Terramodel® 10.61L

Update from Terramodel 10.61K

Release Notes

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Software for
Civil Engineers
and Surveyors

Trimble

GEOCOMP SYSTEMS

Version 10.61L
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Release Notice

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These release notes are for the upgrade from Trimble Terramodel® 10.61K to 10.61L. This is Revision 3 of these release notes.

Introduction

Terramodel for Windows is an application from Trimble for surveyors, civil engineers and others to display, design, draft, edit and convert terrain and alignment models of land, stockpiles, roadways, railways, sea floors and so on.

Geocomp Update is an update and extension for Terramodel 10.61 which significantly improves the capabilities of Terramodel with new and modified features including TML commands, aliases, menus and configuration files.

Terramodel 10.61L is the latest release of Terramodel with Geocomp Update.

These release notes describe how to install Terramodel 10.61L, **for those who have already installed Terramodel 10.61K** and don't have any need to reinstall. If you have not installed 10.61K, or you are a system administrator, please refer to the *Release notes for Terramodel 10.61L including Geocomp Update* which covers the installation from scratch, licencing, dongles, and so on.

These notes also summarise the most significant changes since 10.61K. See **New commands and changes** below.

Software for Terramodel 10.61, Geocomp Updates 10.61K and 10.61L, and subsequent updates, is available for download from www.geocomp.com.au/geocompupdate/.

How to Install

Use GCHELP command to confirm that you have installed Terramodel 10.61K, close Terramodel and then download and run *Terramodel_10.61K_to_L_Geocomp_Update.exe* from *www.geocomp.com.au/customercare/tm10.61L*.

If Geocomp Update 10.61L has been installed previously, you may be prompted to *Remove*. Simply *Repair* instead.

To confirm that Terramodel 10.61L has been installed, run GCHELP again. The title of the window should read **GCHelp Report for Terramodel 10.61L**.

GCUPL.TML
If we have separately supplied a new GCUPL.TML file to enable commands in the Geocomp Update to work with your Security key, replace this file now in C:\Program files (x86)\Trimble\Terramodel\Geocomp.

Help Menu

Contents
Contents requires Microsoft WinHlp32. This is a standard feature of Windows XP, an optional feature of Windows Vista, 7, 8 and 8.1, and is not available for Windows 10. On Windows 10, use Index + Search instead.

Index + Search
Index + Search sub menu opens Help files using a different WinHlp32 to the one used by Contents so may show the Index and Search tables only.

New commands and changes

ArcBreak

Breaks set arcs into chords. New points can now be on the current layer or the set layer.

BlineChk

Check for crossing breaklines. Moved to Reports menu

CleanUp

Removes unnecessary points and segments from sets and plines. Replaces CleanSet.

Conform

Report road thickness conformance. Standardized rounding.

Contents

Contents, Index and Search Help tabs for Terramodel, Import-Export and Raw data editor. Not available for Windows 10; use HelpTM, HelpIE and HelpRDE instead.

CrossChk

Check for crossing lines. Moved to Reports menu

CutFill

Move design surface to balance volumes. Now balances cut, fill or net.

Dline

Dimensions between two locations. Now select the linetype and text style.

DrnGrade

Label a set segment in a drain with a grade. Now select leader linetype.

DTM2LDBx

Export to Leica 120/VIVA LandXML and DBx files. If X*.* are not created, and you need them, download and install Microsoft Visual C++ 2013 Redistributable (x86) - 12.0.30501.

DWGIN, DWGOUT, DXFIN and DXFOUT

AutoCAD and BricsCAD file conversion. Now converts Geocomp_64 colours to approximate default AutoCAD_255 colours and vice versa. Exports to R2000 format.

DXFCHANG

Relayers layers in a DXF file according to a mapping file. Now maps Terramodel layers.

EditINI

Edits TMODWIN.INI colours and resets default values.

EvalDTM

Report problems with breakline formation. Now faster and counts 2D, non-contourable and zero-height points.

Export

Export data using scripts. New P,E,N,Z.D .CSV export script. AutoCAD and BricsCAD DWG and DXF scripts now map colours Geocomp_64 to AutoCAD_255 and export to R2000. For Import/Export Help on Windows 10, use HelpIE.

F7, F8, F9 and F11

Label points with numbers, markers, elevations and names. Now works in all views.

GC03

Reports chainage and offset from HAL and VAL. Now remembers selected VAL record.

GC10

Reports lengths and areas. Added CSV output.

GC12Din

Imports .12DA.files from 12D. Can now import slope alignments, .12DAZ format, combining curves, curves > 180 degrees and new drains. Matches layer colours to objects.

GC12Dout

Exports to .12DA. Now exports multiple DTMs and replaces invalid characters.

GC16

Modify colour and linetype using a mapping file. Now select any objects by group, name or layer with wildcards.

GC22

Checks DTM edges. Now relayers points outside boundary and removes 2D and non-contourable points from boundary. New Report only option.

GC30A

Reports coordinates and elevation difference to DTM. Now modifies colours of point within tolerance. Now reports standard deviation. Now reports average and RMS to four decimal places. Now differences to points outside DTM are shown as *. Now changed names of points outside DTM are removed.

GC31

Removes duplicate points within tolerance. Now only combines names that are different.

GC35

Create points at centroids. Now derives elevations from plines or sets.

GC42AB

Compares as-built points with road design. Fixed problems.

GC63

Intersects a batter defined by two sets with a DTM. Fixed a problem with long sets.

GC80

Subdivision lots area check. New lot area range report.

GC82

Compute horizontal and surfaces areas with optional boundaries. Replaces DTMArea.

GC86

Move points away relative to alignment. Now also moves blocks and text.

GCAdjDes

Adjust points for new vertical alignment. Now also for new slope alignment.

GCBench

Creates a set by projecting up or down to a DTM, datum or offset. Replaces BENCH.

GCCSVIn

Imports .CSV files of points. Now you can browse to select multiple files

GCDtmBdy

Creates plines at DTM edges. Now you can create plines or sets in DTM or current layer.

GCBlkFix

Modify colour and explode hatching in block definitions.

GCCoord and Coordcon

Coordinate system conversion. Added Ripon94, Meeka94 and Yandi2012.

GCChord

Create chords from arcs, spirals and splines.

GCGeoIn

Imports Leica .GEO coordinate file. Now imports elevations.

GCGrdVol

Computes volumes within grids or regions. Now areas or regions from xlines sort in chainage order.

GCHelp

Reports Terramodel and Geocomp Update versions, serial number, search path, units, modules and configuration, prototype and workspace files.

GCIn2Set

Inserts points into sets. Now can replace 2D points with 3D points, relayer 3D points and delete 2D points.

GCKMLin

Imports Google KML data. Can now import KMZ.

GCLASIN

Imports lidar data in .LAS format. Now can import .LAZ data.

GCMagnet

Assign properties to points and text imported from .DWG files exported from Topcon Magnet Field.

GCMAPOut

Create a mapping file of layer names for use with DXFChang or LayerMap.

GCNearLn

Select points near multiple selected lines to be used in other commands.

GCOffElv

Create plines or sets at a horizontal and vertical offset graphically.

GCScale

Scale coordinates in X, Y and Z. Stores scale factors. Can specify Z origin. Replaces Scale and ScaleElv

GCTrace

Traces a boundary inside selected objects. Now the dialog has been improved. Fixed a problem hatching the first pattern on the list.

GCXlines

Creates and updates xlines in roadjobs. Now uses chainage/station format from UnitsSet command and prefixes labels.

GFE

Geodimeter File Editor. For GFE Help on Windows 10, use HelpGFE.

HelpGFE

Help for Geodimeter File Editor.

HelpIE

Help for Import and Export scripts.

HelpRDE

Help for Raw data editor.

HelpTM

Help for Terramodel.

HelpToolbox

Help for Toolboxes.

HelpTV

Help for Terramodel Visualizer Complete.

HelpTVL

Help for 3D Visualiser (TVLITE).

Import

Import surveys using scripts. Trimble raw survey (dc) script now ignores HA observations with no SD. New script to set-up RDE to paste .RDE data. AutoCAD and BricsCAD DWG and DXF scripts now map colours AutoCAD_255 to Geocomp_64. For Import/Export Help on Windows 10, use HelpIE.

LabBends

Modify point names to show deflection angles.

ListRef

Lists reference files. Now reports to P3Pad.

LotJoin

Create closed sets around text inside sets. Now also selects plines.

LSec1

Labels long sections. Many improvements.

OffElevM

Create plines or sets offset from multiple sets. Now you can select left, right or both sides.

PtCase

Change the case of characters in alphanumeric point numbers.

QuikLSet

Quickly isolates, reviews or changes the visibility of layers. Now you can choose whether the Isolate tick box is always on.

RailCant

Compute elevations by railway cant.

RDE

Raw data editor. For RDE Help on Windows 10, use HelpRDE.

ReNumRec

Renumber records to bring to front. Now much faster and "no sort" option.

RoadReg

Create roadjobs from registered HALs.

Road_Run

Creates 3D strings for Leica machine control. Now creates profiles from roadjob surfaces, export chainage equations, create files and folder with same name as HAL. If X*.* files are required but not created, download and install Microsoft Visual C++ 2013 Redistributable (x86) - 12.0.30501.

SclBlks

Scale blocks and apply scale, map colour, AutoScaling, Dynaview clipping and now, AutoRotation.

SNR

Search and Replace characters in names and text. Now also replaces in alphanumeric point numbers.

SNRFile

Search and Replace characters in an ASCII-encoded external file using a mapping file.

TMXLayer

Export TMX file containing layer information only.

Toolbox

Open and manage toolboxes. For Toolbox Help on Windows 10, use HelpToolbox.

TV

Visualiser Complete. Opens TV if installed. For TV Help on Windows 10, use HelpTV.

TVLite

3d Visualiser. For TVLite Help on Windows 10, use HelpTVL.

XVolumes

Reports all roadjob volumes. Now you can include all phases separately in one report.