ProVAL 3.4 Release Notes

Known Issues

- Projects or Input Sets from ProVAL 2.x that are saved in a different region than your system can't be opened by ProVAL 3.x. This is due to the different default number formats throughout the world.
- Creation of the MS Excel Report may fail with long file and/or profile names since Excel imposes a limit of 31 characters on sheet names.
- PSD analyses will fail with profiles that have an extremely large number of points.
- Sections that overlap with lead-in or lead-out do not currently exclude the data located in the lead-in or lead-out. This is an edge case, as sections should not be overlapping in these areas.

3.40.0297: July 30, 2013

Editor

- Exported sections sometimes had incorrect distance offset, caused by the existence of a lead-in.

3.40.0296: July 17, 2013

Editor

- Zooming only worked when selecting a large area. Fixed by chart vendor.

Analysis - Smoothness Assurance

- Cells in the grinding locations table would sometimes be blank.
- Applying a grinding strategy did not clear grinding results.
- Changes in grinding screen did not clear grinding results.
- Removed decimal places from Total Ground.

Analysis - OWL

- Cells in the grinding locations table would sometimes be blank.
- Applying a grinding strategy did not clear grinding results.
- Changes in grinding screen did not clear grinding results.
- Removed decimal places from Total Ground.
- Display warning if the selected profile is not less than 5,000 feet (1,524 meters) long.

Reports

- Greatly improved speed of creating Excel reports.
- Added profile length to the PDF report for a file.
- Improved number formatting for Ride Quality Fixed-Interval Report.

Misc

- Scrolling with the mouse wheel should now work in Recent Projects list.

3.40.0294: April 10, 2013

File Import - Texas
- Files with only one profile caused the File Import Wizard to show.

Analysis - Profiler Certification
- If SI Units were selected in the Options and a project using SI Units was opened, the filter wavelengths may still show as USCS units.

3.40.0293: March 27, 2013

Miscellaneous
- The list of Analyses in the toolbar had a blank space at the end the first time ProVAL is started.
- Selecting the current Analysis in the toolbar dropdown did not change the view to that Analysis.

Analysis - PSD
- Changing the unit system did not affect the wavelength filters for selected profiles.

Analysis - Profiler Certification
- When using the SI unit system, the analysis was still using USCS for the wavelength filters.

3.40.0291: November 15, 2012

Installation
- Microsoft .NET 4.0 Client Profile is now required.
- The software can be installed per-user or per-machine (all users). At this time, you should always install per-machine, which is the default. The per-user option is provided as a work-around for network configurations that store your user profile on the server rather than your computer.

Charts
- Charts can now be printed directly using a new button on the chart toolbar. The charts will be sized to fit the sheet of paper.
- The alternate chart template is now available. There is now an option to use this template when printing. For example, the alternate template could be used for only black and white, to distinguish profiles on a non-color printer.
- When the moving the mouse over an event marker, a vertical line will be drawn to better show the marker's location.
- The back button acts more as expected when zooming and scrolling.
- Template background color is now applied to the Legend background color.
- Improved performance when drawing event markers.
- Increase chart sizes by removing extra whitespace around the chart.

Reports

- When copying tables to the Windows Clipboard, there is now an option to not include the column captions.
- When exporting reports to Excel and text files, there is now an option to include detailed results. This option is off by default due to the greatly increased export time for some reports that use large profiles.
- Excel files are saved in Microsoft's OpenXML format (XLSX), which is useable by Office 2003 and later. This increases the row limit to 1,048,576 as compared with the XLS limit of 65,536.
- Excel columns are automatically sized to fit their contents.
- Reports are automatically saved.

Viewer

- Files with start and stop coordinates can be shown on an external map using the 'Show on map' item in the files' button menu.
- Software would not import two files with the same name, but an added extension. For example Test.erd and Test.erd.ppf.

Editor

- Added latitude and longitude for event markers and the file start/stop locations.
- After deleting a files, software would sometimes crash after making changes in the Editor.

Analysis - OWL

- The current row in the grinding table will be remembered after running the grinding simulation.

Analysis - Profiler Certification

- The analysis was allowing more than one basis file to be selected.
- Added a 'Detailed Report' that presents more information than the 'Summary Report' and in a different layout.
- Comparisons that fail to meet the minimum Repeatability or Accuracy are bolded.

Analysis - Profile Synchronization

- The analysis now allows multiple synchronization results (correlogram, elevations, and filtered profile slope) on the same chart.

Analysis - Ride Quality

- The Continuous and Fixed-Interval analyses now use separate thresholds and segment lengths. This means Templates can be created for each. This also means that any file created in 3.4 will not use the same values when opened in 3.3.
- The Fixed-Interval chart and tables results are shown in individual screens, for one file at a time. The plot is drawn as a "skyline" instead of a bar chart. This gives the ability to view all profiles in each file at once and makes the table more readable.

Analysis - Smoothness Assurance

- The Fixed Interval reports now contain an additional column for the number of defective segments contained in each fixed interval. The defective segments count is based on the Short Continuous specifications.
- The current row in the grinding table will be remembered after running the grinding simulation.
- Changes to the grinding simulation inputs will now clear the after-grinding results.

Miscellaneous

- The Home/Start screen has been simplified to show only the most recent unsaved project.
- Software crashed if the options file was damaged.
- The Analysis Validation button has been removed. Validation alerts will automatically show at the bottom of the screen.
- The currently selected analysis will be highlighted in the analysis list.
- When importing RSP files, lines marked as 5415 are now identified as events.
- The splash screen has been temporarily removed to prevent startup crashes.