Veta 8 Release Notes

Installation

- Windows 10 21H2 is the minimum supported operating system.
- Microsoft .NET Framework 4.8 is required, which is included with Windows 10.
- Veta 8 can be installed on the same machine as Veta 7 or earlier. Previous versions of Veta 8 will be replaced.
- Veta 8 can open projects created in Veta 5, 6, and 7, however previous versions cannot open Veta 8 projects.
- Beginning with 8.0.65, MSIX installations cannot remove versions 8.0.62 and earlier. These previous versions must be manually uninstalled.

8.1.2

Data

- Fix: Regression caused MOBA PMTP data to not be downloadable.

Miscellaneous

- Stability improvements.

8.1.0

Data

- Fix: Corrected coordinate conversions for Minnesota Transverse Mercator County Zones. It is recommended to recreate projects involving these zones.

Miscellaneous

- Diagnostic data has been re-enabled. As before, this feature can be toggled in the Options. This data is no longer stored on the computer, only online.
- Basemaps are now provided by Azure maps.
- Access to *.azure.com is required for both the diagnostic data and map features.
- Stability improvements.

8.0.85

Analysis

- Fix: The Data Lot Temperature TSI chart was incorrect for filter groups containing multiple operation filters.

Filters

- Change: Limited validation is now provided for location filters.
- Fix: Sensor ID and Sensor offset filters are now hidden if there is no corresponding data.

- Fix: Filter group folders with duplicate names are now prevented. For existing projects, the filter group manager will list any duplicate folder names but will not allow saving changes until duplicates are renamed.

Miscellaneous

- Performance improvements.
- Stability improvements.
- The web service where telemetry and errors are sent to is being retired. Sending of this information has been disabled until a replacement is implemented. In the meantime, contact us if you encounter an error.

8.0.84

Data

- Change: All applicable files in a ZIP file will be imported, instead of only the first file.
- Fix: When importing multiple files, an unrecognized file type could lead to inconsistent imports.
- Fix: DPS and PMTP files that contained some duplicate data with other files were not imported correctly. Because duplicate data should not be an issue with this data, the data will not automatically be reprocessed.
- Fix: The heading (direction) of data in ungridded files could be incorrect in one scenario. Due to the rarity of this scenario, data will not automatically be reprocessed.

Filters

- Fix: Offset-based location filters could not be created in some scenarios.
- Fix: For DPS data, the calculated density and air voids were incorrect if the filter group removed data. If the filter group only performed these calculations and did not remove data, the calculations were correct.

Miscellaneous

- Stability improvements.

8.0.79

Data

- Change: Improved support for reading TDS files.
- Change: The Data Files screen will now show information for all non-array blocks in TDS files. Only TDS files that are newly added or reprocessed will show the additional information.
- Change: Improved compatibility with Topcon Sitelink timezones.

Reports

- Fix: The PDF report could fail to be created if there were no results for the sublot analysis.

Miscellaneous

- Change: Previously, some coordinates could not be mapped, causing a crash. Now, these coordinates will be ignored for mapping. However, it is possible these coordinates could cause issues in other areas of the software.

8.0.75

Data

- Change: Ungridded files for DPS and PMTP that contain duplicate timestamps can now sometimes be imported. If a timestamp is present more than once in a file, only the first instance and its associated data will be imported.

Reports

- Fix: Filter group settings did not always report the correct values for the Time and Time Exclusions columns.
- Change: The filter group settings report values for Imported Files, Machines, and Data lot names have been changed. If one or two items are selected, the values of those items will be reported. Otherwise, "All selected" or "Not all selected" will be reported.

Miscellaneous

- Performance improvements.
- Stability improvements.

8.0.73

Existing projects with ungridded (raw) data will be automatically reprocessed when opened.

Data

- Fix: Files with duplicate ungridded data were not imported correctly.
- Fix: The duplicate count for ungridded files was not correct.
- Fix: IC projects were limited to approximately 147 million data points.
- Fix: IC projects with more than 100 million data points may give incorrect results.

Miscellaneous

- Stability improvements.

8.0.71

Data

- New: Topcon PMTP data can now be downloaded directly from Pavelink.

Miscellaneous

- Stability improvements.

8.0.70

All existing projects will be automatically reprocessed when opened.

Data

- Fix: Data was sometimes not imported correctly if one of the files had no usable data.
- Fix: Surface temperature was not always imported for DPS data. Existing DPS projects will be automatically reprocessed when opened.
- Fix: Data recorded in WGS could be imported incorrectly if the first data point in the file was located in a different UTM zone than the rest of the data.

Filters

- Fix: User-created filter group folders could not be removed.

Analysis

- Fix: Pasting data into the acceptance or price adjustments did not update the screen.
- Fix: The PMTP Temperature Data Lot report for DRS did not calculate the Adjustment per lane mile/km correctly for the Total row when multiple filter groups are selected.

Miscellaneous

- Fix: Legend colors with a space in the name could not be pasted into a table.
- Fix: Some values for Station Interval could cause a crash.

8.0.65

Data

- Fix: The previous update broke the ability to import MOBA IC data.

Analysis

- Change: Allow linear price adjustments for DRS.

Reports

- Fix: The TSI category summary table was missing from the PDF report.

Miscellaneous

- Stability improvements.

8.0.62

This replaces 8.0.61, which contained outdated files.

8.0.61 (removed)

All existing projects will be automatically reprocessed when opened.

Data

- New: Updated Topcon downloader to work with Sitelink3D v2. Support for Sitelink3D v1 has been removed.
- Change: Machine name and data lot name will be assigned a value of "(None)" when not present in TDS files.
- Change: The Trimble/CAT downloader has been updated to search for files created by the current platforms. To accommodate both the legacy and current platforms, the list of files found will display the full path of each file instead of grouping files by machine and date. Additionally, the date search will use the creation date of each file instead of using the date in a file's name.
- Fix: Duplicate data detection did not always work properly.
- Fix: In Data Files, the Added column value was incorrect for raw IC data which contained duplicate data.
- Fix: When the Trimble/CAT downloader encountered a file with the same name in different folders, the file could not be downloaded.
- Fix: Removing the last file from a machine type caused a crash.
- Fix: The Trimble/CAT downloader will now accept FileSpaces with spaces.

Filters

- Change: Improvements to the PMTP cold-edge filter.
- Change: Removed ability to rename AASHTO filter groups in the Centerline Offset folder.
- Fix: The minimum and maximum time contained in an IC file was not always calculated correctly, which would cause the range of allowable time values to be incorrect.
- Fix: The filter for "Density, % of Gmm" did not do anything.

Spot Tests

- Fix: When changes were made to multiple spot test types, not all changes were saved.
- Fix: Importing spot test types from a file was not possible in Project Properties.
- Fix: Pasting a spot test with an unrecognized type caused a crash.
- Fix: Deleting a spot test type that is used by a spot test caused a crash.
- Fix: Using stations to create a spot test did not always work.

Analysis

- Change: Increased the number of results available when no data is available (instead of not showing results).
- Fix: Fixed rare scenario causing a PMTP sublot analysis to fail.
- Fix: Running an analysis with sublots on a filter group that had not been viewed on a map could produce incorrect results.
- Fix: Acceptance analysis for sublots with no data caused some report creation to fail.

Reports

- New: Added a column to some coverage tables to indicate if a sublot contains an exclusion.
- Fix: Various corrections to the data lot filter group report.
- Fix: Various issues that could cause Excel report creation to fail.

Miscellaneous

- Fix: After replacing the legends in a project, the legends were not always displayed using the unit system of the project.
- Stability improvements.

8.0.45

Filters

- Fix: If a filter group contained multiple cold-edge filters, only one of the filters would be applied.

8.0.44

Data

- Updated the 3rd party code responsible for coordinate conversions. This fixes issues with Australian coordinate system conversions. Projects that use GDA94, GDA2020, MGA94, or MGA2020 should be recreated.

Filters

- Fix: Creating a location or exclusion filter with an offset source would not always set the associated station-related selections.
- Fix: Changing the source alignment selections for a location or exclusion filter would also change the station-related alignment selections.

Miscellaneous

- Fixed issue that caused basemap images to not load after Veta was open for an extended time.
- Stability improvements.

8.0.42

Analysis

- Fix: Individual passes for compactors were sometimes not analyzed when requested.

Filters

- Fix: Improved renaming of filter groups.
- Fix: Better prevent the creation of filter groups with the same name in the same folder.
- Fix: AASHTO filter groups in Veta 7 and earlier projects that include a direction of travel suffix could not always be renamed properly. Existing Veta 8 projects with this issue will need to be recreated using the project from the previous version or all filter groups should be re-created.

Miscellaneous

- Stability improvements.

8.0.39

Alignments

- Fix: Rare crash when adding alignment files.

Filters

- Fix: Crash when attempting to manage filter groups. This was also responsible for a failure to open some projects.

Spot Tests

- Fix: Rare crash when removing spot tests.

8.0.38

Data

- All projects will have their data re-imported.
- New: Added support for BOMAG ECONOMIZER.
- New: Added support for MDP (Caterpillar ICMV).
- New: Added support for Völkel CMV.
- New: Added support for multiple ICMV types in the same project. Multiple vendors are only allowed for ungridded data. For gridded data, multiple ICMV types are only allowed if they are contained within the same file.
- New: All ICMV types in a data file will now be imported.
- Change: Removed support for Sakai CMV. Any settings related to it will need to be set for Topcon CMV.
- Change: The Volvo ICMVType column is ignored. Instead, ICMV data will be included based on whether or not valid data is present.
- Change: Final coverage has been changed. If a vibratory pass is present at a location, any static data after that pass will be ignored. Pass count will still include all passes at a location.
- Change: Improved conversion of ungridded IC data to gridded data. Occasionally this will result in higher pass counts for very low roller speeds, which usually occur when the roller is changing directions. Existing projects will not be reprocessed due to this change having little effect on most, if not all, data.
- Change: Improved invalid GPS detection for MOBA PMTP data.
- Fix: Rare crash when downloading files from TCC.

Filters

- Change: The filter group manager button was moved to be directly on the toolbar.
- Change: When using the AASHTO naming template, groups are now created individually. This allows more flexibility and groups can now be renamed.

Spot Tests

- New: Added a spot test type manager to the Options. Types can be added, removed, changed, exported, and imported. Each test type has a name and unit. The map shape and colors can be set. A legend can also be defined to convert the test value to a color when drawn on the map.

Analysis

- New: Paver stops close together are grouped. Groups will be expanded when zooming in or clicking the group.
- New: A Filter Review section has been added to the Analysis. This feature will list filter settings that differ from the defaults. Location filter values can also be compared to a user-supplied list to ensure the settings are the same.
- New: Price adjustments and colors were added as options to the PMTP temperature DRS (differential range statistic) and TSI (thermal segregation index). When selected, these values will be reflected in charts and tables.
- New: A coverage specification was added for PMTP temperature.
- New: Results categorized by lift and data lot are now available for DRS and TSI when filter groups are present in the respective folders. Results categorized by sublot are also available for this data.
- New: IC sublot compaction curves now contain the mean PMTP temperature for that sublot when available. The PMTP analysis does not need to be selected. If it is selected the mean temperature will respect the removal of paver stops setting.
- Change: Paver stops on the map are less likely to appear on top of the data.
- Change: With the support for multiple ICMV in the same project, the compaction curve will now only be shown on the tabs for ICMV, not temperature.

Miscellaneous

- New: The map search now offers a choice between filtered and unfiltered data.
- New: The map search will show results for all machine types.
- New: The map search displays a heat-loss curve.
- New: Location filters and exclusion location filters can now be shown on most maps. When applicable, these filters for the currently applied filter group will be shown. However, when a location filter is selected in the Filters screen, only that location filter will be shown. Likewise, an exclusion filter will only show itself and its associated location filter (if applicable).
- Change: The map layout and base map options are now consolidated under the Maps menu.
- Change: All settings files are now stored in the Local AppData folder, instead of the Roaming AppData folder.
- Fix: Veta could start off-screen if a different resolution or monitor layout is used.

Limitations

- Individual lifts in Trimble CSV files are not currently recognized. The pass counts shown are for all combined lifts.
- Datum conversions are not supported.
- Adding points manually to an exclusion filter may take multiple tries due to the exclusion filter restricted to the boundary of the associated location filter.
- Machine-specific exclusions require a machine-specific location filter for cropping to work.
- Projects created in Veta 7 and earlier projects with AASHTO filter groups cannot always be properly imported into Veta 8. If you encounter renaming issues, the filter groups in Veta 8 should be re-created.

- The Excel filter group report will only report one ICMV, even if multiple ICMV are present.