

Houston Radar LLC
StatsAnalyzer Software
Release Notes

Contents

- Version 9.00.0108 (January 27, 2023) 1
 - Changed: 1
- Version 9.00.0107 (January 13, 2023) 1
 - Added: 1
 - Changed: 1
 - Fixed: 2
- Version 9.00.0106 (May 02, 2022) 3
 - Added: 3
 - Changed: 3
 - Fixed: 3
- Version 9.00.0105 (April 13, 2022) 4
 - Added: 4
 - Changed: 4
 - Fixed: 4
- Version 9.00.0104 (February 16, 2022) 4
 - Added: 4
 - Changed: 4
 - Fixed: 4
- Version 9.00.0103 (December 14, 2021) 5
 - Added: 5
 - Changed: 5
 - Fixed: 5
- Version 9.00.0102 (September 09, 2021) 5
 - Added: 5
 - Changed: 6
 - Fixed: 6
- Version 9.00.0101 (August 10, 2021) 6
 - Added: 6
 - Changed: 6
 - Fixed: 7
- Version 9.00.0100 (March 2, 2021) 7

Added:.....	7
Changed:.....	7
Fixes:.....	8
Version 9.00.0099 (December 17, 2020).....	8
Added:.....	8
Changed:.....	8
Fixes:.....	9
Version 9.00.0098 (October 21, 2020).....	9
Changed:.....	9
Fixes:.....	9
Version 9.00.0097 (September 18, 2020).....	9
Fixed.....	9
Version 9.00.0096 (April 16, 2020).....	10
Changed.....	10
Fixed.....	10
Version 9.00.0095 (April 09, 2020).....	10
Added.....	10
Changed.....	10
Fixed.....	10
Version 9.00.0094 (Feb 21, 2020).....	11
Added.....	11
Changed.....	11
Fixed.....	11

Version 9.00.0108 (January 27, 2023)

Changed:

1. [0000468] [Debug Mode] Update "Delete all existing Bluetooth pairing" feature to display a message informing user that BT pairings have been deleted.
2. [0000467] [Debug Mode] Updated "Automatically remove oldest pairing when max paired limit" feature to be compatible with older Bluetooth hardware.
3. [0000466] [Debug Mode] Updated "Automatically remove oldest pairing when max paired limit" feature to consider the BlueSoleil USB adapter.

Version 9.00.0107 (January 13, 2023)

Added:

1. [0000331] [SpeedLane] Add validation to the IP, Netmask, Gateway, and DNS Address under "Network" for SpeedLane.
2. [0000394] [Debug Mode] Add "Delete All Existing Bluetooth Pairs" button for Armadillo Tracker and Crossfire under the "Debug" Tab.
3. [0000395] [Debug Mode] Add "Automatically remove oldest pairing when max paired limit" button for Armadillo Tracker and Crossfire under the "Debug" Tab.
4. [0000430] [SpeedLane] Add controllers to allow user to choose between "Quick" and "Fine" picture quality when on Step 2 of the SpeedLane Wizard.
5. [0000418] [SpeedLane] Add SpeedLane NTCIP Support.
6. [0000389] [Reports] Add Report Name to the header (except for the Tally Report) of each of the pages in the export reports.
7. [0000450] [Analyze] Add Average Speed to the "Speeder" section of the Summary/Analysis report.
8. [0000391] [Reports] Add Average Speed in the Summary Report for the "Speed" and "Hourly" section of the DevExpress Report.
9. [0000443] [Modem] Add 4G Cat M1 Worldwide Modem Support.
10. [0000462] [Project Filter] Add to "Filter and Sort" section a way to sort by Station ID (Ascending and Descending).

Changed:

1. [0000424] [SpeedLane] Update text "hrserver" to "Tetryon" in the "Network" tab for SpeedLane.
2. [0000413] [Reports] Update the "total" row for Weekly and Monthly tables to calculate average instead of total speed.
3. [0000423] [SpeedLane] Adjust "User Defined Port Number" section under "Network" tab for SpeedLane.
4. [0000421] [SpeedLane] Remove Hide Detection Sensitivity feature in "Detection and Units" tab from SpeedLane UI.
5. [0000433] [Armadillo Tracker] Updated "Callout Server IP" to "Tetryon Cloud Server IP" in the Armadillo Tracker UI.

6. [0000429] [SpeedLane] Update "Level should be within +/- 2 degrees" text by adding "to road" at the end in SpeedLane Wizard.
7. [0000428] [SpeedLane] Capitalize "speedlane" text in the "X3/G4" tab in the SpeedLane UI.
8. [0000425] [SpeedLane] Update "Server" section controller text in the "Network" tab to "Tetryon Cloud Server" in the Network tab.
9. [0000426] [SpeedLane] Update "Customer ID" to "Tetryon Customer ID" in the "Network" Tab of the SpeedLane UI.
10. [0000427] [SpeedLane] Update "Minutes" text to be lowercase in the "Network" tab in SpeedLane UI.
11. [0000422] [SpeedLane] Update "Vehicle Bins" tab text to "Vehicle Class".
12. [0000390] [Reports] Rotate chart images to landscape rather than portrait for the export report.
13. [0000406] [Settings] Improve browse folder dialog when selecting new database and data folder location.
14. [0000403] [Raw Export] Enhance "Extend Raw Data" option by clarifying language.
15. [0000435] [SpeedLane] Update SpeedLane's "Diagnostic" page to include a list of prefill options that the user can ping to.
16. [0000447] [Connect To Radar] Update "Radar Found Message" to correctly display the correct baud rate when bootloader is found.
17. [0000445] [Range Plot] Update "No lanes setup message" on range plot to last more than 5 seconds.
18. [0000451] [Reports] Make the Analysis Report tab in SA and the Summary tab in export have the same name.
19. [0000449] [Analyze] Update "Analysis Report" to include "Histogram" and "Summary of Violators" reports in the "Analysis" form.
20. [0000458] [Armadillo Tracker] When bootloader is found on a Tracker, user will now be prompted to download latest compatible firmware and update to fix corrupt firmware.

Fixed:

1. [0000432] [SpeedLane] "Next" button in the Wizard is not enabled after finishing setting up for the 1st time.
2. [0000419] [Modem] Provide an alternative to send AT commands when "Start Configuration Modem" tab fails to get modem configuration.
3. [0000439] [Radar Configuration] Prevent "BN" in "Data Logging" from being set to 0.
4. [0000440] [Analyze] Binned Data that is selected through "Managed Imported Data" to analyze is not including last record.
5. [0000393] [Reports] "E-Mail As..." export functionality not working as intended when exporting to XLSX or XLS report.
6. [0000436] [Analyze] Analysis Report "By Hour" and "By Day" sections some records are being counted multiple times.
7. [0000420] [Armadillo Tracker] Armadillo Trackers with erase radar data feature disabled should not be able to Erase Radar Flash.
8. [0000434] [SpeedLane] Prevent Background Clutter Compensation to be set to 0 minutes and 0 seconds.
9. [0000431] [SpeedLane] Prevent the user from continuing Step 3 of the SpeedLane Wizard unless all checkboxes are checked.
10. [0000398] [Reports] Right-Click Export To PDF with a long filepath result in an exception for Tracker.

11. [0000397] [Radar Configuration] Loading radar configuration does not update locally stored variables.
12. [0000392] [SpeedLane] Prevent user from turning on Advanced Multipath rejection options in SpeedLane Setup Wizard if no lanes have been created.
13. [0000396] [Settings] Disabling "Enable Speed Rebinning For Excel Exports" for Green Tile Projects result in an unhandled exception.
14. [0000291] [Radar Configuration] Saving radar configuration can result in an InvalidOperationException.
15. [0000407] [Radar Configuration] Radar configuration filename is not outputting the correct SID of the radar.
16. [0000417] [Connect To Radar] Tracker "Speed Detection Limits" controller does not re-enable once it is disabled.
17. [0000399] [UI] At 175% Font Scale and 1920x108 resolution, the Export button for Tracker project becomes hidden.
18. [0000459] [Reports] 85th Pct Speed is outputting 1 in the 24-hour summary when there are no vehicles in Tracker Histogram Report.
19. [0000437] [Reports] TX DOT Form 1882 (Tally Report) crashes program without any notification when value for ≤ 30 or ≥ 80 is above 65535.
20. [0000448] [Export Interval] Armadillo Tracker Histogram Interval Setting is incorrectly calculating average speed for non-60-minute intervals.
21. [0000461] [Connect To Radar] Unable to download DAT file from Tracker due to string to in conversion.
22. [0000464] [Analyze] SpeedLane Histogram Reports page height is not correctly calculated.
23. [0000460] [Reports] SpeedLane "Analysis Report" tab page is not displaying all the lanes and/or group if there are more than 8 lanes.

Version 9.00.0106 (May 02, 2022)

Added:

1. [0000383] [SS400] Add Select Ground Mode to the Detection & Units tab.

Changed:

1. [0000382] [SpeedLane Vehicle Class Bins] Update Vehicle Class 8 for SpeedLane to read as "greater than or equal to".
2. [0000379] [Connect To Radar] Improve UI/UX for Tracker when firmware upgrade is available.
3. [0000387] [Radar Project] Prevent user from being able to set Vehicle Class #8 for SpeedLane Projects.

Fixed:

1. [0000385] [SpeedLane] Installation Mode Minimum Setback UI becomes disabled for SpeedLane after connecting and disconnecting from a SpeedLane Pro.
2. [0000261] [Bootloader] Incorrect radar type displayed when connecting to bootloader.
3. [0000386] [SS400] Operation Mode UI becomes disabled for SS400 after connecting and disconnecting from a SS400 that does not support the feature.

Version 9.00.0105 (April 13, 2022)

Added:

1. [0000119] [Reports] Add average speed for Histogram Incoming/Outgoing report.

Changed:

1. [0000377] [Reports] Truncate excessive decimal points from the AADT being displayed in the Analysis Report for SpeedLane.

Fixed:

1. [0000175] [Import] Remove "Correct Timestamp" feature for non-SpeedLane .dat import files with incorrect timestamps.
2. [0000376] [Reports] SpeedLane Report sometimes only shows 7 class bins instead of 8.
3. [0000369] [Reports] 50th Percentile Speed in the Exported Report is incorrectly displayed in Tracker Report.
4. [0000378] [Radar Project] Correct "Date/Time Start" column text from Managed Imported Data.

Version 9.00.0104 (February 16, 2022)

Added:

1. [0000355] [Range Plot] Zoom out to extent if you delete all lanes.
2. [0000344] [Connect To Radar] Add ability to refresh radar list via a refresh button.
3. [0000365] [DR600] Add TGL Speed Input/Output Support to DR600 and SS400 UI

Changed:

1. [0000361] [Range Plot] Delay Estimation Plot is unable to zoom and scroll without the program throwing an exception.
2. [0000362] [Language Support] Use correct translation of "Proche" and "Fermer" for French Translations.
3. [0000364] [Range Plot] Delay Estimation Plot Y-Axis label to show 2 significant digits.
4. [0000360] [Range Plot] Adjust plot peak data pen/point size to resemble closer to previous version.
5. [0000354] [Reports] 50th Percentile and Pace Interval missing from Export Report for Tracker Projects.

Fixed:

1. [0000359] [Analyze] Speeder count is over counting in the Monthly Counts/Speed Avgs tab in Tracker Projects.
2. [0000363] [Project Filter] Exception not being handled when "View Raw Data" option is enabled and user attempts to filter SpeedLane or CrossFire product.

3. [0000353] [Range Plot] Range Plot does not refresh after you delete all the lanes.
4. [0000367] [DR600] Rotary option should only be available for DR600 if PNL18 option is enabled.
5. [0000368] [Connect To Radar] Refreshing radar list results in Access Violation Exception when Bonjour is available.

Version 9.00.0103 (December 14, 2021)

Added:

1. [0000342] [GStreamer] Add GStreamer support for SpeedLane Camera.
2. [0000344] [Connect To Radar] Add ability to refresh radar list via a refresh button.

Changed:

1. [0000063] [Range Plot] Improve performance of the range plot.
2. [0000328] [Radar Project] Update "Manage Imported Data" table to allow user to edit each data to allow comments.
3. [0000337] [MS2 TCDS Export] Improve undefined Lane Direction of Travel message when exporting to MS2 Format.
4. [0000341] [SpeedLane] Set minimum value of TA to 2 seconds for the SpeedLane.

Fixed:

1. [0000118] [Screen Resolution] Improve Report Viewer UI to better adjust controls so that they do not go missing due to display settings.
2. [0000133] [Reports] Percentage in pace is incorrectly calculating in the histogram data.
3. [0000315] [SpeedLane] Prevent user from setting a TA value outside of minimum and maximum range for SpeedLane.
4. [0000343] [Connect To Radar] Unable to save "Read Traffic Stats From Radar" at root directory.
5. [0000336] [Analyze] Over counting in the Volume By Speed Histogram.
6. [0000312] [Tetryon Rendezvous] Bad Tetryon URL string results in unhandled exception.
7. [0000332] [SpeedLane] Diagnostics Textbox does not always get OOB ASCII data from SpeedLane.
8. [0000351] [SS400] Supply Voltage and Ambient Temperature Read for SS400 Crashes Program.

Version 9.00.0102 (September 09, 2021)

Added:

1. [0000319] [Analyze] Reintroduce the context menu export the "Analysis Report" tab via right-click. User can now export to PDF and XLSX formats.
2. [0000325] [Settings] Add option to toggle between "Cumulative Speed Total" and "Speed Total" for the Tally Report Form 1882.

Changed:

1. [0000320] [Settings] Clarify the "Export Interval" feature options.

Fixed:

1. [0000321] [Analyze] Add missing Percent Over Limit row to the Analysis Report for Green Tile Projects.

Version 9.00.0101 (August 10, 2021)

Added:

1. [0000180] [Debug Mode] Add busy wait cursor after user clicks on Get Debug.
2. [0000181] [Radar Configuration] Add programmatic support to add/del username/pass in SLP.
3. [0000304] [SpeedLane] Add UI Support for the Port Number (PR) variable
4. [0000067] [General] Add Release Notes link section in the main form of StatsAnalyzer.
5. [0000311] [DR600] Add DR600 LED Disable Option under "Hardware & IO Config" tab.
6. [0000311] [DR600] Add PNL18 Enable/Disable Strobe Flash Option under "Hardware & IO Config" tab.
7. [0000311] [DR600] Add PNL18 Calibrate LED Driver under "Hardware & IO Config" tab.

Changed:

1. [0000269] [Database] Update Default DB File to include projects such as SpeedLane, Tracker (Bi-Directional) and Crossfire.
2. [0000307] [Radar Configuration] Change "Strict Rain Filter" text for DR600 under the "Data Logging" tab.
3. [0000306] [Radar Configuration] Clarify wording on "Disable Low Power" mode checkbox in SS400 radar.
4. [0000297] [Reports] Allow user to setup min and max speed in Histogram for Binned Data.
5. [0000300] [MS2 TCDS Export] Remap Lanes from SpeedLane to MS2LaneNumber.
6. [0000299] [MS2 TCDS Export] Change Time in Metadata StartDateTime to "00:00:00.000" and EndDateTime to "23:59:59.999".
7. [0000293] [Analyze] Reword "Analyze" button to "Analysis Report" and "Analyze All" checkbox to "Analyze All Data in Project".
8. [0000282] [Connect To Radar] Update Radar COM Port ComboBox controller to be user friendly when listing is large.
9. [0000256] [Reports] Update Tally Report Form 1882 (TXDOT) to the latest revision.
10. [0000248] [Radar Configuration] Reinroduce the 'SetTime' method back to IRadarCommClassThd class.
11. [0000276] [Reports] Adjust Tick for Volume by Speed Bin Bar Chart Speed Bin.
12. [0000310] [General] Log more info from the Summary Report about the report creation.

13. [0000311] [DR600] Rename the “PNL18 Connector Option” section to “PNL18 One’s Digit Option” under “Hardware & IO Config” tab.
14. [0000311] [DR600] External Light Sensor Type section, under “Hardware & IO Config” tab, now enabled for PNL18 only.
15. [0000316] [Raw Export] Add "Open File?" at the end of the Successful Raw Export File Open prompt to make it clearer.
16. [0000317] [Debug Mode] Update SpeedLane Debug Log to use the File Open Dialog instead of the Folder Browser Dialog.

Fixed:

1. [0000263] [SpeedLane] Range plot streaming packet interval rate becomes incorrect when switching between Installation Wizard and range plot.
2. [0000309] [Analyze] Error being thrown when closing the Analyze form before "Analysis Report" tab is finish creating document for Tracker Projects.
3. [0000305] [Modem] 'Show SIM IP Address' AT Command Displaying Incorrect Message.
4. [0000271] [Connect To Radar] Stats Analyzer reports incorrect baud rate under certain conditions described below.
5. [0000303] [Modem] OOB Data is not being processed correctly in the Tracker Modem output when using Bluetooth.
6. [0000295] [Analyze] Date/time not fitting in "Timestamp" column in current width of the column.
7. [0000212] [Connect To Radar] Unable to populate Connect To Radar List due to WMI issues.
8. [0000290] [Tetryon Rendezvous] Delete key not properly deleting rows from the Rendezvous Tetryon List.
9. [0000246] [Radar Configuration] Loading radar configuration is not properly working at times due to UInt16 to Int16 conversions.
10. [0000308] [Modem] Tracker Modem Deactivation Context Not Working Correctly Before Setting APN.
11. [0000244] [Reports] Export Interval below 60 minutes interval is not creating histogram properly for Tracker projects.
12. [0000241] [SS400U] Changing baud rate is not triggering a reset for SS400/SS400U.

Version 9.00.0100 (March 2, 2021)

Added:

1. [0000233] [Language Support] Add French Language Support.
2. [0000220] [Radar Configuration] Add support for the PNL18.
3. [0000225] [General] Add import/export functionality for the Remote Radar list.
4. [0000228] [SpeedLane] Add SpeedLane NTP Server support.
5. [0000207] [Reports] 24 Hour Total Average Report.

Changed:

1. [0000237] [UI] Adjust UI in CrossFire, Tracker and SpeedLane Analyze Report Form to dock and anchor correctly.

2. [0000224] [Radar Configuration] Update value of variable in Radar Configuration file to be UInt16 instead of Int16.
3. [0000226] [Database] Handle exception when unable to find Database File Location at startup of StatsAnalyzer.
4. [0000170] [Radar Configuration] Add ability to set Radar Clock to UTC Time or an offset from current local time.

Fixes:

1. [0000238] [Settings] Divide by Zero Exception when Excel Speed Bin is set to 0.
2. [0000236] [Analyze] Analyze reports are incorrectly calculating values due to multi-threading.
3. [0000235] [Reports] Alignment issue in the Histogram Tab of the Export Report when Project Notes are available.
4. [0000229] [Language Support] Language Selection is not correctly switching the 1st time.
5. [0000027] [Reports] "Analysis Report" tab not refreshing.
6. [0000227] [Reports] Crossfire Report are missing the Export Button via Analysis Report.
7. [0000115] [SpeedLane Vehicle Class Bins] Adjust SpeedLane Vehicle Class Bins Setup to prevent user from incorrectly setting up bin.
8. [0000147] [Reports] Missing hourly intervals in Histogram Report.

Version 9.00.0099 (December 17, 2020)

Added:

1. [0000068] [Tetryon Rendezvous] Add rendezvous functionality to StatsAnalyzer.
2. [0000208] [Radar Configuration] Save/Restore SpeedLane String Variables.
3. [0000168] [Language Support] Add Russian Language Support to StatsAnalyzer.
4. [0000216] [Modem] Add 4G Modem Support to the Tracker and SpeedLane .

Changed:

1. [0000214] [Modem] Increase Modem mode change wait time from 30 seconds to 40 seconds.
2. [0000213] [Connect To Radar] Catch and display error message related to WMI when opening "Connect To Radar".
3. [0000211] [Custom Reports] Update Helsingborg Custom Report.
4. [0000210] [Analyze] Improve report analyzing performance.
5. [0000112] [Reports] Add missing Total and Percentage of Total to Show Speeder Count for Tracker projects.
6. [0000159] [Radar Configuration] Save string variables, if available, to the radar configuration file.

Fixes:

1. [0000209] [SpeedLane SQL Query] SpeedLane Config Query was unable to get config var due to datetime issues.
2. [0000217] [Radar Configuration] SpeedLane was not resetting after restoring radar configuration.

Version 9.00.0098 (October 21, 2020)

Changed:

1. [0000199] [Check For Updates] Added bit error logging to the BSER list.
2. [0000196] [Language Support] Move language options to its own tab in StatsAnalyzer settings menu.

Fixes:

1. [0000198] [Analyze] Analyzing a Speedlane project with exactly 1 vehicle classification would cause an index out of range exception.
2. [0000061] [Range Plot] Undefined lanes display on the bottom-left of the plot.

Version 9.00.0097 (September 18, 2020)

Fixed

1. [0000023] [Reports] Crossfire Report Lanes' page including blank pages and/or extra rows.
2. [0000146] [Reports] Tracker Analysis Report's Total Vehicle Count Is Off By A Few Vehicle Counts.
3. [0000178] [Bootloader] Prevent radar from resetting after failing to program bootloader.
4. [0000176] [Radar Project] Opening an existing (old) Tracker project results in crash.
5. [0000162] [Import] Silent "Out of Range Exception" when fixing the DateTime of the records from the dat file.
6. [0000141] [Custom Reports] Fix misspelling of "Helsinborg" in the Custom Export Selection options in Settings.
7. [0000179] [Radar Configuration] Saving Tracker configuration while connected via modem throws an error.

Version 9.00.0096 (April 16, 2020)

Changed

1. [0000074] [MS2 TCDS Export] Don't allow export if Lane Direction is not defined in Lane Configuration.
2. [0000072] [CSV Export] Update "Raw Export" button to CSV for Tracker format to be the same as "View Raw Data" export.

Fixed

1. [0000073] [Snapshot] Unable to take photo from CrossFire.
2. [0000071] [MS2 TCDS Export] MS2 TCDS Tracker export is displaying incorrect units.
3. [0000070] [MS2 TCDS Export] MS2 TCDS SpeedLane export is displaying incorrect units.

Version 9.00.0095 (April 09, 2020)

Added

1. [0000033] Added support for XML format to SpeedLane and Tracker on a per vehicle record.
2. [0000036] Added support for PRN format to Crossfire on a volume by lane per interval.
3. [0000066] Added High Speed Mode for SS400U under "Detection & Units" tab.

Changed

1. [0000029] Removed "Max Speed" from the SpeedLane "AnalysisReport" tab.
2. [0000026] Updated Average Speeds of Speeder on Summary Page to display "0.0" instead of "NaN" when there are no speeders.
3. [0000037] Updated Tracker CSV Export to export per-vehicle details instead of speed histogram.

Fixed

1. [0000041] Fixed issue with raw export not being able to write to file that was not properly created.
2. [0000065] Fixed typo found in the "Correct Time Stamp" message after importing data with messed up timestamps.
3. [0000059] Fixed issue where "Show SpeedLane Query Window" option would not display when viewing the plotter.
4. [0000039] Fixed issue with "Export Data to CSV" when unable to successfully create a file.

Version 9.00.0094 (Feb 21, 2020)

Added

1. [0000018] Added release notes for our customers.

Changed

1. [0000014] Updated reports to now display date based on localization.

Fixed

1. [0000017] Fixed bug with firmware upgrade tooltip not showing up correctly.
2. [0000004] Fixed bugs with SpeedLane "Analysis Report" tab generating data for a long time after applying filter with "Stop After" option is disabled.
3. [0000003] Fixed bug with SpeedLane export button not working correctly after enabling filter option with "Stop After" option is disabled.
4. [0000007] Fixed bug with Filter Data By Custom Setting for SpeedLane "Lane" tab, in the report, not displaying values when "Stop After" option is disabled.
5. [0000010] [0000021] Fixed bug where users were unable to import some Tracker .dat files due to error during import.
6. [0000011] Fixed bug where projects from old Stats Analyzer would not be able to merge data with newer imports due to the unit's casing being different.
7. [0000012] Fixed bug where program would fail to properly import Tracker .dat files to older projects that were added before version 9.00.0062.
8. [0000016] Fixed bug where Geocounts Crossfire export not correctly displaying vehicle count.
9. [0000019] Fixed bug where report pages would disappear after exporting reports to PDF.
10. [0000001] Fixed bug where SpeedLane Histogram was not correctly calculating the number of days our data span over.
11. [0000008] Fixed typo in range plot for zoom to fit view message.
12. [0000013] Fixed bug where opened projects would not update if they were not selected after importing data to the project.
13. [0000020] Fixed bug where SpeedLane "Avg Speeder" row on the export summary page was being incorrectly calculated.
14. [0000006] Fixed bug with SpeedLane Monthly/Weekly grid.