT.exe program and other changes to support processing loop class data from V2.97+ EPROM.</li> <li>• Fixed problem importing Loop Class data.</li> <li>• Changed to support new daylight savings adjustment for 2007.</li> </ul>

W	6.27 Build 0002	<p>Minor maintenance release with the following changes:</p> <ul style="list-style-type: none"><li>• Misc. changes to better support I-Loop data functions.</li><li>• Improved support for V2.00 Datahog with different delay times on erase command and Uploading 1K block datafiles.</li><li>• Fixed bug in not showing the Set Daylight Time/Date window when connected to a Unicorn-Limited.</li><li>• Fixed bug processing Datahog file that started with a flash file and then had all non-flash files.</li><li>• Added Alt+F9 to HEX File Editor to strip off flash header bytes from cursor.</li><li>• Fixed problem incorrectly setting the Daylight savings adjust when connecting to a site in the first week of November.</li><li>• Added support for the 0xF2 storage record on UPP5 V3.10 EPROM's (recording temperature inside datafile).</li><li>• Added option to include length on ASCII No Label.</li></ul>
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