Release Note

Product:	Software GEDO Rec
Software-Version:	2.4.0
Date:	July 30, 2019
Author:	TS
Relevance:	Important
Action:	update

- ***Feature: New prism dialogue and prism type MT1000***
  The dialogue for setting the prism definition has been revised. In addition to the previous configuration, options for standard prisms in passive and active mode, the prism type MT1000 active and passive is now also available. When these prism types are selected, the vertical angle measurement is automatically corrected. It is important that this prism type is only used in combination with the corresponding Trimble prism MT1000. Target IDs for passive prisms are no longer supported.

- ***Feature: Individual base length for twist calculation***
  Until now the twist value displayed in the measurement dialogue was always based on 1m. The base length for twist calculation can now be set individually within the measurement options dialogue on page 2. The calculation for the displayed values is always done by interpolation based on the previously saved measured points.

- ***Feature: Base length for twist calculation in export format "Sensor values (*.csv)"***
  When exporting the sensor values for gauge and cant to the "Sensor values (*.csv)" format, the base length of the twist calculation can now be specified by the user. In addition, a second twist parameter for checking different wave lengths has been added.

- ***Feature: Combination of Profiler and GNSS***
  To date, an absolute profiler measurement could only be carried out in combination with a total station measurement. Now GNSS line points can also be used to determine absolute coordinates for the profiler measurements.

- ***Feature: Target height and offset for profiler measurement***
  When measuring with the Profiler, a target height and a longitudinal offset can now be specified in a similar way to the measurement with the total station. The intended profiler target is automatically selected as soon as the Profiler measurement menu is called up.

- ***Feature: Automatic adjustment of column width***
  When displaying a data list, the column width is now automatically scaled based on the table contents.

- ***Feature: Checking the trolley orientation within one measurement section***
  For the track trajectory calculation, it is essential that the alignment of the track measuring trolley is identical for all measurement points from one station setup within one line. The settings for the fixed trolley side and the prism side can therefore not be changed after the measurement has started. The settings still remain individual if a new line name is assigned or measured from a new position.

- ***Instrument communication updated and increased***
  The software component for total station communication has been updated. Due to this, the command execution becomes much more reliable and significantly reduces the number of messages that are particularly common for Win32/64 systems.
  Further, the connection mode "USB+Radio" is no longer supported. If this mode was set during a previous software installation, the communication settings must be checked and confirmed.
  As an alternative to an integrated radio module, an external radio module Trimble Data Link Radio 2.4 GHz (TDL 2.4GHz) can now be configured for the communication with a total station.
  For communication via Bluetooth, a connection via RS232 must be used with the COM port set according to the Windows settings.

- ***GEDO Scan functionality removed***
  For more than 2 years the data recording with a scanner has been taken over by the “GEDO Scan” software and developed there. Due to this, the GEDO Rec module Scan has been completely replaced and is now no longer included in the GEDO Rec installation package. Previous software licenses have already been transferred to the new software.

- ***Plausibility of track geometry settings***
  The system now checks the definitions of the standard gauge and cant base settings for plausibility when setting the track geometry. If the two values do not match, the setting cannot be accepted.

- ***Bug fix: Invalid character “?” in line name***
  Special characters such as "?" are not allowed in the definition of the line name. However, it could happen from time to time that records with invalid characters were saved, which caused problems when opening the project later. Instead of the "?" symbol, the line name is now initialized with "Line" and the point name with "Point".

- ***Bug fix: Gauge value for deactivated sensors***
  Up to now, measurements with deactivated sensors always documented a fixed track gauge of 1435mm. This has now been corrected so that the standard gauge is used according to the currently defined track geometry.

- ***Bug fix: Scaling of Trimble functions dialogue***
  When adjusting the window size in Win32/64 systems, the instrument function dialogue may not have been scaled correctly so that the functions could no longer be triggered. This has now been fixed.

- ***Bug fix: Turn total station during station setup***
  Previously, the current instrument height was not taken into account when automatically turning the total station towards the fixed point during station setup. This has now been fixed so that the vertical angle implies the current instrument and target height.

- ***Bug fix: Orientation angle for station setup on a known point***
  When a known station setup has been performed, an incorrect unknown orientation may have been calculated if no backsight orientation was not used in 3D. This is now fixed.

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