Read Me

Trimble® Business Center – Version 5.00

The following items were not included in non-English versions of the Release Notes.

New features:

Field data

- ADA XML file support - You can import into TBC ADA XML files (in addition to the current support for 12DA and 12DAZ files) for the Australia / New Zealand markets.
- LandXML importer enhancements - The LandXML importer includes additional options for creating layers during import to separate data contained in the LandXML file. This allows you to manage and use the data faster. (See "Import LandXML Files" in the TBC Help.)
- Trimble Earthworks design file support - You can import into TBC design data contained in Trimble Earthworks .DSZ files.
- Updated Convert to RINEX utility - The Convert to RINEX utility application, which is installed along with TBC, converts Trimble GNSS measurement files in DAT, T00, T01, T02, RT17, RT27, or .cap format to RINEX version 2.10, 2.11, 3.02, or 3.03 formats. The new version 3.08.0 corrects issues with observables and combined ephemeris data. It also removes dependency on the Visual Studio 2008 runtime library.

CAD and drafting

- PDF vector extraction enhancement - The PDF vector extraction feature includes improvements to layer management and layer grouping, making the organization of data from a PDF faster on import. (See "Import Vector PDF Data" in the TBC Help.)
- Standardize Layer command enhancement - You can use the Shift key to select individual objects or groups of objects and assign them to a layer. (See "Standardize Layers" in the TBC Help.)

Scanning

- LAS exporter enhancement - The LAS (.las) point cloud exporter has been enhanced as follows:
    - You can select to export point cloud data in the latest LAS version 1.4 record format.
    - Exported LAS files include ASPRS classification code values.

Resolved issues:

- The Create Subgrade Surfaces command required miscellaneous bug fixes and stability improvements.
- The Area Length Count report was slow to generate EXCEL files when there was a large amount of source data selected.

- There were issues associated with plotting high-resolution images through Dynaviews using the Sheet Plotting workflows.
- On import, certain Bentley MX (.fil) files written in specific formats of the GENIO standard were missing data.
- You could not import 12d Model 12DAZ files into TBC without having to rename the file to .zip.

Known issue:

- Either of the following error messages may display when using the Publish to Clarity command to publish 3D data displayed in a TBC Station View to a Trimble Clarity presentation:
  - "No valid terrestrial stations exist in the selected folder."
  - "Failed to create an image for the presentation. The process will abort."

  At the time of release, there is no workaround for either of these errors. However, it is recommended that you delete what could possibly be very large temporary files that were created during the aborted publishing process and not automatically deleted as they should have been. These files are located in ..\ProjectFolder\SkyboxSubfolder.
- AMD Ryzen processors are currently not supported in TBC.

Cumulative patch updates:

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Note the following:

- Baseline Processor change - The latest version of the TBC Baseline Processor (included with TBC v5.00) has been enhanced to provide a better balance between occupation time and the probability of a wrong fix. Because of this, the updated processor requires 1/2 hour per 100 km to attempt a fix, as compared to 8 minutes with the previous version. If you are working with an older data set with shorter occupation times, a less precise but more reliable float solution is returned.

This patch includes the following enhancement:

- Calculation of template based average end area volumes - Some minor changes have been made in the calculation of template based average end area volumes to make them more accurately reflect the surface. Most projects will see no differences in volumes.

  The changes affect two special cases:

  - The first or last reporting station extends beyond the limits of the defined corridor surface - If the horizontal portion of the corridor extends beyond the vertical definition, a portion of the corridor surface will not be created. In previous versions of TBC, the area of the undefined station would be taken as zero and averaged with the next. Now the program will report no volume in this section. You should ensure the corridor is valid in the range used to report volumes.
  - Null templates are used - If a null template is used, TBC now inserts a template adjacent to it to be used in the calculations. Rather than using zero area at the null template, the areas of the adjacent template will be used, which will be more accurate.

  These changes for corridors also affect the Utility Takeoff computations. When the node adjustment option is enabled in the template, you should see no difference in volumes. When the node adjustment option is not enabled, the volumes now start at the beginning of the run

and stop at the end of the run. Previously the calculations were extended just before and after the first and last station and averaged the last valid area with the zero area of the extended section. This will cause minor differences, which will be more accurate than previous versions.

This patch fixes the following issues:

- A background map may not update when you change the coordinate system.
- The “3D View” may become unusable in some conditions (for example, the view is not close to the origin of the project), requiring you to open a new “3D View”.
- The “Print Preview” command may not provide correct results.
- The “Publish to Clarity” command may cause an exception error.
- The application may freeze up when you draw a linestring in the “Cutting Plane View.”
- Processed polygon feature codes may not produce closed polygons.
- The “Adjust Traverse” command may not work as expected with integrated survey data.
- Volume calculations for large surfaces are too slow.
- The “Cutting Plane View” shows incorrect point clouds with oblique planes.
- The DWG importer in TBC v5.00 cannot read certain files that the TBC v4.10 could read.
- Several reports (Single Proportioning, Double Proportioning, Map Check and Traverse Adjustment) can cause an “Object reference not set” error.
- When setting the “freeze pane” property in a TBC Excel report, an exception error occurs.
- You cannot import a JOB file when no license is installed.
- The “Feature Matrix” link in the online help does not work.
- When an object is selected and you open the “Layer Manager,” the layer on which the object is displayed is not selected by default as it should be.
- If you use the “Copy Objects” command to pick a road intersection, an exception error may occur.
- The “Export Trimble Access job file” exporter incorrectly requires a “Field Data” edition license. It should require no license.
- When you export a DXF file, an unexpected increase in the file size may occur.
- The “KOF Vector Data exporter,” used to write coordinate and observation files that can be read in ViaNova Novapoint software, is missing in TBC v5.00.
- 6The “SCS900 Tunnel XML File” exporter is missing in TBC v5.00.
- The “Field Data” exporter is missing from TBC v5.00.
- The DWG import option to add a layer prefix is incorrectly including the prefix with layer “0”.
- Arc polyline created in AutoCAD Civil 3D is flipped when imported into TBC v5.00.
- Corridor strata may report the wrong cut material.
- XML Typical Section Templates exported out of TBC may not import into the same corridor using the “From File Definition” option.
- The “Somero nod format” exporter, used to export surface files for machine control on concrete screeding machines, incorrectly requires a “Field Data” edition license. It should require no license.

- There is no way to add reference line to a template when using the “Create Side Slope” command.
- You may experience low performance when rotating and panning point cloud data in views, particularly station views.
- The “Shapefile” importer works without the required “Field Data” edition license.
- The “Corridor Earthwork Report” displays the wrong volumes with station equations.
- When you delete a corridor template, the template markers are still displayed in the graphic views.
- You cannot delete an entire block of instructions at one time when using the “Corridor Template Editor”.
- A full upgrade of TBC may not include added languages.
- The “Colorize Scans” command is not working.
- The license required for the "Controller Manager" command should be “Viewer” not “Field Data.”
- An error may occur when you select a mobile mapping mission trajectory as a linear path for a cutting plane.
- These is a mismatch with control points when using the Mobile Mapping “MX7 Export to TMX” exporter.
- There is a shift in height when using a geoid in the coordinate system with Mobile Mapping MX7 data.
- There is a Mobile Mapping MX7 version 3.0 mismatch to ground control points in TBC.
- The Mobile Mapping “MX7 Export to Mapillary” exporter includes inconsistent trajectory jumps.
- The license required for the importing and exporting SHP files should be “Field Data” not “GIS.”
- The license required to import VCL files should be “Field Data.”