

# Terramodel<sup>®</sup>

*including Geocomp Update*

## Release Notes

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Version 10.40  
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## **Release Notice**

This notice includes extracts from the September 2003 Terramodel Release Notes.

These release notes are for Trimble Terramodel® 10.40 with Geocomp Update.

# Introduction

Upgrading to *Terramodel 10.40* offers the following benefits:

Improved ability to exchange data with other systems through the ability to:

- Import AutoCAD 2004/2005 DXF and DWG data
- Export Roadjobs to LandXML

This is a complete installation of *Terramodel 10.40*, including *Geocomp Update*. It may uninstall releases prior to 10.30.

These release notes describe changes and new features added since *Terramodel 10.31 with Geocomp Update*. Please also read *Terramodel 10 User Guide* and *Terramodel 10.20, 10.30 and 10.31 with Geocomp Update Release Notes*.

For other applications on this CD, see their specific *Release Notes*.

See *\Documentation\en\* folder for release notes, manuals, user guides, training guides, instant experts and so on in Adobe PDF format. For a detailed list, see <http://www.geocomp.com.au/support/terramodel/10.40/cddocs.html>.

# Installation

When you insert the Geocomp Systems installation CD for *Terramodel 10.40*, an AutoRun menu should appear. If not, execute AutoRun.exe in the root folder of the CD.

## Installing Terramodel 10.40

*Terramodel 10.40* requires Windows 95, 98, Me, NT, 2000 or XP.

If you use the *Geocomp Data Collector Interface* with certain data collectors, you may require Windows 95, 98, NT, 2000 or XP Pro.

You will need administrator user privileges during installation only.

Before installation, you may want to back up any files you may have changed that might be overwritten, replaced or updated. You can have a custom folder in the Terramodel Search Path containing your configuration files that is not touched by the installation. Please refer to *Trimble Terramodel 10.12 with Geocomp Update Release Notes*, or the *User Guide* for an explanation of the Terramodel Search Path.

Select the first option from the menu to install (or uninstall) Terramodel 10.40. You can select English, Spanish, French or German.

Once you have accepted the licence agreement, select Normal Terramodel Configuration, unless you need the Specialized SCS900 Configuration (which sets default screen colours to match that system).

If you selected English, now choose US or International English. The principal difference is that US English uses the *Station* and *Color* idiom whereas International uses *Chainage* and *Colour*. Note that while US English is the default, most of our users prefer International English.

Whichever language you choose, the Geocomp Update (see below) installs the Geocomp menu and default metric prototype file. You can easily choose another prototype or menu.

Unless you are tight for hard disk space, select Complete to install all the features.

During installation, you will get requests to display *readme* files. Select No, because the relevant content is repeated in this document you are now reading.

*Terramodel 10.40* is added to the programs in the Windows *Start menu* under *Trimble Office*. You also have the opportunity to add or update Desktop shortcuts for *Terramodel 10.40* and *TML List*.

## Coordinate System

The Terramodel installation can modify coordinate systems used by functions such as COORDCON, GEOSYS, *Coordinate System Manager* and other Trimble applications such as *Trimble Data Transfer* and *SiteVision*. If you have already set a coordinate system in any Trimble application, select No when you are asked “Would you like to replace the coordinate system and sites?”.

## Don't reboot yet

If you are asked to reboot at the end of the installation, select No, and continue to install the Geocomp Update.

## Geocomp Update

Once *Terramodel 10.40* is installed, you will be asked whether you want to install the *Geocomp Update*. You can install it now, or select the *Geocomp Update* from the AutoRun menu later.

*Geocomp Update* extends *Terramodel 10.40* with new and modified programs developed by Geocomp Systems. It also modifies the Windows Registry and *.ini* files. This upgrade is available free of charge for each Terramodel licence with a current *Geocomp Systems Customer Care Membership*. To join, see [www.geocomp.com.au/contact/](http://www.geocomp.com.au/contact/).

This Geocomp Update modifies *tmodwin.ini*, *p3server.ini* and *alias.ini* to add to colourmaps, Terramodel Search Path and link to our default prototype and AutoDraft Configuration files. You can easily reselect your existing prototype, *.adc*, and menu files after installation.

## Hydrographic Data Management System

If you prepare hydrographic charts, install the *Terramodel Hydrographic Data Management System (TM HDMS)* from the AutoRun menu on the CD. To use HDMS, refer to *hdms.pdf* installed with the software.

## Checking installation

After completing both installations, reboot. In Terramodel, select About from the Help menu. This will confirm the version of Terramodel and the modules.

If the only module listed is Field Data, either no modules have been found on the key, the key cannot be found, or the lock version needs to be updated.

If there is no Products button next to the OK button, the key cannot be found and you should see SafeNet Sentinel System Driver below.

Click on the Products button. If the lock version is 0 or 1, you will need to upgrade the lock version to 2 to activate the modules for Terramodel 10.40. If so, see *Trimble Terramodel 10.12 with Geocomp Update Release Notes*, any instructions provided with your upgrade code or go to <http://www.terramodel.com/LockUpdate>

Blue crosses are permanent modules. Blue clocks are timed modules. If timed, note the number of demo days left.

Try a few commands from the menus and toolbar. Try a TML that is only included with the Geocomp Update such as GCIMPORT.

## Sentinel System Driver

All Terramodel modules, except Field Data, are secured with a Sentinel SuperPro key made by SafeNet (previously known as Rainbow). The key contains the code indicating the licence number, modules and version and plugs into either a USB or parallel port.

On most computers, to see the key on the port, the *Sentinel System Driver* must be installed. Terramodel installation should install the *Sentinel System Driver* automatically. You can install version 5.41 of the driver manually using the AutoRun menu.

Remove any USB keys before installing or removing the *Sentinel System Driver*. Otherwise, the USB portion of the driver installation might fail.

The latest driver and a troubleshooting guide are available from <http://www.safenet-inc.com/support/tech/sentinel.asp>

Most new Toshiba notebooks by default only allow the Sentinel System Driver to activate the USB port, and not the parallel port. If Terramodel cannot find the key on the parallel port of a Toshiba notebook computer, even after installing the driver, see [www.geocomp.com.au/support/toshiba.html](http://www.geocomp.com.au/support/toshiba.html).

For more about Sentinel keys, see [www.geocomp.com.au/support/dongle.html](http://www.geocomp.com.au/support/dongle.html).

Please specify whether you want a USB or parallel port key at time of purchase.

## Other applications

The AutoRun menu on the CD includes installations for:

- *Trimble Terramodel 10.40*
- *Trimble Terramodel 10.40 Geocomp Update*
- *Trimble Terramodel Visualizer 2.05*
- *Terramodel Hydrographic Data Management System 1.9.6*
- *Trimble Data Transfer 1.10*
- *Trimble Paydirt Sitework 5.22*
- *Sentinel System Driver 5.41*
- *Adobe Acrobat Reader 6.0.2*

For more information, see the release notes for each application. Each installation also includes the option to uninstall.

There are also links from the menu to [www.ztree.com](http://www.ztree.com) where you can download ZtreeWin file manager (30 day trial) and [www.pdfmachine.com](http://www.pdfmachine.com) where you can download PDFMachineWhite Adobe PDF generator (free).

# Changes

## **Import AutoCAD 2004 Files**

You can now import AutoCAD 2004/2005 DXG and DXF files.

## **New Earthwork Command Replaces Volume Command**

The VOLUME command has been renamed to EARTHWORK. New options have been added to support stockpiles and depressions. You can now select multiple boundaries.

## **LandXML**

You can now import a LandXML alignment and DTM and export a roadjob or DTM to LandXML using scripts. You can also export points to LandXML, for uploading to a Leica Total Station for example, using GCPTSOUT command. LandXML format is supported by many applications and may become the standard for civil and survey data exchange. See [www.landxml.org](http://www.landxml.org) for more about the standard and sample files.

## **Measurement units**

The MEASUNIT command allows you to specify your units as feet or metres. If you import data from one system into the other, Terramodel may convert the units.

In 10.40, you can specify whether to treat feet as US Survey Feet (=0.304800609601 m) or International Feet (=0.3048 m).

Changing this setting does not affect existing data.

## **Plotting**

The plotting to file functionality has been enhanced to enable multiple files to be plotted that have the .plt extension. When specifying the file name to plot to, specify the extension of .plt. Terramodel will keep that extension and append \_000 to the plot file name.

### **Exporting data to SCS900**

When exporting to SCS900, the available options for each work order task are now enabled only for the applicable task.

### **Exporting DC road files**

Improvements have been made to the exporting of DC files to require less editing when used in SiteVision Office. A new option within the LINKSET command, *Remove link between BLs*, reduces the number of extra template points when exporting templates based on a DTM. Use this warily.

### **Importing coordinates with coordinate systems**

When importing coordinates with LLH (Latitude, longitude, height) values, these LLH coordinates are transformed and "projected" to NEZ (Northing, Easting, elevation) values in the Terramodel project coordinate system. These points are flagged as originally having LLH coordinates but the LLH values are not retained.

When importing coordinates with NEZ, the northing and easting values are converted from the imported file's coordinate system to the Terramodel project coordinate system. The elevation value is retained and not changed. In previous versions, Terramodel would have also translated the elevation given sufficient coordinate system information.

### **Known Defect in Geosys for Some Imported DC Files**

For some imported DC files, the GEOSYS command will display incorrect Horizontal and Vertical Adjustment Origin North and Origin East parameters. The display of these incorrect parameters only occurs when site setting parameters are used in the DC file. This known defect does not affect the computations, or coordinates, only their display in this single command. The correct parameters are used when points are exported to a DC file.

# Notes

## Aliases

New aliases have been added to alias.ini. Depending on the English language you chose during installation, you either have the COLOUR or COLOR command, but not both. If you want to have both, alias from one to the other.

## TML List

The TML list current with this release is typically installed to  
*C:\Program Files\Trimble\Terramodel\Geocomp\tmlist.htm*.

Open this through Terramodel Help menu or the desktop shortcut.

Use Ctrl-F or Edit Find (on this page) in your web browser to look for a command using a keyword. Mozilla Firefox browser can highlight all uses of the keyword.

The latest list is at [www.geocomp.com.au/support/terramodel/tmlist.htm](http://www.geocomp.com.au/support/terramodel/tmlist.htm).

## Trimble Data Transfer

*Trimble Data Transfer 1.10* can be installed from the AutoRun menu. This utility enables communication with various Trimble, Geodimeter and other instruments.

This utility may also update the *Terramodel Remote Device Manager* which may be required to communicate with certain new Trimble instruments, such as the *Active Control Unit (ACU) and TSCe*.

See <http://www.geocomp.com.au/support/terramodel/acu.html> for help with communication between Terramodel and the Trimble ACU.

## Paydirt Sitework

This CD also includes Paydirt Sitework 5.21 and the Paydirt Sitework 5.22 Update.