

ProVAL 5 Release Notes

Installation

- The minimum required operating system is 64-bit Windows 11 23H2.
- Only x64 processors are supported.
- Microsoft .NET Framework 4.8 is required (included with Windows 11).
- ProVAL 5 will replace ProVAL 4.
- Previous versions of ProVAL 5 will be replaced.

5.0.4

Analysis: Optimal WIM Locator

- Fix: Issues with the grinding-related inputs and unit conversion.
- Change: The maximum grinding depth was changed to two decimal places when using inches.

Analysis: Smoothness Assurance

- Fix: Issues with the grinding-related inputs and unit conversion.
- Change: The maximum grinding depth was changed to two decimal places when using inches.

Miscellaneous

- Fix: When starting ProVAL with a project that could not be opened, ProVAL would be left in an unstable state.
- Fix: On computers that do not use a dot as the decimal symbol, ProVAL 2 projects would sometimes fail to import or were imported with default analysis values.
- Some unit conversions were missing. The only known instance of this causing an issue is when converting Profilograph analysis results from non-SI to SI units.
- Stability improvements.

5.0.1

Analysis: Profile Screener

- Fix: Low-pass filtering detection may report a false positive.

Reports

- Fix: PDF reports could not be created if the Verdana font was corrupted.

5.0.0

Editor

- Fix: Exporting sections to a new project added the sections twice.
- Fix: Applying a route did not update the Editor's map Locations menu.
- Fix: Changing the lead-in after a route has been created did not update the start coordinate for the Full section. This causes the Editor's map Locations menu to not be updated as well as the Start and Stop Placemarks in exported maps.

- Fix: Changing the lead-out after a route has been created did not update the stop coordinate for the Full section. This causes the Start and Stop Placemarks in exported maps to not be updated.
- Change: If present, the existing route in a file will be available as an option when finding routes. This allows re-applying the existing route to assign coordinates to sections and events.

Analysis

- Fix: Analyses that allow selection of individual profiles within a file now always require the profiles to use the same section. Different sections could cause a crash.

Analysis: Automated Faulting

- Fix: The analysis failed or was incorrect when analyzing a section that did not start at the beginning of the profile.

Analysis: Smoothness Assurance

- Fix: The fixed interval chart could show the wrong y-axis values if all data was less than the threshold. The RN chart was unaffected.

Miscellaneous

- The IMSL library has been replaced. This may result in minor numeric differences, with no meaningful impact.
- Stability improvements.

Known Issues or Limitations

- Files containing values of NaN (Not a Number) are not supported. When possible, these values will be ignored, but in most cases, NaN will cause a file to not be imported.